



TP CENTRAL ODISHA DISTRIBUTION LIMITED
(A Tata Power & Odisha Govt. joint venture)
1st Floor, Anuj Building, 29, Satya Nagar, Bhubaneswar-751007
NIT No.: TPCODL/P&S/1000000648/2024-25

VERY VERY IMPORTANT FOR THE PROSPECTIVE BIDDERS TO NOTE
PRIOR TO GOING THROUGH THE TENDER DOCUMENT

The bidders have to pay the requisite tender fees prior to submission of Pre-Bid queries (if any). The queries of the bidders who have paid the tender fees will be considered for clarification only. The queries of un-paid bidders shall not be considered for clarification. The queries are to be submitted in editable format of MS-Excel through e-mail only.

INFORMATION TO THE BIDDERS TO PARTICIPATE IN E-TENDER SYSTEM OF TPCODL

Procedure to Participate in Tender
Tender Enquiry No - TPCODL/P&S/1000000648/24-25

Tender Enquiry No.	Work Description	EMD (Rs.) *	Tender Fee (Rs.) **	Last Date and Time for payment of Tender Fee
TPCODL/P&S/1000000648/24-25	Rate Contract for Meter Installation and Associated Services for 2 years	15,00,000	5,000	16.05.2024

* EMD is exempted for MSMEs registered in the State of Odisha.

** MSMEs registered in the State of Odisha shall pay tender fee of Rs. 1,000/- including GST. For details of MSME norms, pls refer "Annexure VIIa"

Please note that corresponding details mentioned in this document will supersede any other details mentioned anywhere else in the Tender Document.

Procedure to Participate in Tender.

Following steps to be done before "Last date and time for Payment of Tender Fee" as mentioned above:

1. Eligible and Interested Bidders to submit duly signed and stamped letter on Bidder's letter head indicating

- a. Tender Enquiry number
- b. Name of authorized person
- c. Contact number of authorized person
- d. E-mail id of authorized person
- e. Name of Firm



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- f. Address of Firm
- g. GST Registration No
- h. Details of submission of Tender Fee
- i. MSME Certificate, wherever applicable
- j. Details of Bank Account for refund of EMD
- k. Postal Address for refund of EMD

2.Non-Refundable Tender Fee, as indicated in table above, to be submitted in the form of Direct Deposit in the following bank account and submit the receipt along with a covering letter clearly indicating the Tender Reference/ Enquiry Number –

Beneficiary Name – TP Central Odisha Distribution Ltd.

Bank Name – STATE BANK OF INDIA

Branch Name – IDCO Towers, Bhubaneshwar

Address – PO- Sahidnagar, Janapath, Bhubaneswar.

Branch Code – 7891

Account No – 10835304915

IFSC Code – SBIN0007891

E-mail with necessary attachment of 1 and 2 above to be sent to liki.debata@tpcentralodisha.com with copy to sudhakar.behera@tpcentralodisha.com before last date and time for payment of Tender Fee.

Interested bidders to submit Tender Fee and Authorization Letter before Last date and time as indicated above, after which link from TPCODL E-Tender system (Ariba) will be shared for further communication and bid submission.

Please note all future correspondence regarding the tender, bid submission, bid submission date extension, Pre-bid query etc will happen through TPCODL E-Tender system (Ariba). User manual to guide the bidders to submit the bid through E-Tender system (Ariba) is enclosed.

All communication will be done strictly with the bidders who have done the above step to participate in the Tender.

Also it may be strictly noted that once date of “Last date and time for Payment of Tender Participation Fee” is lapsed no Bidder will be sent link from TPCODL E-Tender System (Ariba). Without this link vendor will not be able to participate in the tender. Any last moment request to participate in tender will not be entertained.



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Also all future corrigendum to the said tender will be informed on Tender section on website <https://www.tpcentralodisha.com>.

-: Steps for E-tender submission: -

Step 1:

The bidder can get primary information about the tender from the NEWSPAPER advertisement / TPCODL website (in case of open tender) / invitation through e-mail (in case of limited tenders)

Step 2:

First the prospective Bidder who intends to participate in an open tender should deposit the requisite tender fee as mentioned in the tender document through NEFT/ RTGS in the a/c of TPCODL as mentioned in the tender document. Deposit of the Tender fee should be made within the scheduled time for such deposit as indicated in the Tender document

Step 3:

After deposit of the tender fee, the bidder should furnish the following information through e-mail to the contact person indicated in the tender document.

Step 4:

After receipt of the above information through e-mail, Vendor will get an **invitation e-mail** from ARIBA System which is the e-tendering platform of TPCODL. In this mail there will be an online link as **Click Here** to participate in the tender. The link is **valid for 48 hrs** only.

Step 5: Click **“Click Here”** to access this event.

Step 6:

If you are bidding first time for TPCODL through ARIBA site then please "Sign UP by creating User Name and password as mentioned in Sign Up page. Please follow the process, as mentioned in the Sign Up page, during creation of User Name and password.

Those who are already having User Name and password for accessing TPCODL events, they can LOGIN using same User Name and password.

Step 7:

Click Continue. The simple one-page registration screen will open for first time user. **All * mark mandatory field to be filled in.**

Step 8:

You will be able to see the RFQ (i.e Detail Tender document).

Step 9:

After review and downloading of all documents click on **“Accept Review Pre-requisites”** i.e acceptance of terms and conditions.

Step 10:

Review and accept **“Bidder Agreement”**.



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Step 11:

You can see attached tender document in PDF format against clause no 1.1.1 (Introduction).

Step 12:

Vendor has to attach PDF version of technical bid in clause no. 2.1 and 2.2. **(In this field do not attach any price document.)**

Step 13:

Uploading of Price Bid

- (a) Price schedule is attached in envelope.3.1 of ARIBA. Same has to be downloaded and price and tax details to be filled in as per the format given, print to be taken in vendor's letter head and signature and seal to be made by authorised person. PDF version of this price bid to be attached. For Price Bid put all the unit price and taxes and duties in provided field. Put "0" (ZERO) in not applicable field.
- (b) In addition, the bidder has to upload the editable form of the price bid in EXCEL format in envelope 3.2 of ARIBA system.

Step 14:

After uploading successfully Techno commercial offer and price part then click on "**Submit Entire Response**"

Note: Once user ID and password created, bidder can also login to ARIBA site through the following URL:

<https://service.ariba.com/Sourcing.aw/124997008/aw?awh=r&awssk=oxt0s1BN&dard=1>



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OPEN TENDER NOTIFICATION

FOR

**Rate Contract for Meter Installation and Associated Services
for 2 Years**

Tender Enquiry No.: TPCODL/P&S/1000000648/2024-25

Due Date for Bid Submission: 30.05.2024 [15:00 Hrs.]

**The Tata Power Central Odisha Distribution Limited
1st Floor, Anuj Building, 29, Satya Nagar,
Bhubaneswar-751007**

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1. Event Information

1.1 Scope of work

Open Tenders are invited in through e-tender bidding process from interested Bidders for entering into for **Rate Contract for Meter Installation and Associated Services for 2 years** as defined below

Package no	Description	EMD Amount(Rs.)	Tender Fee Incl. GST(Rs.)
1	Rate Contract for Meter Installation and Associated Services for 2 years	15,00,000	5,000

1.2 Availability of Tender Documents

Non-transferable tender documents may be purchased by interested eligible bidders from address given below, on submission of written application to the under mentioned and upon payment of non- refundable Tender Fee of requisite amount as mentioned above towards cost of bid documents.

Chief (Procurement & Stores)
Tata Power Central Odisha Distribution Limited

1st Floor, Anuj Building, 29, Satya Nagar, Bhubaneswar-751007

Tender documents may be downloaded by interested eligible bidders from TPCODL website www.tpcentralodisha.com with effect from 06.05.2024 In the event detailed tender documents are downloaded from TPCODL website or are received through email from TPCODL, the Tender Fee shall be compulsorily submitted either online through NEFT/ RTGS or demand draft/ Banker's cheque drawn in favour of "TP Central Odisha Distribution Limited", payable at Bhubaneswar only. Any such bid submitted without this Fee shall be rejected.

Bidders are requested to visit TPCODL website www.tpcentralodisha.com regularly for any modification/ clarification to the bid documents.

1.3 Calendar of Events

(a)	Date of sale/ availability of tender documents from TPCODL Website/ARIBA E-Tender Portal	From 06.05.2024
(b)	Last date and time of payment of Tender fees through RTGS/NEFT to get link for participation in E-Tender portal	16.05.2024

(c)	Last Date of receipt of Pre-Bid queries in MS – Excel format through e-mail, (if any) after which no queries will be entertained	21.05.2024
(d)	Date & Time of Pre-Bid Meeting (if any)	22.05.2024 (Online) 24.05.2024(Physical, if required)
(d)	Last Date of Posting Consolidated replies to all the Pre-Bid queries as received in the TPCODL website	27.05.2024
(e)	Last date and time of receipt of Bids through ARIBA E-Tender portal	30.05.2024 up to 15:00 Hours

Note :- In the event of last date specified for submission of bids and date of opening of bids is declared as a closed holiday for TPCODL, Bhubaneswar office the last date of submission of bids and date of opening of bids will be the following working day at appointed times.

1.4 Mandatory documents required along with the Bid

- 1.4.1 EMD of requisite value and validity
- 1.4.2 Tender Fee in case the tender is downloaded from website
- 1.4.3 Requisite Documents for compliance to Qualification Criteria mentioned in Clause 1.7.
- 1.4.4 Drawing, Type Test details (as applicable)
- 1.4.5 Duly signed and stamped 'Schedule of Deviations' as per Annexure III on bidder's letterhead.
- 1.4.6 Duly signed and stamped 'Schedule of Commercial Specifications' as per Annexure IV on bidder's letter head.
- 1.4.7 Proper authorization letter/ Power of Attorney to sign the tender on the behalf of bidder.
- 1.4.8 Copy of PAN, GST, PF and ESI Registration (In case any of these documents is not available with the bidder, same to be explicitly mentioned in the 'Schedule of Deviations')

Please note that in absence of any of the above documents, the bid submitted by a bidder shall be liable for rejection.

1.5 Deviation from Tender

Normally, the deviations to tender terms are not admissible and the bids with deviation are liable for rejection. Hence, the bidders are advised to refrain from taking any deviations on this Tender. Still in case of any deviations, all such deviations shall be set out by the Bidders, clause by clause in the 'Annexure III - Schedule of Deviations' and same shall be submitted as a part of the Technical Bid.

1.6 Right of Acceptance/Rejection

Bids are liable for rejection in absence of following documents: -

- 1.6.1 EMD of requisite value and validity
- 1.6.2 Tender fee of requisite value

- 1.6.3 Price Bid as per the Price Schedule mentioned in Annexure-I
- 1.6.4 Necessary documents against compliance to Qualification Requirements mentioned at Clause 1.7 of this Tender Document.
- 1.6.5 Filled in Schedule of Deviations as per Annexure III
- 1.6.6 Filled in Schedule of Commercial Specifications as per Annexure IV
- 1.6.7 Receipt of Bid within the due date and time

TPCODL reserves the right to accept/reject any or all the bids without assigning any reason thereof.

1.7 Qualification Criteria:

1. The bidder must have minimum three years' experience of providing Meter Installation / replacement services in reputed organizations.
(Self-Undertaking and suitable supporting documents to be submitted)
2. The bidder should have average annual turnover of Rs. 3 Cr. in last three years (FY 20-21, FY 21-22 and FY 22-23). Audited balance sheet, profit and loss account and auditors report from the statutory auditors of the company required).
3. The bidder must have executed Meter Installation activity OR Meter Replacement activity in any utility / companies for a total 10,000 energy Meters installed in last two years. (Rate contract/Order copy & Completion certificate to be submitted)
4. The bidder should have Valid Electrical Contractor License to work in Odisha. Copy of valid Electrical Contractor License issued by competent Authority, shall be submitted by bidder.
5. The Bidder should have Performance Certificates for satisfactory performance of having rendered similar services from at least one reputed company. The services against these issued certificates should have be carried out in last five years from the date of bid submission. In case the bidder has a previous association with TPCODL for similar products and services, the performance feedback for that bidder by TPCODL's User Group shall only be considered irrespective of performance certificates issued by any other organization.(Copy of Performance Certificate to be submitted)
6. The bidder must have all statutory compliance like valid PAN no., ESI registration, EPF registration, GSTN, etc. In case bidder is not having these statutory compliances, the Bidder shall submit an undertaking that in case they are the successful bidder, same shall be obtained by them and shall be submitted to TPCODL before execution / award of contract.
(Copy of above registrations / supporting documents to be submitted).

1.8 Marketing Integrity

We have a fair and competitive marketplace. The rules for bidders are outlined in the General Condition of Contracts. Bidders must agree to these rules prior to participating. In addition to other remedies available, TPCODL reserves the right to exclude a bidder from participating in future markets due to the bidder's violation of any of the rules or obligations contained in the General Condition of Contracts. A bidder who violates the market place rules or engages in behavior that disrupts the fair execution of the marketplace, may result in restriction of a bidder from further participation In the market place for a length of time, depending upon the seriousness of the violation. Examples of violations include, but are not limited to:

- Failure to honour prices submitted to the marketplace
- Breach of terms as published in TENDER/NIT

1.9 Supplier Confidentiality

All information contained in this tender is confidential and shall not be disclosed, published or advertised in any manner without written authorization from TPCODL. This includes all bidding information submitted to TPCODL. All tender documents remain the property of TPCODL and all suppliers are required to return these documents to TPCODL upon request. Suppliers who do not honor these confidentiality provisions will be excluded from participating in future bidding events.

2.0 Evaluation Criteria

- The bids will be evaluated technically on the compliance to tender terms and conditions.
- BOQ is divided into twenty division. All BAs have to bid for all 20 divisions as per Tender BOM format. The bids will be evaluated commercially on the overall all-inclusive lowest cost for the complete BOQ for each division as calculated in Schedule of Items [Annexure I].
- TPCODL however, reserves right to split the order line item wise and/or quantity wise amongst more than one Bidder(s). Hence all bidders are advised to quote their most competitive rates against each line item.
- Bidder has to mandatorily quote against each line item for each of the division of Schedule of Items [Annexure I]. Failing to do so, TPCODL may reject the bids.
- BA shall provide their working execution capacity i.e. for how many division they can work. The same shall be evaluated during tender evaluation of bidders.
- Tentative quantum of work for each year is mentioned in BOM.
- One BA can be allotted work in maximum of 04 nos. of Division. If required, additional divisions can be allotted to one BA based on management approval.

NOTE: In case of a new bidder not registered with TPCODL, factory inspection and evaluation shall be carried out to ascertain bidder's manufacturing capability and quality procedures. However, TPCODL reserves the right to carry out factory inspection and evaluation for any bidder prior to technical qualification. In case a bidder is found as Disqualified in the factory evaluation, their bid shall not be evaluated any further and shall be summarily rejected. The decision of TPCODL shall be final and binding on the bidder in this regard.

2.1 Price Variation Clause: The prices shall remain **firm** during the entire contract period.

2.2 Quantity variation Clause: The quantity mentioned in tender document is based upon best effort estimate and may vary on actual execution.

3.0 Submission of Bid Documents

3.1 Bid Submission

Bidders are requested to submit their offer in line with this Tender document. TPCODL shall respond to the clarification raised by various bidders and the replies will be sent to all
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participating bidders through e-mail through TPCODL website/ e-tender portal/e-mail.

Bids shall be submitted in 3 (Three) parts:

FIRST PART: “EMD” as applicable shall be submitted. The EMD shall be valid for 210 days from the due date of bid submission in the form of BG / online NEFT/ RTGS transfer / Bank Draft / Bankers Pay Order (issued from a scheduled Bank) favoring ‘TP Central Odisha Distribution Limited “only. The EMD has to be strictly in the format as mentioned in General Condition of Contract, failing which it shall not be accepted by TPCODL and the bid as submitted shall be liable for rejection. A separate non-refundable tender fee of stipulated amount also needs to be transferred online through NEFT/ RTGS in case the tender document is downloaded from our website.

TPCODL/ TPCODL Bank Details for transferring Tender Fee and EMD is as below:

Account Name: TP Central Odisha Distribution Limited
Bank Name: SBI, IDCO Towers, Bhubaneswar
Bank Account No. : 10835304915
IFSC Code : SBIN0007891

SECOND PART: “TECHNICAL BID” shall contain the following documents:

- a) Documentary evidence in support of qualifying criteria
- b) Technical literature/GTP/Type test report etc. *(if applicable)*
- c) Qualified manpower available
- d) Testing facilities *(if applicable)*
- e) No Deviation Certificate as per the Annexure III – Schedule of Deviations
- f) Acceptance to Commercial Terms and Conditions viz Delivery schedule/period, payment terms etc. as per the Annexure IV – Schedule of Commercial Specifications.
- g) Quality Assurance Plan/Inspection Test Plan for supply items *(if applicable)*

The technical bid shall be properly indexed and is to be submitted through E-Tender portal of TPCODL.

THIRD PART: “PRICE BID” shall contain only the price details and strictly in format as mentioned in Annexure I along with explicit break up of basic prices, Taxes & duties, Freight etc. In case any discrepancy is observed between the item description stated in Schedule of Items mentioned in the tender and the price bid submitted by the bidder, the item description as mentioned in the tender document (to the extent modified through Corrigendum issued if any) shall prevail.

FOR BIDS INVITED THROUGH E-PROCUREMENT PORTAL:

The interested bidders are requested to obtain user name and password for purpose of bid submission through e-procurement portal of TPCODL, Bhubaneswar

Bids have to be mandatorily submitted only through ARIBA e-procurement portal of TPCODL. Bids submitted through any other form/ route shall not be admissible

The interested bidders are requested to obtain user name and password for purpose of bid submission through e-procurement portal(tatapower.sourcing.ariba.com).



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Bids shall be submitted in 3 (Three) parts on the assigned folder of e-procurement site. May please refer the user manual available at (tatapower.sourcing.ariba.com).

Bids have to be mandatorily submitted only through e-procurement portal of TPCODL. Bids submitted through any other form/ route shall not be admissible.

The EMD in the form of Bank Draft / BG / Bankers Pay Order shall be submitted in original hard copy and then placed in sealed envelope which shall be clearly marked as below:

EMD for Entire Package

“Rate Contract for Meter Installation and Associated Services for 2 years”

Please mention our Enquiry Number: - **TPCODL/P&S/100000648/2024-25** on the Tender and drop the same at Tata Power Central Odisha Distribution Limited, 1st Floor, Anuj Building, 29, Satya Nagar, Bhubaneswar-751007.

The envelope shall be addressed to:

**Chief (Procurement & Stores)
Tata Power Central Odisha Distribution Limited
1st Floor, Anuj Building, 29, Satya Nagar, Bhubaneswar-751007**

The envelope shall also bear the Name and Address of the Bidder along with our Tender No. and subject.

The Bid prepared by the Bidder, and all correspondence and documents relating to the Bid exchanged by the Bidder and the TPCODL, shall be written in the English Language. Any printed literature furnished by the Bidder may be written in another Language, provided that this literature is accompanied by an English translation, in which case, for purposes of interpretation of the Bid, the English translation shall govern.

The Bidder has the option of sending the Bids in person or by post. **(NOT APPLICABLE TO THIS TENDER)** However late receipt due to postal delay or any other reason will not be entertained. Bids submitted by Email/ Telex/ Telegram / Fax will be rejected. No request from any Bidder to the TPCODL to collect the proposals from Courier/ Airlines/ Cargo Agents etc. shall be entertained by the TPCODL.

SIGNING OF BID DOCUMENTS:

The bid must contain the name, residence and place of business of the person or persons making the bid and must be signed and sealed by the Bidder with his usual signature. The names of all persons signing should also be typed or printed below the signature.

The Bid being submitted must be signed by a person holding a Power of Attorney authorizing him to do so, certified copies of which shall be enclosed.

The Bid submitted on behalf of companies registered with the Indian Companies Act, for the time being in force, shall be signed by persons duly authorized to submit the Bid on behalf of the Company and shall be accompanied by certified true copies of the resolutions, extracts of Articles of Association, special or general Power of Attorney etc. to show clearly the title, authority and designation of persons signing the Bid on behalf of the Company. Satisfactory evidence of authority of the person signing on behalf of the Bidder shall be furnished with the

bid.

A bid by a person who affixes to his signature the word 'President', 'Managing Director', 'Secretary', 'Agent' or other designation without disclosing his principal will be rejected.

The Bidder's name stated on the Proposal shall be the exact legal name of the firm.

3.2 Contact Information

All the bidders are requested to send their pre-bid queries (if any) against this tender through e-mail within the stipulated timelines. The consolidated reply to all the queries received shall be posted on TPCODL website by the stipulated timelines as detailed in calendar of events.

Communication Details:

Contracts:-

Name : Liki Kumari Debata, Procurement
Contact No: 9777451282
E-Mail ID: liki.debata@tpcentralodisha.com

Name : Sony Jha, HOG Procurement
Contact No: 9031368904
E-Mail ID: sony.jha@tpcentralodisha.com

Name: Mr. Sudhakar Behera, SGM Procurement
Contact No.: 9437282663
E-Mail ID: sudhakar.behera@tpcentralodisha.com

3.3 Bid Prices

Bidders shall quote for the entire Scope of Supply / work with a break up of prices for individual items and Taxes & duties. The bidder shall complete the appropriate Price Schedules included herein, stating the Unit Price & total price with taxes, duties, packing & freight up to destination loading unloading at central store Bhubaneswar/ Choudwar of TPCODL. The all-inclusive prices offered shall be inclusive of all costs as well as Duties, Taxes and Levies paid or payable during the execution of the supply work, breakup of price constituents.

The quantity break up shown else-where other than Price Schedule is tentative. The bidder shall ascertain himself regarding material required for completeness of the entire work. Any items not indicated in the price schedule but which are required to complete the job as per the Technical Specifications / Scope of Work mentioned in the tender, shall be deemed to be included in prices quoted.

3.4 Bid Currencies

Prices shall be quoted in Indian Rupees Only.

3.5 Period of Validity of Bids

Bids shall remain valid for 180 days from the due date of submission of the bid.

Notwithstanding clause above, the TPCODL may solicit the Bidder's consent to an extension of the Period of Bid Validity. The request and responses thereto shall be made in writing.

3.6 Alternative Bids

Bidders shall submit Bids, which comply with the Bidding documents. Alternative bids will not be considered. The attention of Bidders is drawn to the provisions regarding the rejection of Bids in the terms and conditions, which are not substantially responsive to the requirements of the bidding documents.

3.7 Modifications and Withdrawal of Bids

The bidder is not allowed to modify or withdraw its bid after the Bid's submission. The EMD as submitted along with the bid shall be liable for forfeiture in such event.

3.8 Earnest Money Deposit (EMD)

The bidder shall furnish, as part of its bid, an EMD amounting as specified in the tender. The EMD is required to protect the TPCODL against the risk of bidder's conduct which would warrant forfeiture.

The EMD shall be denominated in any of the following form:

- Banker's Cheque/ Demand Draft/ Pay order drawn in favour of "TP Central Odisha Distribution Limited", payable at Bhubaneswar.
- Online transfer of requisite amount through NEFT/ RTGS.
- Bank Guarantee valid for 210 days after due date of submission.

The EMD shall be forfeited in case of:

- a) The bidder withdraws its bid during the period of specified bid validity.

Or

- b) The case of a successful bidder, if the Bidder does not
i) accept the purchase order, or
ii) furnish the required performance security BG

3.9 Type Tests (if applicable)

The type tests specified in TPCODL specifications should have been carried out within five years prior to the date of opening of technical bids and test reports are to be submitted along with the bids. If type tests carried out are not within the five years prior to the date of bidding, the bidder will arrange to carry out type tests specified, at his cost. The decision to accept/ reject such bids rests with TPCODL.

4.0 Bid Opening & Evaluation process

4.1 Process to be confidential

Information relating to the examination, clarification, evaluation and comparison of Bids and recommendations for the award of a contract shall not be disclosed to Bidders or any other persons not officially concerned with such process. Any effort by a Bidder to influence the TPCODL's processing of Bids or award decisions may result in the rejection of the Bidder's Bid.

4.2 Technical Bid Opening

The bids shall be opened at TPCODL office in front of participated bidders either physically or



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in virtual mode. A link shall be provided to the participated bidders to view the tender opening process online. Also Participating Bidders shall get mail intimation from TPCODL E-Tender system (Ariba) when their Technical Bids are opened.

First the envelope marked “EMD” will be opened. Bids without EMD/cost of tender (if applicable) of required amount/ validity in prescribed format, shall be rejected.

Next, the technical bid of the bidders who have furnished the requisite EMD will be opened, one by one. The salient particulars of the techno commercial bid will be read out at the sole discretion of TPCODL.

The EMD of the bidder withdrawing or substantially altering his offer at any stage after the technical bid opening will be forfeited at the sole discretion of TPCODL without any further correspondence in this regard.

4.3 Preliminary Examination of Bids/ Responsiveness

TPCODL will examine the Bids to determine whether they are complete, whether any computational errors have been made, whether required sureties have been furnished, whether the documents have been properly signed, and whether the Bids are generally in order. TPCODL may ask for submission of original documents in order to verify the documents submitted in support of qualification criteria.

Arithmetical errors will be rectified on the following basis: If there is a discrepancy between the unit price and the total price per item that is obtained by multiplying the unit price and quantity, the unit price shall prevail and the total price per item will be corrected. If there is a discrepancy between the Total Amount and the sum of the total price per item, the sum of the total price per item shall prevail and the Total Amount will be corrected.

Prior to the detailed evaluation, TPCODL will determine the substantial responsiveness of each Bid to the Bidding Documents including production capability and acceptable quality of the Goods offered. A substantially responsive Bid is one, which conforms to all the terms and conditions of the Bidding Documents without material deviation.

Bid determined as not substantially responsive will be rejected by the TPCODL and/or the TPCODL and may not subsequently be made responsive by the Bidder by correction of the non-conformity.

4.4 Techno Commercial Clarifications

Bidders need to ensure that the bids submitted by them are complete in all respects. To assist in the examination, evaluation and comparison of Bids, TPCODL may, at its discretion, ask the Bidder for a clarification on its Bid for any deviations with respect to the TPCODL specifications and attempt will be made to bring all bids on a common footing. All responses to requests for clarification shall be in writing and no change in the price or substance of the Bid shall be sought, offered or permitted owing to any clarifications sought by TPCODL. After all techno commercial issues are clarified, the date of price bid opening will be intimated to the technically accepted bidders and same shall also be notified at TPCODL website.

4.5 Price Bid Opening

The bids shall be opened at TPCODL office in front of Techno-commercially and / or safety qualified bidders either physically or in virtual mode. A link shall be provided to the bidders to



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view the price-bid opening process online. Bidders shall also get mail intimation from TPCODL E-Tender system (Ariba) when their Price Bids are opened.

4.7 Reverse Auctions

TPCODL shall not conduct the reverse auction for the products/ services being asked for in this tender.

5.0 Award Decision

TPCODL will award the contract to the successful bidder whose bid has been determined to be the lowest-evaluated responsive bid as per the Evaluation Criterion mentioned at Clause 2.0. The Cost for the said calculation shall be taken as the all-inclusive cost quoted by bidder in Annexure I (Schedule of Items) subject to any corrections required in line with Clause 4.3 above. The decision to place rate contract / purchase order / LOI solely depends on TPCODL on the cost competitiveness across multiple lots, quality, delivery and bidder's capacity, in addition to other factors that TPCODL may deem relevant.

TPCODL reserves all the rights to award the contract to one or more bidders so as to meet the delivery requirement or nullify the award decision without assigning any reason thereof.

In case any supplier is found unsatisfactory during the delivery process, the award will be cancelled and TPCODL reserves the right to award other suppliers who are found fit.

6.0 Order of Preference/Contradiction:

In case of contradiction in any part of various documents in tender, following shall prevail in order of preference:

1. Schedule of Items (Annexure I)
2. Post Award Contract Administration (Clause 7.0)
3. Submission of Bid Documents (Clause 3.0)
4. Scope of Work and SLA (Annexure VII)
5. Technical Specifications (Annexure II)
6. Inspection Test Plan (Annexure VIII)
7. Acceptance Form for Participation in Reverse Auction (Annexure VI)
8. General Conditions of Contract (Annexure IX)

7.0 Post Award Contract Administration

7.1 Special Conditions of Contract

1. The overall period of the contract shall be for a period of 2 years. The contract shall however initially be placed for a period of one year only. Based on the performance of the BA, TPCODL reserves the right to extend the contract value on a year-to-year basis as per the agreed rates.
2. Release Order (RO) shall be placed as per the requirement of TPCODL.
3. Business Associate (BA) shall submit applicable Performance Bank Guarantee as per GCC within 30 days of issuance of order. PBG applicable shall be 5% of Order Value. Submitted PBG shall be released after completion of applicable guarantee period plus three month.
4. BA shall deploy resources within 15 days from date of placement of Release Order.
5. Contractor Safety Management System along with its amendments as issued time to time by TPCODL shall be applicable in this contract. All new amendments shall be effective from the date of their issue or from its date of intimation to the vendor by TPCODL whichever is later.

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6. TPCODL reserves the right to make changes to the scope of work with a view to optimize on the overall cost to TPCODL. BA shall fully cooperate with TPCODL in making such changes with an aim for overall cost optimization. The revised charges for Contract shall be jointly agreed upon between TPCODL and BA in such case. In case, a mutual consensus on the rates and other terms and conditions is not reached at between TPCODL and BA, TPCODL reserves the right to terminate the contract by giving suitable notice period and allocating the same to any other BA as deemed fit by TPCODL to maintain continuity of operations at site.
8. TPCODL appreciates and welcomes the engagement/employment of persons from SC/ST community or any other deprived section of society by their BAs.
9. Any change in statutory taxes, duties and levies during the contract period shall be borne by TPCODL.
10. All the terms and conditions of TPCODL General Conditions of Contract for Service Orders shall be applicable.

7.2 Payment Terms

At end of each month, BA shall provide reconciliation of protocol in the system. Based on reconciled protocol, the payment shall be released as per below milestone:-

1. 80% payment shall be released immediately after submission of bill at designated desk. (GM MMG (Three-Phase) and GM MMG (Single Phase) has to ensure the completion of SES process by 7th of every month).
2. 20% payment shall be released immediately after reconciliation/ verification of safety, quality parameter and material, return of removed meters and metering materials to respective stores (Warranty/Scrap) by EIC duly verified through proper channel within 25 days from receipt of bill if no discrepancies in found. (GM MMG (Three-Phase) and GM MMG (Single Phase) has to ensure the completion of SES process for balance 20% of bill by 25th of every month)

Note: Safety and Quality parameters includes ensuring sufficient stock of PPEs at BA main store for replenishing faulty tools and PPEs

a. Climate Change

Significant quantities of waste are generated during the execution of project and an integrated approach for effective handling, storage, transportation and disposal of the same shall be adopted. This would ensure the minimization of environmental and social impact in order to combat the climate change.

b. Ethics

- i. TPCODL is an ethical organization and as a policy TPCODL lays emphasis on ethical practices across its entire domain. Bidder should ensure that they should abide by all the ethical norms and in no form either directly or indirectly be involved in unethical practice.
- ii. TPCODL work practices are governed by the Tata Code of Conduct which emphasizes on the following:
- iii. We shall select our suppliers and service providers fairly and transparently.
- iv. We seek to work with suppliers and service providers who can demonstrate that they share similar values. We expect them to adopt ethical standards comparable to our own.
- v. Our suppliers and service providers shall represent our company only with duly authorized written permission from our company. They are expected to abide by the Code in their



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interactions with, and on behalf of us, including respecting the confidentiality of information shared with them.

- vi. We shall ensure that any gifts or hospitality received from, or given to, our suppliers or service providers comply with our company's gifts and hospitality policy.
- vii. We respect our obligations on the use of third party intellectual property and data.
- viii. Bidder is advised to refer GCC attached at Annexure IX for more formation. Any ethical concerns with respect to this tender can be reported to the following e-mail ID: ajit.maleyvar@tpcentralodisha.com

8.0 Specification and standards

As per Annexure II.

9.0 General Condition of Contract

Any condition not mentioned above shall be applicable as per GCC for Service attached along with this tender at Annexure VIII.

10.0 Safety

Annexure IX – Contractor's safety code of conduct and Safety Terms and Conditions.

All Associates shall strictly abide by the guidelines provided in the safety manual at all relevant stages during the contract period.

ANNEXURE I
Schedule of Items
Attached

ANNEXURE II
Technical specifications

Please refer annexure-VII

ANNEXURE III

Schedule of Deviations

*Bidders are advised to refrain from taking any deviations on this TENDER. Still in case of any deviations, all such deviations from this tender document shall be set out by the Bidders, Clause by Clause in this schedule and submit the same as a part of the **Technical Bid**.*

Unless specifically mentioned in this schedule, the tender shall be deemed to confirm the TPCODL's specifications:

S. No.	Clause No.	Tender Clause Details	Details of deviation with justifications

By signing this document we hereby withdraw all the deviations whatsoever taken anywhere in this bid document and comply to all the terms and conditions, technical specifications, scope of work etc. as mentioned in the standard document except those as mentioned above.

Seal of the Bidder:

Signature:

Name:

ANNEXURE IV

Schedule of Commercial Specifications

(The bidders shall mandatorily fill in this schedule and enclose it with the offer Part I: Technical Bid. In the absence of all these details, the offer may not be acceptable.)

S. No.	Particulars	Remarks
1.	Prices firm or subject to variation (If variable indicate the price variation clause with the ceiling if applicable)	Firm / Variable
1a.	If variable price variation on clause given	Yes / No
1b.	Ceiling	----- %
1c.	Inclusive of GST	Yes / No (If Yes, indicate % rate)
1d.	Inclusive of transit insurance	Yes / No
2.	Delivery	Weeks / months
3.	Guarantee clause acceptable	Yes / No
4.	Terms of payment acceptable	Yes / No
5.	Performance Bank Guarantee acceptable	Yes / No
6.	Liquidated damages clause acceptable	Yes / No
7.	Validity (180 days) (From the date of opening of bid)	Yes / No
8.	Inspection during stage of manufacture	Yes / No
9.	Rebate for increased quantity	Yes / No (If Yes, indicate value)
10.	Change in price for reduced quantity	Yes / No (If Yes, indicate value)
11.	Covered under Small Scale and Ancillary Industrial Undertaking Act 1992	Yes / No (If Yes, indicate, SSI Reg'n No.)

Seal of the Bidder:

Signature:

Name:

ANNEXURE V

Checklist of all the documents to be submitted with the Bid

Bidder has to mandatorily fill in the checklist mentioned below:-

S. No.	Documents attached	Yes / No / Not Applicable
1	EMD of required value	
2	Tender Fee as mentioned in this RFQ	
3	Company profile/organogram	
4	Signed copy of this RFQ as an unconditional acceptance	
5	Duly filled schedule of commercial specifications (Annexure IV)	
6	Sheet of commercial/technical deviation if any (Annexure III)	
7	Balance sheet for the last completed three financial years; mandatorily enclosing Profit & loss account statement	
8	Acknowledgement for Testing facilities if available (duly mentioned on bidder letter head)	
9	List of Machine/tools with updated calibration certificates if applicable	
10	Details of order copy (duly mentioned on bidder letter head)	
11	Order copies as a proof of quantity executed	
12	Details of Type Tests if applicable (duly mentioned on bidder letter head)	
13	All the relevant Type test certificates as per relevant IS/IEC (CPRI/ERDA/other certified agency) if applicable	
14	Project/supply Completion certificates	
15	Performance certificates	
16	Client Testimonial/Performance Certificates	
17	Credit rating/solvency certificate	
18	Undertaking regarding non blacklisting (On company letter head)	
19	List of trained/untrained Manpower	
20	PAN, GST, PF, ESIC (The bidder must have all statutory compliance like valid PAN, GSTN etc. The bidder must submit the copy of all these registrations)	
21	Power of Attorney undertaking (Proper authorization letter/ Power of Attorney to sign the tender on the behalf of bidder)	

Annexure VI
ACCEPTANCE FORM FOR PARTICIPATION IN REVERSE AUCTION EVENT
(To be signed and stamped by the bidder)

In a bid to make our entire procurement process more fair and transparent, TPCODL intends to use the reverse auctions through SAP-SRM tool as an integral part of the entire tendering process. All the bidders who are found as technically qualified based on the tender requirements shall be eligible to participate in the reverse auction event.

The following terms and conditions are deemed as accepted by the bidder on participation in the bid event:

1. TPCODL shall provide the user id and password to the authorized representative of the bidder. *(Authorization Letter in lieu of the same shall be submitted along with the signed and stamped Acceptance Form).*
2. TPCODL will make every effort to make the bid process transparent. However, the award decision by TPCODL would be final and binding on the supplier.
3. The bidder agrees to non-disclosure of trade information regarding the purchase, identity of TPCODL, bid process, bid technology, bid documentation and bid details.
4. The bidder is advised to understand the auto bid process to safeguard themselves against any possibility of non-participation in the auction event.
5. In case of bidding through Internet medium, bidders are further advised to ensure availability of the entire infrastructure as required at their end to participate in the auction event. Inability to bid due to telephone line glitch, internet response issues, software or hardware hangs, power failure or any other reason shall not be the responsibility of TPCODL.
6. In case of intranet medium, TPCODL shall provide the infrastructure to bidders. Further, TPCODL has sole discretion to extend or restart the auction event in case of any glitches in infrastructure observed which has restricted the bidders to submit the bids to ensure fair & transparent competitive bidding. In case of an auction event is restarted, the best bid as already available in the system shall become the start price for the new auction.
7. In case the bidder fails to participate in the auction event due any reason whatsoever, it shall be presumed that the bidder has no further discounts to offer and the initial bid as submitted by the bidder as a part of the tender shall be considered as the bidder's final no regret offer. Any offline price bids received from a bidder in lieu of non-participation in the auction event shall be out- rightly rejected by TPCODL.
8. The bidder shall be prepared with competitive price quotes on the day of the bidding event.
9. The prices as quoted by the bidder during the auction event shall be inclusive of all the applicable taxes, duties and levies and shall be FOR at TPCODL site.
10. The prices submitted by a bidder during the auction event shall be binding on the bidder.
11. No requests for time extension of the auction event shall be considered by TPCODL.
12. The original price bids of the bidders shall be reduced on pro-rata basis against each line item based on the final all-inclusive prices offered during conclusion of the auction event for arriving at Contract amount.

Signature & Seal of the Bidder

ANNEXURE VII

SCOPE OF WORK

Annexure-VIIa

Preferential norms for procurement from MSMEs registered in the State of Odisha

1) Tender Fees

To participate in the tender, MSMEs registered in the State of Odisha shall pay Rs.1,000/- including GST towards cost of tender paper.

2) Earnest Money Deposit (EMD)

EMD shall be exempted for MSME registered in the State of Odisha. However, Bidder shall be barred to participate in the tendering process for a period of 2 years in case it backs out post award of the contract.

3) Qualification Requirement for Open Tenders

Qualification Requirement of Financial Turnover for MSME registered in the State of Odisha shall be reduced to 20% of the existing criteria.

For past experience, instead of relying on the volumes / value of earlier Supplies / Projects, assessment of the Bidder shall be done on the basis of feedback from Customers. Past performance experience at Tata Power and its Group Companies shall supersede feedback from other Customers.

4) Reservation for MSME

It shall be mandatory to procure at least 20% of the total volume of the procurement from MSME registered in the State of Odisha (however, it shall not apply where goods/services are not available with the MSME), subject to matching L1 discovered prices and meeting technical specifications including quality requirements.

5) Performance Bank Guarantees

Performance Bank Guarantee for MSME registered in the State of Odisha shall be 25% of the value normally prescribed.

Annexure VIII

GENERAL CONDITIONS OF CONTRACT

General Conditions of Contract Attached as Annexure to this document.

ANNEXURE IX

Safety Terms and conditions

Attached.

ANNEXURE X
Contractor's Safety Code of Conduct

Attached.

ANNEXURE XI

Attached

Annexure XII

Vendor Evaluation Score Card

Performance Evaluation of Business Associate will be done in two parts as mentioned below:

1. Pre-Order Evaluation
2. Post-order Evaluation

Pre-Order Evaluation contains following parameters

- a. Responsiveness
- b. Bid Adherence
- c. Price & competitiveness

Post-Order Evaluation contains following parameters

- b. Safety Adherence
- c. Statutory Compliances
- d. Service Level Agreement

Annexure-I Price Bid Format
(Tender no. TPCODL/P&S/1000000648/24-25)

Summary of Prices

S No	Circle Name	Total All-Inclusive Price for Year-1 (Rs.)	Total All-Inclusive Price for Year-2 (Rs.)	Total All-Inclusive Price for Year-1 + Year-2 + Year-3 (Rs.)
1	BCCD-1	-	-	-
2	BCCD-2	-	-	-
3	BED	-	-	-
4	NED	-	-	-
5	Khurda	-	-	-
6	Nayagarh	-	-	-
7	Balugaon	-	-	-
8	Puri	-	-	-
9	CDD-1	-	-	-
10	CDD-2	-	-	-
11	CED	-	-	-
12	AED	-	-	-
13	SED	-	-	-
14	DED	-	-	-
15	ANED	-	-	-
16	TED	-	-	-
17	KED-1	-	-	-
18	KED-2	-	-	-
19	JED	-	-	-
20	PDP	-	-	-
Grand Total (in Rs.)		-	-	-

Schedule of items BCCD1

Sr. No.	Activity Type	Item Short Description	Long Service Description	UoM	SAC Code	Prices for Year 1					Prices for Year 2					Grand Total
						Quantity	Unit Rate (Rs.)	Appl. Taxes & Duties	All Inclusive Unit Rate (Rs.)	Total All Inclusive Value for Year-1 (Rs.)	Quantity	Unit Rate (Rs.)	Appl. Taxes & Duties	All Inclusive Unit Rate (Rs.)	Total All Inclusive Value for Year-2 (Rs.)	
						A	B	C	D = B + C	E = A x D	F	G	H	I = G + H	J = F x I	
1	SP	Meter Installation - SP	Installation of 1 phase energy meter with / without meter box/ existing meter box / Panel/ with freedom unit and communication cable lying. This also includes cable of any length from meter to MCB / Cutout / Kit Kat Fuse. This will include supply and installation of 'O' shaped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable. This line item includes removal of meters, where consumer meter is removed and handed over to customer	EA		24204		0	0	0	20,858		0	0	-	-
2	SP	Meter Installation NSC-SP	Meter and 2C * 4 sq mm Cable Installatin for NSC Cases	EA		1228		0	0	0	1,116		0	0	-	-
3	SP	Meter Installation NSC-SP	Meter and 2C * 6 sq mm Cable Installation for NSC Cases	EA		526		0	0	0	478		0	0	-	-
4	SP	Meter Removal - SP	Removal of any single phase meter with / without meter box/ existing meter box / from Panel/ with freedom unit and communication cable removal and submitting it back to Scrap / Warranty store after devaluation	EA		19363		0	0	0	16,687		0	0	-	-
5	SP	Installation of 2C*4 sq mm / 2C X 6 sq mm armoured, Cable O/H (Length 7M-30M)	Stringing, sagging of armoured service cable size 2CX 4 sq mm/ 2C X 6 sq mm with length between 7m to 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble required size. This will include supply and installation of 'O' shaped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		431		0	0	0	392		0	0	-	-
6	SP	Installation of 2C*6 sq mm armoured, Cable O/H (Length 7M-30M)	Stringing, sagging of armoured service cable size 2CX 6 sq mm with length between 7m to 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble / AB piercing connectors of required size. This will include supply and installation of 'O' shaped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		216		0	0	0	196		0	0	-	-
7	SP	Installation of 2C*10 sq mm armoured, Cable O/H (Length 7M-30M)	Stringing, sagging of armoured service cable size 2CX 10 sq mm with length between 7m to 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble / AB piercing connectors of required size. This will include supply and installation of 'O' shaped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		72		0	0	0	65		0	0	-	-
8	SP	Service Cable Removal of any size used for Single Phase connections	Removal of service cable of any size used for single Phase connections from pole/ LT Network and keeping unsafe custody to either re-use or return to scrap store / return to consumer if it pertains to consumer.	EA		719		0	0	0	654		0	0	-	-
9	SP / PP	Bus bar/ D/ Box Installation	Installation of any type of bus bar box / distribution box on wall along with supply of fasteners / on pole with steel strap and buckles / piercing connect where LT mains in ABC. This will include supply and installation of 'O' shaped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		40		0	0	0	36		0	0	-	-
10	SP / PP	Bus bar/ D/ Box Removal	Removal of any type of bus bar box / distribution box from wall / from pole along with steel strap and buckles. This will include supply and installation of 'O' shaped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		4		0	0	0	4		0	0	-	-
11	PP	Meter Installation - PP	Installation of 3 phase whole current energy meter with / without meter box/ existing meter box / Panel. This will include supply and installation of 'O' shaped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		3338		0	0	0	505		0	0	-	-
12	PP	Meter Removal - PP	Removal of any Three phase whole current meter with / without meter box/ existing meter box / from Panel/ with freedom unit and communication cable removal and returning back too Central Store. This payment will be applicable only if meters are returned to concered central stores.	EA		3034		0	0	0	455		0	0	-	-
13	PP	Installation of 4C*25 sq mm armoured, Cable O/H (Length 7M-30M)	Stringing, sagging of armoured service cable size 4CX 25 sq mm with length between 7m to 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble / AB piercing connectors of required size.	EA		607		0	0	0	81		0	0	-	-
14	PP	Installation of 4C*10 sq mm armoured, Cable O/H (Length 7M-30M)	Stringing, sagging of armoured service cable size 4CX 10 sq mm with length between 7m to 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble. This will include supply and installation of 'O' shaped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		1517		0	0	0	323		0	0	-	-
15	SP/PP	Loop Connection for service cable size 2C X 4 sq mm/ 2C X 6 sq mm / 2C X 10 sq mm/ 4C X 10 sq mm/ 4C X 25 sq mm with length ≤ 6 M	Stringing of loop connection (length <= 6 meter) for service cable size 2C X 4 sq mm/ 2C X 6 sq mm / 2C X 10 sq mm/ 4C X 10 sq mm/ 4C X 25 sq mm with proper termination. This will include supply and installation of 'O' shaped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		61		0	0	0	51		0	0	-	-
16	PP	Service Cable Removal of any size used for Poly Phase connections	Removal of service cable of 4C X 10 sq mm / 4C X 25 sq mm or any other size used for Poly Phase Whole Current connections from pole/ LT Network and returning it back to scrap store if not utilised again	EA		318		0	0	0	161		0	0	-	-
17	SP-Testing	Single Phase Meter Accuracy test at site with Accucheck	Single Phase Testing with Accucheck (provided by TPCODL) to be done without opening any seal / opening seals in presence of authorised TPCODL Officers.	EA		159		0	0	0	144		0	0	-	-
18	PP - Testing	Three Phase Whole Current Meter Accuracy test at site with Accucheck	Polyphase Testing with Accucheck (provided by TPCODL) to be done without opening any seal / opening seals in presence of authorised TPCODL Officers..	EA		461		0	0	0	420		0	0	-	-
19	LTCT - Testing	LT CT Meter Accuracy test at site with Accucheck	LTCT Meter Testing with Accucheck (provided by TPCODL) to be done without opening any seal / opening seals in presence of authorised TPCODL Officers..	EA		273		0	0	0	248		0	0	-	-
20	HT CT Testing	Meter Accuracy test at site (HTCT)	HTCT Meter Testing to be done at site. Testing kit will be provided by TPCODL.	EA		127		0	0	0	116		0	0	-	-
21	HT CT Testing	CT PT unit Testing after taking shut down	Testing of HT CT Metering unit of 11 KV / 33 KV at various loads after taking shut down and isolating MU from the circuit and after testing restoring it back in circuit. Connection to the meter need to be isolated and then re-connected. This will be a 100% supervised job.	EA		127		0	0	0	116		0	0	-	-
22	LTCT	Smart DT Meter installation along with Meter Box and connection for CT / PT (For energy auditing of DTs)	Installation of Smart DT meters 100/5A, along with ring type CTs of various ratings, Meter Box, and associated accessories on LT side of transformers. Note : this activity excludes handling work at transformer LT side.	EA		331		0	0	0	301		0	0	-	-
23	LTCT	Installation of 4C*50/4C*95 sq mm armoured service cable, O/H (Length up to 30M)	Stringing, sagging of armoured service cable size 4CX 50 sq mm with length upto 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble. (Saddles and Fastners are to be supplied by BA)	EA		199		0	0	0	181		0	0	-	-
24	LTCT	Installation of 4C*150 / 4C X 300 sq mm armoured service cable, O/H (Length up to 30M)	Stringing, sagging of armoured service cable size 4CX 95 sq mm / 4C X 150 sq mm with length upto 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble. (Saddles and Fastners are to be supplied by BA)	EA		66		0	0	0	60		0	0	-	-
25	HT	Meter Replacement - HT Meter Only	Replacement of any HT energy meter along with modem and its termination from Metering cubicle / CTPT unit	EA		170		0	0	0	4		0	0	-	-
26	HT	Meter Installation - HT Meter Only	Installation of any HT energy meter along with modem and its termination in Metering cubicle / CTPT unit	EA		18		0	0	0	22		0	0	-	-
27	HT	Meter Removal - HT Meter Only	Removal of any HT energy meter along with modem and its termination from Metering cubicle / CTPT unit	EA		170		0	0	0	4		0	0	-	-
28	HT	CTPT Installation - 11KV	Installation of new HT 11 KV out door Metering CTPT unit with or without meter, includes to & fro transportation(up to 50 KM), commissioning and energisation in all respect (i.e. connection in meter box from CTPT terminal block through control cable, pole mount CTPT unit erected at required height. Fix and Bolt CTPT unit, stand pipe flange, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CTPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door).All these activities are to be performed with crane of suitable capacity and all hardware will be in scope of BA except meter, MU and seals.	EA		99		0	0	0	14		0	0	-	-
29	HT	CTPT Installation - 33KV	Installation of new HT 33 KV out door Metering CTPT unit with or without meter, includes to & fro transportation (up to 50 KM), commissioning and energisation in all respect (i.e. connection in meter box from CTPT terminal block through control cable, pole mount CTPT unit erected at 30' height. Fix and Bolt CTPT unit, stand pipe flange, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CTPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door). Installation has to be done with crane of suitable capacity. All these activities are to be performed with crane of suitable capacity and all hardware will be in scope of BA except meter, MU and seals.	EA		38		0	0	0	4		0	0	-	-
30	HT	CTPT Removal- 11KV / 33KV	Dismantling of complete HT metering out door CTPT unit with or without meter, includes to & fro transportation (up to 50KM), removing and de-energisation in all respect (i.e. connection from meter box from CTPT terminal block through control cable, pole mount CTPT unit erected at 30' height. Fix and Bolt CTPT unit, stand pipe flange, two earth connections, HT cable ends termination removal, socket/ thimble crimp, stand pipe flanges removal, meter terminal cover, window and chamber door removal from site). Removed Metering material is to be returned back to Warranty and Scrap store	EA		137		0	0	0	22		0	0	-	-
31	HT	Replacement of CT PT Metering unit - 11KV	Replacement of out door HT metering unit of 11 KV along with replacement of control cable pipe , energy meter and allied accessories include to & fro transportation(up to 50 KM), commissioning and energisation in all respect (i.e. reconnection in meter box from CTPT terminal block through control cable, stand pipe flange replacement, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CTPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door). Note : Loading, Unloading, Installation of CT PT unit, Metering Cubicle at store, site through crane will be included in this cost.	EA		10		0	0	0	2		0	0	-	-
32	HT	Replacement of CT PT Metering unit - 33KV	Replacement of out door HT metering unit of 33 KV along with replacement of control cable pipe , energy meter and allied accessories include to & fro transportation(up to 50KM), commissioning and energisation in all respect (i.e. reconnection in meter box from CTPT terminal block through control cable, stand pipe flange replacement, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CTPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door). Note : Loading, Unloading, Installation of CT PT unit, Metering Cubicle at store, site through crane will be included in this cost.	EA		5		0	0	0	1		0	0	-	-

33	HT	Replacement of HT meter chamber OR Replacement / Shifting of control cable pipe with meter chamber for CPT unit (Transportation and lifting of MU is excluded)	Replacement of HT Metering chamber of HT 11 / 33 KV for out door Metering CPT unit, replacement of control cable pipe , energy meter and allied accessories include to & fro transportation, commissioning and energisation in all respect (i.e. reconnection in meter box from CPT terminal block through control cable, stand pipe flange replacement, two earth connections, HT cable ends termination, socket/thimble crimp, tape & plug cable entry, sealing CPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door). Note : This activity excludes transportation and lifting of metering unit.	EA	170	0	0	0	4	0	0	-	-
34	HT	Meter Installation - HT Meter (Travel charges in lot of 50 KM)	Rate for travel of HT Vehicle for additional travel in lot of 50 KM (over and above which is covered in activities where MU is to be transported) for a month. Rate for 50 KM additional mileage after rounding off to be charged. If more than one activity is performed at one site at a time, then this cost to be charged against only one activity.	EA	170	0	0	0	22	0	0	-	-
35	LT CT	LTCT Meter with box Installation (For 100/5 Amps & 200/5 Amps)	Installation of new LTCT meters with complete grouting, commissioning, supply of 8 Nos lugs and its crimping, energisation, communication of Meter and its allied accessories and seal installation with LTCT Meter box	EA	429	0	0	0	54	0	0	-	-
36	LT CT	LTCT Meter with box Removal - All Rating	Removal of any LTCT meters from site with de-energisation, Meter, modem and its allied accessories with meter box. This will include returning meters back to relevant central stores	EA	429	0	0	0	29	0	0	-	-
37	LT CT	Meter Replacement - LTCT Meter Only	Replacement of LTCT meter/ LTCT Smart meter of any rating i.e. 100/5A or 200/5A or 400/5A without box	EA	429	0	0	0	29	0	0	-	-
38	LTCT	Fault rectification in CT Meter pertaining to termination/LT Cable dressing.	Fault rectification includes termination (thimble / socket crimping, gland change, cable lead extension crimping and tightening) and cable dressing.	EA	10	0	0	0	364	0	0	-	-
39	SP/PP	Prefabricated GI Structure (Supply Item)/ kg	Prefabricated / GI structural angle/ channel/flats of different sizes, as per the site requirement	Kg	1049	0	0	0	953	0	0	-	-
40	SP/PP	Installation of Bracket Angle/ service anchor/ suspension clamp/ slotted angle	Installation of GI Bracket for Anchoring service cable of size 50, 95 & 150 sqmm / Installation of Service Cable Anchor / Installation of Slotted angle on pole in case of 2x10/4x10/4x25 cable lying, on uncleaned poles. (Number of items used at one site shall be considered for billing).	EA	210	0	0	0	191	0	0	-	-
41	TS	NIC / Modem Troubleshooting with TAB/ Laptop / Anyother device	(in case - Laptop/Tab in BA's scope)	EA	2727	0	0	0	2,479	0	0	-	-
42	DD	Manul Meter Reading and SVR	Taking manual reading parameters from meter display, providing remarks with photographs where data can not be downloaded for reason not attributable to BA	EA	1049	0	0	0	953	0	0	-	-
43	DD	Data downloading of meters	Data downloading of any meter per case	EA	1049	0	0	0	953	0	0	-	-
44	PP	Minor reworking in CT Meter termination/LT Cable dressing during pole cleaning	Minor reworking includes termination (thimble / socket crimping, gland change, cable lead extension crimping and tightening) and cable dressing during pole cleaning.	EA	5	0	0	0	5	0	0	-	-
45	Protocol Punching	Punching of Protocols for field activities - Metering/Modem/Testing/Data download	Bidder has to punch protocol for Meter installation (Both Single Phase and Three Phase activity/Modem Installation / rectification / Meter Testing (HT and LT) activity / data downloading activity, with 5% QC. Bidder to create Data Centre for same at Circle HO with required staff, computers and Broadband connection.	EA	15875	0	0	0	14,431	0	0	-	-
46	LT CT	LTCT Meter box Installation - 400/5 Amps	Installation of new LTCT meters with complete grouting, commissioning, supply of 8 Nos lugs and its crimping, energisation, communication of Meter and its allied accessories and seal installation with LTCT Meter box	EA	10	0	0	0	9	0	0	-	-
47	FSE	FSE- New Connection / Pre-inspection / Attribute Change / SVR	Site verification of new connection / Attribute Change / SVR with capturing of details as mentioned in site verification form and capturing photographs. Further submission of SVR and file at respective division office.	EA	2420	0	0	0	3,175	0	0	-	-
48		Safety officer	Safety officer shall be posted at division level and report to division incharge and shall be responsible for safety related to safety at respective divisions with Diploma in Electrical Safety with two years of experiences	EA	1	0	0	0	1	0	0	-	-
49		Divisional Coordinator	One in each Distribution Division with Graduate (conversant with excel sheet & should be able to prepare reports & do quality	EA	1	0	0	0	1	0	0	-	-
50		Lab Technician	Two in each Lab, Bhubaneswar/Cuttack with ITI in Electricals	EA	3	0	0	0	3	0	0	-	-
51		Lab Helper	10th Pass minimum to be posted at Lab , Bhubaneswar-3nos & Cuttack-2nos. Each, Vehicle to be provided for movement of meters from Central store, Bhubaneswar Lab & Choudwar store - Cuttack Lab & tested meters from lab to respective stores. (packing/unpacking etc.)	EA	3	0	0	0	3	0	0	-	-
52		Circle Coordinator	1no. Each attached to MRT HODs posted BBSR, Cuttack, Khurda, Dhnakanal, Paradip- 5nos and 5nos. At MRT HO level with Graduate (conversant with excel sheet & should be able to prepare reports & do quality	EA	1	0	0	0	1	0	0	-	-
53		Van Model	For Urban Division for BCDD-1, BCDD-2, BED, CDD-1 & CDD-2 for movement of 3P Meters from Central Store to sites for installation	EA	1	0	0	0	1	0	0	-	-
54		Helper-Tech	Helper with ITI-Electrical to be allotted wherever additional manpower is required for assisting existing 3 Phase team To accelerate the process of installation, apart from existing defined team for the 3 Phase activity, if required additional helper-with ITI Electrical may be allotted to the team as per requirement duly approved by EIC.	EA	6	0	0	0	6	0	0	-	-
Total All inc value										0	0	0	0

Schedule of items BCCD2

Sr. No.	Activity Type	Item Short Description	Long Service Description	UoM	SAC Code	Prices for Year 1					Prices for Year 2					Grand Total		
						Quantity	Unit Rate (Rs.)	Appl. Taxes & Duties	All Inclusive Unit Rate (Rs.)	Total All Inclusive Value for Year-1 (Rs.)	Quantity	Unit Rate (Rs.)	Appl. Taxes & Duties	All Inclusive Unit Rate (Rs.)	Total All Inclusive Value for Year-2 (Rs.)			
																	A	B
1	SP	Meter Installation - SP	Installation of 1 phase energy meter with / without meter box/ existing meter box / Panel/ with freedom unit and communication cable lying. This also includes cable of any length from meter to MCB / Cutout / Kit Kat Fuse. This will include supply and installation of 'O' shapped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable. This line item includes removal of meters, where consumer meter is removed and handed over to customer	EA		60653			0	0	0	48,153			0	0	-	-
2	SP	Meter Installation NSC-SP	Meter and 2C * 4 sq mm Cable Installatin for NSC Cases	EA		6613			0	0	0	6,012			0	0	-	-
3	SP	Meter Installation NSC-SP	Meter and 2C * 6 sq mm Cable Installation for NSC Cases	EA		2834			0	0	0	2,576			0	0	-	-
4	SP	Meter Removal - SP	Removal of any single phase meter with / without meter box/ existing meter box / from Panel/ with freedom unit and communication cable removal and submitting it back to Scrap / Warranty store after devaluation	EA		48522			0	0	0	38,522			0	0	-	-
5	SP	Installation of 2C*4 sq mm / 2C X 6 sq mm armoured, Cable O/H (Length 7M-30M)	Stringing, sagging of armoured service cable size 2CX 4 sq mm/ 2C X 6 sq mm with length between 7m to 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble required size. This will include supply and installation of 'O' shapped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		1013			0	0	0	921			0	0	-	-
6	SP	Installation of 2C*6 sq mm armoured, Cable O/H (Length 7M-30M)	Stringing, sagging of armoured service cable size 2CX 6 sq mm with length between 7m to 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble / AB piercing connectors of required size. This will include supply and installation of 'O' shapped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		2261			0	0	0	2,055			0	0	-	-
7	SP	Installation of 2C*10 sq mm armoured, Cable O/H (Length 7M-30M)	Stringing, sagging of armoured service cable size 2CX 10 sq mm with length between 7m to 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble / AB piercing connectors of required size. This will include supply and installation of 'O' shapped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		226			0	0	0	206			0	0	-	-
8	SP	Service Cable Removal of any size used for Single Phase connections	Removal of service cable of any size used for single Phase connections from pole/ LT Network and keeping unsafe custody to either re-use or return to scrap store / return to consumer if it pertains to consumer.	EA		1689			0	0	0	1,535			0	0	-	-
9	SP / PP	Bus bar/ D/ Box Installation	Installation of any type of bus bar box / distribution box on wall along with supply of fastners / on pole with steel strap and buckles / piercing connect where LT mains in ABC. This will include supply and installation of 'O' shapped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		118			0	0	0	108			0	0	-	-
10	SP / PP	Bus bar/ D/ Box Removal	Removal of any type of bus bar box / distribution box from wall / from pole along with steel strap and buckles. This will include supply and installation of 'O' shapped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		12			0	0	0	11			0	0	-	-
11	PP	Meter Installation - PP	Installation of 3 phase whole current energy meter with / without meter box/ existing meter box / Panel. This will include supply and installation of 'O' shapped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		10169			0	0	0	2,770			0	0	-	-
12	PP	Meter Removal - PP	Removal of any Three phase whole current meter with / without meter box/ existing meter box / from Panel/ with freedom unit and communication cable removal and returning back too Central Store. This payment will be applicable only if meters are returned to concered central stores.	EA		7933			0	0	0	2,493			0	0	-	-
13	PP	Installation of 4C*25 sq mm armoured, Cable O/H (Length 7M-30M)	Stringing, sagging of armoured service cable size 4CX 25 sq mm with length between 7m to 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble / AB piercing connectors of required size.	EA		1587			0	0	0	443			0	0	-	-
14	PP	Installation of 4C*10 sq mm armoured, Cable O/H (Length 7M-30M)	Stringing, sagging of armoured service cable size 4CX 10 sq mm with length between 7m to 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble. This will include supply and installation of 'O' shapped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		3967			0	0	0	1,773			0	0	-	-
15	SP/PP	Loop Connection for service cable size 2C X 4 sq mm/ 2C X 6 sq mm / 2C X 10 sq mm/ 4C X 10 sq mm/ 4C X 25 sq mm with length ≤ 6 M	Stringing of loop connection (length <= 6 meter) for service cable size 2C X 4 sq mm/ 2C X 6 sq mm / 2C X 10 sq mm/ 4C X 10 sq mm/ 4C X 25 sq mm with proper termination. This will include supply and installation of 'O' shapped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		159			0	0	0	277			0	0	-	-
16	PP	Service Cable Removal of any size used for Poly Phase connections	Removal of service cable of 4C X 10 sq mm / 4C X 25 sq mm or any other size used for Poly Phase Whole Current connections from pole/ LT Network and returning it back to scrap store if not utilised again	EA		7933			0	0	0	427			0	0	-	-
17	SP-Testing	Single Phase Meter Accuracy test at site with Accucheck	Single Phase Testing with Accucheck (provided by TPCODL) to be done without opening any seal / opening seals in presence of authorised TPCODL Officers.	EA		474			0	0	0	431			0	0	-	-
18	PP - Testing	Three Phase Whole Current Meter Accuracy test at site with Accucheck	Polyphase Testing with Accucheck (provided by TPCODL) to be done without opening any seal / opening seals in presence of authorised TPCODL Officers..	EA		2021			0	0	0	1,838			0	0	-	-
19	LTCT - Testing	LT CT Meter Accuracy test at site with Accucheck	LTCT Meter Testing with Accucheck (provided by TPCODL) to be done without opening any seal / opening seals in presence of authorised TPCODL Officers..	EA		1197			0	0	0	1,088			0	0	-	-
20	HT CT Testing	Meter Accuracy test at site (HTCT)	HTCT Meter Testing to be done at site. Testing kit will be provided by TPCODL.	EA		558			0	0	0	508			0	0	-	-
21	HT CT Testing	CT PT unit Testing after taking shut down	Testing of HT CT Metering unit of 11 KV / 33 KV at various loads after taking shut down and isolating MU from the circuit and after testing restoring it back in circuit. Connection to the meter need to be isolated and then re-connected. This will be a 100% supervised job.	EA		558			0	0	0	508			0	0	-	-
22	LTCT	Smart DT Meter installation along with Meter Box and connection for CT / PT (For energy auditing of DTs)	Installation of Smart DT meters 100/5A, along with ring type CTs of various ratings, Meter Box, and associated accessories on LT side of transformers. Note : this activity excludes handling work at tranformer LT side.	EA		833			0	0	0	757			0	0	-	-
23	LTCT	Installation of 4C*50/4C*95 sq mm armoured service cable, O/H (Length up to 30M)	Stringing, sagging of armoured service cable size 4CX 50 sq mm with length upto 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble. (Saddles and Fastners are to be supplied by BA)	EA		500			0	0	0	454			0	0	-	-
24	LTCT	Installation of 4C*150 / 4C X 300 sq mm armoured service cable, O/H (Length up to 30M)	Stringing, sagging of armoured service cable size 4CX 95 sq mm / 4C X 150 sq mm with length upto 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble. (Saddles and Fastners are to be supplied by BA)	EA		167			0	0	0	151			0	0	-	-
25	HT	Meter Replacement - HT Meter Only	Replacement of any HT energy meter along with modem and its termination from Metering cubicle / CTPT unit	EA		342			0	0	0	21			0	0	-	-
26	HT	Meter Installation - HT Meter Only	Installation of any HT energy meter along with modem and its termination in Metering cubicle / CTPT unit	EA		41			0	0	0	62			0	0	-	-
27	HT	Meter Removal - HT Meter Only	Removal of any HT energy meter along with modem and its termination from Metering cubicle / CTPT unit	EA		342			0	0	0	21			0	0	-	-
28	HT	CTPT Installation - 11KV	Installation of new HT 11 KV out door Metering CTPT unit with or without meter, includes to & fro transportation (up to 50 KM), commissioning and energisation in all respect (i.e. connection in meter box from CTPT terminal block through control cable, pole mount CTPT unit erected at required height. Fix and Bolt CTPT unit, stand pipe flange, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CTPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door).All these activities are to be performed with crane of suitable capacity and all hardware will be in scope of BA except meter, MU and seals.	EA		204			0	0	0	33			0	0	-	-
29	HT	CTPT Installation - 33KV	Installation of new HT 33 KV out door Metering CTPT unit with or without meter, includes to & fro transportation (up to 50 KM), commissioning and energisation in all respect (i.e. connection in meter box from CTPT terminal block through control cable, pole mount CTPT unit erected at 30' height. Fix and Bolt CTPT unit, stand pipe flange, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CTPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door). Installation has to be done with crane of suitable capacity. All these activities are to be performed with crane of suitable capacity and all hardware will be in scope of BA except meter, MU and seals.	EA		77			0	0	0	8			0	0	-	-
30	HT	CTPT Removal- 11KV / 33KV	Dismantling of complete HT metering out door CTPT unit with or without meter, includes to & fro transportation (up to 50KM), removing and de-energisation in all respect (i.e. connection from meter box from CTPT terminal block through control cable, pole mount CTPT unit erected at 30' height. Fix and Bolt CTPT unit, stand pipe flange, two earth connections, HT cable ends termination removal, socket/ thimble crimp, stand pipe flanges removal, meter terminal cover, window and chamber door removal from site). Removed Metering material is to be returned back to Warranty and Scrap store	EA		280			0	0	0	21			0	0	-	-
31	HT	Replacement of CT PT Metering unit - 11KV	Replacement of out door HT metering unit of 11 KV along with replacement of control cable pipe , energy meter and allied accessories include to & fro transportation (upto 50 KM), commissioning and energisation in all respect (i.e. reconnection in meter box from CTPT terminal block through control cable, stand pipe flange replacement, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CTPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door). Note : Loading, Unloading, Installation of CT PT unit, Metering Cubicle at store, site through crane will be included in this cost.	EA		10			0	0	0	11			0	0	-	-
32	HT	Replacement of CT PT Metering unit - 33KV	Replacement of out door HT metering unit of 33 KV along with replacement of control cable pipe , energy meter and allied accessories include to & fro transportation (up to 50KM), commissioning and energisation in all respect (i.e. reconnection in meter box from CTPT terminal block through control cable, stand pipe flange replacement, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CTPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door). Note : Loading, Unloading, Installation of CT PT unit, Metering Cubicle at store, site through crane will be included in this cost.	EA		10			0	0	0	4			0	0	-	-

33	HT	Replacement of HT meter chamber OR Replacement / Shifting of control cable pipe with meter chamber for CPT unit (Transportation and lifting of MU is excluded)	Replacement of HT Metering chamber of HT 11 / 33 KV for out door Metering CPT unit, replacement of control cable pipe , energy meter and allied accessories include to & fro transportation, commissioning and energisation in all respect (i.e. reconnection in meter box from CPT terminal block through control cable, stand pipe flange replacement, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door). Note : This activity excludes transportation and lifting of metering unit.	EA	100	0	0	0	21	0	0	-	-
34	HT	Meter Installation - HT Meter (Travel charges in lot of 50 KM)	Rate for travel of HT Vehicle for additional travel in lot of 50 KM (over and above which is covered in activities where MU is to be transported) for a month. Rate for 50 KM additional mileage after rounding off to be charged. If more than one activity is performed at one site at a time, then this cost to be charged against only one activity.	EA	306	0	0	0	62	0	0	-	-
35	LT CT	LTCT Meter with box Installation (For 100/5 Amps & 200/5 Amps)	Installation of new LTCT meters with complete grouting, commissioning, supply of 8 Nos lugs and its crimping, energisation, communication of Meter and its allied accessories and seal installation with LTCT Meter box	EA	109	0	0	0	146	0	0	-	-
36	LT CT	LTCT Meter with box Removal - All Rating	Removal of any LTCT meters from site with de-energisation, Meter, modem and its allied accessories with meter box. This will include returning meters back to relevant central stores	EA	759	0	0	0	37	0	0	-	-
37	LT CT	Meter Replacement - LTCT Meter Only	Replacement of LTCT meter/ LTCT Smart meter of any rating i.e. 100/5A or 200/5A or 400/5A without box	EA	759	0	0	0	37	0	0	-	-
38	LTCT	Fault rectification in CT Meter pertaining to termination/LT Cable dressing.	Fault rectification includes termination (thimble / socket crimping, gland change, cable lead extension crimping and tightening) and cable dressing.	EA	23	0	0	0	21	0	0	-	-
39	SP/PP	Prefabricated GI Structure (Supply Item)/ kg	Prefabricated / GI structural angle/ channel/flats of different sizes, as per the site requirement	Kg	1049	0	0	0	4,176	0	0	-	-
40	SP/PP	Installation of Bracket Angle/ service anchor/ suspension clamp/ slotted angle	Installation of GI Bracket for Anchoring service cable of size 50, 95 & 150 sqmm / Installation of Service Cable Anchor / Installation of Slotted angle on pole in case of 2x10/4x10/4x25 cable lying, on uncleaned poles. (Number of items used at one site shall be considered for billing).	EA	919	0	0	0	835	0	0	-	-
41	TS	NIC / Modem Troubleshooting with TAB/ Laptop / Anyother device	(in case - Laptop/Tab in BA's scope)	EA	11944	0	0	0	10,858	0	0	-	-
42	DD	Manual Meter Reading and SVR	Taking manual reading parameters from meter display, providing remarks with photographs where data can not be downloaded for reason not attributable to BA	EA	4594	0	0	0	4,176	0	0	-	-
43	DD	Data downloading of meters	Data downloading of any meter per case	EA	4594	0	0	0	4,176	0	0	-	-
44	PP	Minor reworking in CT Meter termination/LT Cable dressing during pole cleaning	Minor reworking includes termination (thimble / socket crimping, gland change, cable lead extension crimping and tightening) and cable dressing during pole cleaning.	EA	23	0	0	0	21	0	0	-	-
45	Protocol Punching	Punching of Protocols for field activities - Metering/Modem/Testing/Data download	Bidder has to punch protocol for Meter installation (Both Single Phase and Three Phase activity/Modem Installation / rectification / Meter Testing (HT and LT) activity / data downloading activity, with 5% QC. Bidder to create Data Centre for same at Circle HO with required staff, computers and Broadband connection.	EA	69536	0	0	0	63,215	0	0	-	-
46	LT CT	LTCT Meter box Installation - 400/5 Amps	Installation of new LTCT meters with complete grouting, commissioning, supply of 8 Nos lugs and its crimping, energisation, communication of Meter and its allied accessories and seal installation with LTCT Meter box	EA	2	0	0	0	2	0	0	-	-
47	FSE	FSE- New Connection / Pre-inspection / Attribute Change / SVR	Site verification of new connection / Attribute Change / SVR with capturing of details as mentioned in site verification form and capturing photographs. Further submission of SVR and file at respective division office.	EA	6065	0	0	0	13,907	0	0	-	-
48		Safety officer	Safety office shall be posted at division level and report to division incharge and shall be responsible for safety related to safety at respective divisions with Diploma in Electrical Safety with two years of experiences	EA	1	0	0	0	1	0	0	-	-
49		Divisional Coordinator	One in each Distribution Division with Graduate (conversant with excel sheet & should be able to prepare reports & do quality	EA	1	0	0	0	1	0	0	-	-
50		Circle Coordinator	1no. Each attached to MRT HODs posted BBSR, Cuttack, Khurda, Dhnakanal, Paradip- 5nos and 5nos. At MRT HO level with Graduate (conversant with excel sheet & should be able to prepare reports & do quality	EA	1	0	0	0	1	0	0	-	-
51		Van Model	For Urban Division for BCDD-1, BCDD-2, BED, CDD-1 & CDD-2 for movement of 3P Meters from Central Store to sites for installation	EA	1	0	0	0	1	0	0	-	-
52		Helper-Tech	Helper with ITI-Electrical to be allotted wherever additional manpower is required for assisting existing 3 Phase team To accelerate the process of installation, apart from existing defined team for the 3 Phase activity, If required additional helper-with ITI Electrical may be allotted to the team as per requirement duly approved by EIC.	EA	15	0	0	0	15	0	0	-	-
Total All inc value										0		-	-

Schedule of items BED

Sr. No.	Activity Type	Item Short Description	Long Service Description	UoM	SAC Code	Prices for Year 1					Prices for Year 2					Grand Total		
						Quantity	Unit Rate (Rs.)	Appl. Taxes & Duties	All Inclusive Unit Rate (Rs.)	Total All Inclusive Value for Year-1 (Rs.)	Quantity	Unit Rate (Rs.)	Appl. Taxes & Duties	All Inclusive Unit Rate (Rs.)	Total All Inclusive Value for Year-2 (Rs.)			
																	A	B
1	SP	Meter Installation - SP	Installation of 1 phase energy meter with / without meter box/ existing meter box / Panel/ with freedom unit and communication cable lying. This also includes cable of any length from meter to MCB / Cutout / Kit Kat Fuse. This will include supply and installation of 'O' shaped quick link, Jubilee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable. This line item includes removal of meters, where consumer meter is removed and handed over to customer	EA		57500			0	0	0	44,045			0	0	-	-
2	SP	Meter Installation NSC-SP	Meter and 2C * 4 sq mm Cable Installatin for NSC Cases	EA		6236			0	0	0	5,154			0	0	-	-
3	SP	Meter Installation NSC-SP	Meter and 2C * 6 sq mm Cable Installation for NSC Cases	EA		2673			0	0	0	2,209			0	0	-	-
4	SP	Meter Removal - SP	Removal of any single phase meter with / without meter box/ existing meter box / from Panel/ with freedom unit and communication cable removal and submitting it back to Scrap / Warranty store after devaluation	EA		46000			0	0	0	35,236			0	0	-	-
5	SP	Installation of 2C*4 sq mm / 2C X 6 sq mm armoured, Cable O/H (Length 7M-30M)	Stringing, sagging of armoured service cable size 2CX 4 sq mm/ 2C X 6 sq mm with length between 7m to 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble required size. This will include supply and installation of 'O' shaped quick link, Jubilee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		816			0	0	0	674			0	0	-	-
6	SP	Installation of 2C*6 sq mm armoured, Cable O/H (Length 7M-30M)	Stringing, sagging of armoured service cable size 2CX 6 sq mm with length between 7m to 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble / AB piercing connectors of required size. This will include supply and installation of 'O' shaped quick link, Jubilee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		408			0	0	0	337			0	0	-	-
7	SP	Installation of 2C*10 sq mm armoured, Cable O/H (Length 7M-30M)	Stringing, sagging of armoured service cable size 2CX 10 sq mm with length between 7m to 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble / AB piercing connectors of required size. This will include supply and installation of 'O' shaped quick link, Jubilee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		136			0	0	0	112			0	0	-	-
8	SP	Service Cable Removal of any size used for Single Phase connections	Removal of service cable of any size used for single Phase connections from pole/ LT Network and keeping unsafe custody to either re-use or return to scrap store / return to consumer if it pertains to consumer.	EA		1360			0	0	0	1,124			0	0	-	-
9	SP / PP	Bus bar/ D/ Box Installation	Installation of any type of bus bar box / distribution box on wall along with supply of fasteners / on pole with steel strap and buckles / piercing connect where LT mains in ABC. This will include supply and installation of 'O' shaped quick link, Jubilee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		131			0	0	0	108			0	0	-	-
10	SP / PP	Bus bar/ D/ Box Removal	Removal of any type of bus bar box / distribution box from wall / from pole along with steel strap and buckles. This will include supply and installation of 'O' shaped quick link, Jubilee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		13			0	0	0	11			0	0	-	-
11	PP	Meter Installation - PP	Installation of 3 phase whole current energy meter with / without meter box/ existing meter box / Panel. This will include supply and installation of 'O' shaped quick link, Jubilee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		8888			0	0	0	2,081			0	0	-	-
12	PP	Meter Removal - PP	Removal of any Three phase whole current meter with / without meter box/ existing meter box / from Panel/ with freedom unit and communication cable removal and returning back too Central Store. This payment will be applicable only if meters are returned to concered central stores.	EA		7261			0	0	0	1,873			0	0	-	-
13	PP	Installation of 4C*25 sq mm armoured, Cable O/H (Length 7M-30M)	Stringing, sagging of armoured service cable size 4CX 25 sq mm with length between 7m to 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble / AB piercing connectors of required size.	EA		1452			0	0	0	333			0	0	-	-
14	PP	Installation of 4C*10 sq mm armoured, Cable O/H (Length 7M-30M)	Stringing, sagging of armoured service cable size 4CX 10 sq mm with length between 7m to 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble. This will include supply and installation of 'O' shaped quick link, Jubilee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		3631			0	0	0	1,332			0	0	-	-
15	SP/PP	Loop Connection for service cable size 2C X 4 sq mm/ 2C X 6 sq mm / 2C X 10 sq mm/ 4C X 10 sq mm/ 4C X 25 sq mm with length ≤ 6 M	Stringing of loop connection (length <= 6 meter) for service cable size 2C X 4 sq mm/ 2C X 6 sq mm / 2C X 10 sq mm/ 4C X 10 sq mm/ 4C X 25 sq mm with proper termination. This will include supply and installation of 'O' shaped quick link, Jubilee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		145			0	0	0	208			0	0	-	-
16	PP	Service Cable Removal of any size used for Poly Phase connections	Removal of service cable of 4C X 10 sq mm / 4C X 25 sq mm or any other size used for Poly Phase Whole Current connections from pole/ LT Network and returning it back to scrap store if not utilised again	EA		7261			0	0	0	363			0	0	-	-
17	SP-Testing	Single Phase Meter Accuracy test at site with Accucheck	Single Phase Testing with Accucheck (provided by TPCODL) to be done without opening any seal / opening seals in presence of authorised TPCODL Officers.	EA		525			0	0	0	434			0	0	-	-
18	PP - Testing	Three Phase Whole Current Meter Accuracy test at site with Accucheck	Polyphase Testing with Accucheck (provided by TPCODL) to be done without opening any seal / opening seals in presence of authorised TPCODL Officers..	EA		1530			0	0	0	1,265			0	0	-	-
19	LTCT - Testing	LT CT Meter Accuracy test at site with Accucheck	LTCT Meter Testing with Accucheck (provided by TPCODL) to be done without opening any seal / opening seals in presence of authorised TPCODL Officers..	EA		906			0	0	0	749			0	0	-	-
20	HT CT Testing	Meter Accuracy test at site (HTCT)	HTCT Meter Testing to be done at site. Testing kit will be provided by TPCODL.	EA		423			0	0	0	349			0	0	-	-
21	HT CT Testing	CT PT unit Testing after taking shut down	Testing of HT CT Metering unit of 11 KV / 33 KV at various loads after taking shut down and isolating MU from the circuit and after testing restoring it back in circuit. Connection to the meter need to be isolated and then re-connected. This will be a 100% supervised job.	EA		423			0	0	0	349			0	0	-	-
22	LTCT	Smart DT Meter installation along with Meter Box and connection for CT / PT (For energy auditing of DTs)	Installation of Smart DT meters 100/5A, along with ring type CTs of various ratings, Meter Box, and associated accessories on LT side of transformers. Note : this activity excludes handling work at tranformer LT side.	EA		698			0	0	0	577			0	0	-	-
23	LTCT	Installation of 4C*50/4C*95 sq mm armoured service cable, O/H (Length up to 30M)	Stringing, sagging of armoured service cable size 4CX 50 sq mm with length upto 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble. (Saddles and Fastners are to be supplied by BA)	EA		419			0	0	0	346			0	0	-	-
24	LTCT	Installation of 4C*150 / 4C X 300 sq mm armoured service cable, O/H (Length up to 30M)	Stringing, sagging of armoured service cable size 4CX 95 sq mm / 4C X 150 sq mm with length upto 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble. (Saddles and Fastners are to be supplied by BA)	EA		140			0	0	0	115			0	0	-	-
25	HT	Meter Replacement - HT Meter Only	Replacement of any HT energy meter along with modem and its termination from Metering cubicle / CTPT unit	EA		220			0	0	0	10			0	0	-	-
26	HT	Meter Installation - HT Meter Only	Installation of any HT energy meter along with modem and its termination in Metering cubicle / CTPT unit	EA		31			0	0	0	41			0	0	-	-
27	HT	Meter Removal - HT Meter Only	Removal of any HT energy meter along with modem and its termination from Metering cubicle / CTPT unit	EA		220			0	0	0	10			0	0	-	-
28	HT	CTPT Installation - 11KV	Installation of new HT 11 KV out door Metering CTPT unit with or without meter, includes to & fro transportation (up to 50 KM), commissioning and energisation in all respect (i.e. connection in meter box from CTPT terminal block through control cable, pole mount CTPT unit erected at required height. Fix and Bolt CTPT unit, stand pipe flange, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CTPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door).All these activities are to be performed with crane of suitable capacity and all hardware will be in scope of BA except meter, MU and seals.	EA		135			0	0	0	25			0	0	-	-
29	HT	CTPT Installation - 33KV	Installation of new HT 33 KV out door Metering CTPT unit with or without meter, includes to & fro transportation (up to 50 KM), commissioning and energisation in all respect (i.e. connection in meter box from CTPT terminal block through control cable, pole mount CTPT unit erected at 30' height. Fix and Bolt CTPT unit, stand pipe flange, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CTPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door). Installation has to be done with crane of suitable capacity. All these activities are to be performed with crane of suitable capacity and all hardware will be in scope of BA except meter, MU and seals.	EA		50			0	0	0	6			0	0	-	-
30	HT	CTPT Removal- 11KV / 33KV	Dismantling of complete HT metering out door CTPT unit with or without meter, includes to & fro transportation (up to 50KM), removing and de-energisation in all respect (i.e. connection from meter box from CTPT terminal block through control cable, pole mount CTPT unit erected at 30' height. Fix and Bolt CTPT unit, stand pipe flange, two earth connections, HT cable ends termination removal, socket/ thimble crimp, stand pipe flanges removal, meter terminal cover, window and chamber door removal from site). Removed Metering material is to be returned back to Warranty and Scrap store	EA		185			0	0	0	10			0	0	-	-
31	HT	Replacement of CT PT Metering unit - 11KV	Replacement of out door HT metering unit of 11 KV along with replacement of control cable pipe , energy meter and allied accessories include to & fro transportation (upto 50 KM), commissioning and energisation in all respect (i.e. reconnection in meter box from CTPT terminal block through control cable, stand pipe flange replacement, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CTPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door). Note : Loading, Unloading, Installation of CT PT unit, Metering Cubicle at store, site through crane will be included in this cost.	EA		10			0	0	0	5			0	0	-	-
32	HT	Replacement of CT PT Metering unit - 33KV	Replacement of out door HT metering unit of 33 KV along with replacement of control cable pipe , energy meter and allied accessories include to & fro transportation (up to 50KM), commissioning and energisation in all respect (i.e. reconnection in meter box from CTPT terminal block through control cable, stand pipe flange replacement, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CTPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door). Note : Loading, Unloading, Installation of CT PT unit, Metering Cubicle at store, site through crane will be included in this cost.	EA		10			0	0	0	2			0	0	-	-

33	HT	Replacement of HT meter chamber OR Replacement / Shifting of control cable pipe with meter chamber for CTPT unit (Transportation and lifting of MU is excluded)	Replacement of HT Metering chamber of HT 11 / 33 KV for out door Metering CTPT unit, replacement of control cable pipe , energy meter and allied accessories include to & fro transportation, commissioning and energisation in all respect (i.e. reconnection in meter box from CTPT terminal block through control cable, stand pipe flange replacement, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CTPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door). Note : This activity excludes transportation and lifting of metering unit.	EA	220	0	0	0	10	0	0	-	-
34	HT	Meter Installation - HT Meter (Travel charges in lot of 50 KM)	Rate for travel of HT Vehicle for additional travel in lot of 50 KM (over and above which is covered in activities where MU is to be transported) for a month. Rate for 50 KM additional mileage after rounding off to be charged. If more than one activity is performed at one site at a time, then this cost to be charged against only one activity.	EA	220	0	0	0	41	0	0	-	-
35	LT CT	LTCT Meter with box Installation (For 100/5 Amps & 200/5 Amps)	Installation of new LTCT meters with complete grouting, commissioning, supply of 8 Nos lugs and its crimping, energisation, communication of Meter and its allied accessories and seal installation with LTCT Meter box	EA	68	0	0	0	95	0	0	-	-
36	LT CT	LTCT Meter with box Removal - All Rating	Removal of any LTCT meters from site with de-energisation, Meter, modem and its allied accessories with meter box. This will include returning meters back to relevant central stores	EA	589	0	0	0	27	0	0	-	-
37	LT CT	Meter Replacement - LTCT Meter Only	Replacement of LTCT meter/ LTCT Smart meter of any rating i.e. 100/5A or 200/5A or 400/5A without box	EA	589	0	0	0	27	0	0	-	-
38	LTCT	Fault rectification in CT Meter pertaining to termination/LT Cable dressing.	Fault rectification includes termination (thimble / socket crimping, gland change, cable lead extension crimping and tightening) and cable dressing.	EA	17	0	0	0	14	0	0	-	-
39	SP/PP	Prefabricated GI Structure (Supply Item)/ kg	Prefabricated / GI structural angle/ channel/flats of different sizes, as per the site requirement	Kg	1049	0	0	0	2,874	0	0	-	-
40	SP/PP	Installation of Bracket Angle/ service anchor/ suspension clamp/ slotted angle	Installation of GI Bracket for Anchoring service cable of size 50, 95 & 150 sqmm / Installation of Service Cable Anchor / Installation of Slotted angle on pole in case of 2x10/4x10/4x25 cable lying, on uncleaned poles. (Number of items used at one site shall be considered for billing).	EA	696	0	0	0	575	0	0	-	-
41	TS	NIC / Modem Troubleshooting with TAB/ Laptop / Anyother device	(in case - Laptop/Tab in BA's scope)	EA	9042	0	0	0	7,472	0	0	-	-
42	DD	Manul Meter Reading and SVR	Taking manual reading parameters from meter display, providing remarks with photographs where data can not be downloaded for reason not attributable to BA	EA	3478	0	0	0	2,874	0	0	-	-
43	DD	Data downloading of meters	Data downloading of any meter per case	EA	3478	0	0	0	2,874	0	0	-	-
44	PP	Minor reworking in CT Meter termination/LT Cable dressing during pole cleaning	Minor reworking includes termination (thimble / socket crimping, gland change, cable lead extension crimping and tightening) and cable dressing during pole cleaning.	EA	17	0	0	0	14	0	0	-	-
45	Protocol Punching	Punching of Protocols for field activities - Metering/Modem/Testing/Data download	Bidder has to punch protocol for Meter installation (Both Single Phase and Three Phase activity/Modem Installation / rectification / Meter Testing (HT and LT) activity / data downloading activity, with 5% QC. Bidder to create Data Centre for same at Circle HO with required staff, computers and Broadband connection.	EA	52637	0	0	0	43,502	0	0	-	-
46	LT CT	LTCT Meter box Installation - 400/5 Amps	Installation of new LTCT meters with complete grouting, commissioning, supply of 8 Nos lugs and its crimping, energisation, communication of Meter and its allied accessories and seal installation with LTCT Meter box	EA	2	0	0	0	1	0	0	-	-
47	FSE	FSE- New Connection / Pre-inspection / Attribute Change / SVR	Site verification of new connection / Attribute Change / SVR with capturing of details as mentioned in site verification form and capturing photographs. Further submission of SVR and file at respective division office.	EA	5750	0	0	0	9,570	0	0	-	-
48		Safety officer	Safety office shall be posted at division level and report to division incharge and shall be responsible for safety related to safety at respective divisions with Diploma in Electrical Safety with two years of experiences	EA	1	0	0	0	1	0	0	-	-
49		Divisional Coordinator	One in each Distribution Division with Graduate (conversant with excel sheet & should be able to prepare reports & do quality	EA	1	0	0	0	1	0	0	-	-
50		Van Model	For Urban Division for BCDD-1, BCDD-2, BED, CDD-1 & CDD-2 for movement of 3P Meters from Central Store to sites for Installation	EA	1	0	0	0	1	0	0	-	-
51		Helper-Tech	Helper with ITI-Electrical to be alloted wherever additional manpower is required for assisting existing 3 Phase team To accelerate the process of installation, apart from existing defined team for the 3 Phase activity, if required additional helper-with ITI Electrical may be alloted to the team as per requiremet duly approved by EIC.	EA	13	0	0	0	13	0	0	-	-
Total All inc value									0			-	-

Schedule of items NED

Sr. No.	Activity Type	Item Short Description	Long Service Description	UoM	SAC Code	Prices for Year 1					Prices for Year 2					Grand Total
						Quantity	Unit Rate (Rs.)	Appl. Taxes & Duties	All Inclusive Unit Rate (Rs.)	Total All Inclusive Value for Year-1 (Rs.)	Quantity	Unit Rate (Rs.)	Appl. Taxes & Duties	All Inclusive Unit Rate (Rs.)	Total All Inclusive Value for Year-2 (Rs.)	
1	SP	Meter Installation - SP	Installation of 1 phase energy meter with / without meter box/ existing meter box / Panel/ with freedom unit and communication cable lying. This also includes cable of any length from meter to MCB / Cutout / Kit Kat Fuse. This will include supply and installation of 'O' shapped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable. This line item includes removal of meters, where consumer meter is removed and handed over to customer	EA		14304			0	0	0	9,455	0	0	-	-
2	SP	Meter Installation NSC-SP	Meter and 2C * 4 sq mm Cable Installatin for NSC Cases	EA		4029			0	0	0	3,663	0	0	-	-
3	SP	Meter Installation NSC-SP	Meter and 2C * 6 sq mm Cable Installation for NSC Cases	EA		1727			0	0	0	1,570	0	0	-	-
4	SP	Meter Removal - SP	Removal of any single phase meter with / without meter box/ existing meter box / from Panel/ with freedom unit and communication cable removal and submitting it back to Scrap / Warranty store after devaluation	EA		11443			0	0	0	7,564	0	0	-	-
5	SP	Installation of 2C*4 sq mm / 2C X 6 sq mm armoured, Cable O/H (Length 7M-30M)	Stringing, sagging of armoured service cable size 2CX 4 sq mm/ 2C X 6 sq mm with length between 7m to 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble required size. This will include supply and installation of 'O' shapped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		1433			0	0	0	1,303	0	0	-	-
6	SP	Installation of 2C*6 sq mm armoured, Cable O/H (Length 7M-30M)	Stringing, sagging of armoured service cable size 2CX 6 sq mm with length between 7m to 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble / AB piercing connectors of required size. This will include supply and installation of 'O' shapped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		717			0	0	0	652	0	0	-	-
7	SP	Installation of 2C*10 sq mm armoured, Cable O/H (Length 7M-30M)	Stringing, sagging of armoured service cable size 2CX 10 sq mm with length between 7m to 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble / AB piercing connectors of required size. This will include supply and installation of 'O' shapped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		239			0	0	0	217	0	0	-	-
8	SP	Service Cable Removal of any size used for Single Phase connections	Removal of service cable of any size used for single Phase connections from pole/ LT Network and keeping unsafe custody to either re-use or return to scrap store / return to consumer if it pertains to consumer.	EA		2389			0	0	0	2,172	0	0	-	-
9	SP / PP	Bus bar/ D/ Box Installation	Installation of any type of bus bar box / distribution box on wall along with supply of fastners / on pole with steel strap and buckles / piercing connect where LT mains in ABC. This will include supply and installation of 'O' shapped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		261			0	0	0	237	0	0	-	-
10	SP / PP	Bus bar/ D/ Box Removal	Removal of any type of bus bar box / distribution box from wall / from pole along with steel strap and buckles. This will include supply and installation of 'O' shapped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		26			0	0	0	24	0	0	-	-
11	PP	Meter Installation - PP	Installation of 3 phase whole current energy meter with / without meter box/ existing meter box / Panel. This will include supply and installation of 'O' shapped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		1662			0	0	0	660	0	0	-	-
12	PP	Meter Removal - PP	Removal of any Three phase whole current meter with / without meter box/ existing meter box / from Panel/ with freedom unit and communication cable removal and returning back too Central Store. This payment will be applicable only if meters are returned to concered central stores.	EA		1188			0	0	0	594	0	0	-	-
13	PP	Installation of 4C*25 sq mm armoured, Cable O/H (Length 7M-30M)	Stringing, sagging of armoured service cable size 4CX 25 sq mm with length between 7m to 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble / AB piercing connectors of required size.	EA		238			0	0	0	106	0	0	-	-
14	PP	Installation of 4C*10 sq mm armoured, Cable O/H (Length 7M-30M)	Stringing, sagging of armoured service cable size 4CX 10 sq mm with length between 7m to 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble. This will include supply and installation of 'O' shapped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		594			0	0	0	422	0	0	-	-
15	SP/PP	Loop Connection for service cable size 2C X 4 sq mm/ 2C X 6 sq mm / 2C X 10 sq mm/ 4C X 10 sq mm/ 4C X 25 sq mm with length ≤ 6 M	Stringing of loop connection (length <= 6 meter) for service cable size 2C X 4 sq mm/ 2C X 6 sq mm / 2C X 10 sq mm/ 4C X 10 sq mm/ 4C X 25 sq mm with proper termination. This will include supply and installation of 'O' shapped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		24			0	0	0	66	0	0	-	-
16	PP	Service Cable Removal of any size used for Poly Phase connections	Removal of service cable of 4C X 10 sq mm / 4C X 25 sq mm or any other size used for Poly Phase Whole Current connections from pole/ LT Network and returning it back to scrap store if not utilised again	EA		1188			0	0	0	149	0	0	-	-
17	SP-Testing	Single Phase Meter Accuracy test at site with Accucheck	Single Phase Testing with Accucheck (provided by TPCODL) to be done without opening any seal / opening seals in presence of authorised TPCODL Officers.	EA		1042			0	0	0	948	0	0	-	-
18	PP - Testing	Three Phase Whole Current Meter Accuracy test at site with Accucheck	Polyphase Testing with Accucheck (provided by TPCODL) to be done without opening any seal / opening seals in presence of authorised TPCODL Officers..	EA		387			0	0	0	352	0	0	-	-
19	LTCT - Testing	LT CT Meter Accuracy test at site with Accucheck	LTCT Meter Testing with Accucheck (provided by TPCODL) to be done without opening any seal / opening seals in presence of authorised TPCODL Officers..	EA		229			0	0	0	208	0	0	-	-
20	HT CT Testing	Meter Accuracy test at site (HTCT)	HTCT Meter Testing to be done at site. Testing kit will be provided by TPCODL.	EA		107			0	0	0	97	0	0	-	-
21	HT CT Testing	CT PT unit Testing after taking shut down	Testing of HT CT Metering unit of 11 KV / 33 KV at various loads after taking shut down and isolating MU from the circuit and after testing restoring it back in circuit. Connection to the meter need to be isolated and then re-connected. This will be a 100% supervised job.	EA		107			0	0	0	97	0	0	-	-
22	LTCT	Smart DT Meter installation along with Meter Box and connection for CT / PT (For energy auditing of DTs)	Installation of Smart DT meters 100/5A, along with ring type CTs of various ratings, Meter Box, and associated accessories on LT side of transformers. Note : this activity excludes handling work at tranformer LT side.	EA		779			0	0	0	708	0	0	-	-
23	LTCT	Installation of 4C*50/4C*95 sq mm armoured service cable, O/H (Length up to 30M)	Stringing, sagging of armoured service cable size 4CX 50 sq mm with length upto 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble. (Saddles and Fastners are to be supplied by BA)	EA		467			0	0	0	425	0	0	-	-
24	LTCT	Installation of 4C*150 / 4C X 300 sq mm armoured service cable, O/H (Length up to 30M)	Stringing, sagging of armoured service cable size 4CX 95 sq mm / 4C X 150 sq mm with length upto 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble. (Saddles and Fastners are to be supplied by BA)	EA		156			0	0	0	142	0	0	-	-
25	HT	Meter Replacement - HT Meter Only	Replacement of any HT energy meter along with modem and its termination from Metering cubicle / CTPT unit	EA		10			0	0	0	5	0	0	-	-
26	HT	Meter Installation - HT Meter Only	Installation of any HT energy meter along with modem and its termination in Metering cubicle / CTPT unit	EA		29			0	0	0	15	0	0	-	-
27	HT	Meter Removal - HT Meter Only	Removal of any HT energy meter along with modem and its termination from Metering cubicle / CTPT unit	EA		29			0	0	0	5	0	0	-	-
28	HT	CTPT Installation - 11KV	Installation of new HT 11 KV out door Metering CTPT unit with or without meter, includes to & fro transportation (up to 50 KM), commissioning and energisation in all respect (i.e. connection in meter box from CTPT terminal block through control cable, pole mount CTPT unit erected at required height. Fix and Bolt CTPT unit, stand pipe flange, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CTPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door).All these activities are to be performed with crane of suitable capacity and all hardware will be in scope of BA except meter, MU and seals.	EA		22			0	0	0	8	0	0	-	-
29	HT	CTPT Installation - 33KV	Installation of new HT 33 KV out door Metering CTPT unit with or without meter, includes to & fro transportation (up to 50 KM), commissioning and energisation in all respect (i.e. connection in meter box from CTPT terminal block through control cable, pole mount CTPT unit erected at 30' height. Fix and Bolt CTPT unit, stand pipe flange, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CTPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door). Installation has to be done with crane of suitable capacity. All these activities are to be performed with crane of suitable capacity and all hardware will be in scope of BA except meter, MU and seals.	EA		8			0	0	0	2	0	0	-	-
30	HT	CTPT Removal- 11KV / 33KV	Dismantling of complete HT metering out door CTPT unit with or without meter, includes to & fro transportation (up to 50KM), removing and de-energisation in all respect (i.e. connection from meter box from CTPT terminal block through control cable, pole mount CTPT unit erected at 30' height. Fix and Bolt CTPT unit, stand pipe flange, two earth connections, HT cable ends termination removal, socket/ thimble crimp, stand pipe flanges removal, meter terminal cover, window and chamber door removal from site). Removed Metering material is to be returned back to Warranty and Scrap store	EA		30			0	0	0	5	0	0	-	-
31	HT	Replacement of CT PT Metering unit - 11KV	Replacement of out door HT metering unit of 11 KV along with replacement of control cable pipe , energy meter and allied accessories include to & fro transportation (upto 50 KM), commissioning and energisation in all respect (i.e. reconnection in meter box from CTPT terminal block through control cable, stand pipe flange replacement, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CTPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door). Note : Loading, Unloading, Installation of CT PT unit, Metering Cubicle at store, site through crane will be included in this cost.	EA		3			0	0	0	3	0	0	-	-
32	HT	Replacement of CT PT Metering unit - 33KV	Replacement of out door HT metering unit of 33 KV along with replacement of control cable pipe , energy meter and allied accessories include to & fro transportation (up to 50KM), commissioning and energisation in all respect (i.e. reconnection in meter box from CTPT terminal block through control cable, stand pipe flange replacement, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CTPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door). Note : Loading, Unloading, Installation of CT PT unit, Metering Cubicle at store, site through crane will be included in this cost.	EA		2			0	0	0	1	0	0	-	-

33	HT	Replacement of HT meter chamber OR Replacement / Shifting of control cable pipe with meter chamber for CPT unit (Transportation and lifting of MU is excluded)	Replacement of HT Metering chamber of HT 11 / 33 KV for out door Metering CPT unit, replacement of control cable pipe , energy meter and allied accessories include to & fro transportation, commissioning and energisation in all respect (i.e. reconnection in meter box from CPT terminal block through control cable, stand pipe flange replacement, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door). Note : This activity excludes transportation and lifting of metering unit.	EA	1	0	0	0	1	0	0	-	-
34	HT	Meter Installation - HT Meter (Travel charges in lot of 50 KM)	Rate for travel of HT Vehicle for additional travel in lot of 50 KM (over and above which is covered in activities where MU is to be transported) for a month. Rate for 50 KM additional mileage after rounding off to be charged. If more than one activity is performed at one site at a time, then this cost to be charged against only one activity.	EA	7	0	0	0	15	0	0	-	-
35	LT CT	LTCT Meter with box Installation (For 100/5 Amps & 200/5 Amps)	Installation of new LTCT meters with complete grouting, commissioning, supply of 8 Nos lugs and its crimping, energisation, communication of Meter and its allied accessories and seal installation with LTCT Meter box	EA	10	0	0	0	48	0	0	-	-
36	LT CT	LTCT Meter with box Removal - All Rating	Removal of any LTCT meters from site with de-energisation, Meter, modem and its allied accessories with meter box. This will include returning meters back to relevant central stores	EA	140	0	0	0	13	0	0	-	-
37	LT CT	Meter Replacement - LTCT Meter Only	Replacement of LTCT meter/ LTCT Smart meter of any rating i.e. 100/5A or 200/5A or 400/5A without box	EA	140	0	0	0	13	0	0	-	-
38	LTCT	Fault rectification in CT Meter pertaining to termination/LT Cable dressing.	Fault rectification includes termination (thimble / socket crimping, gland change, cable lead extension crimping and tightening) and cable dressing.	EA	4	0	0	0	4	0	0	-	-
39	SP/PP	Prefabricated GI Structure (Supply Item)/ kg	Prefabricated / GI structural angle/ channel/flats of different sizes, as per the site requirement	Kg	500	0	0	0	800	0	0	-	-
40	SP/PP	Installation of Bracket Angle/ service anchor/ suspension clamp/ slotted angle	Installation of GI Bracket for Anchoring service cable of size 50, 95 & 150 sqmm / Installation of Service Cable Anchor / Installation of Slotted angle on pole in case of 2x10/4x10/4x25 cable lying, on uncleaned poles. (Number of items used at one site shall be considered for billing).	EA	176	0	0	0	160	0	0	-	-
41	TS	NIC / Modem Troubleshooting with TAB/ Laptop / Anyother device	(in case - Laptop/Tab in BA's scope)	EA	2287	0	0	0	2,079	0	0	-	-
42	DD	Manul Meter Reading and SVR	Taking manual reading parameters from meter display, providing remarks with photographs where data can not be downloaded for reason not attributable to BA	EA	880	0	0	0	800	0	0	-	-
43	DD	Data downloading of meters	Data downloading of any meter per case	EA	880	0	0	0	800	0	0	-	-
44	PP	Minor reworking in CT Meter termination/LT Cable dressing during pole cleaning	Minor reworking includes termination (thimble / socket crimping, gland change, cable lead extension crimping and tightening) and cable dressing during pole cleaning.	EA	4	0	0	0	4	0	0	-	-
45	Protocol Punching	Punching of Protocols for field activities - Metering/Modem/Testing/Data download	Bidder has to punch protocol for Meter installation (Both Single Phase and Three Phase activity/Modem Installation / rectification / Meter Testing (HT and LT) activity / data downloading activity, with 5% QC. Bidder to create Data Centre for same at Circle HO with required staff, computers and Broadband connection.	EA	13314	0	0	0	12,104	0	0	-	-
46	LT CT	LTCT Meter box Installation - 400/5 Amps	Installation of new LTCT meters with complete grouting, commissioning, supply of 8 Nos lugs and its crimping, energisation, communication of Meter and its allied accessories and seal installation with LTCT Meter box	EA	0	0	0	0	0	0	0	-	-
47	FSE	FSE- New Connection / Pre-inspection / Attribute Change / SVR	Site verification of new connection / Attribute Change / SVR with capturing of details as mentioned in site verification form and capturing photographs. Further submission of SVR and file at respective division office.	EA	1000	0	0	0	2,663	0	0	-	-
48		Safety officer	Safety office shall be posted at division level and report to division incharge and shall be responsible for safety related to safety at respective divisions with Diploma in Electrical Safety with two years of experiences	EA	1	0	0	0	1	0	0	-	-
49		Divisional Coordinator	One in each Distribution Division with Graduate (conversant with excel sheet & should be able to prepare reports & do quality	EA	1	0	0	0	1	0	0	-	-
50		Helper-Tech	Helper with ITI-Electrical to be allotted wherever additional manpower is required for assisting existing 3 Phase team To accelerate the process of installation, apart from existing defined team for the 3 Phase activity, if required additional helper-with ITI Electrical may be allotted to the team as per requirement duly approved by EIC.	EA	4	0	0	0	4	0	0	-	-
Total All inc value									0			0	0

Schedule of items Khurda

Sr. No.	Activity Type	Item Short Description	Long Service Description	UoM	SAC Code	Prices for Year 1					Prices for Year 2					Grand Total
						Quantity	Unit Rate (Rs.)	Appl. Taxes & Duties	All Inclusive Unit Rate (Rs.)	Total All Inclusive Value for Year-1 (Rs.)	Quantity	Unit Rate (Rs.)	Appl. Taxes & Duties	All Inclusive Unit Rate (Rs.)	Total All Inclusive Value for Year-2 (Rs.)	
1	SP	Meter Installation - SP	Installation of 1 phase energy meter with / without meter box/ existing meter box / Panel/ with freedom unit and communication cable lying. This also includes cable of any length from meter to MCB / Cutout / Kit Kat Fuse. This will include supply and installation of 'O' shapped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable. This line item includes removal of meters, where consumer meter is removed and handed over to customer	EA		23364			0	0	0	7,869	0	0	-	-
2	SP	Meter Installation NSC-SP	Meter and 2C * 4 sq mm Cable Installatin for NSC Cases	EA		4858			0	0	0	4,416	0	0	-	-
3	SP	Meter Installation NSC-SP	Meter and 2C * 6 sq mm Cable Installation for NSC Cases	EA		2082			0	0	0	1,893	0	0	-	-
4	SP	Meter Removal - SP	Removal of any single phase meter with / without meter box/ existing meter box / from Panel/ with freedom unit and communication cable removal and submitting it back to Scrap / Warranty store after devaluation	EA		18691			0	0	0	6,295	0	0	-	-
5	SP	Installation of 2C*4 sq mm / 2C X 6 sq mm armoured, Cable O/H (Length 7M-30M)	Stringing, sagging of armoured service cable size 2CX 4 sq mm/ 2C X 6 sq mm with length between 7m to 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble required size. This will include supply and installation of 'O' shapped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		1266			0	0	0	1,151	0	0	-	-
6	SP	Installation of 2C*6 sq mm armoured, Cable O/H (Length 7M-30M)	Stringing, sagging of armoured service cable size 2CX 6 sq mm with length between 7m to 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble / AB piercing connectors of required size. This will include supply and installation of 'O' shapped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		633			0	0	0	575	0	0	-	-
7	SP	Installation of 2C*10 sq mm armoured, Cable O/H (Length 7M-30M)	Stringing, sagging of armoured service cable size 2CX 10 sq mm with length between 7m to 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble / AB piercing connectors of required size. This will include supply and installation of 'O' shapped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		211			0	0	0	192	0	0	-	-
8	SP	Service Cable Removal of any size used for Single Phase connections	Removal of service cable of any size used for single Phase connections from pole/ LT Network and keeping unsafe custody to either re-use or return to scrap store / return to consumer if it pertains to consumer.	EA		2110			0	0	0	1,918	0	0	-	-
9	SP / PP	Bus bar/ D/ Box Installation	Installation of any type of bus bar box / distribution box on wall along with supply of fastners / on pole with steel strap and buckles / piercing connect where LT mains in ABC. This will include supply and installation of 'O' shapped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		56			0	0	0	51	0	0	-	-
10	SP / PP	Bus bar/ D/ Box Removal	Removal of any type of bus bar box / distribution box from wall / from pole along with steel strap and buckles. This will include supply and installation of 'O' shapped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		6			0	0	0	5	0	0	-	-
11	PP	Meter Installation - PP	Installation of 3 phase whole current energy meter with / without meter box/ existing meter box / Panel. This will include supply and installation of 'O' shapped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		2697			0	0	0	988	0	0	-	-
12	PP	Meter Removal - PP	Removal of any Three phase whole current meter with / without meter box/ existing meter box / from Panel/ with freedom unit and communication cable removal and returning back too Central Store. This payment will be applicable only if meters are returned to concered central stores.	EA		2200			0	0	0	889	0	0	-	-
13	PP	Installation of 4C*25 sq mm armoured, Cable O/H (Length 7M-30M)	Stringing, sagging of armoured service cable size 4CX 25 sq mm with length between 7m to 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble / AB piercing connectors of required size.	EA		440			0	0	0	158	0	0	-	-
14	PP	Installation of 4C*10 sq mm armoured, Cable O/H (Length 7M-30M)	Stringing, sagging of armoured service cable size 4CX 10 sq mm with length between 7m to 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble. This will include supply and installation of 'O' shapped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		1100			0	0	0	632	0	0	-	-
15	SP/PP	Loop Connection for service cable size 2C X 4 sq mm/ 2C X 6 sq mm / 2C X 10 sq mm/ 4C X 10 sq mm/ 4C X 25 sq mm with length ≤ 6 M	Stringing of loop connection (length <= 6 meter) for service cable size 2C X 4 sq mm/ 2C X 6 sq mm / 2C X 10 sq mm/ 4C X 10 sq mm/ 4C X 25 sq mm with proper termination. This will include supply and installation of 'O' shapped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		44			0	0	0	40	0	0	-	-
16	PP	Service Cable Removal of any size used for Poly Phase connections	Removal of service cable of 4C X 10 sq mm / 4C X 25 sq mm or any other size used for Poly Phase Whole Current connections from pole/ LT Network and returning it back to scrap store if not utilised again	EA		2200			0	0	0	393	0	0	-	-
17	SP-Testing	Single Phase Meter Accuracy test at site with Accucheck	Single Phase Testing with Accucheck (provided by TPCODL) to be done without opening any seal / opening seals in presence of authorised TPCODL Officers.	EA		562			0	0	0	511	0	0	-	-
18	PP - Testing	Three Phase Whole Current Meter Accuracy test at site with Accucheck	Polyphase Testing with Accucheck (provided by TPCODL) to be done without opening any seal / opening seals in presence of authorised TPCODL Officers..	EA		1043			0	0	0	948	0	0	-	-
19	LTCT - Testing	LT CT Meter Accuracy test at site with Accucheck	LTCT Meter Testing with Accucheck (provided by TPCODL) to be done without opening any seal / opening seals in presence of authorised TPCODL Officers..	EA		435			0	0	0	395	0	0	-	-
20	HT CT Testing	Meter Accuracy test at site (HTCT)	HTCT Meter Testing to be done at site. Testing kit will be provided by TPCODL.	EA		151			0	0	0	138	0	0	-	-
21	HT CT Testing	CT PT unit Testing after taking shut down	Testing of HT CT Metering unit of 11 KV / 33 KV at various loads after taking shut down and isolating MU from the circuit and after testing restoring it back in circuit. Connection to the meter need to be isolated and then re-connected. This will be a 100% supervised job.	EA		151			0	0	0	138	0	0	-	-
22	LTCT	Smart DT Meter installation along with Meter Box and connection for CT / PT (For energy auditing of DTs)	Installation of Smart DT meters 100/5A, along with ring type CTs of various ratings, Meter Box, and associated accessories on LT side of transformers. Note : this activity excludes handling work at tranformer LT side.	EA		575			0	0	0	523	0	0	-	-
23	LTCT	Installation of 4C*50/4C*95 sq mm armoured service cable, O/H (Length up to 30M)	Stringing, sagging of armoured service cable size 4CX 50 sq mm with length upto 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble. (Saddles and Fastners are to be supplied by BA)	EA		345			0	0	0	314	0	0	-	-
24	LTCT	Installation of 4C*150 / 4C X 300 sq mm armoured service cable, O/H (Length up to 30M)	Stringing, sagging of armoured service cable size 4CX 95 sq mm / 4C X 150 sq mm with length upto 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble. (Saddles and Fastners are to be supplied by BA)	EA		115			0	0	0	105	0	0	-	-
25	HT	Meter Replacement - HT Meter Only	Replacement of any HT energy meter along with modem and its termination from Metering cubicle / CTPT unit	EA		117			0	0	0	5	0	0	-	-
26	HT	Meter Installation - HT Meter Only	Installation of any HT energy meter along with modem and its termination in Metering cubicle / CTPT unit	EA		41			0	0	0	46	0	0	-	-
27	HT	Meter Removal - HT Meter Only	Removal of any HT energy meter along with modem and its termination from Metering cubicle / CTPT unit	EA		117			0	0	0	5	0	0	-	-
28	HT	CTPT Installation - 11KV	Installation of new HT 11 KV out door Metering CTPT unit with or without meter, includes to & fro transportation (up to 50 KM), commissioning and energisation in all respect (i.e. connection in meter box from CTPT terminal block through control cable, pole mount CTPT unit erected at required height. Fix and Bolt CTPT unit, stand pipe flange, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CTPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door).All these activities are to be performed with crane of suitable capacity and all hardware will be in scope of BA except meter, MU and seals.	EA		91			0	0	0	33	0	0	-	-
29	HT	CTPT Installation - 33KV	Installation of new HT 33 KV out door Metering CTPT unit with or without meter, includes to & fro transportation (up to 50 KM), commissioning and energisation in all respect (i.e. connection in meter box from CTPT terminal block through control cable, pole mount CTPT unit erected at 30' height. Fix and Bolt CTPT unit, stand pipe flange, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CTPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door). Installation has to be done with crane of suitable capacity. All these activities are to be performed with crane of suitable capacity and all hardware will be in scope of BA except meter, MU and seals.	EA		32			0	0	0	8	0	0	-	-
30	HT	CTPT Removal- 11KV / 33KV	Dismantling of complete HT metering out door CTPT unit with or without meter, includes to & fro transportation (up to 50KM), removing and de-energisation in all respect (i.e. connection from meter box from CTPT terminal block through control cable, pole mount CTPT unit erected at 30' height. Fix and Bolt CTPT unit, stand pipe flange, two earth connections, HT cable ends termination removal, socket/ thimble crimp, stand pipe flanges removal, meter terminal cover, window and chamber door removal from site). Removed Metering material is to be returned back to Warranty and Scrap store	EA		123			0	0	0	41	0	0	-	-
31	HT	Replacement of CT PT Metering unit - 11KV	Replacement of out door HT metering unit of 11 KV along with replacement of control cable pipe , energy meter and allied accessories include to & fro transportation (upto 50 KM), commissioning and energisation in all respect (i.e. reconnection in meter box from CTPT terminal block through control cable, stand pipe flange replacement, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CTPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door). Note : Loading, Unloading, Installation of CT PT unit, Metering Cubicle at store, site through crane will be included in this cost.	EA		6			0	0	0	4	0	0	-	-
32	HT	Replacement of CT PT Metering unit - 33KV	Replacement of out door HT metering unit of 33 KV along with replacement of control cable pipe , energy meter and allied accessories include to & fro transportation (up to 50KM), commissioning and energisation in all respect (i.e. reconnection in meter box from CTPT terminal block through control cable, stand pipe flange replacement, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CTPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door). Note : Loading, Unloading, Installation of CT PT unit, Metering Cubicle at store, site through crane will be included in this cost.	EA		4			0	0	0	1	0	0	-	-

33	HT	Replacement of HT meter chamber OR Replacement / Shifting of control cable pipe with meter chamber for CTPT unit (Transportation and lifting of MU is excluded)	Replacement of HT Metering chamber of HT 11 / 33 KV for out door Metering CTPT unit, replacement of control cable pipe , energy meter and allied accessories include to & fro transportation, commissioning and energisation in all respect (i.e. reconnection in meter box from CTPT terminal block through control cable, stand pipe flange replacement, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CTPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door). Note : This activity excludes transportation and lifting of metering unit.	EA	2	0	0	0	5	0	0	-	-
34	HT	Meter Installation - HT Meter (Travel charges in lot of 50 KM)	Rate for travel of HT Vehicle for additional travel in lot of 50 KM (over and above which is covered in activities where MU is to be transported) for a month. Rate for 50 KM additional mileage after rounding off to be charged. If more than one activity is performed at one site at a time, then this cost to be charged against only one activity.	EA	117	0	0	0	46	0	0	-	-
35	LT CT	LTCT Meter with box Installation (For 100/5 Amps & 200/5 Amps)	Installation of new LTCT meters with complete grouting, commissioning, supply of 8 Nos lugs and its crimping, energisation, communication of Meter and its allied accessories and seal installation with LTCT Meter box	EA	428	0	0	0	114	0	0	-	-
36	LT CT	LTCT Meter with box Removal - All Rating	Removal of any LTCT meters from site with de-energisation, Meter, modem and its allied accessories with meter box. This will include returning meters back to relevant central stores	EA	428	0	0	0	28	0	0	-	-
37	LT CT	Meter Replacement - LTCT Meter Only	Replacement of LTCT meter/ LTCT Smart meter of any rating i.e. 100/5A or 200/5A or 400/5A without box	EA	428	0	0	0	28	0	0	-	-
38	LTCT	Fault rectification in CT Meter pertaining to termination/LT Cable dressing.	Fault rectification includes termination (thimble / socket crimping, gland change, cable lead extension crimping and tightening) and cable dressing.	EA	11	0	0	0	10	0	0	-	-
39	SP/PP	Prefabricated GI Structure (Supply Item)/ kg	Prefabricated / GI structural angle/ channel/flats of different sizes, as per the site requirement	Kg	500	0	0	0	1,437	0	0	-	-
40	SP/PP	Installation of Bracket Angle/ service anchor/ suspension clamp/ slotted angle	Installation of GI Bracket for Anchoring service cable of size 50, 95 & 150 sqmm / Installation of Service Cable Anchor / Installation of Slotted angle on pole in case of 2x10/4x10/4x25 cable lying, on uncleaned poles. (Number of items used at one site shall be considered for billing).	EA	632	0	0	0	575	0	0	-	-
41	TS	NIC / Modem Troubleshooting with TAB/ Laptop / Anyother device	(in case - Laptop/Tab in BA's scope)	EA	4742	0	0	0	4,311	0	0	-	-
42	DD	Manul Meter Reading and SVR	Taking manual reading parameters from meter display, providing remarks with photographs where data can not be downloaded for reason not attributable to BA	EA	3161	0	0	0	2,874	0	0	-	-
43	DD	Data downloading of meters	Data downloading of any meter per case	EA	3161	0	0	0	2,874	0	0	-	-
44	PP	Minor reworking in CT Meter termination/LT Cable dressing during pole cleaning	Minor reworking includes termination (thimble / socket crimping, gland change, cable lead extension crimping and tightening) and cable dressing during pole cleaning.	EA	11	0	0	0	10	0	0	-	-
45	Protocol Punching	Punching of Protocols for field activities - Metering/Modem/Testing/Data download	Bidder has to punch protocol for Meter installation (Both Single Phase and Three Phase activity/Modem Installation / rectification / Meter Testing (HT and LT) activity / data downloading activity, with 5% QC. Bidder to create Data Centre for same at Circle HO with required staff, computers and Broadband connection.	EA	63225	0	0	0	57,477	0	0	-	-
46	LT CT	LTCT Meter box Installation - 400/5 Amps	Installation of new LTCT meters with complete grouting, commissioning, supply of 8 Nos lugs and its crimping, energisation, communication of Meter and its allied accessories and seal installation with LTCT Meter box	EA	2	0	0	0	1	0	0	-	-
47	FSE	FSE- New Connection / Pre-inspection / Attribute Change / SVR	Site verification of new connection / Attribute Change / SVR with capturing of details as mentioned in site verification form and capturing photographs. Further submission of SVR and file at respective division office.	EA	1200	0	0	0	5,449	0	0	-	-
48		Safety officer	Safety office shall be posted at division level and report to division incharge and shall be responsible for safety related to safety at respective divisions with Diploma in Electrical Safety with two years of experiences	EA	1	0	0	0	1	0	0	-	-
49		Divisional Coordinator	One in each Distribution Division with Graduate (conversant with excel sheet & should be able to prepare reports & do quality	EA	1	0	0	0	1	0	0	-	-
50		Circle Coordinator	1no. Each attached to MRT HODs posted BBSR, Cuttack, Khurda, Dhnakanal, Paradip- 5nos and 5nos. At MRT HO level with Graduate (conversant with excel sheet & should be able to prepare reports & do quality	EA	1	0	0	0	1	0	0	-	-
51		Helper-Tech	Helper with ITI-Electrical to be allotted wherever additional manpower is required for assisting existing 3 Phase team To accelerate the process of installation, apart from existing defined team for the 3 Phase activity, If required additional helper-with ITI Electrical may be allotted to the team as per requirement duly approved by EIC.	EA	6	0	0	0	6	0	0	-	-
Total All inc value										0	0	0	0

Schedule of items Nayagarh

Sr. No.	Activity Type	Item Short Description	Long Service Description	UoM	SAC Code	Prices for Year 1					Prices for Year 2					Grand Total
						Quantity	Unit Rate (Rs.)	Appl. Taxes & Duties	All Inclusive Unit Rate (Rs.)	Total All Inclusive Value for Year-1 (Rs.)	Quantity	Unit Rate (Rs.)	Appl. Taxes & Duties	All Inclusive Unit Rate (Rs.)	Total All Inclusive Value for Year-2 (Rs.)	
1	SP	Meter Installation - SP	Installation of 1 phase energy meter with / without meter box/ existing meter box / Panel/ with freedom unit and communication cable lying. This also includes cable of any length from meter to MCB / Cutout / Kit Kat Fuse. This will include supply and installation of 'O' shapped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable. This line item includes removal of meters, where consumer meter is removed and handed over to customer	EA		15524			0	0	0	9,090	0	0	-	-
2	SP	Meter Installation NSC-SP	Meter and 2C * 4 sq mm Cable Installatin for NSC Cases	EA		3947			0	0	0	3,588	0	0	-	-
3	SP	Meter Installation NSC-SP	Meter and 2C * 6 sq mm Cable Installation for NSC Cases	EA		1691			0	0	0	1,538	0	0	-	-
4	SP	Meter Removal - SP	Removal of any single phase meter with / without meter box/ existing meter box / from Panel/ with freedom unit and communication cable removal and submitting it back to Scrap / Warranty store after devaluation	EA		12419			0	0	0	7,272	0	0	-	-
5	SP	Installation of 2C*4 sq mm / 2C X 6 sq mm armoured, Cable O/H (Length 7M-30M)	Stringing, sagging of armoured service cable size 2CX 4 sq mm/ 2C X 6 sq mm with length between 7m to 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble required size. This will include supply and installation of 'O' shapped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		1526			0	0	0	1,388	0	0	-	-
6	SP	Installation of 2C*6 sq mm armoured, Cable O/H (Length 7M-30M)	Stringing, sagging of armoured service cable size 2CX 6 sq mm with length between 7m to 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble / AB piercing connectors of required size. This will include supply and installation of 'O' shapped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		763			0	0	0	694	0	0	-	-
7	SP	Installation of 2C*10 sq mm armoured, Cable O/H (Length 7M-30M)	Stringing, sagging of armoured service cable size 2CX 10 sq mm with length between 7m to 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble / AB piercing connectors of required size. This will include supply and installation of 'O' shapped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		254			0	0	0	231	0	0	-	-
8	SP	Service Cable Removal of any size used for Single Phase connections	Removal of service cable of any size used for single Phase connections from pole/ LT Network and keeping unsafe custody to either re-use or return to scrap store / return to consumer if it pertains to consumer.	EA		2544			0	0	0	2,313	0	0	-	-
9	SP / PP	Bus bar/ D/ Box Installation	Installation of any type of bus bar box / distribution box on wall along with supply of fastners / on pole with steel strap and buckles / piercing connect where LT mains in ABC. This will include supply and installation of 'O' shapped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		90			0	0	0	82	0	0	-	-
10	SP / PP	Bus bar/ D/ Box Removal	Removal of any type of bus bar box / distribution box from wall / from pole along with steel strap and buckles. This will include supply and installation of 'O' shapped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		9			0	0	0	8	0	0	-	-
11	PP	Meter Installation - PP	Installation of 3 phase whole current energy meter with / without meter box/ existing meter box / Panel. This will include supply and installation of 'O' shapped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		2427			0	0	0	706	0	0	-	-
12	PP	Meter Removal - PP	Removal of any Three phase whole current meter with / without meter box/ existing meter box / from Panel/ with freedom unit and communication cable removal and returning back too Central Store. This payment will be applicable only if meters are returned to concered central stores.	EA		2078			0	0	0	635	0	0	-	-
13	PP	Installation of 4C*25 sq mm armoured, Cable O/H (Length 7M-30M)	Stringing, sagging of armoured service cable size 4CX 25 sq mm with length between 7m to 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble / AB piercing connectors of required size.	EA		416			0	0	0	113	0	0	-	-
14	PP	Installation of 4C*10 sq mm armoured, Cable O/H (Length 7M-30M)	Stringing, sagging of armoured service cable size 4CX 10 sq mm with length between 7m to 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble. This will include supply and installation of 'O' shapped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		1039			0	0	0	452	0	0	-	-
15	SP/PP	Loop Connection for service cable size 2C X 4 sq mm/ 2C X 6 sq mm / 2C X 10 sq mm/ 4C X 10 sq mm/ 4C X 25 sq mm with length ≤ 6 M	Stringing of loop connection (length <= 6 meter) for service cable size 2C X 4 sq mm/ 2C X 6 sq mm / 2C X 10 sq mm/ 4C X 10 sq mm/ 4C X 25 sq mm with proper termination. This will include supply and installation of 'O' shapped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		42			0	0	0	38	0	0	-	-
16	PP	Service Cable Removal of any size used for Poly Phase connections	Removal of service cable of 4C X 10 sq mm / 4C X 25 sq mm or any other size used for Poly Phase Whole Current connections from pole/ LT Network and returning it back to scrap store if not utilised again	EA		2078			0	0	0	286	0	0	-	-
17	SP-Testing	Single Phase Meter Accuracy test at site with Accucheck	Single Phase Testing with Accucheck (provided by TPCODL) to be done without opening any seal / opening seals in presence of authorised TPCODL Officers.	EA		899			0	0	0	817	0	0	-	-
18	PP - Testing	Three Phase Whole Current Meter Accuracy test at site with Accucheck	Polyphase Testing with Accucheck (provided by TPCODL) to be done without opening any seal / opening seals in presence of authorised TPCODL Officers..	EA		927			0	0	0	842	0	0	-	-
19	LTCT - Testing	LT CT Meter Accuracy test at site with Accucheck	LTCT Meter Testing with Accucheck (provided by TPCODL) to be done without opening any seal / opening seals in presence of authorised TPCODL Officers..	EA		386			0	0	0	351	0	0	-	-
20	HT CT Testing	Meter Accuracy test at site (HTCT)	HTCT Meter Testing to be done at site. Testing kit will be provided by TPCODL.	EA		134			0	0	0	122	0	0	-	-
21	HT CT Testing	CT PT unit Testing after taking shut down	Testing of HT CT Metering unit of 11 KV / 33 KV at various loads after taking shut down and isolating MU from the circuit and after testing restoring it back in circuit. Connection to the meter need to be isolated and then re-connected. This will be a 100% supervised job.	EA		134			0	0	0	122	0	0	-	-
22	LTCT	Smart DT Meter installation along with Meter Box and connection for CT / PT (For energy auditing of DTs)	Installation of Smart DT meters 100/5A, along with ring type CTs of various ratings, Meter Box, and associated accessories on LT side of transformers. Note : this activity excludes handling work at tranformer LT side.	EA		360			0	0	0	327	0	0	-	-
23	LTCT	Installation of 4C*50/4C*95 sq mm armoured service cable, O/H (Length up to 30M)	Stringing, sagging of armoured service cable size 4CX 50 sq mm with length upto 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble. (Saddles and Fastners are to be supplied by BA)	EA		216			0	0	0	196	0	0	-	-
24	LTCT	Installation of 4C*150 / 4C X 300 sq mm armoured service cable, O/H (Length up to 30M)	Stringing, sagging of armoured service cable size 4CX 95 sq mm / 4C X 150 sq mm with length upto 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble. (Saddles and Fastners are to be supplied by BA)	EA		72			0	0	0	65	0	0	-	-
25	HT	Meter Replacement - HT Meter Only	Replacement of any HT energy meter along with modem and its termination from Metering cubicle / CTPT unit	EA		10			0	0	0	5	0	0	-	-
26	HT	Meter Installation - HT Meter Only	Installation of any HT energy meter along with modem and its termination in Metering cubicle / CTPT unit	EA		17			0	0	0	12	0	0	-	-
27	HT	Meter Removal - HT Meter Only	Removal of any HT energy meter along with modem and its termination from Metering cubicle / CTPT unit	EA		10			0	0	0	5	0	0	-	-
28	HT	CTPT Installation - 11KV	Installation of new HT 11 KV out door Metering CTPT unit with or without meter, includes to & fro transportation (up to 50 KM), commissioning and energisation in all respect (i.e. connection in meter box from CTPT terminal block through control cable, pole mount CTPT unit erected at required height. Fix and Bolt CTPT unit, stand pipe flange, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CTPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door).All these activities are to be performed with crane of suitable capacity and all hardware will be in scope of BA except meter, MU and seals.	EA		11			0	0	0	6	0	0	-	-
29	HT	CTPT Installation - 33KV	Installation of new HT 33 KV out door Metering CTPT unit with or without meter, includes to & fro transportation (up to 50 KM), commissioning and energisation in all respect (i.e. connection in meter box from CTPT terminal block through control cable, pole mount CTPT unit erected at 30' height. Fix and Bolt CTPT unit, stand pipe flange, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CTPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door). Installation has to be done with crane of suitable capacity. All these activities are to be performed with crane of suitable capacity and all hardware will be in scope of BA except meter, MU and seals.	EA		3			0	0	0	1	0	0	-	-
30	HT	CTPT Removal- 11KV / 33KV	Dismantling of complete HT metering out door CTPT unit with or without meter, includes to & fro transportation (up to 50KM), removing and de-energisation in all respect (i.e. connection from meter box from CTPT terminal block through control cable, pole mount CTPT unit erected at 30' height. Fix and Bolt CTPT unit, stand pipe flange, two earth connections, HT cable ends termination removal, socket/ thimble crimp, stand pipe flanges removal, meter terminal cover, window and chamber door removal from site). Removed Metering material is to be returned back to Warranty and Scrap store	EA		14			0	0	0	5	0	0	-	-
31	HT	Replacement of CT PT Metering unit - 11KV	Replacement of out door HT metering unit of 11 KV along with replacement of control cable pipe , energy meter and allied accessories include to & fro transportation (upto 50 KM), commissioning and energisation in all respect (i.e. reconnection in meter box from CTPT terminal block through control cable, stand pipe flange replacement, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CTPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door). Note : Loading, Unloading, Installation of CT PT unit, Metering Cubicle at store, site through crane will be included in this cost.	EA		2			0	0	0	4	0	0	-	-
32	HT	Replacement of CT PT Metering unit - 33KV	Replacement of out door HT metering unit of 33 KV along with replacement of control cable pipe , energy meter and allied accessories include to & fro transportation (up to 50KM), commissioning and energisation in all respect (i.e. reconnection in meter box from CTPT terminal block through control cable, stand pipe flange replacement, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CTPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door). Note : Loading, Unloading, Installation of CT PT unit, Metering Cubicle at store, site through crane will be included in this cost.	EA		1			0	0	0	1	0	0	-	-

33	HT	Replacement of HT meter chamber OR Replacement / Shifting of control cable pipe with meter chamber for CTPT unit (Transportation and lifting of MU is excluded)	Replacement of HT Metering chamber of HT 11 / 33 KV for out door Metering CTPT unit, replacement of control cable pipe , energy meter and allied accessories include to & fro transportation, commissioning and energisation in all respect (i.e. reconnection in meter box from CTPT terminal block through control cable, stand pipe flange replacement, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CTPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door). Note : This activity excludes transportation and lifting of metering unit.	EA	1	0	0	0	1	0	0	-	-
34	HT	Meter Installation - HT Meter (Travel charges in lot of 50 KM)	Rate for travel of HT Vehicle for additional travel in lot of 50 KM (over and above which is covered in activities where MU is to be transported) for a month. Rate for 50 KM additional mileage after rounding off to be charged. If more than one activity is performed at one site at a time, then this cost to be charged against only one activity.	EA	17	0	0	0	12	0	0	-	-
35	LT CT	LTCT Meter with box Installation (For 100/5 Amps & 200/5 Amps)	Installation of new LTCT meters with complete grouting, commissioning, supply of 8 Nos lugs and its crimping, energisation, communication of Meter and its allied accessories and seal installation with LTCT Meter box	EA	145	0	0	0	46	0	0	-	-
36	LT CT	LTCT Meter with box Removal - All Rating	Removal of any LTCT meters from site with de-energisation, Meter, modem and its allied accessories with meter box. This will include returning meters back to relevant central stores	EA	110	0	0	0	11	0	0	-	-
37	LT CT	Meter Replacement - LTCT Meter Only	Replacement of LTCT meter/ LTCT Smart meter of any rating i.e. 100/5A or 200/5A or 400/5A without box	EA	110	0	0	0	11	0	0	-	-
38	LTCT	Fault rectification in CT Meter pertaining to termination/LT Cable dressing.	Fault rectification includes termination (thimble / socket crimping, gland change, cable lead extension crimping and tightening) and cable dressing.	EA	10	0	0	0	9	0	0	-	-
39	SP/PP	Prefabricated GI Structure (Supply Item)/ kg	Prefabricated / GI structural angle/ channel/flats of different sizes, as per the site requirement	Kg	500	0	0	0	1,276	0	0	-	-
40	SP/PP	Installation of Bracket Angle/ service anchor/ suspension clamp/ slotted angle	Installation of GI Bracket for Anchoring service cable of size 50, 95 & 150 sqmm / Installation of Service Cable Anchor / Installation of Slotted angle on pole in case of 2x10/4x10/4x25 cable lying, on uncleaned poles. (Number of items used at one site shall be considered for billing).	EA	562	0	0	0	511	0	0	-	-
41	TS	NIC / Modem Troubleshooting with TAB/ Laptop / Anyother device	(in case - Laptop/Tab in BA's scope)	EA	4212	0	0	0	3,829	0	0	-	-
42	DD	Manul Meter Reading and SVR	Taking manual reading parameters from meter display, providing remarks with photographs where data can not be downloaded for reason not attributable to BA	EA	2808	0	0	0	2,553	0	0	-	-
43	DD	Data downloading of meters	Data downloading of any meter per case	EA	2808	0	0	0	2,553	0	0	-	-
44	PP	Minor reworking in CT Meter termination/LT Cable dressing during pole cleaning	Minor reworking includes termination (thimble / socket crimping, gland change, cable lead extension crimping and tightening) and cable dressing during pole cleaning.	EA	10	0	0	0	9	0	0	-	-
45	Protocol Punching	Punching of Protocols for field activities - Metering/Modem/Testing/Data download	Bidder has to punch protocol for Meter installation (Both Single Phase and Three Phase activity/Modem Installation / rectification / Meter Testing (HT and LT) activity / data downloading activity, with 5% QC. Bidder to create Data Centre for same at Circle HO with required staff, computers and Broadband connection.	EA	56169	0	0	0	51,062	0	0	-	-
46	LT CT	LTCT Meter box Installation - 400/5 Amps	Installation of new LTCT meters with complete grouting, commissioning, supply of 8 Nos lugs and its crimping, energisation, communication of Meter and its allied accessories and seal installation with LTCT Meter box	EA	1	0	0	0	1	0	0	-	-
47	FSE	FSE- New Connection / Pre-inspection / Attribute Change / SVR	Site verification of new connection / Attribute Change / SVR with capturing of details as mentioned in site verification form and capturing photographs. Further submission of SVR and file at respective division office.	EA	1500	0	0	0	4,841	0	0	-	-
48		Safety officer	Safety office shall be posted at division level and report to division incharge and shall be responsible for safety related to safety at respective divisions with Diploma in Electrical Safety with two years of experiences	EA	1	0	0	0	1	0	0	-	-
49		Divisional Coordinator	One in each Distribution Division with Graduate (conversant with excel sheet & should be able to prepare reports & do quality	EA	1	0	0	0	1	0	0	-	-
50		Helper-Tech	Helper with ITI-Electrical to be allotted wherever additional manpower is required for assisting existing 3 Phase team To accelerate the process of installation, apart from existing defined team for the 3 Phase activity, if required additional helper-with ITI Electrical may be allotted to the team as per requirement duly approved by EIC.	EA	4	0	0	0	4	0	0	-	-
Total All inc value									0			-	0

Schedule of Items Balugaon

Sr. No.	Activity Type	Item Short Description	Long Service Description	UoM	SAC Code	Prices for Year 1					Prices for Year 2					Grand Total
						Quantity	Unit Rate (Rs.)	Appl. Taxes & Duties	All Inclusive Unit Rate (Rs.)	Total All Inclusive Value for Year-1 (Rs.)	Quantity	Unit Rate (Rs.)	Appl. Taxes & Duties	All Inclusive Unit Rate (Rs.)	Total All Inclusive Value for Year-2 (Rs.)	
1	SP	Meter Installation - SP	Installation of 1 phase energy meter with / without meter box/ existing meter box / Panel/ with freedom unit and communication cable lying. This also includes cable of any length from meter to MCB / Cutout / Kit Kat Fuse. This will include supply and installation of 'O' shaped quick link, Jubilee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable. This line item includes removal of meters, where consumer meter is removed and handed over to customer	EA		10954			0	0	0	5,502	0	0	-	-
2	SP	Meter Installation NSC-SP	Meter and 2C * 4 sq mm Cable Installatin for NSC Cases	EA		2658			0	0	0	2,416	0	0	-	-
3	SP	Meter Installation NSC-SP	Meter and 2C * 6 sq mm Cable Installation for NSC Cases	EA		1139			0	0	0	1,036	0	0	-	-
4	SP	Meter Removal - SP	Removal of any single phase meter with / without meter box/ existing meter box / from Panel/ with freedom unit and communication cable removal and submitting it back to Scrap / Warranty store after devaluation	EA		8763			0	0	0	4,401	0	0	-	-
5	SP	Installation of 2C*4 sq mm / 2C X 6 sq mm armoured, Cable O/H (Length 7M-30M)	Stringing, sagging of armoured service cable size 2CX 4 sq mm/ 2C X 6 sq mm with length between 7m to 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble required size. This will include supply and installation of 'O' shaped quick link, Jubilee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		1533			0	0	0	1,394	0	0	-	-
6	SP	Installation of 2C*6 sq mm armoured, Cable O/H (Length 7M-30M)	Stringing, sagging of armoured service cable size 2CX 6 sq mm with length between 7m to 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble / AB piercing connectors of required size. This will include supply and installation of 'O' shaped quick link, Jubilee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		767			0	0	0	697	0	0	-	-
7	SP	Installation of 2C*10 sq mm armoured, Cable O/H (Length 7M-30M)	Stringing, sagging of armoured service cable size 2CX 10 sq mm with length between 7m to 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble / AB piercing connectors of required size. This will include supply and installation of 'O' shaped quick link, Jubilee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		256			0	0	0	232	0	0	-	-
8	SP	Service Cable Removal of any size used for Single Phase connections	Removal of service cable of any size used for single Phase connections from pole/ LT Network and keeping unsafe custody to either re-use or return to scrap store / return to consumer if it pertains to consumer.	EA		2555			0	0	0	2,323	0	0	-	-
9	SP / PP	Bus bar/ D/ Box Installation	Installation of any type of bus bar box / distribution box on wall along with supply of fasteners / on pole with steel strap and buckles / piercing connect where LT mains in ABC. This will include supply and installation of 'O' shaped quick link, Jubilee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		41			0	0	0	37	0	0	-	-
10	SP / PP	Bus bar/ D/ Box Removal	Removal of any type of bus bar box / distribution box from wall / from pole along with steel strap and buckles. This will include supply and installation of 'O' shaped quick link, Jubilee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		4			0	0	0	4	0	0	-	-
11	PP	Meter Installation - PP	Installation of 3 phase whole current energy meter with / without meter box/ existing meter box / Panel. This will include supply and installation of 'O' shaped quick link, Jubilee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		931			0	0	0	268	0	0	-	-
12	PP	Meter Removal - PP	Removal of any Three phase whole current meter with / without meter box/ existing meter box / from Panel/ with freedom unit and communication cable removal and returning back too Central Store. This payment will be applicable only if meters are returned to concered central stores.	EA		783			0	0	0	241	0	0	-	-
13	PP	Installation of 4C*25 sq mm armoured, Cable O/H (Length 7M-30M)	Stringing, sagging of armoured service cable size 4CX 25 sq mm with length between 7m to 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble / AB piercing connectors of required size.	EA		157			0	0	0	43	0	0	-	-
14	PP	Installation of 4C*10 sq mm armoured, Cable O/H (Length 7M-30M)	Stringing, sagging of armoured service cable size 4CX 10 sq mm with length between 7m to 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble. This will include supply and installation of 'O' shaped quick link, Jubilee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		392			0	0	0	172	0	0	-	-
15	SP/PP	Loop Connection for service cable size 2C X 4 sq mm/ 2C X 6 sq mm / 2C X 10 sq mm/ 4C X 10 sq mm/ 4C X 25 sq mm with length ≤ 6 M	Stringing of loop connection (length <= 6 meter) for service cable size 2C X 4 sq mm/ 2C X 6 sq mm / 2C X 10 sq mm/ 4C X 10 sq mm/ 4C X 25 sq mm with proper termination. This will include supply and installation of 'O' shaped quick link, Jubilee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		16			0	0	0	14	0	0	-	-
16	PP	Service Cable Removal of any size used for Poly Phase connections	Removal of service cable of 4C X 10 sq mm / 4C X 25 sq mm or any other size used for Poly Phase Whole Current connections from pole/ LT Network and returning it back to scrap store if not utilised again	EA		783			0	0	0	96	0	0	-	-
17	SP-Testing	Single Phase Meter Accuracy test at site with Accucheck	Single Phase Testing with Accucheck (provided by TPCODL) to be done without opening any seal / opening seals in presence of authorised TPCODL Officers.	EA		406			0	0	0	369	0	0	-	-
18	PP - Testing	Three Phase Whole Current Meter Accuracy test at site with Accucheck	Polyphase Testing with Accucheck (provided by TPCODL) to be done without opening any seal / opening seals in presence of authorised TPCODL Officers..	EA		400			0	0	0	364	0	0	-	-
19	LTCT - Testing	LT CT Meter Accuracy test at site with Accucheck	LTCT Meter Testing with Accucheck (provided by TPCODL) to be done without opening any seal / opening seals in presence of authorised TPCODL Officers..	EA		167			0	0	0	152	0	0	-	-
20	HT CT Testing	Meter Accuracy test at site (HTCT)	HTCT Meter Testing to be done at site. Testing kit will be provided by TPCODL.	EA		58			0	0	0	53	0	0	-	-
21	HT CT Testing	CT PT unit Testing after taking shut down	Testing of HT CT Metering unit of 11 KV / 33 KV at various loads after taking shut down and isolating MU from the circuit and after testing restoring it back in circuit. Connection to the meter need to be isolated and then re-connected. This will be a 100% supervised job.	EA		58			0	0	0	53	0	0	-	-
22	LTCT	Smart DT Meter installation along with Meter Box and connection for CT / PT (For energy auditing of DTs)	Installation of Smart DT meters 100/5A, along with ring type CTs of various ratings, Meter Box, and associated accessories on LT side of transformers. Note : this activity excludes handling work at tranformer LT side.	EA		658			0	0	0	598	0	0	-	-
23	LTCT	Installation of 4C*50/4C*95 sq mm armoured service cable, O/H (Length up to 30M)	Stringing, sagging of armoured service cable size 4CX 50 sq mm with length upto 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble. (Saddles and Fastners are to be supplied by BA)	EA		395			0	0	0	359	0	0	-	-
24	LTCT	Installation of 4C*150 / 4C X 300 sq mm armoured service cable, O/H (Length up to 30M)	Stringing, sagging of armoured service cable size 4CX 95 sq mm / 4C X 150 sq mm with length upto 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble. (Saddles and Fastners are to be supplied by BA)	EA		132			0	0	0	120	0	0	-	-
25	HT	Meter Replacement - HT Meter Only	Replacement of any HT energy meter along with modem and its termination from Metering cubicle / CTPT unit	EA		14			0	0	0	5	0	0	-	-
26	HT	Meter Installation - HT Meter Only	Installation of any HT energy meter along with modem and its termination in Metering cubicle / CTPT unit	EA		18			0	0	0	9	0	0	-	-
27	HT	Meter Removal - HT Meter Only	Removal of any HT energy meter along with modem and its termination from Metering cubicle / CTPT unit	EA		14			0	0	0	5	0	0	-	-
28	HT	CTPT Installation - 11KV	Installation of new HT 11 KV out door Metering CTPT unit with or without meter, includes to & fro transportation (up to 50 KM), commissioning and energisation in all respect (i.e. connection in meter box from CTPT terminal block through control cable, pole mount CTPT unit erected at required height. Fix and Bolt CTPT unit, stand pipe flange, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CTPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door). All these activities are to be performed with crane of suitable capacity and all hardware will be in scope of BA except meter, MU and seals.	EA		11			0	0	0	3	0	0	-	-
29	HT	CTPT Installation - 33KV	Installation of new HT 33 KV out door Metering CTPT unit with or without meter, includes to & fro transportation (up to 50 KM), commissioning and energisation in all respect (i.e. connection in meter box from CTPT terminal block through control cable, pole mount CTPT unit erected at 30' height. Fix and Bolt CTPT unit, stand pipe flange, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CTPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door). Installation has to be done with crane of suitable capacity. All these activities are to be performed with crane of suitable capacity and all hardware will be in scope of BA except meter, MU and seals.	EA		3			0	0	0	1	0	0	-	-
30	HT	CTPT Removal- 11KV / 33KV	Dismantling of complete HT metering out door CTPT unit with or without meter, includes to & fro transportation (up to 50KM), removing and de-energisation in all respect (i.e. connection from meter box from CTPT terminal block through control cable, pole mount CTPT unit erected at 30' height. Fix and Bolt CTPT unit, stand pipe flange, two earth connections, HT cable ends termination removal, socket/ thimble crimp, stand pipe flanges removal, meter terminal cover, window and chamber door removal from site). Removed Metering material is to be returned back to Warranty and Scrap store	EA		14			0	0	0	5	0	0	-	-
31	HT	Replacement of CT PT Metering unit - 11KV	Replacement of out door HT metering unit of 11 KV along with replacement of control cable pipe , energy meter and allied accessories include to & fro transportation (upto 50 KM), commissioning and energisation in all respect (i.e. reconnection in meter box from CTPT terminal block through control cable, stand pipe flange replacement, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CTPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door). Note : Loading, Unloading, Installation of CT PT unit, Metering Cubicle at store, site through crane will be included in this cost.	EA		11			0	0	0	3	0	0	-	-
32	HT	Replacement of CT PT Metering unit - 33KV	Replacement of out door HT metering unit of 33 KV along with replacement of control cable pipe , energy meter and allied accessories include to & fro transportation (up to 50KM), commissioning and energisation in all respect (i.e. reconnection in meter box from CTPT terminal block through control cable, stand pipe flange replacement, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CTPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door). Note : Loading, Unloading, Installation of CT PT unit, Metering Cubicle at store, site through crane will be included in this cost.	EA		3			0	0	0	1	0	0	-	-

33	HT	Replacement of HT meter chamber OR Replacement / Shifting of control cable pipe with meter chamber for CPT unit (Transportation and lifting of MU is excluded)	Replacement of HT Metering chamber of HT 11 / 33 KV for out door Metering CPT unit, replacement of control cable pipe , energy meter and allied accessories include to & fro transportation, commissioning and energisation in all respect (i.e. reconnection in meter box from CPT terminal block through control cable, stand pipe flange replacement, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door). Note : This activity excludes transportation and lifting of metering unit.	EA	1	0	0	0	1	0	0	-	-
34	HT	Meter Installation - HT Meter (Travel charges in lot of 50 KM)	Rate for travel of HT Vehicle for additional travel in lot of 50 KM (over and above which is covered in activities where MU is to be transported) for a month. Rate for 50 KM additional mileage after rounding off to be charged. If more than one activity is performed at one site at a time, then this cost to be charged against only one activity.	EA	18	0	0	0	9	0	0	-	-
35	LT CT	LTCT Meter with box Installation (For 100/5 Amps & 200/5 Amps)	Installation of new LTCT meters with complete grouting, commissioning, supply of 8 Nos lugs and its crimping, energisation, communication of Meter and its allied accessories and seal installation with LTCT Meter box	EA	105	0	0	0	31	0	0	-	-
36	LT CT	LTCT Meter with box Removal - All Rating	Removal of any LTCT meters from site with de-energisation, Meter, modem and its allied accessories with meter box. This will include returning meters back to relevant central stores	EA	79	0	0	0	5	0	0	-	-
37	LT CT	Meter Replacement - LTCT Meter Only	Replacement of LTCT meter/ LTCT Smart meter of any rating i.e. 100/5A or 200/5A or 400/5A without box	EA	79	0	0	0	5	0	0	-	-
38	LTCT	Fault rectification in CT Meter pertaining to termination/LT Cable dressing.	Fault rectification includes termination (thimble / socket crimping, gland change, cable lead extension crimping and tightening) and cable dressing.	EA	4	0	0	0	4	0	0	-	-
39	SP/PP	Prefabricated GI Structure (Supply Item)/ kg	Prefabricated / GI structural angle/ channel/flats of different sizes, as per the site requirement	Kg	200	0	0	0	551	0	0	-	-
40	SP/PP	Installation of Bracket Angle/ service anchor/ suspension clamp/ slotted angle	Installation of GI Bracket for Anchoring service cable of size 50, 95 & 150 sqmm / Installation of Service Cable Anchor / Installation of Slotted angle on pole in case of 2x10/4x10/4x25 cable lying, on uncleaned poles. (Number of items used at one site shall be considered for billing).	EA	243	0	0	0	221	0	0	-	-
41	TS	NIC / Modem Troubleshooting with TAB/ Laptop / Anyother device	(in case - Laptop/Tab in BA's scope)	EA	1819	0	0	0	1,654	0	0	-	-
42	DD	Manul Meter Reading and SVR	Taking manual reading parameters from meter display, providing remarks with photographs where data can not be downloaded for reason not attributable to BA	EA	1213	0	0	0	1,103	0	0	-	-
43	DD	Data downloading of meters	Data downloading of any meter per case	EA	1213	0	0	0	1,103	0	0	-	-
44	PP	Minor reworking in CT Meter termination/LT Cable dressing during pole cleaning	Minor reworking includes termination (thimble / socket crimping, gland change, cable lead extension crimping and tightening) and cable dressing during pole cleaning.	EA	4	0	0	0	4	0	0	-	-
45	Protocol Punching	Punching of Protocols for field activities - Metering/Modem/Testing/Data download	Bidder has to punch protocol for Meter installation (Both Single Phase and Three Phase activity/Modem Installation / rectification / Meter Testing (HT and LT) activity / data downloading activity, with 5% QC. Bidder to create Data Centre for same at Circle HO with required staff, computers and Broadband connection.	EA	24258	0	0	0	22,053	0	0	-	-
46	LT CT	LTCT Meter box Installation - 400/5 Amps	Installation of new LTCT meters with complete grouting, commissioning, supply of 8 Nos lugs and its crimping, energisation, communication of Meter and its allied accessories and seal installation with LTCT Meter box	EA	1	0	0	0	1	0	0	-	-
47	FSE	FSE- New Connection / Pre-inspection / Attribute Change / SVR	Site verification of new connection / Attribute Change / SVR with capturing of details as mentioned in site verification form and capturing photographs. Further submission of SVR and file at respective division office.	EA	1000	0	0	0	2,091	0	0	-	-
48		Safety officer	Safety office shall be posted at division level and report to division incharge and shall be responsible for safety related to safety at respective divisions with Diploma in Electrical Safety with two years of experiences	EA	1	0	0	0	1	0	0	-	-
49		Divisional Coordinator	One in each Distribution Division with Graduate (conversant with excel sheet & should be able to prepare reports & do quality	EA	1	0	0	0	1	0	0	-	-
50		Helper-Tech	Helper with ITI-Electrical to be allotted wherever additional manpower is required for assisting existing 3 Phase team To accelerate the process of installation, apart from existing defined team for the 3 Phase activity, if required additional helper-with ITI Electrical may be allotted to the team as per requirement duly approved by EIC.	EA	3	0	0	0	3	0	0	-	-
Total All inc value									0			-	-

Schedule of items Puri

Sr. No.	Activity Type	Item Short Description	Long Service Description	UoM	SAC Code	Prices for Year 1					Prices for Year 2					Grand Total		
						Quantity	Unit Rate (Rs.)	Appl. Taxes & Duties	All Inclusive Unit Rate (Rs.)	Total All Inclusive Value for Year-1 (Rs.)	Quantity	Unit Rate (Rs.)	Appl. Taxes & Duties	All Inclusive Unit Rate (Rs.)	Total All Inclusive Value for Year-2 (Rs.)			
																	A	B
1	SP	Meter Installation - SP	Installation of 1 phase energy meter with / without meter box/ existing meter box / Panel/ with freedom unit and communication cable lying. This also includes cable of any length from meter to MCB / Cutout / Kit Kat Fuse. This will include supply and installation of 'O' shaped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable. This line item includes removal of meters, where consumer meter is removed and handed over to customer	EA		18048			0	0	0	6,000			0	0	-	-
2	SP	Meter Installation NSC-SP	Meter and 2C * 4 sq mm Cable Installatin for NSC Cases	EA		5937			0	0	0	5,397			0	0	-	-
3	SP	Meter Installation NSC-SP	Meter and 2C * 6 sq mm Cable Installation for NSC Cases	EA		2544			0	0	0	2,313			0	0	-	-
4	SP	Meter Removal - SP	Removal of any single phase meter with / without meter box/ existing meter box / from Panel/ with freedom unit and communication cable removal and submitting it back to Scrap / Warranty store after devaluation	EA		14438			0	0	0	4,800			0	0	-	-
5	SP	Installation of 2C*4 sq mm / 2C X 6 sq mm armoured, Cable O/H (Length 7M-30M)	Stringing, sagging of armoured service cable size 2CX 4 sq mm/ 2C X 6 sq mm with length between 7m to 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble required size. This will include supply and installation of 'O' shaped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		1709			0	0	0	1,553			0	0	-	-
6	SP	Installation of 2C*6 sq mm armoured, Cable O/H (Length 7M-30M)	Stringing, sagging of armoured service cable size 2CX 6 sq mm with length between 7m to 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble / AB piercing connectors of required size. This will include supply and installation of 'O' shaped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		854			0	0	0	777			0	0	-	-
7	SP	Installation of 2C*10 sq mm armoured, Cable O/H (Length 7M-30M)	Stringing, sagging of armoured service cable size 2CX 10 sq mm with length between 7m to 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble / AB piercing connectors of required size. This will include supply and installation of 'O' shaped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		285			0	0	0	259			0	0	-	-
8	SP	Service Cable Removal of any size used for Single Phase connections	Removal of service cable of any size used for single Phase connections from pole/ LT Network and keeping unsafe custody to either re-use or return to scrap store / return to consumer if it pertains to consumer.	EA		2848			0	0	0	2,589			0	0	-	-
9	SP / PP	Bus bar/ D/ Box Installation	Installation of any type of bus bar box / distribution box on wall along with supply of fasteners / on pole with steel strap and buckles / piercing connect where LT mains in ABC. This will include supply and installation of 'O' shaped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		33			0	0	0	30			0	0	-	-
10	SP / PP	Bus bar/ D/ Box Removal	Removal of any type of bus bar box / distribution box from wall / from pole along with steel strap and buckles. This will include supply and installation of 'O' shaped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		3			0	0	0	3			0	0	-	-
11	PP	Meter Installation - PP	Installation of 3 phase whole current energy meter with / without meter box/ existing meter box / Panel. This will include supply and installation of 'O' shaped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		1126			0	0	0	470			0	0	-	-
12	PP	Meter Removal - PP	Removal of any Three phase whole current meter with / without meter box/ existing meter box / from Panel/ with freedom unit and communication cable removal and returning back too Central Store. This payment will be applicable only if meters are returned to concered central stores.	EA		787			0	0	0	423			0	0	-	-
13	PP	Installation of 4C*25 sq mm armoured, Cable O/H (Length 7M-30M)	Stringing, sagging of armoured service cable size 4CX 25 sq mm with length between 7m to 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble / AB piercing connectors of required size.	EA		157			0	0	0	75			0	0	-	-
14	PP	Installation of 4C*10 sq mm armoured, Cable O/H (Length 7M-30M)	Stringing, sagging of armoured service cable size 4CX 10 sq mm with length between 7m to 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble. This will include supply and installation of 'O' shaped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		394			0	0	0	301			0	0	-	-
15	SP/PP	Loop Connection for service cable size 2C X 4 sq mm/ 2C X 6 sq mm / 2C X 10 sq mm/ 4C X 10 sq mm/ 4C X 25 sq mm with length ≤ 6 M	Stringing of loop connection (length <= 6 meter) for service cable size 2C X 4 sq mm/ 2C X 6 sq mm / 2C X 10 sq mm/ 4C X 10 sq mm/ 4C X 25 sq mm with proper termination. This will include supply and installation of 'O' shaped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		16			0	0	0	14			0	0	-	-
16	PP	Service Cable Removal of any size used for Poly Phase connections	Removal of service cable of 4C X 10 sq mm / 4C X 25 sq mm or any other size used for Poly Phase Whole Current connections from pole/ LT Network and returning it back to scrap store if not utilised again	EA		787			0	0	0	105			0	0	-	-
17	SP-Testing	Single Phase Meter Accuracy test at site with Accucheck	Single Phase Testing with Accucheck (provided by TPCODL) to be done without opening any seal / opening seals in presence of authorised TPCODL Officers.	EA		334			0	0	0	304			0	0	-	-
18	PP - Testing	Three Phase Whole Current Meter Accuracy test at site with Accucheck	Polyphase Testing with Accucheck (provided by TPCODL) to be done without opening any seal / opening seals in presence of authorised TPCODL Officers..	EA		930			0	0	0	846			0	0	-	-
19	LTCT - Testing	LT CT Meter Accuracy test at site with Accucheck	LTCT Meter Testing with Accucheck (provided by TPCODL) to be done without opening any seal / opening seals in presence of authorised TPCODL Officers..	EA		388			0	0	0	352			0	0	-	-
20	HT CT Testing	Meter Accuracy test at site (HTCT)	HTCT Meter Testing to be done at site. Testing kit will be provided by TPCODL.	EA		135			0	0	0	123			0	0	-	-
21	HT CT Testing	CT PT unit Testing after taking shut down	Testing of HT CT Metering unit of 11 KV / 33 KV at various loads after taking shut down and isolating MU from the circuit and after testing restoring it back in circuit. Connection to the meter need to be isolated and then re-connected. This will be a 100% supervised job.	EA		135			0	0	0	123			0	0	-	-
22	LTCT	Smart DT Meter installation along with Meter Box and connection for CT / PT (For energy auditing of DTs)	Installation of Smart DT meters 100/5A, along with ring type CTs of various ratings, Meter Box, and associated accessories on LT side of transformers. Note : this activity excludes handling work at tranformer LT side.	EA		544			0	0	0	495			0	0	-	-
23	LTCT	Installation of 4C*50/4C*95 sq mm armoured service cable, O/H (Length up to 30M)	Stringing, sagging of armoured service cable size 4CX 50 sq mm with length upto 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble. (Saddles and Fastners are to be supplied by BA)	EA		326			0	0	0	297			0	0	-	-
24	LTCT	Installation of 4C*150 / 4C X 300 sq mm armoured service cable, O/H (Length up to 30M)	Stringing, sagging of armoured service cable size 4CX 95 sq mm / 4C X 150 sq mm with length upto 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble. (Saddles and Fastners are to be supplied by BA)	EA		109			0	0	0	99			0	0	-	-
25	HT	Meter Replacement - HT Meter Only	Replacement of any HT energy meter along with modem and its termination from Metering cubicle / CTPT unit	EA		28			0	0	0	5			0	0	-	-
26	HT	Meter Installation - HT Meter Only	Installation of any HT energy meter along with modem and its termination in Metering cubicle / CTPT unit	EA		13			0	0	0	18			0	0	-	-
27	HT	Meter Removal - HT Meter Only	Removal of any HT energy meter along with modem and its termination from Metering cubicle / CTPT unit	EA		28			0	0	0	5			0	0	-	-
28	HT	CTPT Installation - 11KV	Installation of new HT 11 KV out door Metering CTPT unit with or without meter, includes to & fro transportation (up to 50 KM), commissioning and energisation in all respect (i.e. connection in meter box from CTPT terminal block through control cable, pole mount CTPT unit erected at required height. Fix and Bolt CTPT unit, stand pipe flange, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CTPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door).All these activities are to be performed with crane of suitable capacity and all hardware will be in scope of BA except meter, MU and seals.	EA		28			0	0	0	11			0	0	-	-
29	HT	CTPT Installation - 33KV	Installation of new HT 33 KV out door Metering CTPT unit with or without meter, includes to & fro transportation (up to 50 KM), commissioning and energisation in all respect (i.e. connection in meter box from CTPT terminal block through control cable, pole mount CTPT unit erected at 30' height. Fix and Bolt CTPT unit, stand pipe flange, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CTPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door). Installation has to be done with crane of suitable capacity. All these activities are to be performed with crane of suitable capacity and all hardware will be in scope of BA except meter, MU and seals.	EA		10			0	0	0	3			0	0	-	-
30	HT	CTPT Removal- 11KV / 33KV	Dismantling of complete HT metering out door CTPT unit with or without meter, includes to & fro transportation (up to 50KM), removing and de-energisation in all respect (i.e. connection from meter box from CTPT terminal block through control cable, pole mount CTPT unit erected at 30' height. Fix and Bolt CTPT unit, stand pipe flange, two earth connections, HT cable ends termination removal, socket/ thimble crimp, stand pipe flanges removal, meter terminal cover, window and chamber door removal from site). Removed Metering material is to be returned back to Warranty and Scrap store	EA		38			0	0	0	5			0	0	-	-
31	HT	Replacement of CT PT Metering unit - 11KV	Replacement of out door HT metering unit of 11 KV along with replacement of control cable pipe , energy meter and allied accessories include to & fro transportation (upto 50 KM), commissioning and energisation in all respect (i.e. reconnection in meter box from CTPT terminal block through control cable, stand pipe flange replacement, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CTPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door). Note : Loading, Unloading, Installation of CT PT unit, Metering Cubicle at store, site through crane will be included in this cost.	EA		3			0	0	0	3			0	0	-	-
32	HT	Replacement of CT PT Metering unit - 33KV	Replacement of out door HT metering unit of 33 KV along with replacement of control cable pipe , energy meter and allied accessories include to & fro transportation (up to 50KM), commissioning and energisation in all respect (i.e. reconnection in meter box from CTPT terminal block through control cable, stand pipe flange replacement, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CTPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door). Note : Loading, Unloading, Installation of CT PT unit, Metering Cubicle at store, site through crane will be included in this cost.	EA		2			0	0	0	1			0	0	-	-

33	HT	Replacement of HT meter chamber OR Replacement / Shifting of control cable pipe with meter chamber for CPT unit (Transportation and lifting of MU is excluded)	Replacement of HT Metering chamber of HT 11 / 33 KV for out door Metering CPT unit, replacement of control cable pipe , energy meter and allied accessories include to & fro transportation, commissioning and energisation in all respect (i.e. reconnection in meter box from CPT terminal block through control cable, stand pipe flange replacement, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door). Note : This activity excludes transportation and lifting of metering unit.	EA	1	0	0	0	1	0	0	-	-
34	HT	Meter Installation - HT Meter (Travel charges in lot of 50 KM)	Rate for travel of HT Vehicle for additional travel in lot of 50 KM (over and above which is covered in activities where MU is to be transported) for a month. Rate for 50 KM additional milage after rounding off to be charged. If more than one activity is performed at one site at a time, then this cost to be charged against only one activity.	EA	35	0	0	0	18	0	0	-	-
35	LT CT	LTCT Meter with box Installation (For 100/5 Amps & 200/5 Amps)	Installation of new LTCT meters with complete grouting, commissioning, supply of 8 Nos lugs and its crimping, energisation, communication of Meter and its allied accessories and seal installation with LTCT Meter box	EA	298	0	0	0	43	0	0	-	-
36	LT CT	LTCT Meter with box Removal - All Rating	Removal of any LTCT meters from site with de-energisation, Meter, modem and its allied accessories with meter box. This will include returning meters back to relevant central stores	EA	298	0	0	0	20	0	0	-	-
37	LT CT	Meter Replacement - LTCT Meter Only	Replacement of LTCT meter/ LTCT Smart meter of any rating i.e. 100/5A or 200/5A or 400/5A without box	EA	298	0	0	0	20	0	0	-	-
38	LTCT	Fault rectification in CT Meter pertaining to termination/LT Cable dressing.	Fault rectification includes termination (thimble / socket crimping, gland change, cable lead extention crimping and tightening) and cable dressing.	EA	10	0	0	0	9	0	0	-	-
39	SP/PP	Prefabricated GI Structure (Supply Item)/ kg	Prefabricated / GI structural angle/ channel/flats of different sizes, as per the site requirement	Kg	500	0	0	0	1,282	0	0	-	-
40	SP/PP	Installation of Bracket Angle/ service anchor/ suspension clamp/ slotted angle	Installation of GI Bracket for Anchoring service cable of size 50, 95 & 150 sqmm / Installation of Service Cable Anchor / Installation of Slotted angle on pole in case of 2x10/4x10/4x25 cable lying, on uncleaned poles. (Number of items used at one site shall be considered for billing).	EA	564	0	0	0	513	0	0	-	-
41	TS	NIC / Modem Troubleshooting with TAB/ Laptop / Anyother device	(in case - Laptop/Tab in BA's scope)	EA	4229	0	0	0	3,845	0	0	-	-
42	DD	Manul Meter Reading and SVR	Taking manual reading parameters from meter display, providing remarks with photographs where data can not be downloaded for reason not attributable to BA	EA	2820	0	0	0	2,563	0	0	-	-
43	DD	Data downloading of meters	Data downloading of any meter per case	EA	2820	0	0	0	2,563	0	0	-	-
44	PP	Minor reworking in CT Meter termination/LT Cable dressing during pole cleaning	Minor reworking includes termination (thimble / socket crimping, gland change, cable lead extention crimping and tightening) and cable dressing during pole cleaning.	EA	10	0	0	0	9	0	0	-	-
45	Protocol Punching	Punching of Protocols for field activities - Metering/Modem/Testing/Data download	Bidder has to punch protocol for Meter installation (Both Single Phase and Three Phase activity/Modem Installation / rectification / Meter Testing (HT and LT) activity / data downloading activity, with 5% QC. Bidder to create Data Centre for same at Circle HO with required staff, computers and Broadband connection.	EA	56395	0	0	0	51,268	0	0	-	-
46	LT CT	LTCT Meter box Installation - 400/5 Amps	Installation of new LTCT meters with complete grouting, commissioning, supply of 8 Nos lugs and its crimping, energisation, communication of Meter and its allied accessories and seal installation with LTCT Meter box	EA	1	0	0	0	1	0	0	-	-
47	FSE	FSE- New Connection / Pre-inspection / Attribute Change / SVR	Site verification of new connection / Attribute Change / SVR with capturing of details as mentioned in site verification form and capturing photographs. Further submission of SVR and file at respective division office.	EA	1500	0	0	0	4,861	0	0	-	-
48		Safety officer	Safety office shall be posted at division level and report to division incharge and shall be responsible for safety related to safety at respective divisions with Diploma in Electrical Safety with two years of experiences	EA	1	0	0	0	1	0	0	-	-
49		Divisional Coordinator	One in each Distribution Division with Graduate (conversant with excel sheet & should be able to prepare reports & do quality	EA	1	0	0	0	1	0	0	-	-
50		Circle Coordinator	1no. Each attached to MRT HODs posted BBSR, Cuttack, Khurda, Dhnakanal, Paradip- 5nos and 5nos. At MRT HO level with Graduate (conversant with excel sheet & should be able to prepare reports & do quality	EA	1	0	0	0	1	0	0	-	-
51		Helper-Tech	Helper with ITI-Electrical to be allotted wherever additional manpower is required for assisting existing 3 Phase team To accelerate the process of installation, apart from existing defined team for the 3 Phase activity, If required additional helper-with ITI Electrical may be allotted to the team as per requiremet duly approved by EIC.	EA	3	0	0	0	3	0	0	-	-
Total All inc value									0			0	0

Schedule of items CDD1

Sr. No.	Activity Type	Item Short Description	Long Service Description	UoM	SAC Code	Prices for Year 1					Prices for Year 2					Grand Total		
						Quantity	Unit Rate (Rs.)	Appl. Taxes & Duties	All Inclusive Unit Rate (Rs.)	Total All Inclusive Value for Year-1 (Rs.)	Quantity	Unit Rate (Rs.)	Appl. Taxes & Duties	All Inclusive Unit Rate (Rs.)	Total All Inclusive Value for Year-2 (Rs.)			
																	A	B
1	SP	Meter Installation - SP	Installation of 1 phase energy meter with / without meter box/ existing meter box / Panel/ with freedom unit and communication cable lying. This also includes cable of any length from meter to MCB / Cutout / Kit Kat Fuse. This will include supply and installation of 'O' shapped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable. This line item includes removal of meters, where consumer meter is removed and handed over to customer	EA		35889			0	0	0	32,566			0	0	-	-
2	SP	Meter Installation NSC-SP	Meter and 2C * 4 sq mm Cable Installatin for NSC Cases	EA		2909			0	0	0	2,644			0	0	-	-
3	SP	Meter Installation NSC-SP	Meter and 2C * 6 sq mm Cable Installation for NSC Cases	EA		1247			0	0	0	1,133			0	0	-	-
4	SP	Meter Removal - SP	Removal of any single phase meter with / without meter box/ existing meter box / from Panel/ with freedom unit and communication cable removal and submitting it back to Scrap / Warranty store after devaluation	EA		28711			0	0	0	26,053			0	0	-	-
5	SP	Installation of 2C*4 sq mm / 2C X 6 sq mm armoured, Cable O/H (Length 7M-30M)	Stringing, sagging of armoured service cable size 2CX 4 sq mm/ 2C X 6 sq mm with length between 7m to 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble required size. This will include supply and installation of 'O' shapped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		498			0	0	0	453			0	0	-	-
6	SP	Installation of 2C*6 sq mm armoured, Cable O/H (Length 7M-30M)	Stringing, sagging of armoured service cable size 2CX 6 sq mm with length between 7m to 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble / AB piercing connectors of required size. This will include supply and installation of 'O' shapped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		249			0	0	0	226			0	0	-	-
7	SP	Installation of 2C*10 sq mm armoured, Cable O/H (Length 7M-30M)	Stringing, sagging of armoured service cable size 2CX 10 sq mm with length between 7m to 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble / AB piercing connectors of required size. This will include supply and installation of 'O' shapped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		83			0	0	0	75			0	0	-	-
8	SP	Service Cable Removal of any size used for Single Phase connections	Removal of service cable of any size used for single Phase connections from pole/ LT Network and keeping unsafe custody to either re-use or return to scrap store / return to consumer if it pertains to consumer.	EA		830			0	0	0	755			0	0	-	-
9	SP / PP	Bus bar/ D/ Box Installation	Installation of any type of bus bar box / distribution box on wall along with supply of fastners / on pole with steel strap and buckles / piercing connect where LT mains in ABC. This will include supply and installation of 'O' shapped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		13			0	0	0	12			0	0	-	-
10	SP / PP	Bus bar/ D/ Box Removal	Removal of any type of bus bar box / distribution box from wall / from pole along with steel strap and buckles. This will include supply and installation of 'O' shapped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		1			0	0	0	1			0	0	-	-
11	PP	Meter Installation - PP	Installation of 3 phase whole current energy meter with / without meter box/ existing meter box / Panel. This will include supply and installation of 'O' shapped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		1115			0	0	0	275			0	0	-	-
12	PP	Meter Removal - PP	Removal of any Three phase whole current meter with / without meter box/ existing meter box / from Panel/ with freedom unit and communication cable removal and returning back too Central Store. This payment will be applicable only if meters are returned to concered central stores.	EA		920			0	0	0	248			0	0	-	-
13	PP	Installation of 4C*25 sq mm armoured, Cable O/H (Length 7M-30M)	Stringing, sagging of armoured service cable size 4CX 25 sq mm with length between 7m to 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble / AB piercing connectors of required size.	EA		184			0	0	0	44			0	0	-	-
14	PP	Installation of 4C*10 sq mm armoured, Cable O/H (Length 7M-30M)	Stringing, sagging of armoured service cable size 4CX 10 sq mm with length between 7m to 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble. This will include supply and installation of 'O' shapped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		460			0	0	0	176			0	0	-	-
15	SP/PP	Loop Connection for service cable size 2C X 4 sq mm/ 2C X 6 sq mm / 2C X 10 sq mm/ 4C X 10 sq mm/ 4C X 25 sq mm with length ≤ 6 M	Stringing of loop connection (length <= 6 meter) for service cable size 2C X 4 sq mm/ 2C X 6 sq mm / 2C X 10 sq mm/ 4C X 10 sq mm/ 4C X 25 sq mm with proper termination. This will include supply and installation of 'O' shapped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		18			0	0	0	17			0	0	-	-
16	PP	Service Cable Removal of any size used for Poly Phase connections	Removal of service cable of 4C X 10 sq mm / 4C X 25 sq mm or any other size used for Poly Phase Whole Current connections from pole/ LT Network and returning it back to scrap store if not utilised again	EA		920			0	0	0	64			0	0	-	-
17	SP-Testing	Single Phase Meter Accuracy test at site with Accucheck	Single Phase Testing with Accucheck (provided by TPCODL) to be done without opening any seal / opening seals in presence of authorised TPCODL Officers.	EA		133			0	0	0	121			0	0	-	-
18	PP - Testing	Three Phase Whole Current Meter Accuracy test at site with Accucheck	Polyphase Testing with Accucheck (provided by TPCODL) to be done without opening any seal / opening seals in presence of authorised TPCODL Officers..	EA		1070			0	0	0	973			0	0	-	-
19	LTCT - Testing	LT CT Meter Accuracy test at site with Accucheck	LTCT Meter Testing with Accucheck (provided by TPCODL) to be done without opening any seal / opening seals in presence of authorised TPCODL Officers..	EA		556			0	0	0	506			0	0	-	-
20	HT CT Testing	Meter Accuracy test at site (HTCT)	HTCT Meter Testing to be done at site. Testing kit will be provided by TPCODL.	EA		208			0	0	0	189			0	0	-	-
21	HT CT Testing	CT PT unit Testing after taking shut down	Testing of HT CT Metering unit of 11 KV / 33 KV at various loads after taking shut down and isolating MU from the circuit and after testing restoring it back in circuit. Connection to the meter need to be isolated and then re-connected. This will be a 100% supervised job.	EA		208			0	0	0	189			0	0	-	-
22	LTCT	Smart DT Meter installation along with Meter Box and connection for CT / PT (For energy auditing of DTs)	Installation of Smart DT meters 100/5A, along with ring type CTs of various ratings, Meter Box, and associated accessories on LT side of transformers. Note : this activity excludes handling work at tranformer LT side.	EA		218			0	0	0	198			0	0	-	-
23	LTCT	Installation of 4C*50/4C*95 sq mm armoured service cable, O/H (Length up to 30M)	Stringing, sagging of armoured service cable size 4CX 50 sq mm with length upto 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble. (Saddles and Fastners are to be supplied by BA)	EA		131			0	0	0	119			0	0	-	-
24	LTCT	Installation of 4C*150 / 4C X 300 sq mm armoured service cable, O/H (Length up to 30M)	Stringing, sagging of armoured service cable size 4CX 95 sq mm / 4C X 150 sq mm with length upto 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble. (Saddles and Fastners are to be supplied by BA)	EA		44			0	0	0	40			0	0	-	-
25	HT	Meter Replacement - HT Meter Only	Replacement of any HT energy meter along with modem and its termination from Metering cubicle / CTPT unit	EA		72			0	0	0	5			0	0	-	-
26	HT	Meter Installation - HT Meter Only	Installation of any HT energy meter along with modem and its termination in Metering cubicle / CTPT unit	EA		78			0	0	0	11			0	0	-	-
27	HT	Meter Removal - HT Meter Only	Removal of any HT energy meter along with modem and its termination from Metering cubicle / CTPT unit	EA		72			0	0	0	11			0	0	-	-
28	HT	CTPT Installation - 11KV	Installation of new HT 11 KV out door Metering CTPT unit with or without meter, includes to & fro transportation (up to 50 KM), commissioning and energisation in all respect (i.e. connection in meter box from CTPT terminal block through control cable, pole mount CTPT unit erected at required height. Fix and Bolt CTPT unit, stand pipe flange, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CTPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door).All these activities are to be performed with crane of suitable capacity and all hardware will be in scope of BA except meter, MU and seals.	EA		58			0	0	0	5			0	0	-	-
29	HT	CTPT Installation - 33KV	Installation of new HT 33 KV out door Metering CTPT unit with or without meter, includes to & fro transportation (up to 50 KM), commissioning and energisation in all respect (i.e. connection in meter box from CTPT terminal block through control cable, pole mount CTPT unit erected at 30' height. Fix and Bolt CTPT unit, stand pipe flange, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CTPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door). Installation has to be done with crane of suitable capacity. All these activities are to be performed with crane of suitable capacity and all hardware will be in scope of BA except meter, MU and seals.	EA		14			0	0	0	1			0	0	-	-
30	HT	CTPT Removal- 11KV / 33KV	Dismantling of complete HT metering out door CTPT unit with or without meter, includes to & fro transportation (up to 50KM), removing and de-energisation in all respect (i.e. connection from meter box from CTPT terminal block through control cable, pole mount CTPT unit erected at 30' height. Fix and Bolt CTPT unit, stand pipe flange, two earth connections, HT cable ends termination removal, socket/ thimble crimp, stand pipe flanges removal, meter terminal cover, window and chamber door removal from site). Removed Metering material is to be returned back to Warranty and Scrap store	EA		72			0	0	0	5			0	0	-	-
31	HT	Replacement of CT PT Metering unit - 11KV	Replacement of out door HT metering unit of 11 KV along with replacement of control cable pipe , energy meter and allied accessories include to & fro transportation (upto 50 KM), commissioning and energisation in all respect (i.e. reconnection in meter box from CTPT terminal block through control cable, stand pipe flange replacement, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CTPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door). Note : Loading, Unloading, Installation of CT PT unit, Metering Cubicle at store, site through crane will be included in this cost.	EA		58			0	0	0	2			0	0	-	-
32	HT	Replacement of CT PT Metering unit - 33KV	Replacement of out door HT metering unit of 33 KV along with replacement of control cable pipe , energy meter and allied accessories include to & fro transportation (up to 50KM), commissioning and energisation in all respect (i.e. reconnection in meter box from CTPT terminal block through control cable, stand pipe flange replacement, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CTPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door). Note : Loading, Unloading, Installation of CT PT unit, Metering Cubicle at store, site through crane will be included in this cost.	EA		14			0	0	0	1			0	0	-	-

33	HT	Replacement of HT meter chamber OR Replacement / Shifting of control cable pipe with meter chamber for CPT unit (Transportation and lifting of MU is excluded)	Replacement of HT Metering chamber of HT 11 / 33 KV for out door Metering CPT unit, replacement of control cable pipe , energy meter and allied accessories include to & fro transportation, commissioning and energisation in all respect (i.e. reconnection in meter box from CPT terminal block through control cable, stand pipe flange replacement, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door). Note : This activity excludes transportation and lifting of metering unit.	EA	2	0	0	0	1	0	0	-	-
34	HT	Meter Installation - HT Meter (Travel charges in lot of 50 KM)	Rate for travel of HT Vehicle for additional travel in lot of 50 KM (over and above which is covered in activities where MU is to be transported) for a month. Rate for 50 KM additional mileage after rounding off to be charged. If more than one activity is performed at one site at a time, then this cost to be charged against only one activity.	EA	78	0	0	0	11	0	0	-	-
35	LT CT	LTCT Meter with box Installation (For 100/5 Amps & 200/5 Amps)	Installation of new LTCT meters with complete grouting, commissioning, supply of 8 Nos lugs and its crimping, energisation, communication of Meter and its allied accessories and seal installation with LTCT Meter box	EA	283	0	0	0	32	0	0	-	-
36	LT CT	LTCT Meter with box Removal - All Rating	Removal of any LTCT meters from site with de-energisation, Meter, modem and its allied accessories with meter box. This will include returning meters back to relevant central stores	EA	261	0	0	0	80	0	0	-	-
37	LT CT	Meter Replacement - LTCT Meter Only	Replacement of LTCT meter/ LTCT Smart meter of any rating i.e. 100/5A or 200/5A or 400/5A without box	EA	261	0	0	0	80	0	0	-	-
38	LTCT	Fault rectification in CT Meter pertaining to termination/LT Cable dressing.	Fault rectification includes termination (thimble / socket crimping, gland change, cable lead extension crimping and tightening) and cable dressing.	EA	10	0	0	0	9	0	0	-	-
39	SP/PP	Prefabricated GI Structure (Supply Item)/ kg	Prefabricated / GI structural angle/ channel/flats of different sizes, as per the site requirement	Kg	500	0	0	0	1,474	0	0	-	-
40	SP/PP	Installation of Bracket Angle/ service anchor/ suspension clamp/ slotted angle	Installation of GI Bracket for Anchoring service cable of size 50, 95 & 150 sqmm / Installation of Service Cable Anchor / Installation of Slotted angle on pole in case of 2x10/4x10/4x25 cable lying, on uncleaned poles. (Number of items used at one site shall be considered for billing).	EA	648	0	0	0	589	0	0	-	-
41	TS	NIC / Modem Troubleshooting with TAB/ Laptop / Anyother device	(in case - Laptop/Tab in BA's scope)	EA	6484	0	0	0	5,894	0	0	-	-
42	DD	Manul Meter Reading and SVR	Taking manual reading parameters from meter display, providing remarks with photographs where data can not be downloaded for reason not attributable to BA	EA	3242	0	0	0	2,947	0	0	-	-
43	DD	Data downloading of meters	Data downloading of any meter per case	EA	3242	0	0	0	2,947	0	0	-	-
44	PP	Minor reworking in CT Meter termination/LT Cable dressing during pole cleaning	Minor reworking includes termination (thimble / socket crimping, gland change, cable lead extension crimping and tightening) and cable dressing during pole cleaning.	EA	10	0	0	0	9	0	0	-	-
45	Protocol Punching	Punching of Protocols for field activities - Metering/Modem/Testing/Data download	Bidder has to punch protocol for Meter installation (Both Single Phase and Three Phase activity/Modem Installation / rectification / Meter Testing (HT and LT) activity / data downloading activity, with 5% QC. Bidder to create Data Centre for same at Circle HO with required staff, computers and Broadband connection.	EA	23248	0	0	0	21,135	0	0	-	-
46	LT CT	LTCT Meter box Installation - 400/5 Amps	Installation of new LTCT meters with complete grouting, commissioning, supply of 8 Nos lugs and its crimping, energisation, communication of Meter and its allied accessories and seal installation with LTCT Meter box	EA	2	0	0	0	1	0	0	-	-
47	FSE	FSE- New Connection / Pre-inspection / Attribute Change / SVR	Site verification of new connection / Attribute Change / SVR with capturing of details as mentioned in site verification form and capturing photographs. Further submission of SVR and file at respective division office.	EA	1500	0	0	0	6,486	0	0	-	-
48		Safety officer	Safety office shall be posted at division level and report to division incharge and shall be responsible for safety related to safety at respective divisions with Diploma in Electrical Safety with two years of experiences	EA	1	0	0	0	1	0	0	-	-
49		Divisional Coordinator	One in each Distribution Division with Graduate (conversant with excel sheet & should be able to prepare reports & do quality	EA	1	0	0	0	1	0	0	-	-
50		Lab Technician	Two in each Lab, Bhubaneswar/Cuttack with ITI in Electricals	EA	1	0	0	0	1	0	0	-	-
51		Lab Helper	10th Pass minium to be posted at Lab , Bhubaneswar-3nos & Cuttack- 2nos. Each, Vehicle to be provided for movement of meters from Central store, Bhubaneswar Lab & Choudwar store - Cuttack Lab & tested meters from lab to respective stores. (packing/unpacking etc.)	EA	2	0	0	0	2	0	0	-	-
52		Circle Coordinator	1no. Each attached to MRT HODs posted BBSR, Cuttack, Khurda, Dhnakanal, Paradip- 5nos and 5nos. At MRT HO level with Graduate (conversant with excel sheet & should be able to prepare reports & do quality	EA	1	0	0	0	1	0	0	-	-
53		Van Model	For Urban Division for BCDD-1, BCDD-2, BED, CDD-1 & CDD-2 for movement of 3P Meters from Central Store to sites for installation	EA	1	0	0	0	1	0	0	-	-
54		Helper-Tech	Helper with ITI-Electrical to be allotted wherever additional manpower is required for assisting existing 3 Phase team To accelerate the process of installation, apart from existing defined team for the 3 Phase activity, If required additional helper-with ITI Electrical may be allotted to the team as per requirement duly approved by EIC.	EA	3	0	0	0	3	0	0	-	-
Total All Inlc value									0			-	0

Schedule of items CDD2

Sr. No.	Activity Type	Item Short Description	Long Service Description	UoM	SAC Code	Prices for Year 1					Prices for Year 2					Grand Total		
						Quantity	Unit Rate (Rs.)	Appl. Taxes & Duties	All Inclusive Unit Rate (Rs.)	Total All Inclusive Value for Year-1 (Rs.)	Quantity	Unit Rate (Rs.)	Appl. Taxes & Duties	All Inclusive Unit Rate (Rs.)	Total All Inclusive Value for Year-2 (Rs.)			
																	A	B
1	SP	Meter Installation - SP	Installation of 1 phase energy meter with / without meter box/ existing meter box / Panel/ with freedom unit and communication cable lying. This also includes cable of any length from meter to MCB / Cutout / Kit Kat Fuse. This will include supply and installation of 'O' shaped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable. This line item includes removal of meters, where consumer meter is removed and handed over to customer	EA		27655			0	0	0	22,591			0	0	-	-
2	SP	Meter Installation NSC-SP	Meter and 2C * 4 sq mm Cable Installatin for NSC Cases	EA		3753			0	0	0	3,102			0	0	-	-
3	SP	Meter Installation NSC-SP	Meter and 2C * 6 sq mm Cable Installation for NSC Cases	EA		1609			0	0	0	1,329			0	0	-	-
4	SP	Meter Removal - SP	Removal of any single phase meter with / without meter box/ existing meter box / from Panel/ with freedom unit and communication cable removal and submitting it back to Scrap / Warranty store after devaluation	EA		22124			0	0	0	18,073			0	0	-	-
5	SP	Installation of 2C*4 sq mm / 2C X 6 sq mm armoured, Cable O/H (Length 7M-30M)	Stringing, sagging of armoured service cable size 2CX 4 sq mm/ 2C X 6 sq mm with length between 7m to 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble required size. This will include supply and installation of 'O' shaped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		610			0	0	0	504			0	0	-	-
6	SP	Installation of 2C*6 sq mm armoured, Cable O/H (Length 7M-30M)	Stringing, sagging of armoured service cable size 2CX 6 sq mm with length between 7m to 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble / AB piercing connectors of required size. This will include supply and installation of 'O' shaped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		305			0	0	0	252			0	0	-	-
7	SP	Installation of 2C*10 sq mm armoured, Cable O/H (Length 7M-30M)	Stringing, sagging of armoured service cable size 2CX 10 sq mm with length between 7m to 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble / AB piercing connectors of required size. This will include supply and installation of 'O' shaped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		102			0	0	0	84			0	0	-	-
8	SP	Service Cable Removal of any size used for Single Phase connections	Removal of service cable of any size used for single Phase connections from pole/ LT Network and keeping unsafe custody to either re-use or return to scrap store / return to consumer if it pertains to consumer.	EA		1016			0	0	0	840			0	0	-	-
9	SP / PP	Bus bar/ D/ Box Installation	Installation of any type of bus bar box / distribution box on wall along with supply of fasteners / on pole with steel strap and buckles / piercing connect where LT mains in ABC. This will include supply and installation of 'O' shaped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		16			0	0	0	13			0	0	-	-
10	SP / PP	Bus bar/ D/ Box Removal	Removal of any type of bus bar box / distribution box from wall / from pole along with steel strap and buckles. This will include supply and installation of 'O' shaped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		2			0	0	0	1			0	0	-	-
11	PP	Meter Installation - PP	Installation of 3 phase whole current energy meter with / without meter box/ existing meter box / Panel. This will include supply and installation of 'O' shaped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		1000			0	0	0	293			0	0	-	-
12	PP	Meter Removal - PP	Removal of any Three phase whole current meter with / without meter box/ existing meter box / from Panel/ with freedom unit and communication cable removal and returning back too Central Store. This payment will be applicable only if meters are returned to concered central stores.	EA		827			0	0	0	264			0	0	-	-
13	PP	Installation of 4C*25 sq mm armoured, Cable O/H (Length 7M-30M)	Stringing, sagging of armoured service cable size 4CX 25 sq mm with length between 7m to 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble / AB piercing connectors of required size.	EA		165			0	0	0	47			0	0	-	-
14	PP	Installation of 4C*10 sq mm armoured, Cable O/H (Length 7M-30M)	Stringing, sagging of armoured service cable size 4CX 10 sq mm with length between 7m to 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble. This will include supply and installation of 'O' shaped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		414			0	0	0	188			0	0	-	-
15	SP/PP	Loop Connection for service cable size 2C X 4 sq mm/ 2C X 6 sq mm / 2C X 10 sq mm/ 4C X 10 sq mm/ 4C X 25 sq mm with length ≤ 6 M	Stringing of loop connection (length <= 6 meter) for service cable size 2C X 4 sq mm/ 2C X 6 sq mm / 2C X 10 sq mm/ 4C X 10 sq mm/ 4C X 25 sq mm with proper termination. This will include supply and installation of 'O' shaped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		17			0	0	0	14			0	0	-	-
16	PP	Service Cable Removal of any size used for Poly Phase connections	Removal of service cable of 4C X 10 sq mm / 4C X 25 sq mm or any other size used for Poly Phase Whole Current connections from pole/ LT Network and returning it back to scrap store if not utilised again	EA		827			0	0	0	96			0	0	-	-
17	SP-Testing	Single Phase Meter Accuracy test at site with Accucheck	Single Phase Testing with Accucheck (provided by TPCODL) to be done without opening any seal / opening seals in presence of authorised TPCODL Officers.	EA		163			0	0	0	134			0	0	-	-
18	PP - Testing	Three Phase Whole Current Meter Accuracy test at site with Accucheck	Polyphase Testing with Accucheck (provided by TPCODL) to be done without opening any seal / opening seals in presence of authorised TPCODL Officers..	EA		716			0	0	0	592			0	0	-	-
19	LTCT - Testing	LT CT Meter Accuracy test at site with Accucheck	LTCT Meter Testing with Accucheck (provided by TPCODL) to be done without opening any seal / opening seals in presence of authorised TPCODL Officers..	EA		372			0	0	0	308			0	0	-	-
20	HT CT Testing	Meter Accuracy test at site (HTCT)	HTCT Meter Testing to be done at site. Testing kit will be provided by TPCODL.	EA		139			0	0	0	115			0	0	-	-
21	HT CT Testing	CT PT unit Testing after taking shut down	Testing of HT CT Metering unit of 11 KV / 33 KV at various loads after taking shut down and isolating MU from the circuit and after testing restoring it back in circuit. Connection to the meter need to be isolated and then re-connected. This will be a 100% supervised job.	EA		139			0	0	0	115			0	0	-	-
22	LTCT	Smart DT Meter installation along with Meter Box and connection for CT / PT (For energy auditing of DTs)	Installation of Smart DT meters 100/5A, along with ring type CTs of various ratings, Meter Box, and associated accessories on LT side of transformers. Note : this activity excludes handling work at transformer LT side.	EA		578			0	0	0	478			0	0	-	-
23	LTCT	Installation of 4C*50/4C*95 sq mm armoured service cable, O/H (Length up to 30M)	Stringing, sagging of armoured service cable size 4CX 50 sq mm with length upto 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble. (Saddles and Fastners are to be supplied by BA)	EA		347			0	0	0	287			0	0	-	-
24	LTCT	Installation of 4C*150 / 4C X 300 sq mm armoured service cable, O/H (Length up to 30M)	Stringing, sagging of armoured service cable size 4CX 95 sq mm / 4C X 150 sq mm with length upto 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble. (Saddles and Fastners are to be supplied by BA)	EA		116			0	0	0	96			0	0	-	-
25	HT	Meter Replacement - HT Meter Only	Replacement of any HT energy meter along with modem and its termination from Metering cubicle / CTPT unit	EA		135			0	0	0	23			0	0	-	-
26	HT	Meter Installation - HT Meter Only	Installation of any HT energy meter along with modem and its termination in Metering cubicle / CTPT unit	EA		153			0	0	0	14			0	0	-	-
27	HT	Meter Removal - HT Meter Only	Removal of any HT energy meter along with modem and its termination from Metering cubicle / CTPT unit	EA		135			0	0	0	4			0	0	-	-
28	HT	CTPT Installation - 11KV	Installation of new HT 11 KV out door Metering CTPT unit with or without meter, includes to & fro transportation (up to 50 KM), commissioning and energisation in all respect (i.e. connection in meter box from CTPT terminal block through control cable, pole mount CTPT unit erected at required height. Fix and Bolt CTPT unit, stand pipe flange, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CTPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door).All these activities are to be performed with crane of suitable capacity and all hardware will be in scope of BA except meter, MU and seals.	EA		108			0	0	0	14			0	0	-	-
29	HT	CTPT Installation - 33KV	Installation of new HT 33 KV out door Metering CTPT unit with or without meter, includes to & fro transportation (up to 50 KM), commissioning and energisation in all respect (i.e. connection in meter box from CTPT terminal block through control cable, pole mount CTPT unit erected at 30' height. Fix and Bolt CTPT unit, stand pipe flange, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CTPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door). Installation has to be done with crane of suitable capacity. All these activities are to be performed with crane of suitable capacity and all hardware will be in scope of BA except meter, MU and seals.	EA		27			0	0	0	4			0	0	-	-
30	HT	CTPT Removal- 11KV / 33KV	Dismantling of complete HT metering out door CTPT unit with or without meter, includes to & fro transportation (up to 50KM), removing and de-energisation in all respect (i.e. connection from meter box from CTPT terminal block through control cable, pole mount CTPT unit erected at 30' height. Fix and Bolt CTPT unit, stand pipe flange, two earth connections, HT cable ends termination removal, socket/ thimble crimp, stand pipe flanges removal, meter terminal cover, window and chamber door removal from site). Removed Metering material is to be returned back to Warranty and Scrap store	EA		135			0	0	0	5			0	0	-	-
31	HT	Replacement of CT PT Metering unit - 11KV	Replacement of out door HT metering unit of 11 KV along with replacement of control cable pipe , energy meter and allied accessories include to & fro transportation (upto 50 KM), commissioning and energisation in all respect (i.e. reconnection in meter box from CTPT terminal block through control cable, stand pipe flange replacement, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CTPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door). Note : Loading, Unloading, Installation of CT PT unit, Metering Cubicle at store, site through crane will be included in this cost.	EA		108			0	0	0	3			0	0	-	-
32	HT	Replacement of CT PT Metering unit - 33KV	Replacement of out door HT metering unit of 33 KV along with replacement of control cable pipe , energy meter and allied accessories include to & fro transportation (up to 50KM), commissioning and energisation in all respect (i.e. reconnection in meter box from CTPT terminal block through control cable, stand pipe flange replacement, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CTPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door). Note : Loading, Unloading, Installation of CT PT unit, Metering Cubicle at store, site through crane will be included in this cost.	EA		27			0	0	0	2			0	0	-	-

33	HT	Replacement of HT meter chamber OR Replacement / Shifting of control cable pipe with meter chamber for CPT unit (Transportation and lifting of MU is excluded)	Replacement of HT Metering chamber of HT 11 / 33 KV for out door Metering CPT unit, replacement of control cable pipe , energy meter and allied accessories include to & fro transportation, commissioning and energisation in all respect (i.e. reconnection in meter box from CPT terminal block through control cable, stand pipe flange replacement, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door). Note : This activity excludes transportation and lifting of metering unit.	EA	1	0	0	0	1	0	0	-	-
34	HT	Meter Installation - HT Meter (Travel charges in lot of 50 KM)	Rate for travel of HT Vehicle for additional travel in lot of 50 KM (over and above which is covered in activities where MU is to be transported) for a month. Rate for 50 KM additional mileage after rounding off to be charged. If more than one activity is performed at one site at a time, then this cost to be charged against only one activity.	EA	135	0	0	0	23	0	0	-	-
35	LT CT	LTCT Meter with box Installation (For 100/5 Amps & 200/5 Amps)	Installation of new LTCT meters with complete grouting, commissioning, supply of 8 Nos lugs and its crimping, energisation, communication of Meter and its allied accessories and seal installation with LTCT Meter box	EA	433	0	0	0	53	0	0	-	-
36	LT CT	LTCT Meter with box Removal - All Rating	Removal of any LTCT meters from site with de-energisation, Meter, modem and its allied accessories with meter box. This will include returning meters back to relevant central stores	EA	400	0	0	0	20	0	0	-	-
37	LT CT	Meter Replacement - LTCT Meter Only	Replacement of LTCT meter/ LTCT Smart meter of any rating i.e. 100/5A or 200/5A or 400/5A without box	EA	400	0	0	0	20	0	0	-	-
38	LTCT	Fault rectification in CT Meter pertaining to termination/LT Cable dressing.	Fault rectification includes termination (thimble / socket crimping, gland change, cable lead extension crimping and tightening) and cable dressing.	EA	6	0	0	0	5	0	0	-	-
39	SP/PP	Prefabricated GI Structure (Supply Item)/ kg	Prefabricated / GI structural angle/ channel/flats of different sizes, as per the site requirement	Kg	300	0	0	0	897	0	0	-	-
40	SP/PP	Installation of Bracket Angle/ service anchor/ suspension clamp/ slotted angle	Installation of GI Bracket for Anchoring service cable of size 50, 95 & 150 sqmm / Installation of Service Cable Anchor / Installation of Slotted angle on pole in case of 2x10/4x10/4x25 cable lying, on uncleaned poles. (Number of items used at one site shall be considered for billing).	EA	434	0	0	0	359	0	0	-	-
41	TS	NIC / Modem Troubleshooting with TAB/ Laptop / Anyother device	(in case - Laptop/Tab in BA's scope)	EA	4340	0	0	0	3,587	0	0	-	-
42	DD	Manual Meter Reading and SVR	Taking manual reading parameters from meter display, providing remarks with photographs where data can not be downloaded for reason not attributable to BA	EA	2170	0	0	0	1,793	0	0	-	-
43	DD	Data downloading of meters	Data downloading of any meter per case	EA	2170	0	0	0	1,793	0	0	-	-
44	PP	Minor reworking in CT Meter termination/LT Cable dressing during pole cleaning	Minor reworking includes termination (thimble / socket crimping, gland change, cable lead extension crimping and tightening) and cable dressing during pole cleaning.	EA	6	0	0	0	5	0	0	-	-
45	Protocol Punching	Punching of Protocols for field activities - Metering/Modem/Testing/Data download	Bidder has to punch protocol for Meter installation (Both Single Phase and Three Phase activity/Modem Installation / rectification / Meter Testing (HT and LT) activity / data downloading activity, with 5% QC. Bidder to create Data Centre for same at Circle HO with required staff, computers and Broadband connection.	EA	15562	0	0	0	12,861	0	0	-	-
46	LT CT	LTCT Meter box Installation - 400/5 Amps	Installation of new LTCT meters with complete grouting, commissioning, supply of 8 Nos lugs and its crimping, energisation, communication of Meter and its allied accessories and seal installation with LTCT Meter box	EA	1	0	0	0	1	0	0	-	-
47	FSE	FSE- New Connection / Pre-inspection / Attribute Change / SVR	Site verification of new connection / Attribute Change / SVR with capturing of details as mentioned in site verification form and capturing photographs. Further submission of SVR and file at respective division office.	EA	1300	0	0	0	3,947	0	0	-	-
48		Safety officer	Safety office shall be posted at division level and report to division incharge and shall be responsible for safety related to safety at respective divisions with Diploma in Electrical Safety with two years of experiences	EA	1	0	0	0	1	0	0	-	-
49		Divisional Coordinator	One in each Distribution Division with Graduate (conversant with excel sheet & should be able to prepare reports & do quality	EA	1	0	0	0	1	0	0	-	-
50		Circle Coordinator	1no. Each attached to MRT HODs posted BBSR, Cuttack, Khurda, Dhnakanal, Paradip- 5nos and 5nos. At MRT HO level with Graduate (conversant with excel sheet & should be able to prepare reports & do quality	EA	1	0	0	0	1	0	0	-	-
51		Van Model	For Urban Division for BCDD-1, BCDD-2, BED, CDD-1 & CDD-2 for movement of 3P Meters from Central Store to sites for installation	EA	1	0	0	0	1	0	0	-	-
52		Helper-Tech	Helper with ITI-Electrical to be allotted wherever additional manpower is required for assisting existing 3 Phase team To accelerate the process of installation, apart from existing defined team for the 3 Phase activity, If required additional helper-with ITI Electrical may be allotted to the team as per requirement duly approved by EIC.	EA	3	0	0	0	3	0	0	-	-
Total All inc value										0	0	0	0

Schedule of items CED

Sr. No.	Activity Type	Item Short Description	Long Service Description	UoM	SAC Code	Prices for Year 1					Prices for Year 2					Grand Total		
						Quantity	Unit Rate (Rs.)	Appl. Taxes & Duties	All Inclusive Unit Rate (Rs.)	Total All Inclusive Value for Year-1 (Rs.)	Quantity	Unit Rate (Rs.)	Appl. Taxes & Duties	All Inclusive Unit Rate (Rs.)	Total All Inclusive Value for Year-2 (Rs.)			
																	A	B
1	SP	Meter Installation - SP	Installation of 1 phase energy meter with / without meter box/ existing meter box / Panel/ with freedom unit and communication cable lying. This also includes cable of any length from meter to MCB / Cutout / Kit Kat Fuse. This will include supply and installation of 'O' shapped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable. This line item includes removal of meters, where consumer meter is removed and handed over to customer	EA		8998			0	0	0	6,568			0	0	-	-
2	SP	Meter Installation NSC-SP	Meter and 2C * 4 sq mm Cable Installatin for NSC Cases	EA		4204			0	0	0	3,822			0	0	-	-
3	SP	Meter Installation NSC-SP	Meter and 2C * 6 sq mm Cable Installation for NSC Cases	EA		1802			0	0	0	1,638			0	0	-	-
4	SP	Meter Removal - SP	Removal of any single phase meter with / without meter box/ existing meter box / from Panel/ with freedom unit and communication cable removal and submitting it back to Scrap / Warranty store after devaluation	EA		7198			0	0	0	5,255			0	0	-	-
5	SP	Installation of 2C*4 sq mm / 2C X 6 sq mm armoured, Cable O/H (Length 7M-30M)	Stringing, sagging of armoured service cable size 2CX 4 sq mm/ 2C X 6 sq mm with length between 7m to 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble required size. This will include supply and installation of 'O' shapped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		1510			0	0	0	1,373			0	0	-	-
6	SP	Installation of 2C*6 sq mm armoured, Cable O/H (Length 7M-30M)	Stringing, sagging of armoured service cable size 2CX 6 sq mm with length between 7m to 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble / AB piercing connectors of required size. This will include supply and installation of 'O' shapped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		755			0	0	0	686			0	0	-	-
7	SP	Installation of 2C*10 sq mm armoured, Cable O/H (Length 7M-30M)	Stringing, sagging of armoured service cable size 2CX 10 sq mm with length between 7m to 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble / AB piercing connectors of required size. This will include supply and installation of 'O' shapped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		252			0	0	0	229			0	0	-	-
8	SP	Service Cable Removal of any size used for Single Phase connections	Removal of service cable of any size used for single Phase connections from pole/ LT Network and keeping unsafe custody to either re-use or return to scrap store / return to consumer if it pertains to consumer.	EA		2517			0	0	0	2,288			0	0	-	-
9	SP / PP	Bus bar/ D/ Box Installation	Installation of any type of bus bar box / distribution box on wall along with supply of fastners / on pole with steel strap and buckles / piercing connect where LT mains in ABC. This will include supply and installation of 'O' shapped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		62			0	0	0	56			0	0	-	-
10	SP / PP	Bus bar/ D/ Box Removal	Removal of any type of bus bar box / distribution box from wall / from pole along with steel strap and buckles. This will include supply and installation of 'O' shapped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		6			0	0	0	6			0	0	-	-
11	PP	Meter Installation - PP	Installation of 3 phase whole current energy meter with / without meter box/ existing meter box / Panel. This will include supply and installation of 'O' shapped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		1171			0	0	0	603			0	0	-	-
12	PP	Meter Removal - PP	Removal of any Three phase whole current meter with / without meter box/ existing meter box / from Panel/ with freedom unit and communication cable removal and returning back too Central Store. This payment will be applicable only if meters are returned to concered central stores.	EA		868			0	0	0	543			0	0	-	-
13	PP	Installation of 4C*25 sq mm armoured, Cable O/H (Length 7M-30M)	Stringing, sagging of armoured service cable size 4CX 25 sq mm with length between 7m to 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble / AB piercing connectors of required size.	EA		174			0	0	0	96			0	0	-	-
14	PP	Installation of 4C*10 sq mm armoured, Cable O/H (Length 7M-30M)	Stringing, sagging of armoured service cable size 4CX 10 sq mm with length between 7m to 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble. This will include supply and installation of 'O' shapped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		434			0	0	0	386			0	0	-	-
15	SP/PP	Loop Connection for service cable size 2C X 4 sq mm/ 2C X 6 sq mm / 2C X 10 sq mm/ 4C X 10 sq mm/ 4C X 25 sq mm with length ≤ 6 M	Stringing of loop connection (length <= 6 meter) for service cable size 2C X 4 sq mm/ 2C X 6 sq mm / 2C X 10 sq mm/ 4C X 10 sq mm/ 4C X 25 sq mm with proper termination. This will include supply and installation of 'O' shapped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		17			0	0	0	16			0	0	-	-
16	PP	Service Cable Removal of any size used for Poly Phase connections	Removal of service cable of 4C X 10 sq mm / 4C X 25 sq mm or any other size used for Poly Phase Whole Current connections from pole/ LT Network and returning it back to scrap store if not utilised again	EA		868			0	0	0	240			0	0	-	-
17	SP-Testing	Single Phase Meter Accuracy test at site with Accucheck	Single Phase Testing with Accucheck (provided by TPCODL) to be done without opening any seal / opening seals in presence of authorised TPCODL Officers.	EA		618			0	0	0	562			0	0	-	-
18	PP - Testing	Three Phase Whole Current Meter Accuracy test at site with Accucheck	Polyphase Testing with Accucheck (provided by TPCODL) to be done without opening any seal / opening seals in presence of authorised TPCODL Officers..	EA		819			0	0	0	745			0	0	-	-
19	LTCT - Testing	LT CT Meter Accuracy test at site with Accucheck	LTCT Meter Testing with Accucheck (provided by TPCODL) to be done without opening any seal / opening seals in presence of authorised TPCODL Officers..	EA		426			0	0	0	387			0	0	-	-
20	HT CT Testing	Meter Accuracy test at site (HTCT)	HTCT Meter Testing to be done at site. Testing kit will be provided by TPCODL.	EA		159			0	0	0	145			0	0	-	-
21	HT CT Testing	CT PT unit Testing after taking shut down	Testing of HT CT Metering unit of 11 KV / 33 KV at various loads after taking shut down and isolating MU from the circuit and after testing restoring it back in circuit. Connection to the meter need to be isolated and then re-connected. This will be a 100% supervised job.	EA		159			0	0	0	145			0	0	-	-
22	LTCT	Smart DT Meter installation along with Meter Box and connection for CT / PT (For energy auditing of DTs)	Installation of Smart DT meters 100/5A, along with ring type CTs of various ratings, Meter Box, and associated accessories on LT side of transformers. Note : this activity excludes handling work at tranformer LT side.	EA		430			0	0	0	390			0	0	-	-
23	LTCT	Installation of 4C*50/4C*95 sq mm armoured service cable, O/H (Length up to 30M)	Stringing, sagging of armoured service cable size 4CX 50 sq mm with length upto 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble. (Saddles and Fastners are to be supplied by BA)	EA		258			0	0	0	234			0	0	-	-
24	LTCT	Installation of 4C*150 / 4C X 300 sq mm armoured service cable, O/H (Length up to 30M)	Stringing, sagging of armoured service cable size 4CX 95 sq mm / 4C X 150 sq mm with length upto 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble. (Saddles and Fastners are to be supplied by BA)	EA		86			0	0	0	78			0	0	-	-
25	HT	Meter Replacement - HT Meter Only	Replacement of any HT energy meter along with modem and its termination from Metering cubicle / CTPT unit	EA		44			0	0	0	33			0	0	-	-
26	HT	Meter Installation - HT Meter Only	Installation of any HT energy meter along with modem and its termination in Metering cubicle / CTPT unit	EA		72			0	0	0	5			0	0	-	-
27	HT	Meter Removal - HT Meter Only	Removal of any HT energy meter along with modem and its termination from Metering cubicle / CTPT unit	EA		44			0	0	0	5			0	0	-	-
28	HT	CTPT Installation - 11KV	Installation of new HT 11 KV out door Metering CTPT unit with or without meter, includes to & fro transportation (up to 50 KM), commissioning and energisation in all respect (i.e. connection in meter box from CTPT terminal block through control cable, pole mount CTPT unit erected at required height. Fix and Bolt CTPT unit, stand pipe flange, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CTPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door). All these activities are to be performed with crane of suitable capacity and all hardware will be in scope of BA except meter, MU and seals.	EA		35			0	0	0	22			0	0	-	-
29	HT	CTPT Installation - 33KV	Installation of new HT 33 KV out door Metering CTPT unit with or without meter, includes to & fro transportation (up to 50 KM), commissioning and energisation in all respect (i.e. connection in meter box from CTPT terminal block through control cable, pole mount CTPT unit erected at 30' height. Fix and Bolt CTPT unit, stand pipe flange, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CTPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door). Installation has to be done with crane of suitable capacity. All these activities are to be performed with crane of suitable capacity and all hardware will be in scope of BA except meter, MU and seals.	EA		9			0	0	0	6			0	0	-	-
30	HT	CTPT Removal- 11KV / 33KV	Dismantling of complete HT metering out door CTPT unit with or without meter, includes to & fro transportation (up to 50KM), removing and de-energisation in all respect (i.e. connection from meter box from CTPT terminal block through control cable, pole mount CTPT unit erected at 30' height. Fix and Bolt CTPT unit, stand pipe flange, two earth connections, HT cable ends termination removal, socket/ thimble crimp, stand pipe flanges removal, meter terminal cover, window and chamber door removal from site). Removed Metering material is to be returned back to Warranty and Scrap store	EA		44			0	0	0	5			0	0	-	-
31	HT	Replacement of CT PT Metering unit - 11KV	Replacement of out door HT metering unit of 11 KV along with replacement of control cable pipe , energy meter and allied accessories include to & fro transportation (upto 50 KM), commissioning and energisation in all respect (i.e. reconnection in meter box from CTPT terminal block through control cable, stand pipe flange replacement, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CTPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door). Note : Loading, Unloading, Installation of CT PT unit, Metering Cubicle at store, site through crane will be included in this cost.	EA		35			0	0	0	3			0	0	-	-
32	HT	Replacement of CT PT Metering unit - 33KV	Replacement of out door HT metering unit of 33 KV along with replacement of control cable pipe , energy meter and allied accessories include to & fro transportation (up to 50KM), commissioning and energisation in all respect (i.e. reconnection in meter box from CTPT terminal block through control cable, stand pipe flange replacement, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CTPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door). Note : Loading, Unloading, Installation of CT PT unit, Metering Cubicle at store, site through crane will be included in this cost.	EA		9			0	0	0	1			0	0	-	-

33	HT	Replacement of HT meter chamber OR Replacement / Shifting of control cable pipe with meter chamber for CPT unit (Transportation and lifting of MU is excluded)	Replacement of HT Metering chamber of HT 11 / 33 KV for out door Metering CPT unit, replacement of control cable pipe , energy meter and allied accessories include to & fro transportation, commissioning and energisation in all respect (i.e. reconnection in meter box from CPT terminal block through control cable, stand pipe flange replacement, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door). Note : This activity excludes transportation and lifting of metering unit.	EA	1	0	0	0	1	0	0	-	-
34	HT	Meter Installation - HT Meter (Travel charges in lot of 50 KM)	Rate for travel of HT Vehicle for additional travel in lot of 50 KM (over and above which is covered in activities where MU is to be transported) for a month. Rate for 50 KM additional mileage after rounding off to be charged. If more than one activity is performed at one site at a time, then this cost to be charged against only one activity.	EA	72	0	0	0	33	0	0	-	-
35	LT CT	LTCT Meter with box Installation (For 100/5 Amps & 200/5 Amps)	Installation of new LTCT meters with complete grouting, commissioning, supply of 8 Nos lugs and its crimping, energisation, communication of Meter and its allied accessories and seal installation with LTCT Meter box	EA	316	0	0	0	61	0	0	-	-
36	LT CT	LTCT Meter with box Removal - All Rating	Removal of any LTCT meters from site with de-energisation, Meter, modem and its allied accessories with meter box. This will include returning meters back to relevant central stores	EA	265	0	0	0	10	0	0	-	-
37	LT CT	Meter Replacement - LTCT Meter Only	Replacement of LTCT meter/ LTCT Smart meter of any rating i.e. 100/5A or 200/5A or 400/5A without box	EA	265	0	0	0	10	0	0	-	-
38	LTCT	Fault rectification in CT Meter pertaining to termination/LT Cable dressing.	Fault rectification includes termination (thimble / socket crimping, gland change, cable lead extension crimping and tightening) and cable dressing.	EA	7	0	0	0	7	0	0	-	-
39	SP/PP	Prefabricated GI Structure (Supply Item)/ kg	Prefabricated / GI structural angle/ channel/flats of different sizes, as per the site requirement	Kg	400	0	0	0	1,128	0	0	-	-
40	SP/PP	Installation of Bracket Angle/ service anchor/ suspension clamp/ slotted angle	Installation of GI Bracket for Anchoring service cable of size 50, 95 & 150 sqmm / Installation of Service Cable Anchor / Installation of Slotted angle on pole in case of 2x10/4x10/4x25 cable lying, on uncleaned poles. (Number of items used at one site shall be considered for billing).	EA	496	0	0	0	451	0	0	-	-
41	TS	NIC / Modem Troubleshooting with TAB/ Laptop / Anyother device	(in case - Laptop/Tab in BA's scope)	EA	4964	0	0	0	4,513	0	0	-	-
42	DD	Manul Meter Reading and SVR	Taking manual reading parameters from meter display, providing remarks with photographs where data can not be downloaded for reason not attributable to BA	EA	2482	0	0	0	2,256	0	0	-	-
43	DD	Data downloading of meters	Data downloading of any meter per case	EA	2482	0	0	0	2,256	0	0	-	-
44	PP	Minor reworking in CT Meter termination/LT Cable dressing during pole cleaning	Minor reworking includes termination (thimble / socket crimping, gland change, cable lead extension crimping and tightening) and cable dressing during pole cleaning.	EA	7	0	0	0	7	0	0	-	-
45	Protocol Punching	Punching of Protocols for field activities - Metering/Modem/Testing/Data download	Bidder has to punch protocol for Meter installation (Both Single Phase and Three Phase activity/Modem Installation / rectification / Meter Testing (HT and LT) activity / data downloading activity, with 5% QC. Bidder to create Data Centre for same at Circle HO with required staff, computers and Broadband connection.	EA	17800	0	0	0	16,182	0	0	-	-
46	LT CT	LTCT Meter box Installation - 400/5 Amps	Installation of new LTCT meters with complete grouting, commissioning, supply of 8 Nos lugs and its crimping, energisation, communication of Meter and its allied accessories and seal installation with LTCT Meter box	EA	1	0	0	0	1	0	0	-	-
47	FSE	FSE- New Connection / Pre-inspection / Attribute Change / SVR	Site verification of new connection / Attribute Change / SVR with capturing of details as mentioned in site verification form and capturing photographs. Further submission of SVR and file at respective division office.	EA	1500	0	0	0	4,966	0	0	-	-
48		Safety officer	Safety office shall be posted at division level and report to division incharge and shall be responsible for safety related to safety at respective divisions with Diploma in Electrical Safety with two years of experiences	EA	1	0	0	0	1	0	0	-	-
49		Divisional Coordinator	One in each Distribution Division with Graduate (conversant with excel sheet & should be able to prepare reports & do quality	EA	1	0	0	0	1	0	0	-	-
50		Helper-Tech	Helper with ITI-Electrical to be allotted wherever additional manpower is required for assisting existing 3 Phase team To accelerate the process of installation, apart from existing defined team for the 3 Phase activity, if required additional helper-with ITI Electrical may be allotted to the team as per requirement duly approved by EIC.	EA	3	0	0	0	3	0	0	-	-
Total All inc value									0			0	0

Schedule of items AED

Sr. No.	Activity Type	Item Short Description	Long Service Description	UoM	SAC Code	Prices for Year 1					Prices for Year 2					Grand Total
						Quantity	Unit Rate (Rs.)	Appl. Taxes & Duties	All Inclusive Unit Rate (Rs.)	Total All Inclusive Value for Year-1 (Rs.)	Quantity	Unit Rate (Rs.)	Appl. Taxes & Duties	All Inclusive Unit Rate (Rs.)	Total All Inclusive Value for Year-2 (Rs.)	
1	SP	Meter Installation - SP	Installation of 1 phase energy meter with / without meter box/ existing meter box / Panel/ with freedom unit and communication cable lying. This also includes cable of any length from meter to MCB / Cutout / Kit Kat Fuse. This will include supply and installation of 'O' shapped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable. This line item includes removal of meters, where consumer meter is removed and handed over to customer	EA		11528			0	0	0	7,978	0	0	-	-
2	SP	Meter Installation NSC-SP	Meter and 2C * 4 sq mm Cable Installatin for NSC Cases	EA		1944			0	0	0	1,767	0	0	-	-
3	SP	Meter Installation NSC-SP	Meter and 2C * 6 sq mm Cable Installation for NSC Cases	EA		833			0	0	0	757	0	0	-	-
4	SP	Meter Removal - SP	Removal of any single phase meter with / without meter box/ existing meter box / from Panel/ with freedom unit and communication cable removal and submitting it back to Scrap / Warranty store after devaluation	EA		9222			0	0	0	6,383	0	0	-	-
5	SP	Installation of 2C*4 sq mm / 2C X 6 sq mm armoured, Cable O/H (Length 7M-30M)	Stringing, sagging of armoured service cable size 2CX 4 sq mm/ 2C X 6 sq mm with length between 7m to 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble required size. This will include supply and installation of 'O' shapped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		509			0	0	0	463	0	0	-	-
6	SP	Installation of 2C*6 sq mm armoured, Cable O/H (Length 7M-30M)	Stringing, sagging of armoured service cable size 2CX 6 sq mm with length between 7m to 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble / AB piercing connectors of required size. This will include supply and installation of 'O' shapped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		255			0	0	0	232	0	0	-	-
7	SP	Installation of 2C*10 sq mm armoured, Cable O/H (Length 7M-30M)	Stringing, sagging of armoured service cable size 2CX 10 sq mm with length between 7m to 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble / AB piercing connectors of required size. This will include supply and installation of 'O' shapped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		85			0	0	0	77	0	0	-	-
8	SP	Service Cable Removal of any size used for Single Phase connections	Removal of service cable of any size used for single Phase connections from pole/ LT Network and keeping unsafe custody to either re-use or return to scrap store / return to consumer if it pertains to consumer.	EA		849			0	0	0	772	0	0	-	-
9	SP / PP	Bus bar/ D/ Box Installation	Installation of any type of bus bar box / distribution box on wall along with supply of fastners / on pole with steel strap and buckles / piercing connect where LT mains in ABC. This will include supply and installation of 'O' shapped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		75			0	0	0	68	0	0	-	-
10	SP / PP	Bus bar/ D/ Box Removal	Removal of any type of bus bar box / distribution box from wall / from pole along with steel strap and buckles. This will include supply and installation of 'O' shapped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		8			0	0	0	7	0	0	-	-
11	PP	Meter Installation - PP	Installation of 3 phase whole current energy meter with / without meter box/ existing meter box / Panel. This will include supply and installation of 'O' shapped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		596			0	0	0	197	0	0	-	-
12	PP	Meter Removal - PP	Removal of any Three phase whole current meter with / without meter box/ existing meter box / from Panel/ with freedom unit and communication cable removal and returning back too Central Store. This payment will be applicable only if meters are returned to concered central stores.	EA		509			0	0	0	177	0	0	-	-
13	PP	Installation of 4C*25 sq mm armoured, Cable O/H (Length 7M-30M)	Stringing, sagging of armoured service cable size 4CX 25 sq mm with length between 7m to 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble / AB piercing connectors of required size.	EA		102			0	0	0	32	0	0	-	-
14	PP	Installation of 4C*10 sq mm armoured, Cable O/H (Length 7M-30M)	Stringing, sagging of armoured service cable size 4CX 10 sq mm with length between 7m to 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble. This will include supply and installation of 'O' shapped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		255			0	0	0	126	0	0	-	-
15	SP/PP	Loop Connection for service cable size 2C X 4 sq mm/ 2C X 6 sq mm / 2C X 10 sq mm/ 4C X 10 sq mm/ 4C X 25 sq mm with length ≤ 6 M	Stringing of loop connection (length <= 6 meter) for service cable size 2C X 4 sq mm/ 2C X 6 sq mm / 2C X 10 sq mm/ 4C X 10 sq mm/ 4C X 25 sq mm with proper termination. This will include supply and installation of 'O' shapped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		10			0	0	0	9	0	0	-	-
16	PP	Service Cable Removal of any size used for Poly Phase connections	Removal of service cable of 4C X 10 sq mm / 4C X 25 sq mm or any other size used for Poly Phase Whole Current connections from pole/ LT Network and returning it back to scrap store if not utilised again	EA		509			0	0	0	88	0	0	-	-
17	SP-Testing	Single Phase Meter Accuracy test at site with Accucheck	Single Phase Testing with Accucheck (provided by TPCODL) to be done without opening any seal / opening seals in presence of authorised TPCODL Officers.	EA		752			0	0	0	684	0	0	-	-
18	PP - Testing	Three Phase Whole Current Meter Accuracy test at site with Accucheck	Polyphase Testing with Accucheck (provided by TPCODL) to be done without opening any seal / opening seals in presence of authorised TPCODL Officers..	EA		334			0	0	0	303	0	0	-	-
19	LTCT - Testing	LT CT Meter Accuracy test at site with Accucheck	LTCT Meter Testing with Accucheck (provided by TPCODL) to be done without opening any seal / opening seals in presence of authorised TPCODL Officers..	EA		174			0	0	0	158	0	0	-	-
20	HT CT Testing	Meter Accuracy test at site (HTCT)	HTCT Meter Testing to be done at site. Testing kit will be provided by TPCODL.	EA		65			0	0	0	59	0	0	-	-
21	HT CT Testing	CT PT unit Testing after taking shut down	Testing of HT CT Metering unit of 11 KV / 33 KV at various loads after taking shut down and isolating MU from the circuit and after testing restoring it back in circuit. Connection to the meter need to be isolated and then re-connected. This will be a 100% supervised job.	EA		65			0	0	0	59	0	0	-	-
22	LTCT	Smart DT Meter installation along with Meter Box and connection for CT / PT (For energy auditing of DTs)	Installation of Smart DT meters 100/5A, along with ring type CTs of various ratings, Meter Box, and associated accessories on LT side of transformers. Note : this activity excludes handling work at tranformer LT side.	EA		206			0	0	0	187	0	0	-	-
23	LTCT	Installation of 4C*50/4C*95 sq mm armoured service cable, O/H (Length up to 30M)	Stringing, sagging of armoured service cable size 4CX 50 sq mm with length upto 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble. (Saddles and Fastners are to be supplied by BA)	EA		123			0	0	0	112	0	0	-	-
24	LTCT	Installation of 4C*150 / 4C X 300 sq mm armoured service cable, O/H (Length up to 30M)	Stringing, sagging of armoured service cable size 4CX 95 sq mm / 4C X 150 sq mm with length upto 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble. (Saddles and Fastners are to be supplied by BA)	EA		41			0	0	0	37	0	0	-	-
25	HT	Meter Replacement - HT Meter Only	Replacement of any HT energy meter along with modem and its termination from Metering cubicle / CTPT unit	EA		20			0	0	0	2	0	0	-	-
26	HT	Meter Installation - HT Meter Only	Installation of any HT energy meter along with modem and its termination in Metering cubicle / CTPT unit	EA		31			0	0	0	13	0	0	-	-
27	HT	Meter Removal - HT Meter Only	Removal of any HT energy meter along with modem and its termination from Metering cubicle / CTPT unit	EA		20			0	0	0	2	0	0	-	-
28	HT	CTPT Installation - 11KV	Installation of new HT 11 KV out door Metering CTPT unit with or without meter, includes to & fro transportation (up to 50 KM), commissioning and energisation in all respect (i.e. connection in meter box from CTPT terminal block through control cable, pole mount CTPT unit erected at required height. Fix and Bolt CTPT unit, stand pipe flange, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CTPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door). All these activities are to be performed with crane of suitable capacity and all hardware will be in scope of BA except meter, MU and seals.	EA		16			0	0	0	9	0	0	-	-
29	HT	CTPT Installation - 33KV	Installation of new HT 33 KV out door Metering CTPT unit with or without meter, includes to & fro transportation (up to 50 KM), commissioning and energisation in all respect (i.e. connection in meter box from CTPT terminal block through control cable, pole mount CTPT unit erected at 30' height. Fix and Bolt CTPT unit, stand pipe flange, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CTPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door). Installation has to be done with crane of suitable capacity. All these activities are to be performed with crane of suitable capacity and all hardware will be in scope of BA except meter, MU and seals.	EA		4			0	0	0	2	0	0	-	-
30	HT	CTPT Removal- 11KV / 33KV	Dismantling of complete HT metering out door CTPT unit with or without meter, includes to & fro transportation (up to 50KM), removing and de-energisation in all respect (i.e. connection from meter box from CTPT terminal block through control cable, pole mount CTPT unit erected at 30' height. Fix and Bolt CTPT unit, stand pipe flange, two earth connections, HT cable ends termination removal, socket/ thimble crimp, stand pipe flanges removal, meter terminal cover, window and chamber door removal from site). Removed Metering material is to be returned back to Warranty and Scrap store	EA		20			0	0	0	2	0	0	-	-
31	HT	Replacement of CT PT Metering unit - 11KV	Replacement of out door HT metering unit of 11 KV along with replacement of control cable pipe , energy meter and allied accessories include to & fro transportation (upto 50 KM), commissioning and energisation in all respect (i.e. reconnection in meter box from CTPT terminal block through control cable, stand pipe flange replacement, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CTPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door). Note : Loading, Unloading, Installation of CT PT unit, Metering Cubicle at store, site through crane will be included in this cost.	EA		16			0	0	0	1	0	0	-	-
32	HT	Replacement of CT PT Metering unit - 33KV	Replacement of out door HT metering unit of 33 KV along with replacement of control cable pipe , energy meter and allied accessories include to & fro transportation (up to 50KM), commissioning and energisation in all respect (i.e. reconnection in meter box from CTPT terminal block through control cable, stand pipe flange replacement, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CTPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door). Note : Loading, Unloading, Installation of CT PT unit, Metering Cubicle at store, site through crane will be included in this cost.	EA		4			0	0	0	1	0	0	-	-

33	HT	Replacement of HT meter chamber OR Replacement / Shifting of control cable pipe with meter chamber for CPT unit (Transportation and lifting of MU is excluded)	Replacement of HT Metering chamber of HT 11 / 33 KV for out door Metering CPT unit, replacement of control cable pipe , energy meter and allied accessories include to & fro transportation, commissioning and energisation in all respect (i.e. reconnection in meter box from CPT terminal block through control cable, stand pipe flange replacement, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door). Note : This activity excludes transportation and lifting of metering unit.	EA	1	0	0	0	0	0	0	0	0	-	-
34	HT	Meter Installation - HT Meter (Travel charges in lot of 50 KM)	Rate for travel of HT Vehicle for additional travel in lot of 50 KM (over and above which is covered in activities where MU is to be transported) for a month. Rate for 50 KM additional mileage after rounding off to be charged. If more than one activity is performed at one site at a time, then this cost to be charged against only one activity.	EA	31	0	0	0	13	0	0	0	0	-	-
35	LT CT	LTCT Meter with box Installation (For 100/5 Amps & 200/5 Amps)	Installation of new LTCT meters with complete grouting, commissioning, supply of 8 Nos lugs and its crimping, energisation, communication of Meter and its allied accessories and seal installation with LTCT Meter box	EA	114	0	0	0	25	0	0	0	0	-	-
36	LT CT	LTCT Meter with box Removal - All Rating	Removal of any LTCT meters from site with de-energisation, Meter, modem and its allied accessories with meter box. This will include returning meters back to relevant central stores	EA	94	0	0	0	5	0	0	0	0	-	-
37	LT CT	Meter Replacement - LTCT Meter Only	Replacement of LTCT meter/ LTCT Smart meter of any rating i.e. 100/5A or 200/5A or 400/5A without box	EA	94	0	0	0	5	0	0	0	0	-	-
38	LTCT	Fault rectification in CT Meter pertaining to termination/LT Cable dressing.	Fault rectification includes termination (thimble / socket crimping, gland change, cable lead extension crimping and tightening) and cable dressing.	EA	3	0	0	0	3	0	0	0	0	-	-
39	SP/PP	Prefabricated GI Structure (Supply Item)/ kg	Prefabricated / GI structural angle/ channel/flats of different sizes, as per the site requirement	Kg	506	0	0	0	460	0	0	0	0	-	-
40	SP/PP	Installation of Bracket Angle/ service anchor/ suspension clamp/ slotted angle	Installation of GI Bracket for Anchoring service cable of size 50, 95 & 150 sqmm / Installation of Service Cable Anchor / Installation of Slotted angle on pole in case of 2x10/4x10/4x25 cable lying, on uncleaned poles. (Number of items used at one site shall be considered for billing).	EA	202	0	0	0	184	0	0	0	0	-	-
41	TS	NIC / Modem Troubleshooting with TAB/ Laptop / Anyother device	(in case - Laptop/Tab in BA's scope)	EA	2022	0	0	0	1,838	0	0	0	0	-	-
42	DD	Manul Meter Reading and SVR	Taking manual reading parameters from meter display, providing remarks with photographs where data can not be downloaded for reason not attributable to BA	EA	1011	0	0	0	919	0	0	0	0	-	-
43	DD	Data downloading of meters	Data downloading of any meter per case	EA	1011	0	0	0	919	0	0	0	0	-	-
44	PP	Minor reworking in CT Meter termination/LT Cable dressing during pole cleaning	Minor reworking includes termination (thimble / socket crimping, gland change, cable lead extension crimping and tightening) and cable dressing during pole cleaning.	EA	3	0	0	0	3	0	0	0	0	-	-
45	Protocol Punching	Punching of Protocols for field activities - Metering/Modem/Testing/Data download	Bidder has to punch protocol for Meter installation (Both Single Phase and Three Phase activity/Modem Installation / rectification / Meter Testing (HT and LT) activity / data downloading activity, with 5% QC. Bidder to create Data Centre for same at Circle HO with required staff, computers and Broadband connection.	EA	7251	0	0	0	6,592	0	0	0	0	-	-
46	LT CT	LTCT Meter box Installation - 400/5 Amps	Installation of new LTCT meters with complete grouting, commissioning, supply of 8 Nos lugs and its crimping, energisation, communication of Meter and its allied accessories and seal installation with LTCT Meter box	EA	1	0	0	0	0	0	0	0	0	-	-
47	FSE	FSE- New Connection / Pre-inspection / Attribute Change / SVR	Site verification of new connection / Attribute Change / SVR with capturing of details as mentioned in site verification form and capturing photographs. Further submission of SVR and file at respective division office.	EA	1000	0	0	0	2,023	0	0	0	0	-	-
48		Safety officer	Safety office shall be posted at division level and report to division incharge and shall be responsible for safety related to safety at respective divisions with Diploma in Electrical Safety with two years of experiences	EA	1	0	0	0	1	0	0	0	0	-	-
49		Divisional Coordinator	One in each Distribution Division with Graduate (conversant with excel sheet & should be able to prepare reports & do quality	EA	1	0	0	0	1	0	0	0	0	-	-
50		Helper-Tech	Helper with ITI-Electrical to be allotted wherever additional manpower is required for assisting existing 3 Phase team To accelerate the process of installation, apart from existing defined team for the 3 Phase activity, if required additional helper-with ITI Electrical may be allotted to the team as per requirement duly approved by EIC.	EA	1	0	0	0	1	0	0	0	0	-	-
Total All inc value										0				-	-

Schedule of items SED

Sr. No.	Activity Type	Item Short Description	Long Service Description	UoM	SAC Code	Prices for Year 1					Prices for Year 2					Grand Total		
						Quantity	Unit Rate (Rs.)	Appl. Taxes & Duties	All Inclusive Unit Rate (Rs.)	Total All Inclusive Value for Year-1 (Rs.)	Quantity	Unit Rate (Rs.)	Appl. Taxes & Duties	All Inclusive Unit Rate (Rs.)	Total All Inclusive Value for Year-2 (Rs.)			
																	A	B
1	SP	Meter Installation - SP	Installation of 1 phase energy meter with / without meter box/ existing meter box / Panel/ with freedom unit and communication cable lying. This also includes cable of any length from meter to MCB / Cutout / Kit Kat Fuse. This will include supply and installation of 'O' shapped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable. This line item includes removal of meters, where consumer meter is removed and handed over to customer	EA		8102			0	0	0	5,365			0	0	-	-
2	SP	Meter Installation NSC-SP	Meter and 2C * 4 sq mm Cable Installatin for NSC Cases	EA		2426			0	0	0	2,206			0	0	-	-
3	SP	Meter Installation NSC-SP	Meter and 2C * 6 sq mm Cable Installation for NSC Cases	EA		1040			0	0	0	945			0	0	-	-
4	SP	Meter Removal - SP	Removal of any single phase meter with / without meter box/ existing meter box / from Panel/ with freedom unit and communication cable removal and submitting it back to Scrap / Warranty store after devaluation	EA		6482			0	0	0	4,292			0	0	-	-
5	SP	Installation of 2C*4 sq mm / 2C X 6 sq mm armoured, Cable O/H (Length 7M-30M)	Stringing, sagging of armoured service cable size 2CX 4 sq mm/ 2C X 6 sq mm with length between 7m to 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble required size. This will include supply and installation of 'O' shapped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		743			0	0	0	676			0	0	-	-
6	SP	Installation of 2C*6 sq mm armoured, Cable O/H (Length 7M-30M)	Stringing, sagging of armoured service cable size 2CX 6 sq mm with length between 7m to 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble / AB piercing connectors of required size. This will include supply and installation of 'O' shapped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		372			0	0	0	338			0	0	-	-
7	SP	Installation of 2C*10 sq mm armoured, Cable O/H (Length 7M-30M)	Stringing, sagging of armoured service cable size 2CX 10 sq mm with length between 7m to 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble / AB piercing connectors of required size. This will include supply and installation of 'O' shapped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		124			0	0	0	113			0	0	-	-
8	SP	Service Cable Removal of any size used for Single Phase connections	Removal of service cable of any size used for single Phase connections from pole/ LT Network and keeping unsafe custody to either re-use or return to scrap store / return to consumer if it pertains to consumer.	EA		1239			0	0	0	1,126			0	0	-	-
9	SP / PP	Bus bar/ D/ Box Installation	Installation of any type of bus bar box / distribution box on wall along with supply of fastners / on pole with steel strap and buckles / piercing connect where LT mains in ABC. This will include supply and installation of 'O' shapped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		53			0	0	0	49			0	0	-	-
10	SP / PP	Bus bar/ D/ Box Removal	Removal of any type of bus bar box / distribution box from wall / from pole along with steel strap and buckles. This will include supply and installation of 'O' shapped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		5			0	0	0	5			0	0	-	-
11	PP	Meter Installation - PP	Installation of 3 phase whole current energy meter with / without meter box/ existing meter box / Panel. This will include supply and installation of 'O' shapped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		1171			0	0	0	287			0	0	-	-
12	PP	Meter Removal - PP	Removal of any Three phase whole current meter with / without meter box/ existing meter box / from Panel/ with freedom unit and communication cable removal and returning back too Central Store. This payment will be applicable only if meters are returned to concered central stores.	EA		868			0	0	0	258			0	0	-	-
13	PP	Installation of 4C*25 sq mm armoured, Cable O/H (Length 7M-30M)	Stringing, sagging of armoured service cable size 4CX 25 sq mm with length between 7m to 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble / AB piercing connectors of required size.	EA		174			0	0	0	46			0	0	-	-
14	PP	Installation of 4C*10 sq mm armoured, Cable O/H (Length 7M-30M)	Stringing, sagging of armoured service cable size 4CX 10 sq mm with length between 7m to 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble. This will include supply and installation of 'O' shapped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		434			0	0	0	184			0	0	-	-
15	SP/PP	Loop Connection for service cable size 2C X 4 sq mm/ 2C X 6 sq mm / 2C X 10 sq mm/ 4C X 10 sq mm/ 4C X 25 sq mm with length ≤ 6 M	Stringing of loop connection (length <= 6 meter) for service cable size 2C X 4 sq mm/ 2C X 6 sq mm / 2C X 10 sq mm/ 4C X 10 sq mm/ 4C X 25 sq mm with proper termination. This will include supply and installation of 'O' shapped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		17			0	0	0	16			0	0	-	-
16	PP	Service Cable Removal of any size used for Poly Phase connections	Removal of service cable of 4C X 10 sq mm / 4C X 25 sq mm or any other size used for Poly Phase Whole Current connections from pole/ LT Network and returning it back to scrap store if not utilised again	EA		868			0	0	0	80			0	0	-	-
17	SP-Testing	Single Phase Meter Accuracy test at site with Accucheck	Single Phase Testing with Accucheck (provided by TPCODL) to be done without opening any seal / opening seals in presence of authorised TPCODL Officers.	EA		534			0	0	0	485			0	0	-	-
18	PP - Testing	Three Phase Whole Current Meter Accuracy test at site with Accucheck	Polyphase Testing with Accucheck (provided by TPCODL) to be done without opening any seal / opening seals in presence of authorised TPCODL Officers..	EA		362			0	0	0	329			0	0	-	-
19	LTCT - Testing	LT CT Meter Accuracy test at site with Accucheck	LTCT Meter Testing with Accucheck (provided by TPCODL) to be done without opening any seal / opening seals in presence of authorised TPCODL Officers..	EA		188			0	0	0	171			0	0	-	-
20	HT CT Testing	Meter Accuracy test at site (HTCT)	HTCT Meter Testing to be done at site. Testing kit will be provided by TPCODL.	EA		70			0	0	0	64			0	0	-	-
21	HT CT Testing	CT PT unit Testing after taking shut down	Testing of HT CT Metering unit of 11 KV / 33 KV at various loads after taking shut down and isolating MU from the circuit and after testing restoring it back in circuit. Connection to the meter need to be isolated and then re-connected. This will be a 100% supervised job.	EA		70			0	0	0	64			0	0	-	-
22	LTCT	Smart DT Meter installation along with Meter Box and connection for CT / PT (For energy auditing of DTs)	Installation of Smart DT meters 100/5A, along with ring type CTs of various ratings, Meter Box, and associated accessories on LT side of transformers. Note : this activity excludes handling work at tranformer LT side.	EA		374			0	0	0	340			0	0	-	-
23	LTCT	Installation of 4C*50/4C*95 sq mm armoured service cable, O/H (Length up to 30M)	Stringing, sagging of armoured service cable size 4CX 50 sq mm with length upto 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble. (Saddles and Fastners are to be supplied by BA)	EA		224			0	0	0	204			0	0	-	-
24	LTCT	Installation of 4C*150 / 4C X 300 sq mm armoured service cable, O/H (Length up to 30M)	Stringing, sagging of armoured service cable size 4CX 95 sq mm / 4C X 150 sq mm with length upto 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble. (Saddles and Fastners are to be supplied by BA)	EA		75			0	0	0	68			0	0	-	-
25	HT	Meter Replacement - HT Meter Only	Replacement of any HT energy meter along with modem and its termination from Metering cubicle / CTPT unit	EA		13			0	0	0	7			0	0	-	-
26	HT	Meter Installation - HT Meter Only	Installation of any HT energy meter along with modem and its termination in Metering cubicle / CTPT unit	EA		18			0	0	0	2			0	0	-	-
27	HT	Meter Removal - HT Meter Only	Removal of any HT energy meter along with modem and its termination from Metering cubicle / CTPT unit	EA		13			0	0	0	2			0	0	-	-
28	HT	CTPT Installation - 11KV	Installation of new HT 11 KV out door Metering CTPT unit with or without meter, includes to & fro transportation (up to 50 KM), commissioning and energisation in all respect (i.e. connection in meter box from CTPT terminal block through control cable, pole mount CTPT unit erected at required height. Fix and Bolt CTPT unit, stand pipe flange, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CTPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door). All these activities are to be performed with crane of suitable capacity and all hardware will be in scope of BA except meter, MU and seals.	EA		10			0	0	0	4			0	0	-	-
29	HT	CTPT Installation - 33KV	Installation of new HT 33 KV out door Metering CTPT unit with or without meter, includes to & fro transportation (up to 50 KM), commissioning and energisation in all respect (i.e. connection in meter box from CTPT terminal block through control cable, pole mount CTPT unit erected at 30' height. Fix and Bolt CTPT unit, stand pipe flange, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CTPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door). Installation has to be done with crane of suitable capacity. All these activities are to be performed with crane of suitable capacity and all hardware will be in scope of BA except meter, MU and seals.	EA		3			0	0	0	1			0	0	-	-
30	HT	CTPT Removal- 11KV / 33KV	Dismantling of complete HT metering out door CTPT unit with or without meter, includes to & fro transportation (up to 50KM), removing and de-energisation in all respect (i.e. connection from meter box from CTPT terminal block through control cable, pole mount CTPT unit erected at 30' height. Fix and Bolt CTPT unit, stand pipe flange, two earth connections, HT cable ends termination removal, socket/ thimble crimp, stand pipe flanges removal, meter terminal cover, window and chamber door removal from site). Removed Metering material is to be returned back to Warranty and Scrap store	EA		13			0	0	0	2			0	0	-	-
31	HT	Replacement of CT PT Metering unit - 11KV	Replacement of out door HT metering unit of 11 KV along with replacement of control cable pipe , energy meter and allied accessories include to & fro transportation (upto 50 KM), commissioning and energisation in all respect (i.e. reconnection in meter box from CTPT terminal block through control cable, stand pipe flange replacement, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CTPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door). Note : Loading, Unloading, Installation of CT PT unit, Metering Cubicle at store, site through crane will be included in this cost.	EA		10			0	0	0	1			0	0	-	-
32	HT	Replacement of CT PT Metering unit - 33KV	Replacement of out door HT metering unit of 33 KV along with replacement of control cable pipe , energy meter and allied accessories include to & fro transportation (up to 50KM), commissioning and energisation in all respect (i.e. reconnection in meter box from CTPT terminal block through control cable, stand pipe flange replacement, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CTPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door). Note : Loading, Unloading, Installation of CT PT unit, Metering Cubicle at store, site through crane will be included in this cost.	EA		3			0	0	0	1			0	0	-	-

33	HT	Replacement of HT meter chamber OR Replacement / Shifting of control cable pipe with meter chamber for CPT unit (Transportation and lifting of MU is excluded)	Replacement of HT Metering chamber of HT 11 / 33 KV for out door Metering CPT unit, replacement of control cable pipe , energy meter and allied accessories include to & fro transportation, commissioning and energisation in all respect (i.e. reconnection in meter box from CPT terminal block through control cable, stand pipe flange replacement, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door). Note : This activity excludes transportation and lifting of metering unit.	EA	1	0	0	0	0	0	0	0	0	-	-
34	HT	Meter Installation - HT Meter (Travel charges in lot of 50 KM)	Rate for travel of HT Vehicle for additional travel in lot of 50 KM (over and above which is covered in activities where MU is to be transported) for a month. Rate for 50 KM additional mileage after rounding off to be charged. If more than one activity is performed at one site at a time, then this cost to be charged against only one activity.	EA	18	0	0	0	7	0	0	0	0	-	-
35	LT CT	LTCT Meter with box Installation (For 100/5 Amps & 200/5 Amps)	Installation of new LTCT meters with complete grouting, commissioning, supply of 8 Nos lugs and its crimping, energisation, communication of Meter and its allied accessories and seal installation with LTCT Meter box	EA	74	0	0	0	21	0	0	0	0	-	-
36	LT CT	LTCT Meter with box Removal - All Rating	Removal of any LTCT meters from site with de-energisation, Meter, modem and its allied accessories with meter box. This will include returning meters back to relevant central stores	EA	2	0	0	0	7	0	0	0	0	-	-
37	LT CT	Meter Replacement - LTCT Meter Only	Replacement of LTCT meter/ LTCT Smart meter of any rating i.e. 100/5A or 200/5A or 400/5A without box	EA	33	0	0	0	7	0	0	0	0	-	-
38	LTCT	Fault rectification in CT Meter pertaining to termination/LT Cable dressing.	Fault rectification includes termination (thimble / socket crimping, gland change, cable lead extension crimping and tightening) and cable dressing.	EA	3	0	0	0	3	0	0	0	0	-	-
39	SP/PP	Prefabricated GI Structure (Supply Item)/ kg	Prefabricated / GI structural angle/ channel/flats of different sizes, as per the site requirement	Kg	200	0	0	0	499	0	0	0	0	-	-
40	SP/PP	Installation of Bracket Angle/ service anchor/ suspension clamp/ slotted angle	Installation of GI Bracket for Anchoring service cable of size 50, 95 & 150 sqmm / Installation of Service Cable Anchor / Installation of Slotted angle on pole in case of 2x10/4x10/4x25 cable lying, on uncleaned poles. (Number of items used at one site shall be considered for billing).	EA	219	0	0	0	199	0	0	0	0	-	-
41	TS	NIC / Modem Troubleshooting with TAB/ Laptop / Anyother device	(in case - Laptop/Tab in BA's scope)	EA	2193	0	0	0	1,994	0	0	0	0	-	-
42	DD	Manul Meter Reading and SVR	Taking manual reading parameters from meter display, providing remarks with photographs where data can not be downloaded for reason not attributable to BA	EA	1097	0	0	0	997	0	0	0	0	-	-
43	DD	Data downloading of meters	Data downloading of any meter per case	EA	1097	0	0	0	997	0	0	0	0	-	-
44	PP	Minor reworking in CT Meter termination/LT Cable dressing during pole cleaning	Minor reworking includes termination (thimble / socket crimping, gland change, cable lead extension crimping and tightening) and cable dressing during pole cleaning.	EA	3	0	0	0	3	0	0	0	0	-	-
45	Protocol Punching	Punching of Protocols for field activities - Metering/Modem/Testing/Data download	Bidder has to punch protocol for Meter installation (Both Single Phase and Three Phase activity/Modem Installation / rectification / Meter Testing (HT and LT) activity / data downloading activity, with 5% QC. Bidder to create Data Centre for same at Circle HO with required staff, computers and Broadband connection.	EA	7865	0	0	0	7,150	0	0	0	0	-	-
46	LT CT	LTCT Meter box Installation - 400/5 Amps	Installation of new LTCT meters with complete grouting, commissioning, supply of 8 Nos lugs and its crimping, energisation, communication of Meter and its allied accessories and seal installation with LTCT Meter box	EA	1	0	0	0	0	0	0	0	0	-	-
47	FSE	FSE- New Connection / Pre-inspection / Attribute Change / SVR	Site verification of new connection / Attribute Change / SVR with capturing of details as mentioned in site verification form and capturing photographs. Further submission of SVR and file at respective division office.	EA	1000	0	0	0	2,194	0	0	0	0	-	-
48		Safety officer	Safety office shall be posted at division level and report to division incharge and shall be responsible for safety related to safety at respective divisions with Diploma in Electrical Safety with two years of experiences	EA	1	0	0	0	1	0	0	0	0	-	-
49		Divisional Coordinator	One in each Distribution Division with Graduate (conversant with excel sheet & should be able to prepare reports & do quality	EA	1	0	0	0	1	0	0	0	0	-	-
50		Helper-Tech	Helper with ITI-Electrical to be allotted wherever additional manpower is required for assisting existing 3 Phase team To accelerate the process of installation, apart from existing defined team for the 3 Phase activity, if required additional helper-with ITI Electrical may be allotted to the team as per requirement duly approved by EIC.	EA	2	0	0	0	2	0	0	0	0	-	-
Total All inc value										0				-	0

Schedule of items DED

Sr. No.	Activity Type	Item Short Description	Long Service Description	UoM	SAC Code	Prices for Year 1					Prices for Year 2					Grand Total
						Quantity	Unit Rate (Rs.)	Appl. Taxes & Duties	All Inclusive Unit Rate (Rs.)	Total All Inclusive Value for Year-1 (Rs.)	Quantity	Unit Rate (Rs.)	Appl. Taxes & Duties	All Inclusive Unit Rate (Rs.)	Total All Inclusive Value for Year-2 (Rs.)	
1	SP	Meter Installation - SP	Installation of 1 phase energy meter with / without meter box/ existing meter box / Panel/ with freedom unit and communication cable lying. This also includes cable of any length from meter to MCB / Cutout / Kit Kat Fuse. This will include supply and installation of 'O' shapped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable. This line item includes removal of meters, where consumer meter is removed and handed over to customer	EA		12656			0	0	0	9,766	0	0	-	-
2	SP	Meter Installation NSC-SP	Meter and 2C * 4 sq mm Cable Installatin for NSC Cases	EA		4404			0	0	0	4,004	0	0	-	-
3	SP	Meter Installation NSC-SP	Meter and 2C * 6 sq mm Cable Installation for NSC Cases	EA		1888			0	0	0	1,716	0	0	-	-
4	SP	Meter Removal - SP	Removal of any single phase meter with / without meter box/ existing meter box / from Panel/ with freedom unit and communication cable removal and submitting it back to Scrap / Warranty store after devaluation	EA		10125			0	0	0	7,813	0	0	-	-
5	SP	Installation of 2C*4 sq mm / 2C X 6 sq mm armoured, Cable O/H (Length 7M-30M)	Stringing, sagging of armoured service cable size 2CX 4 sq mm/ 2C X 6 sq mm with length between 7m to 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble required size. This will include supply and installation of 'O' shapped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		559			0	0	0	508	0	0	-	-
6	SP	Installation of 2C*6 sq mm armoured, Cable O/H (Length 7M-30M)	Stringing, sagging of armoured service cable size 2CX 6 sq mm with length between 7m to 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble / AB piercing connectors of required size. This will include supply and installation of 'O' shapped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		280			0	0	0	254	0	0	-	-
7	SP	Installation of 2C*10 sq mm armoured, Cable O/H (Length 7M-30M)	Stringing, sagging of armoured service cable size 2CX 10 sq mm with length between 7m to 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble / AB piercing connectors of required size. This will include supply and installation of 'O' shapped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		93			0	0	0	85	0	0	-	-
8	SP	Service Cable Removal of any size used for Single Phase connections	Removal of service cable of any size used for single Phase connections from pole/ LT Network and keeping unsafe custody to either re-use or return to scrap store / return to consumer if it pertains to consumer.	EA		932			0	0	0	847	0	0	-	-
9	SP / PP	Bus bar/ D/ Box Installation	Installation of any type of bus bar box / distribution box on wall along with supply of fastners / on pole with steel strap and buckles / piercing connect where LT mains in ABC. This will include supply and installation of 'O' shapped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		100			0	0	0	91	0	0	-	-
10	SP / PP	Bus bar/ D/ Box Removal	Removal of any type of bus bar box / distribution box from wall / from pole along with steel strap and buckles. This will include supply and installation of 'O' shapped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		10			0	0	0	9	0	0	-	-
11	PP	Meter Installation - PP	Installation of 3 phase whole current energy meter with / without meter box/ existing meter box / Panel. This will include supply and installation of 'O' shapped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		1766			0	0	0	867	0	0	-	-
12	PP	Meter Removal - PP	Removal of any Three phase whole current meter with / without meter box/ existing meter box / from Panel/ with freedom unit and communication cable removal and returning back too Central Store. This payment will be applicable only if meters are returned to concered central stores.	EA		1439			0	0	0	780	0	0	-	-
13	PP	Installation of 4C*25 sq mm armoured, Cable O/H (Length 7M-30M)	Stringing, sagging of armoured service cable size 4CX 25 sq mm with length between 7m to 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble / AB piercing connectors of required size.	EA		288			0	0	0	139	0	0	-	-
14	PP	Installation of 4C*10 sq mm armoured, Cable O/H (Length 7M-30M)	Stringing, sagging of armoured service cable size 4CX 10 sq mm with length between 7m to 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble. This will include supply and installation of 'O' shapped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		720			0	0	0	555	0	0	-	-
15	SP/PP	Loop Connection for service cable size 2C X 4 sq mm/ 2C X 6 sq mm / 2C X 10 sq mm/ 4C X 10 sq mm/ 4C X 25 sq mm with length ≤ 6 M	Stringing of loop connection (length <= 6 meter) for service cable size 2C X 4 sq mm/ 2C X 6 sq mm / 2C X 10 sq mm/ 4C X 10 sq mm/ 4C X 25 sq mm with proper termination. This will include supply and installation of 'O' shapped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		29			0	0	0	26	0	0	-	-
16	PP	Service Cable Removal of any size used for Poly Phase connections	Removal of service cable of 4C X 10 sq mm / 4C X 25 sq mm or any other size used for Poly Phase Whole Current connections from pole/ LT Network and returning it back to scrap store if not utilised again	EA		1439			0	0	0	432	0	0	-	-
17	SP-Testing	Single Phase Meter Accuracy test at site with Accucheck	Single Phase Testing with Accucheck (provided by TPCODL) to be done without opening any seal / opening seals in presence of authorised TPCODL Officers.	EA		998			0	0	0	907	0	0	-	-
18	PP - Testing	Three Phase Whole Current Meter Accuracy test at site with Accucheck	Polyphase Testing with Accucheck (provided by TPCODL) to be done without opening any seal / opening seals in presence of authorised TPCODL Officers..	EA		1222			0	0	0	1,111	0	0	-	-
19	LTCT - Testing	LT CT Meter Accuracy test at site with Accucheck	LTCT Meter Testing with Accucheck (provided by TPCODL) to be done without opening any seal / opening seals in presence of authorised TPCODL Officers..	EA		430			0	0	0	391	0	0	-	-
20	HT CT Testing	Meter Accuracy test at site (HTCT)	HTCT Meter Testing to be done at site. Testing kit will be provided by TPCODL.	EA		124			0	0	0	113	0	0	-	-
21	HT CT Testing	CT PT unit Testing after taking shut down	Testing of HT CT Metering unit of 11 KV / 33 KV at various loads after taking shut down and isolating MU from the circuit and after testing restoring it back in circuit. Connection to the meter need to be isolated and then re-connected. This will be a 100% supervised job.	EA		124			0	0	0	113	0	0	-	-
22	LTCT	Smart DT Meter installation along with Meter Box and connection for CT / PT (For energy auditing of DTs)	Installation of Smart DT meters 100/5A, along with ring type CTs of various ratings, Meter Box, and associated accessories on LT side of transformers. Note : this activity excludes handling work at tranformer LT side.	EA		578			0	0	0	525	0	0	-	-
23	LTCT	Installation of 4C*50/4C*95 sq mm armoured service cable, O/H (Length up to 30M)	Stringing, sagging of armoured service cable size 4CX 50 sq mm with length upto 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble. (Saddles and Fastners are to be supplied by BA)	EA		347			0	0	0	315	0	0	-	-
24	LTCT	Installation of 4C*150 / 4C X 300 sq mm armoured service cable, O/H (Length up to 30M)	Stringing, sagging of armoured service cable size 4CX 95 sq mm / 4C X 150 sq mm with length upto 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble. (Saddles and Fastners are to be supplied by BA)	EA		116			0	0	0	105	0	0	-	-
25	HT	Meter Replacement - HT Meter Only	Replacement of any HT energy meter along with modem and its termination from Metering cubicle / CTPT unit	EA		108			0	0	0	5	0	0	-	-
26	HT	Meter Installation - HT Meter Only	Installation of any HT energy meter along with modem and its termination in Metering cubicle / CTPT unit	EA		126			0	0	0	23	0	0	-	-
27	HT	Meter Removal - HT Meter Only	Removal of any HT energy meter along with modem and its termination from Metering cubicle / CTPT unit	EA		108			0	0	0	5	0	0	-	-
28	HT	CTPT Installation - 11KV	Installation of new HT 11 KV out door Metering CTPT unit with or without meter, includes to & fro transportation(up to 50 KM), commissioning and energisation in all respect (i.e. connection in meter box from CTPT terminal block through control cable, pole mount CTPT unit erected at required height. Fix and Bolt CTPT unit, stand pipe flange, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CTPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door).All these activities are to be performed with crane of suitable capacity and all hardware will be in scope of BA except meter, MU and seals.	EA		86			0	0	0	14	0	0	-	-
29	HT	CTPT Installation - 33KV	Installation of new HT 33 KV out door Metering CTPT unit with or without meter, includes to & fro transportation (up to 50 KM), commissioning and energisation in all respect (i.e. connection in meter box from CTPT terminal block through control cable, pole mount CTPT unit erected at 30' height. Fix and Bolt CTPT unit, stand pipe flange, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CTPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door). Installation has to be done with crane of suitable capacity. All these activities are to be performed with crane of suitable capacity and all hardware will be in scope of BA except meter, MU and seals.	EA		22			0	0	0	4	0	0	-	-
30	HT	CTPT Removal- 11KV / 33KV	Dismantling of complete HT metering out door CTPT unit with or without meter, includes to & fro transportation (up to 50KM), removing and de-energisation in all respect (i.e. connection from meter box from CTPT terminal block through control cable, pole mount CTPT unit erected at 30' height. Fix and Bolt CTPT unit, stand pipe flange, two earth connections, HT cable ends termination removal, socket/ thimble crimp, stand pipe flanges removal, meter terminal cover, window and chamber door removal from site). Removed Metering material is to be returned back to Warranty and Scrap store	EA		108			0	0	0	5	0	0	-	-
31	HT	Replacement of CT PT Metering unit - 11KV	Replacement of out door HT metering unit of 11 KV along with replacement of control cable pipe , energy meter and allied accessories include to & fro transportation(up to 50 KM), commissioning and energisation in all respect (i.e. reconnection in meter box from CTPT terminal block through control cable, stand pipe flange replacement, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CTPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door). Note : Loading, Unloading, Installation of CT PT unit, Metering Cubicle at store, site through crane will be included in this cost.	EA		86			0	0	0	3	0	0	-	-
32	HT	Replacement of CT PT Metering unit - 33KV	Replacement of out door HT metering unit of 33 KV along with replacement of control cable pipe , energy meter and allied accessories include to & fro transportation(up to 50KM), commissioning and energisation in all respect (i.e. reconnection in meter box from CTPT terminal block through control cable, stand pipe flange replacement, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CTPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door). Note : Loading, Unloading, Installation of CT PT unit, Metering Cubicle at store, site through crane will be included in this cost.	EA		22			0	0	0	2	0	0	-	-

33	HT	Replacement of HT meter chamber OR Replacement / Shifting of control cable pipe with meter chamber for CTPT unit (Transportation and lifting of MU is excluded)	Replacement of HT Metering chamber of HT 11 / 33 KV for out door Metering CTPT unit, replacement of control cable pipe , energy meter and allied accessories include to & fro transportation, commissioning and energisation in all respect (i.e. reconnection in meter box from CTPT terminal block through control cable, stand pipe flange replacement, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CTPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door). Note : This activity excludes transportation and lifting of metering unit.	EA	2	0	0	0	1	0	0	-	-
34	HT	Meter Installation - HT Meter (Travel charges in lot of 50 KM)	Rate for travel of HT Vehicle for additional travel in lot of 50 KM (over and above which is covered in activities where MU is to be transported) for a month. Rate for 50 KM additional mileage after rounding off to be charged. If more than one activity is performed at one site at a time, then this cost to be charged against only one activity.	EA	126	0	0	0	23	0	0	-	-
35	LT CT	LTCT Meter with box Installation (For 100/5 Amps & 200/5 Amps)	Installation of new LTCT meters with complete grouting, commissioning, supply of 8 Nos lugs and its crimping, energisation, communication of Meter and its allied accessories and seal installation with LTCT Meter box	EA	261	0	0	0	67	0	0	-	-
36	LT CT	LTCT Meter with box Removal - All Rating	Removal of any LTCT meters from site with de-energisation, Meter, modem and its allied accessories with meter box. This will include returning meters back to relevant central stores	EA	314	0	0	0	20	0	0	-	-
37	LT CT	Meter Replacement - LTCT Meter Only	Replacement of LTCT meter/ LTCT Smart meter of any rating i.e. 100/5A or 200/5A or 400/5A without box	EA	314	0	0	0	20	0	0	-	-
38	LTCT	Fault rectification in CT Meter pertaining to termination/LT Cable dressing.	Fault rectification includes termination (thimble / socket crimping, gland change, cable lead extension crimping and tightening) and cable dressing.	EA	8	0	0	0	8	0	0	-	-
39	SP/PP	Prefabricated GI Structure (Supply Item)/ kg	Prefabricated / GI structural angle/ channel/flats of different sizes, as per the site requirement	Kg	1111	0	0	0	1,010	0	0	-	-
40	SP/PP	Installation of Bracket Angle/ service anchor/ suspension clamp/ slotted angle	Installation of GI Bracket for Anchoring service cable of size 50, 95 & 150 sqmm / Installation of Service Cable Anchor / Installation of Slotted angle on pole in case of 2x10/4x10/4x25 cable lying, on uncleaned poles. (Number of items used at one site shall be considered for billing).	EA	741	0	0	0	673	0	0	-	-
41	TS	NIC / Modem Troubleshooting with TAB/ Laptop / Anyother device	(in case - Laptop/Tab in BA's scope)	EA	5555	0	0	0	5,050	0	0	-	-
42	DD	Manul Meter Reading and SVR	Taking manual reading parameters from meter display, providing remarks with photographs where data can not be downloaded for reason not attributable to BA	EA	3703	0	0	0	3,367	0	0	-	-
43	DD	Data downloading of meters	Data downloading of any meter per case	EA	3703	0	0	0	3,367	0	0	-	-
44	PP	Minor reworking in CT Meter termination/LT Cable dressing during pole cleaning	Minor reworking includes termination (thimble / socket crimping, gland change, cable lead extension crimping and tightening) and cable dressing during pole cleaning.	EA	8	0	0	0	8	0	0	-	-
45	Protocol Punching	Punching of Protocols for field activities - Metering/Modem/Testing/Data download	Bidder has to punch protocol for Meter installation (Both Single Phase and Three Phase activity/Modem Installation / rectification / Meter Testing (HT and LT) activity / data downloading activity, with 5% QC. Bidder to create Data Centre for same at Circle HO with required staff, computers and Broadband connection.	EA	30444	0	0	0	27,677	0	0	-	-
46	LT CT	LTCT Meter box Installation - 400/5 Amps	Installation of new LTCT meters with complete grouting, commissioning, supply of 8 Nos lugs and its crimping, energisation, communication of Meter and its allied accessories and seal installation with LTCT Meter box	EA	2	0	0	0	2	0	0	-	-
47	FSE	FSE- New Connection / Pre-inspection / Attribute Change / SVR	Site verification of new connection / Attribute Change / SVR with capturing of details as mentioned in site verification form and capturing photographs. Further submission of SVR and file at respective division office.	EA	1500	0	0	0	5,599	0	0	-	-
48		Safety officer	Safety office shall be posted at division level and report to division incharge and shall be responsible for safety related to safety at respective divisions with Diploma in Electrical Safety with two years of experiences	EA	1	0	0	0	1	0	0	-	-
49		Divisional Coordinator	One in each Distribution Division with Graduate (conversant with excel sheet & should be able to prepare reports & do quality	EA	1	0	0	0	1	0	0	-	-
50		Circle Coordinator	1no. Each attached to MRT HODs posted BBSR, Cuttack, Khurda, Dhnakanal, Paradip- 5nos and 5nos. At MRT HO level with Graduate (conversant with excel sheet & should be able to prepare reports & do quality	EA	1	0	0	0	1	0	0	-	-
51		Helper-Tech	Helper with ITI-Electrical to be allotted wherever additional manpower is required for assisting existing 3 Phase team To accelerate the process of installation, apart from existing defined team for the 3 Phase activity, If required additional helper-with ITI Electrical may be allotted to the team as per requirement duly approved by EIC.	EA	4	0	0	0	4	0	0	-	-
Total All inc value										0	0	0	0

Schedule of items ANED

Sr. No.	Activity Type	Item Short Description	Long Service Description	UoM	SAC Code	Prices for Year 1					Prices for Year 2					Grand Total		
						Quantity	Unit Rate (Rs.)	Appl. Taxes & Duties	All Inclusive Unit Rate (Rs.)	Total All Inclusive Value for Year-1 (Rs.)	Quantity	Unit Rate (Rs.)	Appl. Taxes & Duties	All Inclusive Unit Rate (Rs.)	Total All Inclusive Value for Year-2 (Rs.)			
																	A	B
1	SP	Meter Installation - SP	Installation of 1 phase energy meter with / without meter box/ existing meter box / Panel/ with freedom unit and communication cable lying. This also includes cable of any length from meter to MCB / Cutout / Kit Kat Fuse. This will include supply and installation of 'O' shaped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable. This line item includes removal of meters, where consumer meter is removed and handed over to customer	EA		6277			0	0	0	4,665			0	0	-	-
2	SP	Meter Installation NSC-SP	Meter and 2C * 4 sq mm Cable Installatin for NSC Cases	EA		4137			0	0	0	3,761			0	0	-	-
3	SP	Meter Installation NSC-SP	Meter and 2C * 6 sq mm Cable Installation for NSC Cases	EA		1773			0	0	0	1,612			0	0	-	-
4	SP	Meter Removal - SP	Removal of any single phase meter with / without meter box/ existing meter box / from Panel/ with freedom unit and communication cable removal and submitting it back to Scrap / Warranty store after devaluation	EA		5022			0	0	0	3,732			0	0	-	-
5	SP	Installation of 2C*4 sq mm / 2C X 6 sq mm armoured, Cable O/H (Length 7M-30M)	Stringing, sagging of armoured service cable size 2CX 4 sq mm/ 2C X 6 sq mm with length between 7m to 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble required size. This will include supply and installation of 'O' shaped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		583			0	0	0	530			0	0	-	-
6	SP	Installation of 2C*6 sq mm armoured, Cable O/H (Length 7M-30M)	Stringing, sagging of armoured service cable size 2CX 6 sq mm with length between 7m to 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble / AB piercing connectors of required size. This will include supply and installation of 'O' shaped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		291			0	0	0	265			0	0	-	-
7	SP	Installation of 2C*10 sq mm armoured, Cable O/H (Length 7M-30M)	Stringing, sagging of armoured service cable size 2CX 10 sq mm with length between 7m to 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble / AB piercing connectors of required size. This will include supply and installation of 'O' shaped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		97			0	0	0	88			0	0	-	-
8	SP	Service Cable Removal of any size used for Single Phase connections	Removal of service cable of any size used for single Phase connections from pole/ LT Network and keeping unsafe custody to either re-use or return to scrap store / return to consumer if it pertains to consumer.	EA		971			0	0	0	883			0	0	-	-
9	SP / PP	Bus bar/ D/ Box Installation	Installation of any type of bus bar box / distribution box on wall along with supply of fasteners / on pole with steel strap and buckles / piercing connect where LT mains in ABC. This will include supply and installation of 'O' shaped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		54			0	0	0	50			0	0	-	-
10	SP / PP	Bus bar/ D/ Box Removal	Removal of any type of bus bar box / distribution box from wall / from pole along with steel strap and buckles. This will include supply and installation of 'O' shaped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		5			0	0	0	5			0	0	-	-
11	PP	Meter Installation - PP	Installation of 3 phase whole current energy meter with / without meter box/ existing meter box / Panel. This will include supply and installation of 'O' shaped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		2722			0	0	0	977			0	0	-	-
12	PP	Meter Removal - PP	Removal of any Three phase whole current meter with / without meter box/ existing meter box / from Panel/ with freedom unit and communication cable removal and returning back too Central Store. This payment will be applicable only if meters are returned to concered central stores.	EA		2245			0	0	0	879			0	0	-	-
13	PP	Installation of 4C*25 sq mm armoured, Cable O/H (Length 7M-30M)	Stringing, sagging of armoured service cable size 4CX 25 sq mm with length between 7m to 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble / AB piercing connectors of required size.	EA		449			0	0	0	156			0	0	-	-
14	PP	Installation of 4C*10 sq mm armoured, Cable O/H (Length 7M-30M)	Stringing, sagging of armoured service cable size 4CX 10 sq mm with length between 7m to 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble. This will include supply and installation of 'O' shaped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		1123			0	0	0	625			0	0	-	-
15	SP/PP	Loop Connection for service cable size 2C X 4 sq mm/ 2C X 6 sq mm / 2C X 10 sq mm/ 4C X 10 sq mm/ 4C X 25 sq mm with length ≤ 6 M	Stringing of loop connection (length <= 6 meter) for service cable size 2C X 4 sq mm/ 2C X 6 sq mm / 2C X 10 sq mm/ 4C X 10 sq mm/ 4C X 25 sq mm with proper termination. This will include supply and installation of 'O' shaped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		45			0	0	0	41			0	0	-	-
16	PP	Service Cable Removal of any size used for Poly Phase connections	Removal of service cable of 4C X 10 sq mm / 4C X 25 sq mm or any other size used for Poly Phase Whole Current connections from pole/ LT Network and returning it back to scrap store if not utilised again	EA		2245			0	0	0	400			0	0	-	-
17	SP-Testing	Single Phase Meter Accuracy test at site with Accucheck	Single Phase Testing with Accucheck (provided by TPCODL) to be done without opening any seal / opening seals in presence of authorised TPCODL Officers.	EA		545			0	0	0	495			0	0	-	-
18	PP - Testing	Three Phase Whole Current Meter Accuracy test at site with Accucheck	Polyphase Testing with Accucheck (provided by TPCODL) to be done without opening any seal / opening seals in presence of authorised TPCODL Officers..	EA		1248			0	0	0	1,134			0	0	-	-
19	LTCT - Testing	LT CT Meter Accuracy test at site with Accucheck	LTCT Meter Testing with Accucheck (provided by TPCODL) to be done without opening any seal / opening seals in presence of authorised TPCODL Officers..	EA		439			0	0	0	399			0	0	-	-
20	HT CT Testing	Meter Accuracy test at site (HTCT)	HTCT Meter Testing to be done at site. Testing kit will be provided by TPCODL.	EA		127			0	0	0	115			0	0	-	-
21	HT CT Testing	CT PT unit Testing after taking shut down	Testing of HT CT Metering unit of 11 KV / 33 KV at various loads after taking shut down and isolating MU from the circuit and after testing restoring it back in circuit. Connection to the meter need to be isolated and then re-connected. This will be a 100% supervised job.	EA		127			0	0	0	115			0	0	-	-
22	LTCT	Smart DT Meter installation along with Meter Box and connection for CT / PT (For energy auditing of DTs)	Installation of Smart DT meters 100/5A, along with ring type CTs of various ratings, Meter Box, and associated accessories on LT side of transformers. Note : this activity excludes handling work at tranformer LT side.	EA		776			0	0	0	705			0	0	-	-
23	LTCT	Installation of 4C*50/4C*95 sq mm armoured service cable, O/H (Length up to 30M)	Stringing, sagging of armoured service cable size 4CX 50 sq mm with length upto 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble. (Saddles and Fastners are to be supplied by BA)	EA		466			0	0	0	423			0	0	-	-
24	LTCT	Installation of 4C*150 / 4C X 300 sq mm armoured service cable, O/H (Length up to 30M)	Stringing, sagging of armoured service cable size 4CX 95 sq mm / 4C X 150 sq mm with length upto 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble. (Saddles and Fastners are to be supplied by BA)	EA		155			0	0	0	141			0	0	-	-
25	HT	Meter Replacement - HT Meter Only	Replacement of any HT energy meter along with modem and its termination from Metering cubicle / CTPT unit	EA		31			0	0	0	5			0	0	-	-
26	HT	Meter Installation - HT Meter Only	Installation of any HT energy meter along with modem and its termination in Metering cubicle / CTPT unit	EA		56			0	0	0	22			0	0	-	-
27	HT	Meter Removal - HT Meter Only	Removal of any HT energy meter along with modem and its termination from Metering cubicle / CTPT unit	EA		31			0	0	0	5			0	0	-	-
28	HT	CTPT Installation - 11KV	Installation of new HT 11 KV out door Metering CTPT unit with or without meter, includes to & fro transportation (up to 50 KM), commissioning and energisation in all respect (i.e. connection in meter box from CTPT terminal block through control cable, pole mount CTPT unit erected at required height. Fix and Bolt CTPT unit, stand pipe flange, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CTPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door). All these activities are to be performed with crane of suitable capacity and all hardware will be in scope of BA except meter, MU and seals.	EA		31			0	0	0	13			0	0	-	-
29	HT	CTPT Installation - 33KV	Installation of new HT 33 KV out door Metering CTPT unit with or without meter, includes to & fro transportation (up to 50 KM), commissioning and energisation in all respect (i.e. connection in meter box from CTPT terminal block through control cable, pole mount CTPT unit erected at 30' height. Fix and Bolt CTPT unit, stand pipe flange, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CTPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door). Installation has to be done with crane of suitable capacity. All these activities are to be performed with crane of suitable capacity and all hardware will be in scope of BA except meter, MU and seals.	EA		8			0	0	0	3			0	0	-	-
30	HT	CTPT Removal- 11KV / 33KV	Dismantling of complete HT metering out door CTPT unit with or without meter, includes to & fro transportation (up to 50KM), removing and de-energisation in all respect (i.e. connection from meter box from CTPT terminal block through control cable, pole mount CTPT unit erected at 30' height. Fix and Bolt CTPT unit, stand pipe flange, two earth connections, HT cable ends termination removal, socket/ thimble crimp, stand pipe flanges removal, meter terminal cover, window and chamber door removal from site). Removed Metering material is to be returned back to Warranty and Scrap store	EA		39			0	0	0	5			0	0	-	-
31	HT	Replacement of CT PT Metering unit - 11KV	Replacement of out door HT metering unit of 11 KV along with replacement of control cable pipe , energy meter and allied accessories include to & fro transportation (upto 50 KM), commissioning and energisation in all respect (i.e. reconnection in meter box from CTPT terminal block through control cable, stand pipe flange replacement, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CTPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door). Note : Loading, Unloading, Installation of CT PT unit, Metering Cubicle at store, site through crane will be included in this cost.	EA		31			0	0	0	4			0	0	-	-
32	HT	Replacement of CT PT Metering unit - 33KV	Replacement of out door HT metering unit of 33 KV along with replacement of control cable pipe , energy meter and allied accessories include to & fro transportation (up to 50KM), commissioning and energisation in all respect (i.e. reconnection in meter box from CTPT terminal block through control cable, stand pipe flange replacement, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CTPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door). Note : Loading, Unloading, Installation of CT PT unit, Metering Cubicle at store, site through crane will be included in this cost.	EA		8			0	0	0	1			0	0	-	-

33	HT	Replacement of HT meter chamber OR Replacement / Shifting of control cable pipe with meter chamber for CTPT unit (Transportation and lifting of MU is excluded)	Replacement of HT Metering chamber of HT 11 / 33 KV for out door Metering CTPT unit, replacement of control cable pipe , energy meter and allied accessories include to & fro transportation, commissioning and energisation in all respect (i.e. reconnection in meter box from CTPT terminal block through control cable, stand pipe flange replacement, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CTPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door). Note : This activity excludes transportation and lifting of metering unit.	EA	2	0	0	0	2	0	0	-	-
34	HT	Meter Installation - HT Meter (Travel charges in lot of 50 KM)	Rate for travel of HT Vehicle for additional travel in lot of 50 KM (over and above which is covered in activities where MU is to be transported) for a month. Rate for 50 KM additional mileage after rounding off to be charged. If more than one activity is performed at one site at a time, then this cost to be charged against only one activity.	EA	56	0	0	0	23	0	0	-	-
35	LT CT	LTCT Meter with box Installation (For 100/5 Amps & 200/5 Amps)	Installation of new LTCT meters with complete grouting, commissioning, supply of 8 Nos lugs and its crimping, energisation, communication of Meter and its allied accessories and seal installation with LTCT Meter box	EA	217	0	0	0	37	0	0	-	-
36	LT CT	LTCT Meter with box Removal - All Rating	Removal of any LTCT meters from site with de-energisation, Meter, modem and its allied accessories with meter box. This will include returning meters back to relevant central stores	EA	190	0	0	0	10	0	0	-	-
37	LT CT	Meter Replacement - LTCT Meter Only	Replacement of LTCT meter/ LTCT Smart meter of any rating i.e. 100/5A or 200/5A or 400/5A without box	EA	190	0	0	0	10	0	0	-	-
38	LTCT	Fault rectification in CT Meter pertaining to termination/LT Cable dressing.	Fault rectification includes termination (thimble / socket crimping, gland change, cable lead extension crimping and tightening) and cable dressing.	EA	9	0	0	0	8	0	0	-	-
39	SP/PP	Prefabricated GI Structure (Supply Item)/ kg	Prefabricated / GI structural angle/ channel/flats of different sizes, as per the site requirement	Kg	1134	0	0	0	1,031	0	0	-	-
40	SP/PP	Installation of Bracket Angle/ service anchor/ suspension clamp/ slotted angle	Installation of GI Bracket for Anchoring service cable of size 50, 95 & 150 sqmm / Installation of Service Cable Anchor / Installation of Slotted angle on pole in case of 2x10/4x10/4x25 cable lying, on uncleaned poles. (Number of items used at one site shall be considered for billing).	EA	756	0	0	0	687	0	0	-	-
41	TS	NIC / Modem Troubleshooting with TAB/ Laptop / Anyother device	(in case - Laptop/Tab in BA's scope)	EA	5672	0	0	0	5,156	0	0	-	-
42	DD	Manul Meter Reading and SVR	Taking manual reading parameters from meter display, providing remarks with photographs where data can not be downloaded for reason not attributable to BA	EA	3781	0	0	0	3,437	0	0	-	-
43	DD	Data downloading of meters	Data downloading of any meter per case	EA	3781	0	0	0	3,437	0	0	-	-
44	PP	Minor reworking in CT Meter termination/LT Cable dressing during pole cleaning	Minor reworking includes termination (thimble / socket crimping, gland change, cable lead extension crimping and tightening) and cable dressing during pole cleaning.	EA	9	0	0	0	8	0	0	-	-
45	Protocol Punching	Punching of Protocols for field activities - Metering/Modem/Testing/Data download	Bidder has to punch protocol for Meter installation (Both Single Phase and Three Phase activity/Modem Installation / rectification / Meter Testing (HT and LT) activity / data downloading activity, with 5% QC. Bidder to create Data Centre for same at Circle HO with required staff, computers and Broadband connection.	EA	31085	0	0	0	28,259	0	0	-	-
46	LT CT	LTCT Meter box Installation - 400/5 Amps	Installation of new LTCT meters with complete grouting, commissioning, supply of 8 Nos lugs and its crimping, energisation, communication of Meter and its allied accessories and seal installation with LTCT Meter box	EA	2	0	0	0	2	0	0	-	-
47	FSE	FSE- New Connection / Pre-inspection / Attribute Change / SVR	Site verification of new connection / Attribute Change / SVR with capturing of details as mentioned in site verification form and capturing photographs. Further submission of SVR and file at respective division office.	EA	1500	0	0	0	5,717	0	0	-	-
48		Safety officer	Safety office shall be posted at division level and report to division incharge and shall be responsible for safety related to safety at respective divisions with Diploma in Electrical Safety with two years of experiences	EA	1	0	0	0	1	0	0	-	-
49		Divisional Coordinator	One in each Distribution Division with Graduate (conversant with excel sheet & should be able to prepare reports & do quality	EA	1	0	0	0	1	0	0	-	-
50		Circle Coordinator	1no. Each attached to MRT HODs posted BBSR, Cuttack, Khurda, Dhnakanal, Paradip- 5nos and 5nos. At MRT HO level with Graduate (conversant with excel sheet & should be able to prepare reports & do quality	EA	1	0	0	0	1	0	0	-	-
51		Helper-Tech	Helper with ITI-Electrical to be allotted wherever additional manpower is required for assisting existing 3 Phase team To accelerate the process of installation, apart from existing defined team for the 3 Phase activity, If required additional helper-with ITI Electrical may be allotted to the team as per requirement duly approved by EIC.	EA	5	0	0	0	5	0	0	-	-
Total All inc value										0	0	0	0

Schedule of items TED

Sr. No.	Activity Type	Item Short Description	Long Service Description	UoM	SAC Code	Prices for Year 1					Prices for Year 2					Grand Total	
						Quantity	Unit Rate (Rs.)	Appl. Taxes & Duties	All Inclusive Unit Rate (Rs.)	Total All Inclusive Value for Year-1 (Rs.)	Quantity	Unit Rate (Rs.)	Appl. Taxes & Duties	All Inclusive Unit Rate (Rs.)	Total All Inclusive Value for Year-2 (Rs.)		
																	A
1	SP	Meter Installation - SP	Installation of 1 phase energy meter with / without meter box/ existing meter box / Panel/ with freedom unit and communication cable lying. This also includes cable of any length from meter to MCB / Cutout / Kit Kat Fuse. This will include supply and installation of 'O' shapped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable. This line item includes removal of meters, where consumer meter is removed and handed over to customer	EA		9209			0	0	0	6,926		0	0	-	-
2	SP	Meter Installation NSC-SP	Meter and 2C * 4 sq mm Cable Installatin for NSC Cases	EA		3730			0	0	0	3,391		0	0	-	-
3	SP	Meter Installation NSC-SP	Meter and 2C * 6 sq mm Cable Installation for NSC Cases	EA		1598			0	0	0	1,453		0	0	-	-
4	SP	Meter Removal - SP	Removal of any single phase meter with / without meter box/ existing meter box / from Panel/ with freedom unit and communication cable removal and submitting it back to Scrap / Warranty store after devaluation	EA		7367			0	0	0	5,541		0	0	-	-
5	SP	Installation of 2C*4 sq mm / 2C X 6 sq mm armoured, Cable O/H (Length 7M-30M)	Stringing, sagging of armoured service cable size 2CX 4 sq mm/ 2C X 6 sq mm with length between 7m to 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble required size. This will include supply and installation of 'O' shapped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		880			0	0	0	800		0	0	-	-
6	SP	Installation of 2C*6 sq mm armoured, Cable O/H (Length 7M-30M)	Stringing, sagging of armoured service cable size 2CX 6 sq mm with length between 7m to 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble / AB piercing connectors of required size. This will include supply and installation of 'O' shapped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		440			0	0	0	400		0	0	-	-
7	SP	Installation of 2C*10 sq mm armoured, Cable O/H (Length 7M-30M)	Stringing, sagging of armoured service cable size 2CX 10 sq mm with length between 7m to 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble / AB piercing connectors of required size. This will include supply and installation of 'O' shapped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		147			0	0	0	133		0	0	-	-
8	SP	Service Cable Removal of any size used for Single Phase connections	Removal of service cable of any size used for single Phase connections from pole/ LT Network and keeping unsafe custody to either re-use or return to scrap store / return to consumer if it pertains to consumer.	EA		1467			0	0	0	1,334		0	0	-	-
9	SP / PP	Bus bar/ D/ Box Installation	Installation of any type of bus bar box / distribution box on wall along with supply of fastners / on pole with steel strap and buckles / piercing connect where LT mains in ABC. This will include supply and installation of 'O' shapped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		66			0	0	0	60		0	0	-	-
10	SP / PP	Bus bar/ D/ Box Removal	Removal of any type of bus bar box / distribution box from wall / from pole along with steel strap and buckles. This will include supply and installation of 'O' shapped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		7			0	0	0	6		0	0	-	-
11	PP	Meter Installation - PP	Installation of 3 phase whole current energy meter with / without meter box/ existing meter box / Panel. This will include supply and installation of 'O' shapped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		1450			0	0	0	531		0	0	-	-
12	PP	Meter Removal - PP	Removal of any Three phase whole current meter with / without meter box/ existing meter box / from Panel/ with freedom unit and communication cable removal and returning back too Central Store. This payment will be applicable only if meters are returned to concered central stores.	EA		1189			0	0	0	478		0	0	-	-
13	PP	Installation of 4C*25 sq mm armoured, Cable O/H (Length 7M-30M)	Stringing, sagging of armoured service cable size 4CX 25 sq mm with length between 7m to 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble / AB piercing connectors of required size.	EA		238			0	0	0	85		0	0	-	-
14	PP	Installation of 4C*10 sq mm armoured, Cable O/H (Length 7M-30M)	Stringing, sagging of armoured service cable size 4CX 10 sq mm with length between 7m to 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble. This will include supply and installation of 'O' shapped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		595			0	0	0	340		0	0	-	-
15	SP/PP	Loop Connection for service cable size 2C X 4 sq mm/ 2C X 6 sq mm / 2C X 10 sq mm/ 4C X 10 sq mm/ 4C X 25 sq mm with length ≤ 6 M	Stringing of loop connection (length <= 6 meter) for service cable size 2C X 4 sq mm/ 2C X 6 sq mm / 2C X 10 sq mm/ 4C X 10 sq mm/ 4C X 25 sq mm with proper termination. This will include supply and installation of 'O' shapped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		24			0	0	0	22		0	0	-	-
16	PP	Service Cable Removal of any size used for Poly Phase connections	Removal of service cable of 4C X 10 sq mm / 4C X 25 sq mm or any other size used for Poly Phase Whole Current connections from pole/ LT Network and returning it back to scrap store if not utilised again	EA		1189			0	0	0	216		0	0	-	-
17	SP-Testing	Single Phase Meter Accuracy test at site with Accucheck	Single Phase Testing with Accucheck (provided by TPCODL) to be done without opening any seal / opening seals in presence of authorised TPCODL Officers.	EA		657			0	0	0	598		0	0	-	-
18	PP - Testing	Three Phase Whole Current Meter Accuracy test at site with Accucheck	Polyphase Testing with Accucheck (provided by TPCODL) to be done without opening any seal / opening seals in presence of authorised TPCODL Officers..	EA		829			0	0	0	754		0	0	-	-
19	LTCT - Testing	LT CT Meter Accuracy test at site with Accucheck	LTCT Meter Testing with Accucheck (provided by TPCODL) to be done without opening any seal / opening seals in presence of authorised TPCODL Officers..	EA		292			0	0	0	265		0	0	-	-
20	HT CT Testing	Meter Accuracy test at site (HTCT)	HTCT Meter Testing to be done at site. Testing kit will be provided by TPCODL.	EA		84			0	0	0	77		0	0	-	-
21	HT CT Testing	CT PT unit Testing after taking shut down	Testing of HT CT Metering unit of 11 KV / 33 KV at various loads after taking shut down and isolating MU from the circuit and after testing restoring it back in circuit. Connection to the meter need to be isolated and then re-connected. This will be a 100% supervised job.	EA		84			0	0	0	77		0	0	-	-
22	LTCT	Smart DT Meter installation along with Meter Box and connection for CT / PT (For energy auditing of DTs)	Installation of Smart DT meters 100/5A, along with ring type CTs of various ratings, Meter Box, and associated accessories on LT side of transformers. Note : this activity excludes handling work at tranformer LT side.	EA		688			0	0	0	625		0	0	-	-
23	LTCT	Installation of 4C*50/4C*95 sq mm armoured service cable, O/H (Length up to 30M)	Stringing, sagging of armoured service cable size 4CX 50 sq mm with length upto 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble. (Saddles and Fastners are to be supplied by BA)	EA		413			0	0	0	375		0	0	-	-
24	LTCT	Installation of 4C*150 / 4C X 300 sq mm armoured service cable, O/H (Length up to 30M)	Stringing, sagging of armoured service cable size 4CX 95 sq mm / 4C X 150 sq mm with length upto 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble. (Saddles and Fastners are to be supplied by BA)	EA		138			0	0	0	125		0	0	-	-
25	HT	Meter Replacement - HT Meter Only	Replacement of any HT energy meter along with modem and its termination from Metering cubicle / CTPT unit	EA		29			0	0	0	5		0	0	-	-
26	HT	Meter Installation - HT Meter Only	Installation of any HT energy meter along with modem and its termination in Metering cubicle / CTPT unit	EA		47			0	0	0	23		0	0	-	-
27	HT	Meter Removal - HT Meter Only	Removal of any HT energy meter along with modem and its termination from Metering cubicle / CTPT unit	EA		29			0	0	0	5		0	0	-	-
28	HT	CTPT Installation - 11KV	Installation of new HT 11 KV out door Metering CTPT unit with or without meter, includes to & fro transportation (up to 50 KM), commissioning and energisation in all respect (i.e. connection in meter box from CTPT terminal block through control cable, pole mount CTPT unit erected at required height. Fix and Bolt CTPT unit, stand pipe flange, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CTPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door).All these activities are to be performed with crane of suitable capacity and all hardware will be in scope of BA except meter, MU and seals.	EA		38			0	0	0	14		0	0	-	-
29	HT	CTPT Installation - 33KV	Installation of new HT 33 KV out door Metering CTPT unit with or without meter, includes to & fro transportation (up to 50 KM), commissioning and energisation in all respect (i.e. connection in meter box from CTPT terminal block through control cable, pole mount CTPT unit erected at 30' height. Fix and Bolt CTPT unit, stand pipe flange, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CTPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door). Installation has to be done with crane of suitable capacity. All these activities are to be performed with crane of suitable capacity and all hardware will be in scope of BA except meter, MU and seals.	EA		9			0	0	0	4		0	0	-	-
30	HT	CTPT Removal- 11KV / 33KV	Dismantling of complete HT metering out door CTPT unit with or without meter, includes to & fro transportation (up to 50KM), removing and de-energisation in all respect (i.e. connection from meter box from CTPT terminal block through control cable, pole mount CTPT unit erected at 30' height. Fix and Bolt CTPT unit, stand pipe flange, two earth connections, HT cable ends termination removal, socket/ thimble crimp, stand pipe flanges removal, meter terminal cover, window and chamber door removal from site). Removed Metering material is to be returned back to Warranty and Scrap store	EA		29			0	0	0	5		0	0	-	-
31	HT	Replacement of CT PT Metering unit - 11KV	Replacement of out door HT metering unit of 11 KV along with replacement of control cable pipe , energy meter and allied accessories include to & fro transportation (upto 50 KM), commissioning and energisation in all respect (i.e. reconnection in meter box from CTPT terminal block through control cable, stand pipe flange replacement, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CTPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door). Note : Loading, Unloading, Installation of CT PT unit, Metering Cubicle at store, site through crane will be included in this cost.	EA		23			0	0	0	3		0	0	-	-
32	HT	Replacement of CT PT Metering unit - 33KV	Replacement of out door HT metering unit of 33 KV along with replacement of control cable pipe , energy meter and allied accessories include to & fro transportation (up to 50KM), commissioning and energisation in all respect (i.e. reconnection in meter box from CTPT terminal block through control cable, stand pipe flange replacement, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CTPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door). Note : Loading, Unloading, Installation of CT PT unit, Metering Cubicle at store, site through crane will be included in this cost.	EA		6			0	0	0	2		0	0	-	-

33	HT	Replacement of HT meter chamber OR Replacement / Shifting of control cable pipe with meter chamber for CPT unit (Transportation and lifting of MU is excluded)	Replacement of HT Metering chamber of HT 11 / 33 KV for out door Metering CPT unit, replacement of control cable pipe , energy meter and allied accessories include to & fro transportation, commissioning and energisation in all respect (i.e. reconnection in meter box from CPT terminal block through control cable, stand pipe flange replacement, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door). Note : This activity excludes transportation and lifting of metering unit.	EA	1	0	0	0	1	0	0	-	-
34	HT	Meter Installation - HT Meter (Travel charges in lot of 50 KM)	Rate for travel of HT Vehicle for additional travel in lot of 50 KM (over and above which is covered in activities where MU is to be transported) for a month. Rate for 50 KM additional mileage after rounding off to be charged. If more than one activity is performed at one site at a time, then this cost to be charged against only one activity.	EA	47	0	0	0	23	0	0	-	-
35	LT CT	LTCT Meter with box Installation (For 100/5 Amps & 200/5 Amps)	Installation of new LTCT meters with complete grouting, commissioning, supply of 8 Nos lugs and its crimping, energisation, communication of Meter and its allied accessories and seal installation with LTCT Meter box	EA	247	0	0	0	56	0	0	-	-
36	LT CT	LTCT Meter with box Removal - All Rating	Removal of any LTCT meters from site with de-energisation, Meter, modem and its allied accessories with meter box. This will include returning meters back to relevant central stores	EA	201	0	0	0	10	0	0	-	-
37	LT CT	Meter Replacement - LTCT Meter Only	Replacement of LTCT meter/ LTCT Smart meter of any rating i.e. 100/5A or 200/5A or 400/5A without box	EA	201	0	0	0	10	0	0	-	-
38	LTCT	Fault rectification in CT Meter pertaining to termination/LT Cable dressing.	Fault rectification includes termination (thimble / socket crimping, gland change, cable lead extension crimping and tightening) and cable dressing.	EA	6	0	0	0	5	0	0	-	-
39	SP/PP	Prefabricated GI Structure (Supply Item)/ kg	Prefabricated / GI structural angle/ channel/flats of different sizes, as per the site requirement	Kg	754	0	0	0	685	0	0	-	-
40	SP/PP	Installation of Bracket Angle/ service anchor/ suspension clamp/ slotted angle	Installation of GI Bracket for Anchoring service cable of size 50, 95 & 150 sqmm / Installation of Service Cable Anchor / Installation of Slotted angle on pole in case of 2x10/4x10/4x25 cable lying, on uncleaned poles. (Number of items used at one site shall be considered for billing).	EA	502	0	0	0	457	0	0	-	-
41	TS	NIC / Modem Troubleshooting with TAB/ Laptop / Anyother device	(in case - Laptop/Tab in BA's scope)	EA	3769	0	0	0	3,426	0	0	-	-
42	DD	Manul Meter Reading and SVR	Taking manual reading parameters from meter display, providing remarks with photographs where data can not be downloaded for reason not attributable to BA	EA	2512	0	0	0	2,284	0	0	-	-
43	DD	Data downloading of meters	Data downloading of any meter per case	EA	2512	0	0	0	2,284	0	0	-	-
44	PP	Minor reworking in CT Meter termination/LT Cable dressing during pole cleaning	Minor reworking includes termination (thimble / socket crimping, gland change, cable lead extension crimping and tightening) and cable dressing during pole cleaning.	EA	6	0	0	0	5	0	0	-	-
45	Protocol Punching	Punching of Protocols for field activities - Metering/Modem/Testing/Data download	Bidder has to punch protocol for Meter installation (Both Single Phase and Three Phase activity/Modem Installation / rectification / Meter Testing (HT and LT) activity / data downloading activity, with 5% QC. Bidder to create Data Centre for same at Circle HO with required staff, computers and Broadband connection.	EA	20655	0	0	0	18,778	0	0	-	-
46	LT CT	LTCT Meter box Installation - 400/5 Amps	Installation of new LTCT meters with complete grouting, commissioning, supply of 8 Nos lugs and its crimping, energisation, communication of Meter and its allied accessories and seal installation with LTCT Meter box	EA	1	0	0	0	1	0	0	-	-
47	FSE	FSE- New Connection / Pre-inspection / Attribute Change / SVR	Site verification of new connection / Attribute Change / SVR with capturing of details as mentioned in site verification form and capturing photographs. Further submission of SVR and file at respective division office.	EA	1000	0	0	0	3,799	0	0	-	-
48		Safety officer	Safety office shall be posted at division level and report to division incharge and shall be responsible for safety related to safety at respective divisions with Diploma in Electrical Safety with two years of experiences	EA	1	0	0	0	1	0	0	-	-
49		Divisional Coordinator	One in each Distribution Division with Graduate (conversant with excel sheet & should be able to prepare reports & do quality	EA	1	0	0	0	1	0	0	-	-
50		Helper-Tech	Helper with ITI-Electrical to be allotted wherever additional manpower is required for assisting existing 3 Phase team To accelerate the process of installation, apart from existing defined team for the 3 Phase activity, if required additional helper-with ITI Electrical may be allotted to the team as per requirement duly approved by EIC.	EA	4	0	0	0	4	0	0	-	-
Total All inc value									0			0	0

Schedule of items KED1

Sr. No.	Activity Type	Item Short Description	Long Service Description	UoM	SAC Code	Prices for Year 1					Prices for Year 2					Grand Total		
						Quantity	Unit Rate (Rs.)	Appl. Taxes & Duties	All Inclusive Unit Rate (Rs.)	Total All Inclusive Value for Year-1 (Rs.)	Quantity	Unit Rate (Rs.)	Appl. Taxes & Duties	All Inclusive Unit Rate (Rs.)	Total All Inclusive Value for Year-2 (Rs.)			
																	A	B
1	SP	Meter Installation - SP	Installation of 1 phase energy meter with / without meter box/ existing meter box / Panel/ with freedom unit and communication cable lying. This also includes cable of any length from meter to MCB / Cutout / Kit Kat Fuse. This will include supply and installation of 'O' shaped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable. This line item includes removal of meters, where consumer meter is removed and handed over to customer	EA		22088			0	0	0	11,891			0	0	-	-
2	SP	Meter Installation NSC-SP	Meter and 2C * 4 sq mm Cable Installatin for NSC Cases	EA		4689			0	0	0	4,263			0	0	-	-
3	SP	Meter Installation NSC-SP	Meter and 2C * 6 sq mm Cable Installation for NSC Cases	EA		2010			0	0	0	1,827			0	0	-	-
4	SP	Meter Removal - SP	Removal of any single phase meter with / without meter box/ existing meter box / from Panel/ with freedom unit and communication cable removal and submitting it back to Scrap / Warranty store after devaluation	EA		17670			0	0	0	9,513			0	0	-	-
5	SP	Installation of 2C*4 sq mm / 2C X 6 sq mm armoured, Cable O/H (Length 7M-30M)	Stringing, sagging of armoured service cable size 2CX 4 sq mm/ 2C X 6 sq mm with length between 7m to 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble required size. This will include supply and installation of 'O' shaped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		356			0	0	0	324			0	0	-	-
6	SP	Installation of 2C*6 sq mm armoured, Cable O/H (Length 7M-30M)	Stringing, sagging of armoured service cable size 2CX 6 sq mm with length between 7m to 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble / AB piercing connectors of required size. This will include supply and installation of 'O' shaped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		178			0	0	0	162			0	0	-	-
7	SP	Installation of 2C*10 sq mm armoured, Cable O/H (Length 7M-30M)	Stringing, sagging of armoured service cable size 2CX 10 sq mm with length between 7m to 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble / AB piercing connectors of required size. This will include supply and installation of 'O' shaped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		59			0	0	0	54			0	0	-	-
8	SP	Service Cable Removal of any size used for Single Phase connections	Removal of service cable of any size used for single Phase connections from pole/ LT Network and keeping unsafe custody to either re-use or return to scrap store / return to consumer if it pertains to consumer.	EA		594			0	0	0	540			0	0	-	-
9	SP / PP	Bus bar/ D/ Box Installation	Installation of any type of bus bar box / distribution box on wall along with supply of fasteners / on pole with steel strap and buckles / piercing connect where LT mains in ABC. This will include supply and installation of 'O' shaped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		117			0	0	0	106			0	0	-	-
10	SP / PP	Bus bar/ D/ Box Removal	Removal of any type of bus bar box / distribution box from wall / from pole along with steel strap and buckles. This will include supply and installation of 'O' shaped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		12			0	0	0	11			0	0	-	-
11	PP	Meter Installation - PP	Installation of 3 phase whole current energy meter with / without meter box/ existing meter box / Panel. This will include supply and installation of 'O' shaped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		1109			0	0	0	659			0	0	-	-
12	PP	Meter Removal - PP	Removal of any Three phase whole current meter with / without meter box/ existing meter box / from Panel/ with freedom unit and communication cable removal and returning back too Central Store. This payment will be applicable only if meters are returned to concered central stores.	EA		650			0	0	0	593			0	0	-	-
13	PP	Installation of 4C*25 sq mm armoured, Cable O/H (Length 7M-30M)	Stringing, sagging of armoured service cable size 4CX 25 sq mm with length between 7m to 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble / AB piercing connectors of required size.	EA		130			0	0	0	105			0	0	-	-
14	PP	Installation of 4C*10 sq mm armoured, Cable O/H (Length 7M-30M)	Stringing, sagging of armoured service cable size 4CX 10 sq mm with length between 7m to 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble. This will include supply and installation of 'O' shaped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		325			0	0	0	422			0	0	-	-
15	SP/PP	Loop Connection for service cable size 2C X 4 sq mm/ 2C X 6 sq mm / 2C X 10 sq mm/ 4C X 10 sq mm/ 4C X 25 sq mm with length ≤ 6 M	Stringing of loop connection (length <= 6 meter) for service cable size 2C X 4 sq mm/ 2C X 6 sq mm / 2C X 10 sq mm/ 4C X 10 sq mm/ 4C X 25 sq mm with proper termination. This will include supply and installation of 'O' shaped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		13			0	0	0	12			0	0	-	-
16	PP	Service Cable Removal of any size used for Poly Phase connections	Removal of service cable of 4C X 10 sq mm / 4C X 25 sq mm or any other size used for Poly Phase Whole Current connections from pole/ LT Network and returning it back to scrap store if not utilised again	EA		650			0	0	0	160			0	0	-	-
17	SP-Testing	Single Phase Meter Accuracy test at site with Accucheck	Single Phase Testing with Accucheck (provided by TPCODL) to be done without opening any seal / opening seals in presence of authorised TPCODL Officers.	EA		1165			0	0	0	1,059			0	0	-	-
18	PP - Testing	Three Phase Whole Current Meter Accuracy test at site with Accucheck	Polyphase Testing with Accucheck (provided by TPCODL) to be done without opening any seal / opening seals in presence of authorised TPCODL Officers..	EA		1342			0	0	0	1,220			0	0	-	-
19	LTCT - Testing	LT CT Meter Accuracy test at site with Accucheck	LTCT Meter Testing with Accucheck (provided by TPCODL) to be done without opening any seal / opening seals in presence of authorised TPCODL Officers..	EA		193			0	0	0	175			0	0	-	-
20	HT CT Testing	Meter Accuracy test at site (HTCT)	HTCT Meter Testing to be done at site. Testing kit will be provided by TPCODL.	EA		70			0	0	0	63			0	0	-	-
21	HT CT Testing	CT PT unit Testing after taking shut down	Testing of HT CT Metering unit of 11 KV / 33 KV at various loads after taking shut down and isolating MU from the circuit and after testing restoring it back in circuit. Connection to the meter need to be isolated and then re-connected. This will be a 100% supervised job.	EA		70			0	0	0	63			0	0	-	-
22	LTCT	Smart DT Meter installation along with Meter Box and connection for CT / PT (For energy auditing of DTs)	Installation of Smart DT meters 100/5A, along with ring type CTs of various ratings, Meter Box, and associated accessories on LT side of transformers. Note : this activity excludes handling work at tranformer LT side.	EA		207			0	0	0	188			0	0	-	-
23	LTCT	Installation of 4C*50/4C*95 sq mm armoured service cable, O/H (Length up to 30M)	Stringing, sagging of armoured service cable size 4CX 50 sq mm with length upto 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble. (Saddles and Fastners are to be supplied by BA)	EA		124			0	0	0	113			0	0	-	-
24	LTCT	Installation of 4C*150 / 4C X 300 sq mm armoured service cable, O/H (Length up to 30M)	Stringing, sagging of armoured service cable size 4CX 95 sq mm / 4C X 150 sq mm with length upto 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble. (Saddles and Fastners are to be supplied by BA)	EA		41			0	0	0	38			0	0	-	-
25	HT	Meter Replacement - HT Meter Only	Replacement of any HT energy meter along with modem and its termination from Metering cubicle / CTPT unit	EA		24			0	0	0	2			0	0	-	-
26	HT	Meter Installation - HT Meter Only	Installation of any HT energy meter along with modem and its termination in Metering cubicle / CTPT unit	EA		41			0	0	0	19			0	0	-	-
27	HT	Meter Removal - HT Meter Only	Removal of any HT energy meter along with modem and its termination from Metering cubicle / CTPT unit	EA		24			0	0	0	2			0	0	-	-
28	HT	CTPT Installation - 11KV	Installation of new HT 11 KV out door Metering CTPT unit with or without meter, includes to & fro transportation (up to 50 KM), commissioning and energisation in all respect (i.e. connection in meter box from CTPT terminal block through control cable, pole mount CTPT unit erected at required height. Fix and Bolt CTPT unit, stand pipe flange, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CTPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door).All these activities are to be performed with crane of suitable capacity and all hardware will be in scope of BA except meter, MU and seals.	EA		33			0	0	0	13			0	0	-	-
29	HT	CTPT Installation - 33KV	Installation of new HT 33 KV out door Metering CTPT unit with or without meter, includes to & fro transportation (up to 50 KM), commissioning and energisation in all respect (i.e. connection in meter box from CTPT terminal block through control cable, pole mount CTPT unit erected at 30' height. Fix and Bolt CTPT unit, stand pipe flange, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CTPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door). Installation has to be done with crane of suitable capacity. All these activities are to be performed with crane of suitable capacity and all hardware will be in scope of BA except meter, MU and seals.	EA		8			0	0	0	3			0	0	-	-
30	HT	CTPT Removal- 11KV / 33KV	Dismantling of complete HT metering out door CTPT unit with or without meter, includes to & fro transportation (up to 50KM), removing and de-energisation in all respect (i.e. connection from meter box from CTPT terminal block through control cable, pole mount CTPT unit erected at 30' height. Fix and Bolt CTPT unit, stand pipe flange, two earth connections, HT cable ends termination removal, socket/ thimble crimp, stand pipe flanges removal, meter terminal cover, window and chamber door removal from site). Removed Metering material is to be returned back to Warranty and Scrap store	EA		24			0	0	0	2			0	0	-	-
31	HT	Replacement of CT PT Metering unit - 11KV	Replacement of out door HT metering unit of 11 KV along with replacement of control cable pipe , energy meter and allied accessories include to & fro transportation (upto 50 KM), commissioning and energisation in all respect (i.e. reconnection in meter box from CTPT terminal block through control cable, stand pipe flange replacement, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CTPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door). Note : Loading, Unloading, Installation of CT PT unit, Metering Cubicle at store, site through crane will be included in this cost.	EA		19			0	0	0	2			0	0	-	-
32	HT	Replacement of CT PT Metering unit - 33KV	Replacement of out door HT metering unit of 33 KV along with replacement of control cable pipe , energy meter and allied accessories include to & fro transportation (up to 50KM), commissioning and energisation in all respect (i.e. reconnection in meter box from CTPT terminal block through control cable, stand pipe flange replacement, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CTPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door). Note : Loading, Unloading, Installation of CT PT unit, Metering Cubicle at store, site through crane will be included in this cost.	EA		5			0	0	0	-			0	0	-	-

33	HT	Replacement of HT meter chamber OR Replacement / Shifting of control cable pipe with meter chamber for CTPT unit (Transportation and lifting of MU is excluded)	Replacement of HT Metering chamber of HT 11 / 33 KV for out door Metering CTPT unit, replacement of control cable pipe , energy meter and allied accessories include to & fro transportation, commissioning and energisation in all respect (i.e. reconnection in meter box from CTPT terminal block through control cable, stand pipe flange replacement, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CTPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door). Note : This activity excludes transportation and lifting of metering unit.	EA	2	0	0	0	-	0	0	-	-
34	HT	Meter Installation - HT Meter (Travel charges in lot of 50 KM)	Rate for travel of HT Vehicle for additional travel in lot of 50 KM (over and above which is covered in activities where MU is to be transported) for a month. Rate for 50 KM additional mileage after rounding off to be charged. If more than one activity is performed at one site at a time, then this cost to be charged against only one activity.	EA	41	0	0	0	19	0	0	-	-
35	LT CT	LTCT Meter with box Installation (For 100/5 Amps & 200/5 Amps)	Installation of new LTCT meters with complete grouting, commissioning, supply of 8 Nos lugs and its crimping, energisation, communication of Meter and its allied accessories and seal installation with LTCT Meter box	EA	135	0	0	0	27	0	0	-	-
36	LT CT	LTCT Meter with box Removal - All Rating	Removal of any LTCT meters from site with de-energisation, Meter, modem and its allied accessories with meter box. This will include returning meters back to relevant central stores	EA	118	0	0	0	10	0	0	-	-
37	LT CT	Meter Replacement - LTCT Meter Only	Replacement of LTCT meter/ LTCT Smart meter of any rating i.e. 100/5A or 200/5A or 400/5A without box	EA	118	0	0	0	10	0	0	-	-
38	LTCT	Fault rectification in CT Meter pertaining to termination/LT Cable dressing.	Fault rectification includes termination (thimble / socket crimping, gland change, cable lead extension crimping and tightening) and cable dressing.	EA	5	0	0	0	4	0	0	-	-
39	SP/PP	Prefabricated GI Structure (Supply Item)/ kg	Prefabricated / GI structural angle/ channel/flats of different sizes, as per the site requirement	Kg	1220	0	0	0	1,109	0	0	-	-
40	SP/PP	Installation of Bracket Angle/ service anchor/ suspension clamp/ slotted angle	Installation of GI Bracket for Anchoring service cable of size 50, 95 & 150 sqmm / Installation of Service Cable Anchor / Installation of Slotted angle on pole in case of 2x10/4x10/4x25 cable lying, on uncleaned poles. (Number of items used at one site shall be considered for billing).	EA	813	0	0	0	739	0	0	-	-
41	TS	NIC / Modem Troubleshooting with TAB/ Laptop / Anyother device	(in case - Laptop/Tab in BA's scope)	EA	6099	0	0	0	5,545	0	0	-	-
42	DD	Manul Meter Reading and SVR	Taking manual reading parameters from meter display, providing remarks with photographs where data can not be downloaded for reason not attributable to BA	EA	4066	0	0	0	3,696	0	0	-	-
43	DD	Data downloading of meters	Data downloading of any meter per case	EA	4066	0	0	0	3,696	0	0	-	-
44	PP	Minor reworking in CT Meter termination/LT Cable dressing during pole cleaning	Minor reworking includes termination (thimble / socket crimping, gland change, cable lead extension crimping and tightening) and cable dressing during pole cleaning.	EA	5	0	0	0	4	0	0	-	-
45	Protocol Punching	Punching of Protocols for field activities - Metering/Modem/Testing/Data download	Bidder has to punch protocol for Meter installation (Both Single Phase and Three Phase activity/Modem Installation / rectification / Meter Testing (HT and LT) activity / data downloading activity, with 5% QC. Bidder to create Data Centre for same at Circle HO with required staff, computers and Broadband connection.	EA	30705	0	0	0	27,914	0	0	-	-
46	LT CT	LTCT Meter box Installation - 400/5 Amps	Installation of new LTCT meters with complete grouting, commissioning, supply of 8 Nos lugs and its crimping, energisation, communication of Meter and its allied accessories and seal installation with LTCT Meter box	EA	2	0	0	0	2	0	0	-	-
47	FSE	FSE- New Connection / Pre-inspection / Attribute Change / SVR	Site verification of new connection / Attribute Change / SVR with capturing of details as mentioned in site verification form and capturing photographs. Further submission of SVR and file at respective division office.	EA	2000	0	0	0	4,541	0	0	-	-
48		Safety officer	Safety office shall be posted at division level and report to division incharge and shall be responsible for safety related to safety at respective divisions with Diploma in Electrical Safety with two years of experiences	EA	1	0	0	0	1	0	0	-	-
49		Divisional Coordinator	One in each Distribution Division with Graduate (conversant with excel sheet & should be able to prepare reports & do quality	EA	1	0	0	0	1	0	0	-	-
50		Circle Coordinator	1no. Each attached to MRT HODs posted BBSR, Cuttack, Khurda, Dhnakanal, Paradip- 5nos and 5nos. At MRT HO level with Graduate (conversant with excel sheet & should be able to prepare reports & do quality	EA	1	0	0	0	1	0	0	-	-
51		Helper-Tech	Helper with ITI-Electrical to be allotted wherever additional manpower is required for assisting existing 3 Phase team To accelerate the process of installation, apart from existing defined team for the 3 Phase activity, If required additional helper-with ITI Electrical may be allotted to the team as per requirement duly approved by EIC.	EA	2	0	0	0	2	0	0	-	-
Total All inc value										0		0	0

Schedule of items KED2

Sr. No.	Activity Type	Item Short Description	Long Service Description	UoM	SAC Code	Prices for Year 1					Prices for Year 2					Grand Total
						Quantity	Unit Rate (Rs.)	Appl. Taxes & Duties	All Inclusive Unit Rate (Rs.)	Total All Inclusive Value for Year-1 (Rs.)	Quantity	Unit Rate (Rs.)	Appl. Taxes & Duties	All Inclusive Unit Rate (Rs.)	Total All Inclusive Value for Year-2 (Rs.)	
1	SP	Meter Installation - SP	Installation of 1 phase energy meter with / without meter box/ existing meter box / Panel/ with freedom unit and communication cable lying. This also includes cable of any length from meter to MCB / Cutout / Kit Kat Fuse. This will include supply and installation of 'O' shaped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable. This line item includes removal of meters, where consumer meter is removed and handed over to customer	EA		7891			0	0	0	4,771	0	0	-	-
2	SP	Meter Installation NSC-SP	Meter and 2C * 4 sq mm Cable Installatin for NSC Cases	EA		1604			0	0	0	1,459	0	0	-	-
3	SP	Meter Installation NSC-SP	Meter and 2C * 6 sq mm Cable Installation for NSC Cases	EA		688			0	0	0	625	0	0	-	-
4	SP	Meter Removal - SP	Removal of any single phase meter with / without meter box/ existing meter box / from Panel/ with freedom unit and communication cable removal and submitting it back to Scrap / Warranty store after devaluation	EA		6313			0	0	0	3,817	0	0	-	-
5	SP	Installation of 2C*4 sq mm / 2C X 6 sq mm armoured, Cable O/H (Length 7M-30M)	Stringing, sagging of armoured service cable size 2CX 4 sq mm/ 2C X 6 sq mm with length between 7m to 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble required size. This will include supply and installation of 'O' shaped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		416			0	0	0	378	0	0	-	-
6	SP	Installation of 2C*6 sq mm armoured, Cable O/H (Length 7M-30M)	Stringing, sagging of armoured service cable size 2CX 6 sq mm with length between 7m to 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble / AB piercing connectors of required size. This will include supply and installation of 'O' shaped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		208			0	0	0	189	0	0	-	-
7	SP	Installation of 2C*10 sq mm armoured, Cable O/H (Length 7M-30M)	Stringing, sagging of armoured service cable size 2CX 10 sq mm with length between 7m to 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble / AB piercing connectors of required size. This will include supply and installation of 'O' shaped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		69			0	0	0	63	0	0	-	-
8	SP	Service Cable Removal of any size used for Single Phase connections	Removal of service cable of any size used for single Phase connections from pole/ LT Network and keeping unsafe custody to either re-use or return to scrap store / return to consumer if it pertains to consumer.	EA		693			0	0	0	630	0	0	-	-
9	SP / PP	Bus bar/ D/ Box Installation	Installation of any type of bus bar box / distribution box on wall along with supply of fasteners / on pole with steel strap and buckles / piercing connect where LT mains in ABC. This will include supply and installation of 'O' shaped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		36			0	0	0	32	0	0	-	-
10	SP / PP	Bus bar/ D/ Box Removal	Removal of any type of bus bar box / distribution box from wall / from pole along with steel strap and buckles. This will include supply and installation of 'O' shaped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		4			0	0	0	3	0	0	-	-
11	PP	Meter Installation - PP	Installation of 3 phase whole current energy meter with / without meter box/ existing meter box / Panel. This will include supply and installation of 'O' shaped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		327			0	0	0	283	0	0	-	-
12	PP	Meter Removal - PP	Removal of any Three phase whole current meter with / without meter box/ existing meter box / from Panel/ with freedom unit and communication cable removal and returning back too Central Store. This payment will be applicable only if meters are returned to concered central stores.	EA		124			0	0	0	255	0	0	-	-
13	PP	Installation of 4C*25 sq mm armoured, Cable O/H (Length 7M-30M)	Stringing, sagging of armoured service cable size 4CX 25 sq mm with length between 7m to 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble / AB piercing connectors of required size.	EA		25			0	0	0	45	0	0	-	-
14	PP	Installation of 4C*10 sq mm armoured, Cable O/H (Length 7M-30M)	Stringing, sagging of armoured service cable size 4CX 10 sq mm with length between 7m to 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble. This will include supply and installation of 'O' shaped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		62			0	0	0	181	0	0	-	-
15	SP/PP	Loop Connection for service cable size 2C X 4 sq mm/ 2C X 6 sq mm / 2C X 10 sq mm/ 4C X 10 sq mm/ 4C X 25 sq mm with length ≤ 6 M	Stringing of loop connection (length <= 6 meter) for service cable size 2C X 4 sq mm/ 2C X 6 sq mm / 2C X 10 sq mm/ 4C X 10 sq mm/ 4C X 25 sq mm with proper termination. This will include supply and installation of 'O' shaped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		2			0	0	0	2	0	0	-	-
16	PP	Service Cable Removal of any size used for Poly Phase connections	Removal of service cable of 4C X 10 sq mm / 4C X 25 sq mm or any other size used for Poly Phase Whole Current connections from pole/ LT Network and returning it back to scrap store if not utilised again	EA		124			0	0	0	64	0	0	-	-
17	SP-Testing	Single Phase Meter Accuracy test at site with Accucheck	Single Phase Testing with Accucheck (provided by TPCODL) to be done without opening any seal / opening seals in presence of authorised TPCODL Officers.	EA		356			0	0	0	324	0	0	-	-
18	PP - Testing	Three Phase Whole Current Meter Accuracy test at site with Accucheck	Polyphase Testing with Accucheck (provided by TPCODL) to be done without opening any seal / opening seals in presence of authorised TPCODL Officers..	EA		596			0	0	0	542	0	0	-	-
19	LTCT - Testing	LT CT Meter Accuracy test at site with Accucheck	LTCT Meter Testing with Accucheck (provided by TPCODL) to be done without opening any seal / opening seals in presence of authorised TPCODL Officers..	EA		86			0	0	0	78	0	0	-	-
20	HT CT Testing	Meter Accuracy test at site (HTCT)	HTCT Meter Testing to be done at site. Testing kit will be provided by TPCODL.	EA		31			0	0	0	28	0	0	-	-
21	HT CT Testing	CT PT unit Testing after taking shut down	Testing of HT CT Metering unit of 11 KV / 33 KV at various loads after taking shut down and isolating MU from the circuit and after testing restoring it back in circuit. Connection to the meter need to be isolated and then re-connected. This will be a 100% supervised job.	EA		31			0	0	0	28	0	0	-	-
22	LTCT	Smart DT Meter installation along with Meter Box and connection for CT / PT (For energy auditing of DTs)	Installation of Smart DT meters 100/5A, along with ring type CTs of various ratings, Meter Box, and associated accessories on LT side of transformers. Note : this activity excludes handling work at tranformer LT side.	EA		413			0	0	0	375	0	0	-	-
23	LTCT	Installation of 4C*50/4C*95 sq mm armoured service cable, O/H (Length up to 30M)	Stringing, sagging of armoured service cable size 4CX 50 sq mm with length upto 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble. (Saddles and Fastners are to be supplied by BA)	EA		248			0	0	0	225	0	0	-	-
24	LTCT	Installation of 4C*150 / 4C X 300 sq mm armoured service cable, O/H (Length up to 30M)	Stringing, sagging of armoured service cable size 4CX 95 sq mm / 4C X 150 sq mm with length upto 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble. (Saddles and Fastners are to be supplied by BA)	EA		83			0	0	0	75	0	0	-	-
25	HT	Meter Replacement - HT Meter Only	Replacement of any HT energy meter along with modem and its termination from Metering cubicle / CTPT unit	EA		4			0	0	0	4	0	0	-	-
26	HT	Meter Installation - HT Meter Only	Installation of any HT energy meter along with modem and its termination in Metering cubicle / CTPT unit	EA		6			0	0	0	6	0	0	-	-
27	HT	Meter Removal - HT Meter Only	Removal of any HT energy meter along with modem and its termination from Metering cubicle / CTPT unit	EA		4			0	0	0	4	0	0	-	-
28	HT	CTPT Installation - 11KV	Installation of new HT 11 KV out door Metering CTPT unit with or without meter, includes to & fro transportation (up to 50 KM), commissioning and energisation in all respect (i.e. connection in meter box from CTPT terminal block through control cable, pole mount CTPT unit erected at required height. Fix and Bolt CTPT unit, stand pipe flange, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CTPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door).All these activities are to be performed with crane of suitable capacity and all hardware will be in scope of BA except meter, MU and seals.	EA		3			0	0	0	2	0	0	-	-
29	HT	CTPT Installation - 33KV	Installation of new HT 33 KV out door Metering CTPT unit with or without meter, includes to & fro transportation (up to 50 KM), commissioning and energisation in all respect (i.e. connection in meter box from CTPT terminal block through control cable, pole mount CTPT unit erected at 30' height. Fix and Bolt CTPT unit, stand pipe flange, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CTPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door). Installation has to be done with crane of suitable capacity. All these activities are to be performed with crane of suitable capacity and all hardware will be in scope of BA except meter, MU and seals.	EA		1			0	0	0	-	0	0	-	-
30	HT	CTPT Removal- 11KV / 33KV	Dismantling of complete HT metering out door CTPT unit with or without meter, includes to & fro transportation (up to 50KM), removing and de-energisation in all respect (i.e. connection from meter box from CTPT terminal block through control cable, pole mount CTPT unit erected at 30' height. Fix and Bolt CTPT unit, stand pipe flange, two earth connections, HT cable ends termination removal, socket/ thimble crimp, stand pipe flanges removal, meter terminal cover, window and chamber door removal from site). Removed Metering material is to be returned back to Warranty and Scrap store	EA		4			0	0	0	2	0	0	-	-
31	HT	Replacement of CT PT Metering unit - 11KV	Replacement of out door HT metering unit of 11 KV along with replacement of control cable pipe , energy meter and allied accessories include to & fro transportation (upto 50 KM), commissioning and energisation in all respect (i.e. reconnection in meter box from CTPT terminal block through control cable, stand pipe flange replacement, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CTPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door). Note : Loading, Unloading, Installation of CT PT unit, Metering Cubicle at store, site through crane will be included in this cost.	EA		4			0	0	0	2	0	0	-	-
32	HT	Replacement of CT PT Metering unit - 33KV	Replacement of out door HT metering unit of 33 KV along with replacement of control cable pipe , energy meter and allied accessories include to & fro transportation (up to 50KM), commissioning and energisation in all respect (i.e. reconnection in meter box from CTPT terminal block through control cable, stand pipe flange replacement, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CTPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door). Note : Loading, Unloading, Installation of CT PT unit, Metering Cubicle at store, site through crane will be included in this cost.	EA		1			0	0	0	-	0	0	-	-

33	HT	Replacement of HT meter chamber OR Replacement / Shifting of control cable pipe with meter chamber for CPT unit (Transportation and lifting of MU is excluded)	Replacement of HT Metering chamber of HT 11 / 33 KV for out door Metering CPT unit, replacement of control cable pipe , energy meter and allied accessories include to & fro transportation, commissioning and energisation in all respect (i.e. reconnection in meter box from CPT terminal block through control cable, stand pipe flange replacement, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door). Note : This activity excludes transportation and lifting of metering unit.	EA	1	0	0	0	-	0	0	-	-
34	HT	Meter Installation - HT Meter (Travel charges in lot of 50 KM)	Rate for travel of HT Vehicle for additional travel in lot of 50 KM (over and above which is covered in activities where MU is to be transported) for a month. Rate for 50 KM additional mileage after rounding off to be charged. If more than one activity is performed at one site at a time, then this cost to be charged against only one activity.	EA	6	0	0	0	6	0	0	-	-
35	LT CT	LTCT Meter with box Installation (For 100/5 Amps & 200/5 Amps)	Installation of new LTCT meters with complete grouting, commissioning, supply of 8 Nos lugs and its crimping, energisation, communication of Meter and its allied accessories and seal installation with LTCT Meter box	EA	38	0	0	0	27	0	0	-	-
36	LT CT	LTCT Meter with box Removal - All Rating	Removal of any LTCT meters from site with de-energisation, Meter, modem and its allied accessories with meter box. This will include returning meters back to relevant central stores	EA	33	0	0	0	10	0	0	-	-
37	LT CT	Meter Replacement - LTCT Meter Only	Replacement of LTCT meter/ LTCT Smart meter of any rating i.e. 100/5A or 200/5A or 400/5A without box	EA	33	0	0	0	10	0	0	-	-
38	LTCT	Fault rectification in CT Meter pertaining to termination/LT Cable dressing.	Fault rectification includes termination (thimble / socket crimping, gland change, cable lead extension crimping and tightening) and cable dressing.	EA	2	0	0	0	2	0	0	-	-
39	SP/PP	Prefabricated GI Structure (Supply Item)/ kg	Prefabricated / GI structural angle/ channel/flats of different sizes, as per the site requirement	Kg	542	0	0	0	493	0	0	-	-
40	SP/PP	Installation of Bracket Angle/ service anchor/ suspension clamp/ slotted angle	Installation of GI Bracket for Anchoring service cable of size 50, 95 & 150 sqmm / Installation of Service Cable Anchor / Installation of Slotted angle on pole in case of 2x10/4x10/4x25 cable lying, on uncleaned poles. (Number of items used at one site shall be considered for billing).	EA	361	0	0	0	328	0	0	-	-
41	TS	NIC / Modem Troubleshooting with TAB/ Laptop / Anyother device	(in case - Laptop/Tab in BA's scope)	EA	2709	0	0	0	2,463	0	0	-	-
42	DD	Manul Meter Reading and SVR	Taking manual reading parameters from meter display, providing remarks with photographs where data can not be downloaded for reason not attributable to BA	EA	1806	0	0	0	1,642	0	0	-	-
43	DD	Data downloading of meters	Data downloading of any meter per case	EA	1806	0	0	0	1,642	0	0	-	-
44	PP	Minor reworking in CT Meter termination/LT Cable dressing during pole cleaning	Minor reworking includes termination (thimble / socket crimping, gland change, cable lead extension crimping and tightening) and cable dressing during pole cleaning.	EA	2	0	0	0	2	0	0	-	-
45	Protocol Punching	Punching of Protocols for field activities - Metering/Modem/Testing/Data download	Bidder has to punch protocol for Meter installation (Both Single Phase and Three Phase activity/Modem Installation / rectification / Meter Testing (HT and LT) activity / data downloading activity, with 5% QC. Bidder to create Data Centre for same at Circle HO with required staff, computers and Broadband connection.	EA	13639	0	0	0	12,399	0	0	-	-
46	LT CT	LTCT Meter box Installation - 400/5 Amps	Installation of new LTCT meters with complete grouting, commissioning, supply of 8 Nos lugs and its crimping, energisation, communication of Meter and its allied accessories and seal installation with LTCT Meter box	EA	1	0	0	0	1	0	0	-	-
47	FSE	FSE- New Connection / Pre-inspection / Attribute Change / SVR	Site verification of new connection / Attribute Change / SVR with capturing of details as mentioned in site verification form and capturing photographs. Further submission of SVR and file at respective division office.	EA	1000	0	0	0	2,017	0	0	-	-
48		Safety officer	Safety office shall be posted at division level and report to division incharge and shall be responsible for safety related to safety at respective divisions with Diploma in Electrical Safety with two years of experiences	EA	1	0	0	0	1	0	0	-	-
49		Divisional Coordinator	One in each Distribution Division with Graduate (conversant with excel sheet & should be able to prepare reports & do quality	EA	1	0	0	0	1	0	0	-	-
50		Circle Coordinator	1no. Each attached to MRT HODs posted BBSR, Cuttack, Khurda, Dhnakanal, Paradip- 5nos and 5nos. At MRT HO level with Graduate (conversant with excel sheet & should be able to prepare reports & do quality	EA	1	0	0	0	1	0	0	-	-
51		Helper-Tech	Helper with ITI-Electrical to be allotted wherever additional manpower is required for assisting existing 3 Phase team To accelerate the process of installation, apart from existing defined team for the 3 Phase activity, If required additional helper-with ITI Electrical may be allotted to the team as per requirement duly approved by EIC.	EA	1	0	0	0	1	0	0	-	-
Total All inc value									0			0	0

Schedule of Items JED

Sr. No.	Activity Type	Item Short Description	Long Service Description	UoM	SAC Code	Prices for Year 1					Prices for Year 2					Grand Total
						Quantity	Unit Rate (Rs.)	Appl. Taxes & Duties	All Inclusive Unit Rate (Rs.)	Total All Inclusive Value for Year-1 (Rs.)	Quantity	Unit Rate (Rs.)	Appl. Taxes & Duties	All Inclusive Unit Rate (Rs.)	Total All Inclusive Value for Year-2 (Rs.)	
1	SP	Meter Installation - SP	Installation of 1 phase energy meter with / without meter box/ existing meter box / Panel/ with freedom unit and communication cable lying. This also includes cable of any length from meter to MCB / Cutout / Kit Kat Fuse. This will include supply and installation of 'O' shaped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable. This line item includes removal of meters, where consumer meter is removed and handed over to customer	EA		5835			0	0	0	4,383	0	0	-	-
2	SP	Meter Installation NSC-SP	Meter and 2C * 4 sq mm Cable Installatin for NSC Cases	EA		2553			0	0	0	2,321	0	0	-	-
3	SP	Meter Installation NSC-SP	Meter and 2C * 6 sq mm Cable Installation for NSC Cases	EA		1094			0	0	0	995	0	0	-	-
4	SP	Meter Removal - SP	Removal of any single phase meter with / without meter box/ existing meter box / from Panel/ with freedom unit and communication cable removal and submitting it back to Scrap / Warranty store after devaluation	EA		4668			0	0	0	3,506	0	0	-	-
5	SP	Installation of 2C*4 sq mm / 2C X 6 sq mm armoured, Cable O/H (Length 7M-30M)	Stringing, sagging of armoured service cable size 2CX 4 sq mm/ 2C X 6 sq mm with length between 7m to 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble required size. This will include supply and installation of 'O' shaped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		467			0	0	0	424	0	0	-	-
6	SP	Installation of 2C*6 sq mm armoured, Cable O/H (Length 7M-30M)	Stringing, sagging of armoured service cable size 2CX 6 sq mm with length between 7m to 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble / AB piercing connectors of required size. This will include supply and installation of 'O' shaped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		233			0	0	0	212	0	0	-	-
7	SP	Installation of 2C*10 sq mm armoured, Cable O/H (Length 7M-30M)	Stringing, sagging of armoured service cable size 2CX 10 sq mm with length between 7m to 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble / AB piercing connectors of required size. This will include supply and installation of 'O' shaped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		78			0	0	0	71	0	0	-	-
8	SP	Service Cable Removal of any size used for Single Phase connections	Removal of service cable of any size used for single Phase connections from pole/ LT Network and keeping unsafe custody to either re-use or return to scrap store / return to consumer if it pertains to consumer.	EA		778			0	0	0	707	0	0	-	-
9	SP / PP	Bus bar/ D/ Box Installation	Installation of any type of bus bar box / distribution box on wall along with supply of fasteners / on pole with steel strap and buckles / piercing connect where LT mains in ABC. This will include supply and installation of 'O' shaped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		34			0	0	0	31	0	0	-	-
10	SP / PP	Bus bar/ D/ Box Removal	Removal of any type of bus bar box / distribution box from wall / from pole along with steel strap and buckles. This will include supply and installation of 'O' shaped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		3			0	0	0	3	0	0	-	-
11	PP	Meter Installation - PP	Installation of 3 phase whole current energy meter with / without meter box/ existing meter box / Panel. This will include supply and installation of 'O' shaped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		544			0	0	0	315	0	0	-	-
12	PP	Meter Removal - PP	Removal of any Three phase whole current meter with / without meter box/ existing meter box / from Panel/ with freedom unit and communication cable removal and returning back too Central Store. This payment will be applicable only if meters are returned to concered central stores.	EA		379			0	0	0	284	0	0	-	-
13	PP	Installation of 4C*25 sq mm armoured, Cable O/H (Length 7M-30M)	Stringing, sagging of armoured service cable size 4CX 25 sq mm with length between 7m to 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble / AB piercing connectors of required size.	EA		76			0	0	0	50	0	0	-	-
14	PP	Installation of 4C*10 sq mm armoured, Cable O/H (Length 7M-30M)	Stringing, sagging of armoured service cable size 4CX 10 sq mm with length between 7m to 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble. This will include supply and installation of 'O' shaped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		190			0	0	0	202	0	0	-	-
15	SP/PP	Loop Connection for service cable size 2C X 4 sq mm/ 2C X 6 sq mm / 2C X 10 sq mm/ 4C X 10 sq mm/ 4C X 25 sq mm with length ≤ 6 M	Stringing of loop connection (length <= 6 meter) for service cable size 2C X 4 sq mm/ 2C X 6 sq mm / 2C X 10 sq mm/ 4C X 10 sq mm/ 4C X 25 sq mm with proper termination. This will include supply and installation of 'O' shaped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		8			0	0	0	7	0	0	-	-
16	PP	Service Cable Removal of any size used for Poly Phase connections	Removal of service cable of 4C X 10 sq mm / 4C X 25 sq mm or any other size used for Poly Phase Whole Current connections from pole/ LT Network and returning it back to scrap store if not utilised again	EA		379			0	0	0	120	0	0	-	-
17	SP-Testing	Single Phase Meter Accuracy test at site with Accucheck	Single Phase Testing with Accucheck (provided by TPCODL) to be done without opening any seal / opening seals in presence of authorised TPCODL Officers.	EA		337			0	0	0	307	0	0	-	-
18	PP - Testing	Three Phase Whole Current Meter Accuracy test at site with Accucheck	Polyphase Testing with Accucheck (provided by TPCODL) to be done without opening any seal / opening seals in presence of authorised TPCODL Officers..	EA		742			0	0	0	675	0	0	-	-
19	LTCT - Testing	LT CT Meter Accuracy test at site with Accucheck	LTCT Meter Testing with Accucheck (provided by TPCODL) to be done without opening any seal / opening seals in presence of authorised TPCODL Officers..	EA		107			0	0	0	97	0	0	-	-
20	HT CT Testing	Meter Accuracy test at site (HTCT)	HTCT Meter Testing to be done at site. Testing kit will be provided by TPCODL.	EA		39			0	0	0	35	0	0	-	-
21	HT CT Testing	CT PT unit Testing after taking shut down	Testing of HT CT Metering unit of 11 KV / 33 KV at various loads after taking shut down and isolating MU from the circuit and after testing restoring it back in circuit. Connection to the meter need to be isolated and then re-connected. This will be a 100% supervised job.	EA		39			0	0	0	35	0	0	-	-
22	LTCT	Smart DT Meter installation along with Meter Box and connection for CT / PT (For energy auditing of DTs)	Installation of Smart DT meters 100/5A, along with ring type CTs of various ratings, Meter Box, and associated accessories on LT side of transformers. Note : this activity excludes handling work at tranformer LT side.	EA		422			0	0	0	383	0	0	-	-
23	LTCT	Installation of 4C*50/4C*95 sq mm armoured service cable, O/H (Length up to 30M)	Stringing, sagging of armoured service cable size 4CX 50 sq mm with length upto 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble. (Saddles and Fastners are to be supplied by BA)	EA		253			0	0	0	230	0	0	-	-
24	LTCT	Installation of 4C*150 / 4C X 300 sq mm armoured service cable, O/H (Length up to 30M)	Stringing, sagging of armoured service cable size 4CX 95 sq mm / 4C X 150 sq mm with length upto 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble. (Saddles and Fastners are to be supplied by BA)	EA		84			0	0	0	77	0	0	-	-
25	HT	Meter Replacement - HT Meter Only	Replacement of any HT energy meter along with modem and its termination from Metering cubicle / CTPT unit	EA		8			0	0	0	2	0	0	-	-
26	HT	Meter Installation - HT Meter Only	Installation of any HT energy meter along with modem and its termination in Metering cubicle / CTPT unit	EA		12			0	0	0	6	0	0	-	-
27	HT	Meter Removal - HT Meter Only	Removal of any HT energy meter along with modem and its termination from Metering cubicle / CTPT unit	EA		8			0	0	0	2	0	0	-	-
28	HT	CTPT Installation - 11KV	Installation of new HT 11 KV out door Metering CTPT unit with or without meter, includes to & fro transportation(up to 50 KM), commissioning and energisation in all respect (i.e. connection in meter box from CTPT terminal block through control cable, pole mount CTPT unit erected at required height. Fix and Bolt CTPT unit, stand pipe flange, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CTPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door).All these activities are to be performed with crane of suitable capacity and all hardware will be in scope of BA except meter, MU and seals.	EA		6			0	0	0	3	0	0	-	-
29	HT	CTPT Installation - 33KV	Installation of new HT 33 KV out door Metering CTPT unit with or without meter, includes to & fro transportation (up to 50 KM), commissioning and energisation in all respect (i.e. connection in meter box from CTPT terminal block through control cable, pole mount CTPT unit erected at 30' height. Fix and Bolt CTPT unit, stand pipe flange, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CTPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door). Installation has to be done with crane of suitable capacity. All these activities are to be performed with crane of suitable capacity and all hardware will be in scope of BA except meter, MU and seals.	EA		2			0	0	0	1	0	0	-	-
30	HT	CTPT Removal- 11KV / 33KV	Dismantling of complete HT metering out door CTPT unit with or without meter, includes to & fro transportation (up to 50KM), removing and de-energisation in all respect (i.e. connection from meter box from CTPT terminal block through control cable, pole mount CTPT unit erected at 30' height. Fix and Bolt CTPT unit, stand pipe flange, two earth connections, HT cable ends termination removal, socket/ thimble crimp, stand pipe flanges removal, meter terminal cover, window and chamber door removal from site). Removed Metering material is to be returned back to Warranty and Scrap store	EA		8			0	0	0	1	0	0	-	-
31	HT	Replacement of CT PT Metering unit - 11KV	Replacement of out door HT metering unit of 11 KV along with replacement of control cable pipe , energy meter and allied accessories include to & fro transportation(up to 50 KM), commissioning and energisation in all respect (i.e. reconnection in meter box from CTPT terminal block through control cable, stand pipe flange replacement, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CTPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door). Note : Loading, Unloading, Installation of CT PT unit, Metering Cubicle at store, site through crane will be included in this cost.	EA		6			0	0	0	1	0	0	-	-
32	HT	Replacement of CT PT Metering unit - 33KV	Replacement of out door HT metering unit of 33 KV along with replacement of control cable pipe , energy meter and allied accessories include to & fro transportation(up to 50KM), commissioning and energisation in all respect (i.e. reconnection in meter box from CTPT terminal block through control cable, stand pipe flange replacement, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CTPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door). Note : Loading, Unloading, Installation of CT PT unit, Metering Cubicle at store, site through crane will be included in this cost.	EA		2			0	0	0	-	0	0	-	-

33	HT	Replacement of HT meter chamber OR Replacement / Shifting of control cable pipe with meter chamber for CPT unit (Transportation and lifting of MU is excluded)	Replacement of HT Metering chamber of HT 11 / 33 KV for out door Metering CPT unit, replacement of control cable pipe , energy meter and allied accessories include to & fro transportation, commissioning and energisation in all respect (i.e. reconnection in meter box from CPT terminal block through control cable, stand pipe flange replacement, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door). Note : This activity excludes transportation and lifting of metering unit.	EA	1	0	0	0	-	0	0	-	-
34	HT	Meter Installation - HT Meter (Travel charges in lot of 50 KM)	Rate for travel of HT Vehicle for additional travel in lot of 50 KM (over and above which is covered in activities where MU is to be transported) for a month. Rate for 50 KM additional mileage after rounding off to be charged. If more than one activity is performed at one site at a time, then this cost to be charged against only one activity.	EA	12	0	0	0	6	0	0	-	-
35	LT CT	LTCT Meter with box Installation (For 100/5 Amps & 200/5 Amps)	Installation of new LTCT meters with complete grouting, commissioning, supply of 8 Nos lugs and its crimping, energisation, communication of Meter and its allied accessories and seal installation with LTCT Meter box	EA	55	0	0	0	23	0	0	-	-
36	LT CT	LTCT Meter with box Removal - All Rating	Removal of any LTCT meters from site with de-energisation, Meter, modem and its allied accessories with meter box. This will include returning meters back to relevant central stores	EA	42	0	0	0	10	0	0	-	-
37	LT CT	Meter Replacement - LTCT Meter Only	Replacement of LTCT meter/ LTCT Smart meter of any rating i.e. 100/5A or 200/5A or 400/5A without box	EA	42	0	0	0	10	0	0	-	-
38	LTCT	Fault rectification in CT Meter pertaining to termination/LT Cable dressing.	Fault rectification includes termination (thimble / socket crimping, gland change, cable lead extension crimping and tightening) and cable dressing.	EA	3	0	0	0	2	0	0	-	-
39	SP/PP	Prefabricated GI Structure (Supply Item)/ kg	Prefabricated / GI structural angle/ channel/flats of different sizes, as per the site requirement	Kg	675	0	0	0	613	0	0	-	-
40	SP/PP	Installation of Bracket Angle/ service anchor/ suspension clamp/ slotted angle	Installation of GI Bracket for Anchoring service cable of size 50, 95 & 150 sqmm / Installation of Service Cable Anchor / Installation of Slotted angle on pole in case of 2x10/4x10/4x25 cable lying, on uncleaned poles. (Number of items used at one site shall be considered for billing).	EA	450	0	0	0	409	0	0	-	-
41	TS	NIC / Modem Troubleshooting with TAB/ Laptop / Anyother device	(in case - Laptop/Tab in BA's scope)	EA	3373	0	0	0	3,067	0	0	-	-
42	DD	Manul Meter Reading and SVR	Taking manual reading parameters from meter display, providing remarks with photographs where data can not be downloaded for reason not attributable to BA	EA	2249	0	0	0	2,044	0	0	-	-
43	DD	Data downloading of meters	Data downloading of any meter per case	EA	2249	0	0	0	2,044	0	0	-	-
44	PP	Minor reworking in CT Meter termination/LT Cable dressing during pole cleaning	Minor reworking includes termination (thimble / socket crimping, gland change, cable lead extension crimping and tightening) and cable dressing during pole cleaning.	EA	3	0	0	0	2	0	0	-	-
45	Protocol Punching	Punching of Protocols for field activities - Metering/Modem/Testing/Data download	Bidder has to punch protocol for Meter installation (Both Single Phase and Three Phase activity/Modem Installation / rectification / Meter Testing (HT and LT) activity / data downloading activity, with 5% QC. Bidder to create Data Centre for same at Circle HO with required staff, computers and Broadband connection.	EA	16982	0	0	0	15,438	0	0	-	-
46	LT CT	LTCT Meter box Installation - 400/5 Amps	Installation of new LTCT meters with complete grouting, commissioning, supply of 8 Nos lugs and its crimping, energisation, communication of Meter and its allied accessories and seal installation with LTCT Meter box	EA	1	0	0	0	1	0	0	-	-
47	FSE	FSE- New Connection / Pre-inspection / Attribute Change / SVR	Site verification of new connection / Attribute Change / SVR with capturing of details as mentioned in site verification form and capturing photographs. Further submission of SVR and file at respective division office.	EA	1000	0	0	0	2,511	0	0	-	-
48		Safety officer	Safety office shall be posted at division level and report to division incharge and shall be responsible for safety related to safety at respective divisions with Diploma in Electrical Safety with two years of experiences	EA	1	0	0	0	1	0	0	-	-
49		Divisional Coordinator	One in each Distribution Division with Graduate (conversant with excel sheet & should be able to prepare reports & do quality	EA	1	0	0	0	1	0	0	-	-
50		Helper-Tech	Helper with ITI-Electrical to be allotted wherever additional manpower is required for assisting existing 3 Phase team To accelerate the process of installation, apart from existing defined team for the 3 Phase activity, if required additional helper-with ITI Electrical may be allotted to the team as per requirement duly approved by EIC.	EA	2	0	0	0	2	0	0	-	-
Total All inc value									0			-	-

Schedule of items PDP

Sr. No.	Activity Type	Item Short Description	Long Service Description	UoM	SAC Code	Prices for Year 1					Prices for Year 2					Grand Total		
						Quantity	Unit Rate (Rs.)	Appl. Taxes & Duties	All Inclusive Unit Rate (Rs.)	Total All Inclusive Value for Year-1 (Rs.)	Quantity	Unit Rate (Rs.)	Appl. Taxes & Duties	All Inclusive Unit Rate (Rs.)	Total All Inclusive Value for Year-2 (Rs.)			
																	A	B
1	SP	Meter Installation - SP	Installation of 1 phase energy meter with / without meter box/ existing meter box / Panel/ with freedom unit and communication cable lying. This also includes cable of any length from meter to MCB / Cutout / Kit Kat Fuse. This will include supply and installation of 'O' shaped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable. This line item includes removal of meters, where consumer meter is removed and handed over to customer	EA		5654			0	0	0	3,838			0	0	-	-
2	SP	Meter Installation NSC-SP	Meter and 2C * 4 sq mm Cable Installatin for NSC Cases	EA		2740			0	0	0	2,491			0	0	-	-
3	SP	Meter Installation NSC-SP	Meter and 2C * 6 sq mm Cable Installation for NSC Cases	EA		1174			0	0	0	1,067			0	0	-	-
4	SP	Meter Removal - SP	Removal of any single phase meter with / without meter box/ existing meter box / from Panel/ with freedom unit and communication cable removal and submitting it back to Scrap / Warranty store after devaluation	EA		4523			0	0	0	3,071			0	0	-	-
5	SP	Installation of 2C*4 sq mm / 2C X 6 sq mm armoured, Cable O/H (Length 7M-30M)	Stringing, sagging of armoured service cable size 2CX 4 sq mm/ 2C X 6 sq mm with length between 7m to 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble required size. This will include supply and installation of 'O' shaped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		719			0	0	0	654			0	0	-	-
6	SP	Installation of 2C*6 sq mm armoured, Cable O/H (Length 7M-30M)	Stringing, sagging of armoured service cable size 2CX 6 sq mm with length between 7m to 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble / AB piercing connectors of required size. This will include supply and installation of 'O' shaped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		431			0	0	0	392			0	0	-	-
7	SP	Installation of 2C*10 sq mm armoured, Cable O/H (Length 7M-30M)	Stringing, sagging of armoured service cable size 2CX 10 sq mm with length between 7m to 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble / AB piercing connectors of required size. This will include supply and installation of 'O' shaped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		216			0	0	0	196			0	0	-	-
8	SP	Service Cable Removal of any size used for Single Phase connections	Removal of service cable of any size used for single Phase connections from pole/ LT Network and keeping in safe custody to either re-use or return to scrap store / return to consumer if it pertains to consumer.	EA		1174			0	0	0	1,067			0	0	-	-
9	SP / PP	Bus bar/ D/ Box Installation	Installation of any type of bus bar box / distribution box on wall along with supply of fasteners / on pole with steel strap and buckles / piercing connect where LT mains in ABC. This will include supply and installation of 'O' shaped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		34			0	0	0	31			0	0	-	-
10	SP / PP	Bus bar/ D/ Box Removal	Removal of any type of bus bar box / distribution box from wall / from pole along with steel strap and buckles. This will include supply and installation of 'O' shaped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		3			0	0	0	3			0	0	-	-
11	PP	Meter Installation - PP	Installation of 3 phase whole current energy meter with / without meter box/ existing meter box / Panel. This will include supply and installation of 'O' shaped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		494			0	0	0	324			0	0	-	-
12	PP	Meter Removal - PP	Removal of any Three phase whole current meter with / without meter box/ existing meter box / from Panel/ with freedom unit and communication cable removal and returning back too Central Store. This payment will be applicable only if meters are returned to concered central stores.	EA		270			0	0	0	292			0	0	-	-
13	PP	Installation of 4C*25 sq mm armoured, Cable O/H (Length 7M-30M)	Stringing, sagging of armoured service cable size 4CX 25 sq mm with length between 7m to 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble / AB piercing connectors of required size.	EA		54			0	0	0	52			0	0	-	-
14	PP	Installation of 4C*10 sq mm armoured, Cable O/H (Length 7M-30M)	Stringing, sagging of armoured service cable size 4CX 10 sq mm with length between 7m to 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble. This will include supply and installation of 'O' shaped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		135			0	0	0	207			0	0	-	-
15	SP/PP	Loop Connection for service cable size 2C X 4 sq mm/ 2C X 6 sq mm / 2C X 10 sq mm/ 4C X 10 sq mm/ 4C X 25 sq mm with length ≤ 6 M	Stringing of loop connection (length <= 6 meter) for service cable size 2C X 4 sq mm/ 2C X 6 sq mm / 2C X 10 sq mm/ 4C X 10 sq mm/ 4C X 25 sq mm with proper termination. This will include supply and installation of 'O' shaped quick link, Jublee Clips / Wall corner Clamp and piercing connectors where connection is to be given in AB cable.	EA		5			0	0	0	5			0	0	-	-
16	PP	Service Cable Removal of any size used for Poly Phase connections	Removal of service cable of 4C X 10 sq mm / 4C X 25 sq mm or any other size used for Poly Phase Whole Current connections from pole/ LT Network and returning it back to scrap store if not utilised again	EA		270			0	0	0	80			0	0	-	-
17	SP-Testing	Single Phase Meter Accuracy test at site with Accucheck	Single Phase Testing with Accucheck (provided by TPCODL) to be done without opening any seal / opening seals in presence of authorised TPCODL Officers.	EA		341			0	0	0	310			0	0	-	-
18	PP - Testing	Three Phase Whole Current Meter Accuracy test at site with Accucheck	Polyphase Testing with Accucheck (provided by TPCODL) to be done without opening any seal / opening seals in presence of authorised TPCODL Officers..	EA		620			0	0	0	563			0	0	-	-
19	LTCT - Testing	LT CT Meter Accuracy test at site with Accucheck	LTCT Meter Testing with Accucheck (provided by TPCODL) to be done without opening any seal / opening seals in presence of authorised TPCODL Officers..	EA		89			0	0	0	81			0	0	-	-
20	HT CT Testing	Meter Accuracy test at site (HTCT)	HTCT Meter Testing to be done at site. Testing kit will be provided by TPCODL.	EA		32			0	0	0	29			0	0	-	-
21	HT CT Testing	CT PT unit Testing after taking shut down	Testing of HT CT Metering unit of 11 KV / 33 KV at various loads after taking shut down and isolating MU from the circuit and after testing restoring it back in circuit. Connection to the meter need to be isolated and then re-connected. This will be a 100% supervised job.	EA		32			0	0	0	29			0	0	-	-
22	LTCT	Smart DT Meter installation along with Meter Box and connection for CT / PT (For energy auditing of DTs)	Installation of Smart DT meters 100/5A, along with ring type CTs of various ratings, Meter Box, and associated accessories on LT side of transformers. Note : this activity excludes handling work at tranformer LT side.	EA		338			0	0	0	307			0	0	-	-
23	LTCT	Installation of 4C*50/4C*95 sq mm armoured service cable, O/H (Length up to 30M)	Stringing, sagging of armoured service cable size 4CX 50 sq mm with length upto 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble. (Saddles and Fastners are to be supplied by BA)	EA		203			0	0	0	184			0	0	-	-
24	LTCT	Installation of 4C*150 / 4C X 300 sq mm armoured service cable, O/H (Length up to 30M)	Stringing, sagging of armoured service cable size 4CX 95 sq mm / 4C X 150 sq mm with length upto 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble. (Saddles and Fastners are to be supplied by BA)	EA		68			0	0	0	61			0	0	-	-
25	HT	Meter Replacement - HT Meter Only	Replacement of any HT energy meter along with modem and its termination from Metering cubicle / CTPT unit	EA		63			0	0	0	5			0	0	-	-
26	HT	Meter Installation - HT Meter Only	Installation of any HT energy meter along with modem and its termination in Metering cubicle / CTPT unit	EA		74			0	0	0	16			0	0	-	-
27	HT	Meter Removal - HT Meter Only	Removal of any HT energy meter along with modem and its termination from Metering cubicle / CTPT unit	EA		63			0	0	0	5			0	0	-	-
28	HT	CTPT Installation - 11KV	Installation of new HT 11 KV out door Metering CTPT unit with or without meter, includes to & fro transportation (up to 50 KM), commissioning and energisation in all respect (i.e. connection in meter box from CTPT terminal block through control cable, pole mount CTPT unit erected at required height. Fix and Bolt CTPT unit, stand pipe flange, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CTPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door). All these activities are to be performed with crane of suitable capacity and all hardware will be in scope of BA except meter, MU and seals.	EA		50			0	0	0	9			0	0	-	-
29	HT	CTPT Installation - 33KV	Installation of new HT 33 KV out door Metering CTPT unit with or without meter, includes to & fro transportation (up to 50 KM), commissioning and energisation in all respect (i.e. connection in meter box from CTPT terminal block through control cable, pole mount CTPT unit erected at 30' height. Fix and Bolt CTPT unit, stand pipe flange, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CTPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door). Installation has to be done with crane of suitable capacity. All these activities are to be performed with crane of suitable capacity and all hardware will be in scope of BA except meter, MU and seals.	EA		13			0	0	0	2			0	0	-	-
30	HT	CTPT Removal- 11KV / 33KV	Dismantling of complete HT metering out door CTPT unit with or without meter, includes to & fro transportation (up to 50KM), removing and de-energisation in all respect (i.e. connection from meter box from CTPT terminal block through control cable, pole mount CTPT unit erected at 30' height. Fix and Bolt CTPT unit, stand pipe flange, two earth connections, HT cable ends termination removal, socket/ thimble crimp, stand pipe flanges removal, meter terminal cover, window and chamber door removal from site). Removed Metering material is to be returned back to Warranty and Scrap store	EA		63			0	0	0	5			0	0	-	-
31	HT	Replacement of CT PT Metering unit - 11KV	Replacement of out door HT metering unit of 11 KV along with replacement of control cable pipe , energy meter and allied accessories include to & fro transportation (upto 50 KM), commissioning and energisation in all respect (i.e. reconnection in meter box from CTPT terminal block through control cable, stand pipe flange replacement, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CTPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door). Note : Loading, Unloading, Installation of CT PT unit, Metering Cubicle at store, site through crane will be included in this cost.	EA		50			0	0	0	2			0	0	-	-
32	HT	Replacement of CT PT Metering unit - 33KV	Replacement of out door HT metering unit of 33 KV along with replacement of control cable pipe , energy meter and allied accessories include to & fro transportation (up to 50KM), commissioning and energisation in all respect (i.e. reconnection in meter box from CTPT terminal block through control cable, stand pipe flange replacement, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CTPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door). Note : Loading, Unloading, Installation of CT PT unit, Metering Cubicle at store, site through crane will be included in this cost.	EA		13			0	0	0	1			0	0	-	-

33	HT	Replacement of HT meter chamber OR Replacement / Shifting of control cable pipe with meter chamber for CPT unit (Transportation and lifting of MU is excluded)	Replacement of HT Metering chamber of HT 11 / 33 KV for out door Metering CPT unit, replacement of control cable pipe , energy meter and allied accessories include to & fro transportation, commissioning and energisation in all respect (i.e. reconnection in meter box from CPT terminal block through control cable, stand pipe flange replacement, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door). Note : This activity excludes transportation and lifting of metering unit.	EA	1	0	0	0	-	0	0	-	-
34	HT	Meter Installation - HT Meter (Travel charges in lot of 50 KM)	Rate for travel of HT Vehicle for additional travel in lot of 50 KM (over and above which is covered in activities where MU is to be transported) for a month. Rate for 50 KM additional mileage after rounding off to be charged. If more than one activity is performed at one site at a time, then this cost to be charged against only one activity.	EA	74	0	0	0	16	0	0	-	-
35	LT CT	LTCT Meter with box Installation (For 100/5 Amps & 200/5 Amps)	Installation of new LTCT meters with complete grouting, commissioning, supply of 8 Nos lugs and its crimping, energisation, communication of Meter and its allied accessories and seal installation with LTCT Meter box	EA	125	0	0	0	35	0	0	-	-
36	LT CT	LTCT Meter with box Removal - All Rating	Removal of any LTCT meters from site with de-energisation, Meter, modem and its allied accessories with meter box. This will include returning meters back to relevant central stores	EA	100	0	0	0	10	0	0	-	-
37	LT CT	Meter Replacement - LTCT Meter Only	Replacement of LTCT meter/ LTCT Smart meter of any rating i.e. 100/5A or 200/5A or 400/5A without box	EA	100	0	0	0	10	0	0	-	-
38	LTCT	Fault rectification in CT Meter pertaining to termination/LT Cable dressing.	Fault rectification includes termination (thimble / socket crimping, gland change, cable lead extension crimping and tightening) and cable dressing.	EA	2	0	0	0	2	0	0	-	-
39	SP/PP	Prefabricated GI Structure (Supply Item)/ kg	Prefabricated / GI structural angle/ channel/flats of different sizes, as per the site requirement	Kg	563	0	0	0	512	0	0	-	-
40	SP/PP	Installation of Bracket Angle/ service anchor/ suspension clamp/ slotted angle	Installation of GI Bracket for Anchoring service cable of size 50, 95 & 150 sqmm / Installation of Service Cable Anchor / Installation of Slotted angle on pole in case of 2x10/4x10/4x25 cable lying, on uncleaned poles. (Number of items used at one site shall be considered for billing).	EA	376	0	0	0	341	0	0	-	-
41	TS	NIC / Modem Troubleshooting with TAB/ Laptop / Anyother device	(in case - Laptop/Tab in BA's scope)	EA	2817	0	0	0	2,561	0	0	-	-
42	DD	Manul Meter Reading and SVR	Taking manual reading parameters from meter display, providing remarks with photographs where data can not be downloaded for reason not attributable to BA	EA	1878	0	0	0	1,707	0	0	-	-
43	DD	Data downloading of meters	Data downloading of any meter per case	EA	1878	0	0	0	1,707	0	0	-	-
44	PP	Minor reworking in CT Meter termination/LT Cable dressing during pole cleaning	Minor reworking includes termination (thimble / socket crimping, gland change, cable lead extension crimping and tightening) and cable dressing during pole cleaning.	EA	2	0	0	0	2	0	0	-	-
45	Protocol Punching	Punching of Protocols for field activities - Metering/Modem/Testing/Data download	Bidder has to punch protocol for Meter installation (Both Single Phase and Three Phase activity/Modem Installation / rectification / Meter Testing (HT and LT) activity / data downloading activity, with 5% QC. Bidder to create Data Centre for same at Circle HO with required staff, computers and Broadband connection.	EA	14180	0	0	0	12,891	0	0	-	-
46	LT CT	LTCT Meter box Installation - 400/5 Amps	Installation of new LTCT meters with complete grouting, commissioning, supply of 8 Nos lugs and its crimping, energisation, communication of Meter and its allied accessories and seal installation with LTCT Meter box	EA	1	0	0	0	1	0	0	-	-
47	FSE	FSE- New Connection / Pre-inspection / Attribute Change / SVR	Site verification of new connection / Attribute Change / SVR with capturing of details as mentioned in site verification form and capturing photographs. Further submission of SVR and file at respective division office.	EA	1000	0	0	0	2,097	0	0	-	-
48		Safety officer	Safety office shall be posted at division level and report to division incharge and shall be responsible for safety related to safety at respective divisions with Diploma in Electrical Safety with two years of experiences	EA	1	0	0	0	1	0	0	-	-
49		Divisional Coordinator	One in each Distribution Division with Graduate (conversant with excel sheet & should be able to prepare reports & do quality	EA	1	0	0	0	1	0	0	-	-
50		Helper-Tech	Helper with ITI-Electrical to be allotted wherever additional manpower is required for assisting existing 3 Phase team To accelerate the process of installation, apart from existing defined team for the 3 Phase activity, if required additional helper-with ITI Electrical may be allotted to the team as per requirement duly approved by EIC.	EA	2	0	0	0	2	0	0	-	-
Total All inc value										0		0	0

Scope of Work

1. Scope of Work and SLA

The contract mention in the document has been bifurcated in three parts as mentioned below :

- a. Meter Installation Services (Including Meter installation/replacement/Testing and Modem Installation / rectification wherever required)
 - b. Site verification of new connection/attribute change/pre-inspection etc.(FSE Services)
 - c. Meter Reading/ Data downloading of meters.
- Engineer In-Charge for the contract will be concerned
Three Phase – MMG Divisional Manager (3-Ph)
Single Phase – Lead Engineer/Team Lead (1-ph)

2. Meter Installation Services

2.1 Scope of Work shall include as per below :

2.1.1 Key Activities:

1. Installation / Replacement / Removal / Reconnection/ Shifting of meter with or without service cable (assorted Sizes) as per the requirement. (Single Phase Meter, Three Phase Whole current Meter, LT CT and HT CT Meters with required metering accessories). Scrap / warranty material has to be returned back to central store with-in 30 days of removal from site. Payment of meter removal will be paid only after returning the meters to relevant Central stores
2. Communication checking with central server / AMI or AMR for all type of meters as installed in TPCODL (Single Phase Meters, 3 Phase WC, LTCT Meters and HT CT Meters)
3. Pole Mounted Distribution box Installation (wherever there is LT ABC) and replacement with removal Distribution box (this will include supply of IPC connectors by BAs where incoming cable is required to be connected in ABC)
4. BA has to maintain space for stacking transit material at suitable locations in Division / Sub-division in urban and Sub-division / Section in Rural area to ensure timely execution of the cases.
5. Rectification of site as per instruction of Site-in charge or as per TPCODL representative or as identified in quality findings.
6. BA will have to receive free issue material from central stores for execution of work on need basis. Currently two central stores are operational i.e. Bhubaneswar – Power House and Choudwar- Cuttack, Banarpal, Khurda. If any new store will be developed, same will be intimated to BA accordingly for receiving material from.



7. It is the responsibility of the BA to maintain the store properly. TPCODL may audit this facility on monthly basis or as and when required.
8. BA shall be responsible for any damage / theft of materials issued to him for installation.
9. Cases to be executed for meter installation will be shared through Soft copy in Excel list /Notifications in SAP.
10. BA to fill the pre-printed SAP protocols and handover consumer copy to consumer and return TPCODL copy to EIC. BA to keep record of protocols with him in hard and soft in traceable manner. Soft copy of Protocol / PV sheet need to be uploaded in SAP as well as per mode advised by TPCODL.
11. BA to ensure 100% data updating through MMG APP on site. BA should provide one Smart Mobile device with data pack along with Mobile Printer per team for this activity.
12. Installation of wall corner clamp / pipes / angles / fasteners etc. for quality installation shall be provided by BA. Same to be captured in protocols and accordingly consumables shall be claimed by BA in invoice.
13. Rectification of faulty NICs / modems by replacing NIC / modems or any other accessory of NIC / modem or Installation of new NIC / modems in supervised / unsupervised manner. ITI Lineman should be deployed for this task under supervision of TPCODL staff. Detailed Scope of work for modem rectification is provided in document below.
14. BA has to reconcile/submit monthly detail of Material received, consumed & balance material. Period of reconciliation can be increased or decreased by TPCODL EIC.
15. BA will provide monthly MIS of executed work & the improvement plan of the deficiency in activity and discuss the same with Engineer In-charge.
16. BA can be asked to operate in any area other than their allocated area at the cost they have opted to work in their allocated area. The additional expenses if any shall be addressed separately.
17. **Van Model** :- **All weather proof** closed van with **lock and seal arrangement** and GPS tracking facility along with driver required one for each Urban Divisions (BCDD-1, BCDD-2, BED, CDD-, CDD-2) for safe storing & movement of meter (PPWC, LTCT & HT) from TPCODL stores to all sites for installation **on daily basis**. The Van will be kept at concerned Division/store/TPCODL office as per feasibility professed by authority with lock & key arrangement.

VAN Specification:

- **All weather proof closed VAN preferably EECO**
- **There shall be separate lock and seal arrangement.**
- Van should be within 5years old .
- If required the Van may be customized as per TPCODL requirement for safe custody of the meters.
- Rest other specification will be same as Clause-2.2.3 of this document/

All the necessary statutory compliances shall be the responsibility of the BAs & same to be audited by TPCODL Admin.



18. Line item wise scope for every activity has been described in BOM in detail.
19. BA shall provide vehicle for movement of meters from Central store to BBSR Lab/Cuttack Lab for testing & movement of tested meters to respective TPCODL stores. This activity will be required minimum thrice in a week & as & when required. The concerned BA for BCDD- 1 & CDD-1 shall be responsible for this activity.

2.1.1 Salient features of Safety Compliances :

1. BA has to ensure implementation of Contractor Safety Management (CSM) as per latest revision.
2. Required PPEs as per TPCODL standard has to be provided by bidder to all BA staff deployed in field and as well as in stores. List of PPEs is provided in this scope document.
3. Bidder shall deploy safety engineer (Degree/Diploma in electrical and advanced/post diploma in industrial safety with 2 years of experience) one per division (whichever is higher), having good knowledge of safety practices. He will ensure compliances of Contractor Safety Management (CSM) in field and provide MIS on daily basis for safety audits done during the day.
 - Safety Engineer will be reporting to Engineer-in-charge or to officer as specified by Engineer in-charge.
 - Minimum 5% site audits for the executed cases to be conducted by safety engineer of BA with photographs. Report of same has to be submitted to TPCODL Safety Engineer/ EIC. Testing of new installed meters with accucheck by BA team on sample basis for each division will also be considered as part of audit.
 - It will be responsibility of BA to ensure Safety of team at site in all respect. He will ensure implementation of Job Safety Analysis (JSA) and Standard Operating Process (SOP) provided by TPCODL during metering activities.
- 4.
5. All staff deployed in field will have to go through HOTT process of TPCODL and only those person who clears the qualifying criteria will be allowed to work in field. Subsequently, the staff will be assessed for workmanship as and when required by EIC.
6. It is the responsibility of BA to keep their manpower well trained in Safety and well aware of following the Standard operating procedures (SOP) while working provided by TPCODL. BA will provide training schedule for their employees in particular month. After conducting the training, MIS of same shall be provided to TPCODL EIC. TPCODL officials may join in for such training sessions.
7. BA to ensure all statutory compliances required for scope of work, covered under this document.

2.2 Service Level Agreement

2.2.1 The agency shall execute the various activities through experienced and authorised persons as mentioned below:

Single Phase meter installation team comprising of :

- a. One Supervisor : One Supervisor who should be Degree / Diploma Holder in Electrical Engineering having one year of experience in maintenance of LT / HT Distribution network / metering activities. He should be capable of reading/ writing Hindi, English and Odia.
 - b. One Lineman ITI (Electrical), having MV license and preferably 2 years of relevant experience. He should be capable of reading/ writing (Hindi/English/Odia).
 - c. One Helper preferably less than 50 years of age.
- Four wheeler vehicle is required where cable work is carried out. (i.e. NSC/ Cable replacement work)

Three Phase WC / LTCT meter installation team comprising of :

- a. One Lineman ITI (Electrical), having MV license and preferably 2 years of relevant experience. He should be capable of reading/ writing (Hindi/English/Odia).
- b. One Helper preferably less than 50 years of age.

Three phase DT meter installation team comprising of :

- c. One Supervisor : One Supervisor who should be Diploma/Degree Holder in Electrical Engineering having one year of experience in maintenance of LT / HT Distribution network / metering activities. He should be capable of reading/ writing Hindi, English and Odia.
- d. One Lineman ITI (Electrical), having MV license and preferably 2 years of relevant experience. He should be capable of reading/ writing (Hindi/English/Odia).
- e. One Helper preferably less than 50 years of age.

Three Phase HT CT/ Feeder meter installation team comprising of :

- a. One Lineman ITI (Electrical), having MV license and preferably 2 years of relevant experience. He should be capable of reading/ writing (Hindi/English/Odia).
- b. One Helper preferably less than 50 years of age.



Note:

- BA to ensure that adequate manpower is available for working at site if required over and above the above mentioned composition to execute the work.
- Meter Installer and Helper will not work on live line.

Type of Vehicle to be used for Metering activities:

2.2.2 Single Phase Metering services :

- a. Any 4 Wheeler suitable for geographical terrain in area of operations (like Mahindra Supro / Tata Magic / equivalent or higher).
- b. Single Phase team for New Service connection should mandatorily operate using 4 wheeler.(There should be separate team for NSC). Bike team is allowed only for meter replacement work where cable work is not included.
- c. Minimum 50% of Single Phase teams for meters replacement should be operated through 4 wheelers vehicles.
- d. Driver of 4 wheeler vehicles must have valid commercial license.
- e. Fully closed 4 wheeler vehicles can be deployed with team.
- f. Bidder to ensure all Statutory Requirements for operating these vehicles during all working hours in TPCODL.
- g. Single Phase team will assemble in office from where vehicles have to start for work on daily basis. This place may change with in division based on availability of work.
- h. TPCODL engineer may accompany the BA Team for performing metering activities as & when required. BA has to accommodate his movement from office to site / site to site along with BA team.
- i. All commercial vehicles should preferably within 4 years old or should not have run for more than 1,00,000KM at the start of contract

2.2.3 Three Phase Metering activities : All four wheeler vehicles shall be GPS enabled for tracking of the .

- a. Activities of three phase metering services, shall only be done with 4 wheelers vehicles. 4 wheeler vehicles should be suitable to carry execution team, material (including Tools and Tackles), and TPCODL engineer. The vehicle should be Mahindra Bolero / Equivalent / Higher.
- b. All vehicles should be preferably within 4 years old or should not have run for more than 1,00,000KM at the start of contract
- c. Bidder to ensure all Statutory Requirements for operating these vehicles during all working hours in TPCODL.
- d. Three Phase LT Metering Team and Modem rectification (Technician) of BA will report to 3 Phase Engineer-MMG in Division.
- e. Three Phase HT metering / DT metering / HT meter testing team will be reporting to concerned Engineer in Charge or his representative.



- f. The vehicles for installation of meters shall depart on or before 09:00 am every morning only under direct supervision of Site In-charge.
- g. For transportation of heavy metering equipment like CT/PT units or cubicles, BA to deploy suitable vehicle for transportation of material from Central Store to Lab (for testing) and thereafter to site for installation. BA must deploy crane for installation of heavy equipment.
- h. All three Phase teams must have CMRI / any other equivalent device for data downloading provided by BA.
- i. **Van Model : - Van Model : - All weather proof** closed van with **lock and seal arrangement and** GPS tracking facility along with driver required one for each Urban Divisions (BCDD-1, BCDD-2, BED, CDD-, CDD-2) for safe storing & movement of meter (PPWC, LTCT & HT) from TPCODL stores to all sites for installation **on daily basis**. The Van will be kept at concerned Division/store/TPCODL office as per feasibility professed by authority with lock & key arrangement.

VAN Specification:

- **All weather proof closed VAN preferably EECO**
- **There shall be separate lock and seal arrangement.**
- Van should be within 5years old .
- If required the Van may be customized as per TPCODL requirement for safe custody of the meters.
- Rest other specification will be same as Clause-2.2.3 of this document/

All the necessary statutory compliances shall be the responsibility of the BAs & same to be audited by TPCODL Admin.

- j. BA shall provide vehicle for movement of meters from Central store to BBSR Lab/Cuttack Lab for testing & movement of tested meters to respective TPCODL stores. This activity will be required minimum thrice in a week & as & when required. The concerned BA for BCDD-1 & CDD-1 shall be responsible for this activity.

Additional manpower / teams along with vehicle shall be deployed by bidder within 15 days of receipt of request from TPCODL with specific target for any additional activities. These additional teams shall be deployed for at least 3 month by respective engineer in-charge and shall ensure that the targets should be met as specified in the requirement.

Note : Team may have to work at Night hours on need basis.

2.2.4 EIC Monitoring Mechanism for daily activities

- a. EIC / Circle / MMG Division in-charge will provide target to BA for meter installation for any month and accordingly intimate BA to deploy number of teams as and when required.
- b. BAs' areas/ division/ sub-division, as the case may be, can be restricted to specific location/



area as per the business requirement to operate. Localization of BAs' Division wise / Sub-division wise, Jobwise (Normal business/ smart meter) or Hierarchy-wise can be done as per the decision of engineer in-charge and will be informed to bidders in advance to plan their movement accordingly.

- c. EIC may allocate any central stores to a BA operating in any Division from where material can be drawn.
- d. Monthly targets will be intimated to the BAs two weeks in advance as per requirement and BAs capability. Targets will be signed mutually by both BAs and EIC or his representative.

2.2.5 BA compliances for daily activities :

- a. Company has deployed uploading of meter, seals, material consumed details and GEO tagging details from site using mobile application. So, BA supervisor must have Smart Phone along with mobile printer with required data enablement to upload the information through mobile on real time basis and provide the printed report to the consumer on site itself .
- b. Capturing clear photographs of all meters installation cases and return (not executed) cases due to constrains at site. The photographs shall be submitted to Metering Team in form of digital media / Pen drive, bi-weekly on sorted CA / Notification-wise. Generally 5-6 photos have to be brought as:
 - i. New Installed Meter, ii. Connection point at pole end, iii. Sag provided, iv. Service Cable at consumer end & v. Pole No, vi. Photograph of old removed meter, vii. Photograph of old removed meter reading. Same is to be converted in to a single PDF and uploaded in SAP. This will be considered as a part of meter installation activity. Mobile app should be used for this activity.
 - 1. The photos shall be sorted based on notification number & meter number wise and same shall be submitted to respective Engineer In-charge on weekly basis and should be uploaded in SAP.
 - 2. Capturing of GPS co-ordinates of meters in protocol will be must. Mobile app to be used for this purpose
- c. HT meter execution team will have to perform work of LT 3 Phase metering activities on need basis or testing of HT meters.
 - 1 The agency will get the job advices for next working day, on previous evening through Service Order. The vehicle may be loaded with meters and accessories on previous evening itself and must be parked at designated location. These vehicles can be audited by TPCODL staff at any time with or without prior intimation to BAs.
 - 2 For three phase activity :

- 2.8.** For execution of work pertaining to connections with Sanctioned load ≥ 20 KW, BA representative has to make pre-visits to plan for requirement of site like material, quantum of work, shut down etc on need basis. To have meaningful visit at the customer site, BA shall send his request to Manager MMG Division (Three Phase metering), DyM / AM-HT / TL-/ LE metering and Projects team for joint visit per site requirement for outcome in one



or two pre-visits. TPCODL official as per their suitability shall join the BA team for constructive visit at consumer site to avoid multiple visits of BA for same job. This will reduce inconvenience to consumers as well.

- 2.9.** TPCODL official shall hold meetings with Gram Panchayat, IWAs, RWAs for initiating execution of metering activities. Subsequent to this, during execution stage, numerous circumstances shall emerge hindering the execution of smooth progress. In order to curb these circumstances, BA has to plan interaction with IWA / RWA / Gram Panchayats, or any other person. BA shall request EIC for visit to site for meeting for desired output from the executing team.
- 3 For arranging meetings with Gram Panchayat, IWAs, RWAs for initiating execution of mass metering activity, BA has to make multiple pre-visits to site along with TPCODL representative. In addition, there may be various site conditions during execution where TPCODL representative would be required to visit the site. Further to this, BA may require presence of TL for various trainings and safety talks with teams. BA if requires, may engage TL (Single Phase metering) and take him to site / office based on his availability. BA may request TL Single Phase metering to join him for these interactions at desired locations.
- 4 The agency will be responsible for loss or damage of meters and other associated material if any for which TPCODL can resort to recoveries.

2.2.6 Manpower Deployment for Support Activities

Refer BOQ. (Annexure)

2.2.7 Submission and punching of protocols :

The Agency shall ensure daily submission of filled protocol sheets of all type of activities, for all the jobs completed during the day, at MMG Sub-Division / Division office / Data Centre for Circle or other suggested **TPCODL location on same day of execution**. BA to ensure 100% data updating through MMG APP on site. BA should provide one Smart Mobile device with data pack along with Bluetooth Thermal Printer per team for printing of protocol at site & serving to consumer.

- a. Bidder to arrange sufficient manpower for punching of **protocols in system on next day of execution of work**. Movement of protocols to data center (where Protocol Punching operators will be sitting) and after punching to record room (where all protocol will be kept for record) will be in scope of BA. BA to arrange for required no of computers, broadband internet connections for punching of same. These KPOs in an office arranged by EIC or at any location as agreed by EIC and BA.
- b. Agency should maintain proper records of duplicate copies of protocols in hard and soft in easily retrievable formats at his location. Agency shall submit the same on any such requirement of protocols / data as per requirement from TPCODL.
- c. TPCODL has mobile app for updating required data of meter installation from field. BA to keep resources ready for same. BA should provide one Smart Mobile device with data pack along with Mobile Printer per team for this activity



- d. All such data maintained cannot be shared with third party without prior information to Engineer In-charge.

Note : As per current trend, it is identified that one KPO can punch 50 meter protocols in a day, so BA should deploy KPOs accordingly.

2.2.8 Daily Monitoring Mechanism, Reports and MIS :

- a. Agency shall provide Daily Meter Installation Report in format provided by TPCODL to capture site visit details and submit the same to MMG on the same evening. TPCODL may change the format of control sheet as per requirement of EIC on time to time basis.
- b. BA shall be responsible for reconciliation of material and generating all reports & formats including exception reports on daily basis.
- c. All new connection cases shall be completed in 24 hours from the date of issuance of case.
- d. Utilisation report of all the materials will be submitted along with bills of subsequent month in prescribed format along with check list.

Testing of meters

2.2.9 Testing of single phase meters

- a. TPCODL will provide accucheck (Standard Meter for testing of accuracy of meters) for testing.
- b. One team per division comprising of one Diploma holder (Electrical) with 2 years of experience in maintenance of LT / HT Distribution network / metering activities and one Technical (ITI) along with required transportation.
- c. These personals will report to EIC.
- d. Maintenance of Accucheck will be in scope of BA, however annual calibration of same will be done by TPCODL (Cost of BOM should include on manpower cost).
- e. Accuracy results along with required information should be captured in protocol.
- f. Team should operate in a 4 wheeler vehicle/required transportation.
- g. This activity can be supervised or unsupervised as per site condition.
- h. If required for any critical case/consumer responsibility of transport of TPCODL engineer will be in the scope of BA.

Note : If the given equipment will be damaged / lost by BA, cost of equipment will be recovered from BA.

2.2.10 Testing of Three Phase Meters

- a. TPCODL engineer will supervise the testing.
- b. Three phase meter installation team will conduct this testing.
- c. Testing equipment will be provided by TPCODL.
- d. Transportation of this engineer, Test equipment along with BA staff will be in scope of BA. This should be done using 4 wheeler vehicle as defined in meter installation team.
- e. Maintenance of Accuchecks, testing kit will be in scope of BA, however annual calibration of



same will be done by TPCODL.

- f. Maintenance and annual calibration will be in scope of TPCODL, however BA to take adequate measures for proper up keeping of test equipment.
- g. Accuracy results along with required information should be captured in protocol.
- h. This team will test three phase meters falling under the jurisdiction.

2.3 Payment Terms:

At end of each month, BA shall provide reconciliation of protocol in the system. Based on reconciled protocol, the payment shall be released as per below milestone:-

- a. 80 % payment shall be released immediately after submission of bill at designated desk.

(GM MMG (Three-Phase) and GM MMG (Single Phase) shall ensure the payment by 7th of every month)
- b. 20% payment shall be released immediately after reconciliation/verification of safety, quality parameter and material, return of removed meters and metering materials to respective stores (Warranty/Scrap) by EIC duly verified through proper channel within 25 days from receipt of bill if no discrepancies in found.

(GM MMG (Three-Phase) and GM MMG (Single Phase) shall ensure the payment for balance 20% of bill by 25th of every month)

Note : Safety and Quality parameters includes ensuring sufficient stock of PPEs at BA main store for replenishing faulty tools and PPEs

2.4 Submission of Bills:

- a) Bills must be submitted on monthly basis (for activities performed from 1st date of month to last date of month) within 3 Working Days of the next month at TPCODL location Intimated from time to time.
- b) Bills must be prepared on the basis of protocols updated during the month.
- c) The bill must be submitted along with the required supporting documents as required by EIC.
- d) The concerned EIC shall immediately process SES for 80% payment & 20% payment to be done after due verification and GM MMG (Three-Phase) and GM MMG (Single Phase) shall ensure the timely payment as per the timelines defined at above terms and conditions.
- e) TPCODL shall not be liable to delay in payments on non-confirmation of above required.
- f) Separate bills should be raised for activities performed under concerned EIC(single phase & three phase) or as perbusiness requirement intimated to BA by concerned EIC form time to time.
- g) Required documents for all compliances should be submitted along with bills. EIC can

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increase or decrease the documents required for verification of bills.

2.5 Incentives to the Agency

Criterion:

- a. Single Phase Enforcement cases/mechanical meters if replaced/resolved within 3days shall be eligible for an incentive of 40% of the Base Rates.
- b. BA shall be given an incentive for achieving 100% usage of MMG app for the type of metering allotted for application usage @ 2% of the bill raised for the concerned activities.
- c. For three phase meter installation: - Incentive @Rs.100/- per each meter above the assured Base Level Performance i.e. above 5 f or urban divisions(BCDD-1, BCDD-2, BED, CDD-1, CDD-2) & above 4 for other Divisions. This will be calculated on a monthly basis.

Base Level Performance Incentive (BLPI) will be calculated as follows: -

$BLPI = (\text{Total No. of Installation}) / (\text{Total no. of Teams deployed in a month})$

The BA shall ensure the proper distribution of incentive to the eligible team members.

2.6 Activity Penalty (Liquidated damages) :

2.6.1 Penalty for inadequate execution :

1. Penalty of Rs. 50/- per day per case will be imposed in each of the following categories :
 - a. Delay in installation of New connections beyond 2 working day if the case is applied through SAP.
 - b. Delay in punching of Protocol beyond two working days after completion of job.
 - c. Delay in replacement of Defective Meter/Burnt Meter/No Meter/Cable in the defined IMS time line
 - d. Delay in replacement of Enforcement Meter/Cable within in 15 days.
 - e. Delay in testing of Consumer meters (Challenge Test) at site in the defined IMS time line.
 - f. Return of removed meters / material at scrap / warranty store beyond 30 days.
 - g. Delay in removal of meters for Permanent Disconnections Cases in the defined time lines
2. If meter gets burnt due to poor workmanship, penalty equal to cost of meter will be recovered.
3. In case of false reporting (like wrong picture, wrong details, and wrong return remarks) for return case by bidder, a penalty @ 2 times the rate of execution of the concerned case shall be levied.
4. Penalty of Rs 100 per case will be levied for wrong punching of protocol in system.
5. Penalty of Rs 100 per case will be levied for not uploading photographs in SAP within 2 working day of execution of case.
6. Penalty of Rs.50 per cases will be levied for Non Punching of Data through MMG APP on

Site without Proper reason.

7. Penalty of Rs. 1000/- per day per team to be levied in case BA fails to provide the minimum no. of teams as given in the following table: -

Row Labels	Minimum no. of Single Phase Team for all types of metering activities	Minimum no. of Three Phase Team for all types of metering activities
Electrical Circle - I ,Bhubaneswar		
BCDD-1 ,BHUBANESWAR	18	6
BCDD-2 ,BHUBANESWAR	49	15
BED,BHUBANESWAR	47	13
NED , NIMAPARA	16	4
Electrical Circle - II ,Bhubaneswar		
BAED,BALUGAON	13	3
KHD , KHURDA	24	6
NAYAGARH Div	18	4
PED,PURI	22	3
Electrical Circle,Cuttack		
AED,ATHAGADA	10	1
CDD-1,CUTTACK	28	3
CDD-2,CUTTACK	23	3
CED,CUTTACK	12	3
SED , SALIPUR	9	2
Electrical Circle,Dhenkanal		
Angul Division	10	5
DED,DHENKANAL	14	4
TED ,TALCHER	11	4
Electrical Circle,Paradeep		
JED,JAGATSINGPUR	7	2
KED1,KENDRAPARA	20	2
KED2,MARSHAGHAI	8	1
PDP,PARADEEP	7	2

Note: Penalty for not providing the minimum number of teams as mentioned in the above table may be waived off subject to 100% achievement of monthly targets and timelines provided by EIC with the same teams in all category of allotted works taking together.

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8. If company owned meter after removal from site is not returned to TPCODL store, cost equivalent to new meter cost will be recovered for every meter.
9. Any re-work done to improve the quality as required under tender will be free of cost to TPCODL.
10. Two times the cost of testing of meters at site (Unsupervised Job) will be deducted from the bill of BA for each incorrect test results declared.

2.6.2 Penalty for non-compliance of Tools and Vehicle

1. Non availability of items in vehicles / non-availability of specified vehicle, at the time of surprise inspection. Penalty @ Rs 2000/- per such occurrence will be imposed.

Total penalty under clause 2.6.1 and 2.6.2 taken together will be as following:

- This will have an upper sealing of 10% of monthly bill amount raised by BA.
- List of tentative tools required is given in tender document, however any tool which is required for quality work should be arranged by BA in required numbers.

2.6.3 Penalty for non- compliance of Safety and Ethics

1. All penalties as per Contractor Safety Management (CSM) will be applicable.
2. BA not able to conduct 2% safety audit as per submitted monthly report for any set of division, failing which penalty @ Rs 5000/- per month, will be imposed on the bill of that set of division.
3. Reporting of any unethical activity against BA / replacement of tamper meter, a penalty of Rs 10,000/- per occurrence will be imposed and termination of employee / contract with Agency can be done as per the discretion of EIC.

2.6.4 Penalty for Non reconciliation of material:

1. Monthly reconciliation of new and removed meter to be completed by bidder on 1st day of subsequent month for last month. Processing of bill for the month will be done only after submission of re-conciliation report for previous month to EIC i.e. for processing the bill of month of Nov, reco report of Oct, duly signed by concerned engineer should be submitted. Upon reconciliation, if any material (other than meters and Seals) is found missing, 1.5 times the cost of such missing material will be recovered.
2. Removed meters and metering material from site shall be returned to the respective stores(Scrap/Warranty) duly signed by EIC and Head Metering Failing of which, Penalty shall be imposed as per payment terms.
3. Loss of any TPCODL meter or seal (**FIR lodged** with police station and informing TPCODL within 3 working days) Rs 7000/- per single phase meter, Rs 15,000/- per three phase whole current meter, Rs 25,000 /- per CT meter and Rs 1000/- per seal will be imposed.



Engineer in Charge or MMG Circle In charge is the final authority to waive off any penalty based on site conditions / circumstances beyond the control of BA.

No penalty will be imposed in first 2 months of execution on target based performance parameters.

2.7 PPE, Tools & Tackles:

The agency shall provide the tools and tackles to each team as per specifications / PPE matrix (Annexure-2) or through any other notification as shared by TPCODL. Brief list is provided below:

2.7.1 Regular Tools:

Tools	Make	Specification
a. CMRI for all 3 Phase teams	Sands / Analogic	Suitable for Data download of meters commonly installed in TPCODL
b. Crimping tools	Dowll, Jainson or Equivalent	4sq mm to 300 sq mm
c. Clamp Meter of	Rishab or equivalent	0-20A-200A
d. Multimeter for testing voltage	Rishab or equivalent	0-650 Volts
e. Drill Machine with extension and ELBC. Battery Operated Drill Machine.	Bosch, Black and Decker	Suitable for fixing meters of Single Phase and Three Phase.
f. Extension cord with ELCB for Drill Machine.	GE, Ligrand , L&T or equivalent	Rating : 30 mA
g. Hammer	Taparia / Pye	0.5 KG
h. Phase tester	Taparia / Pye	LT Line
i. Lineman's Insulated pliers	Taparia / Pye	8 Inch
j. Wire stripping pliers	Taparia / Pye	
k. Cut resistant gloves for team cutting cables.	Ugygi	
l. Saddles	Any Make	For Holding cable
m. Screw Driver of different heads	Taparia / Pye	One sided fixed only.
n. Box Spanner set	Taparia / Pye	Suitable for fixing lugs up to 300 sq mm
o. Tool box / Tool Bag	Taparia / Pye	Suitable for keeping required equipment

p. Double test lamp with Pigni Lamp	Self Developed	2 Pigni Lamp in series
q. Pre-define Insulated torque Spanner Set	Taparia / Pye	Suitable up to 300 sq mm lugs
r. Measuring Tape	Any Make	30 M
s. Phase Separator	NA	Bakelite sheet
t. Safety Pouch for keeping tools while working	Any Make	Canvas bag with Belt holding at waist.
u. Safety cones with Caution tapes	Any make	LDPE material 750 MM
v. Torch / Emergency light	Eveready or equivalent	LED Torch
w. First Aid Box	Metallic Box	As per table below
x. Rope	8 mm or more	Nylon Rope various size suitable for passing tools to lineman working at height, for pulling cable to top of pole.
y. Copper/ Brass chains & shorting leads	Any Make	Suitable length to short 11 KV line
z. Fire extinguisher	Any Make	ABC Dry Powder type 2KG
aa. Ladder (foldable type(2/3 Layer)or as advised by TPCODL) for suitable height.	Sintex or equivalent	FRP with holding 'U' clamp on top rug, collapsible 9 M
bb. Neon Tester for HT Teams.	Technology Products	Suitable for up to 33KV
cc. Discharge Rod 6 Nos with each Three Phase Team.	Taurus Power	
dd. Water Level Gauge.	Any Make	For holding meter straight w r.t. ground reference

Material in First Aid Box

S.No.	Name of Medicine/ Items	Quantity at the time refilling FAB	Usage
1	Bandage 5CM x 3M	6	For dressing of wounds
2	Hansa Plast Wash Proof or Equivalent	16	For dressing of minor wounds / scratches/ injury
3	Cotton 30 GM	2 Rolls	For cleaning / dressing of wounds

S.No.	Name of Medicine/ Items	Quantity at the time refilling FAB	Usage
4	ORS Power 21GM	2	For dehydration
5	Savlon 50ML	1	Antiseptic solution for cleaning of wounds
6	Cipladine Ointment 15 GM	1	For cut/ burnt wounds
7	Omni Gel Cream 30GM	1	For sprain/ swelling / pain, etc
8	Sterilized Cotton Pad 10CM x 10CM	2	For dressing
9	Scissor 110MM	1	For dressing
10	Forceps 4 inches	1	For dressing
11	Safety Pins	1 Pack (10 pieces)	For misc. use
12	Splint	5 pieces	For support of fractured part
13	Tablet Crocin	30	For fever / headache / body pain
14	Tablet Digene	30	For gas / acidity / pain/ abdomen problem

2.7.2 PPEs

1. As per PPE Matrix shared by TPCODL in Annexure 2:
 - Double rope Full body safety Harness with latch system & thigh protection (EN 361:2002/ EN 358 : 2000/IS: 3521:1991/2002)
 - Safety helmet (IS:2925-1984) with visor (EN: 166 CE marked)
 - Safety shoes (IS:15298), insulated gloves(EN: 60903 CE marked),
 - Rubber mat (for shock resistant upto 11KV).
 - Electrical Safety Gloves.
 - Face Visor (big enough to cover up to neck)
 - Reflector Jacket
 - Hand Cotton Gloves.

Any other PPE as suggested by Engineer In-charge.

Note : Any other Standard tool which BA considers to be used should also be included. Bidder to ensure to keep minimum of 5 % reserve of all tools and tackles to meet the daily requirement without hampering the work. Stock register to be maintained by BA and shall submit a copy of same to TPCODL for verification along with monthly bill being invoice submitted.



2.8 Materials for execution of work:

2.8.1 Materials issued by TPCODL:

All major items viz Meter, Meter Boxes, Cable, meter seals, Bus bars Box, Distribution boxes, Cable Glands (for pole mounted DBs), PVC Caps for LTCT box. BA will reconcile the material issued by TPCODL on regular intervals specified by TPCODL.

2.8.2 Materials would be supplied by BA:

1. (Cost shall be included in the BOM activities) : IPC of various sizes, Cable anchor clamp, shackle insulator, GI wire(7/10Sq.mm), D- clamp, line taps, wedge connectors, cable tie, wall corner clamps etc, Lugs for 95sq mm & 150 sq mm, fasteners (assorted), nails, Saddles, Nut Bolts, Thimbles, ISI marked Insulation tape, HT tape, M seal, Ferrule, Aluminum binding wire, Bobbins, Earth wire (multi stand-16 MM), Pre-paid meter connector, cotton tape, spring washer, Link of suspension clamp, Steel Straps & Buckles, carbon paper, pins etc. and any other miscellaneous items of quality specified by TPCODL. All metallic material should be GI only. PVC Suction Hose Pipe 1.5 Inch suitable for holding control cable of HT Metering Units (avg. 10 M length with elbows).
2. Material shall be supplied by BA as and when required /as per site requirement and would be paid by TPCODL -
 - a. Pre-fabricated MS structural angle/channel/ flats of size (b x h x t) (50 x 50 x 6) of 300 mm long.
 - b. Pre-fabricated GI structural angle /channel/flats of required size. 1 set GI angle contains 2 no. of Slotted angle of size (40 x 40 x 6) of 400 mm long) and 2 nos of GI nut bolts of size (16 mm x 200 mm long) for cable size upto 4*150 sq.mm.
 - c. Pre-fabricated GI structural angle /channel/flats of size. 1 set GI angle contains 2 nos of Slotted angle of size ((50 x 50 x 6) of 400 mm long) and 2 nos of GI nut bolts of size (16 mm x 200 mm long) for cable size upto 4*300 sq.mm.
 - d. Assorted Size (25 mm to 100 mm) of GI Pipe for underground cable connection. Digging provision along with ROW permission wherever required for underground cable connection will be taken care by BA. MS /GI structure will be in the form of slotted angle/D Clamp (at pole end/Temporary Connection/Distribution box), extension angle (where ground clearance to be extended at consumer end), angle bracket with double anchor fastener (at consumer end) etc. (Wherever not mentioned, TPCODL reserves the right to modify / amend the above as per requirement)

2.9 Certificate of Quality:

BA shall submit a self-certification for quality of installation with every bill submitted to TPCODL to confirm that installations have been in accordance with procedures / standards laid down in



this document and other quality norms of TPCODL. If any deviation in Quality is observed, agency will rectify within 10 days of notice given by TPCODL.

2.10 Statutory Requirements:

The BA is required to complete the following minimum statutory compliances and submit the documentary evidence for the same.

- a) Provident Fund code
- b) Obtains ESI no. of all employees.
 - a. Gets its workers insured so that he is in a position to make the payment under Workmen Compensation Act in case of any eventuality. Please refer GCC guidelines for the same having mention of insurance requirement.
 - b. Submits information to Principle Employer on the Standard Format
- c) Obtains Form V from the Principle Employer
- d) Obtains labor license from the Labor Dept.
- e) Complies with the CL (R&A) Act.
- f) Possesses a valid Service tax registration certificate.
- g) Workmen Compensation, PA Insurance of worker / supervisor deployed in the job ; Copies to be submitted to TPCODL
- h) Any other document required as per statutory requirement / applicable time to time.

2.11 Installation Practice:

- a. Installation / replacement of LTCT meters shall be done with complete grouting, commissioning, and energization, communication of Meter (if applicable) and seal installation.
- b. Installation / replacement of HT 11 / 33 KV meter along with indoor Metering cubicle, energy meter and modem including (for AMR) to and fro transportation, commissioning and energization in all respect (i.e. grouting, masonry work, two earth connections, HT cable ends termination, socket/ thimble crimp, tape, plug cable entry hole, sealing cable end boxes, meter terminal cover, window and chamber door. Metering cubicle has to be collected from Circle Store / Meter Testing Lab). Installation of Metering Cubicle should be done with crane.
- c. Installation / replacement of new HT 11 / 33 KV meters along with outdoor Metering CTPT unit, energy meter and modem include to and fro transportation, commissioning and energization in all respect (i.e. connection in meter box from CTPT terminal block through control cable, pole mount CTPT unit erected at 30 feet height. Fix and Bolt CTPT unit, stand pipe flange, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CTPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door and any other minor work for completion of installation.) Installation of Metering Cubicle should be done with crane.
- d. All service cable installation / replacement shall include the installation of saddle, fastener for support.



- e. Installation of distribution box / pole mounted bus bar on pole shall be done with steel strap and buckles.
- f. Repair in CT Meter termination will include installation of thimble / socket crimping gland change, cable lead extension crimping and tight.

Detail Standard Operating Practice will be shared with successful bidders on award of contract and shall be binding for BA.

3. Field Service Executive Services (FSE Services)

3.1 Scope of Work & Service Level Agreement:

3.1.1. Key Descriptors of Performance Contract

1. The bidder shall deploy manpower for
 - a. Field staff for site visit report for new connection/ pre-inspection for new service connection/attribute change/ any other attribute as convey by EIC TPCODL. Further the site verification report has to be provided either is hard copy in the prescribed format or in digital format.
 - b. Whenever the site verification report is provided digitally, Bidder needs to provide the mobile phone to the surveyor. However, TPCODL will facilitate with requisite software to captured the details.
 - c. Back office Support (whether at BA location or at TPCODL location as mutually agreed) for monitoring/ QC/ reports/ confirmation calling etc.
2. Bidder shall ensure to submission of New Connection file, Attribute Change file along with other documents prepared in the field or any office to any office like Division office / sub division office / Section office / centralised back office within 1 working day. This will be in line with the process being followed and *Engineer In Charge will communicate the location*. If the file is prepared digitally, same needs to be uploaded / provided same day.
3. The bidder shall ensure to maintain the privacy of data and records provided by TPCODL for the execution of this Contract and under no circumstances take any data or records from TPCODL premises without proper approvals/sanctions by Engineer In-charge.
4. Bidder and its employees or representatives thereof shall strictly maintain the confidentiality of all data's, documents, papers, correspondence and any other information its business, operations, divulge or communicate to any third party or use for its own purpose any above mentioned information, etc. the Bidder shall neither disclose nor use the above for any purpose whatsoever without prior written approval of Engineer In-



Charge. In case of violation of this clause, the bidder is liable to pay compensation and damages as may be determined by Engineer In Charge.

5. 20 % Payment shall be made on complete site visit report including Technical and Commercial aspect as per the format (hard or Soft) and only on monthly basis as per scope of work and service level agreement.
6. The Engineer In charge for this work shall be respective MMG Engineer.

3.1.2 Manpower Qualification:

S. No	Manpower Category	Qualification
1	Supervisor	Technical Graduate or Diploma Holder (Electrical Engineering) with good knowledge Computers / team handling.
2	Field Staff Executives (As per requirement)	ITI / 12th pass should be able to read and write in English, Hindi and Odia.
3	Back Office support Team	12 th /Graduate with knowledge of working in computer

This is a performance based contract and the manpower deployment by bidder shall be based as per requirement. However, TPCODL will share the approximate quantum of work based on past trend. **The said supervisor shall operate from TPCODL Division office** for correspondence, resolution of issues / monitoring/ follow-ups arising w.r.t Field visits and to supervise day to day activities of processes defined above, as per direction of Engineer In-charge.

3.1.3 Scope of Work & SLA: Site Visit – Field Staff Executive

1. Bidder shall arrange site verification activities by pre-scheduled appointment with consumers (irrespective of any holidays) and submission of report in formats/requirements by TPCODL. The appointment scheduling wrt date & time, be taken by vendor/BA as decided. However, TCPODL may decide to take appointment as part of policy which will purely be on volunteer basis.
 - a. Appointment Fixed by TPCODL: Bidder to ensure that the Site visit to be conducted as per the schedule given by TPCODL
 - b. Appointment to be taken by bidder: Bidder to ensure that the appointment along with site visit to be conducted within 2 days of request received in system. In case consumer has given the appointment for date more than 2 days, bidder must communicate the same to EIC on a daily basis.
 - c. Site verification report (SVR) for new connection, attribute changes and confirmation of dues to be provided in hardcopy of (SVR) to be submitted in TPCODL Division office by



next working day from the date of site visit by bidder. The hard copy of SVR must have signed by FSE & duly stamped by bidder and submitted.

- d. In case SVR is being filled digitally, the same needs to be uploaded on the same day, preferably on real time basis.
 - e. Collection & Verification of documents: Bidder needs to collect and / or verify the documents as per the matrix shared with the Bidder during the site verification. Any additional documents if shared by applicant on site, is also, needs to collect during the visit.
2. Bidder shall maintain and provide daily, weekly, monthly MIS and reports to TPCODL as per formats provided by TPCODL.
 3. In site verification report(SVR) bidder has to capture details like :
 - a. Name of the Applicant
 - b. Address
 - c. Phone no.
 - d. Size of Service cable required
 - e. Service cable length
 - f. Whether the connection is feasible from existing network or LT extension is required to release the connection
 - g. Pole No
 - h. Distribution Transformer No
 - i. Stage of Construction of premise: Under Construction/Complete Constructed.
 - j. Is applied premise is separate dwelling unit /industrial unit: Yes/No
 - k. Adjoining consumer number and Meter No. of meters installed in left & right of premise.
 - l. Capturing Photographs(soft-copy required) of the site where meter to be installed preferably with applicant & of the premise covering left & right premise
 - m. Capturing same premises KNO / Meter .No.
 - n. Total Area & Applied Area.
 - o. Total no of floors and applied floors and details of any additional address as informed by applicant
 - p. Area map / Location map
 - q. GPS Coordinates
 - r. Observation / Details remarks etc as per formats/ requirement given by TPCODL.
 - s. Additional details may also be included as per the requirement of the process/activity.
 4. Necessary form for site verification and other data capturing form along with cover shall be provided by TPCODL.
 5. Bidder shall ensure mandatory site (as per the format/ requirement) the physical report copies by field executive of all visits to be deposited to TPCODL by next working day.



6. Timelines as defined in the scope of work & service level agreement and the system of FIFO(First in first out) to be incorporated in all cases except for any of the following:-
 - Court Cases
 - Cases referred by EIC
7. In the above referred cases the BA may be asked to collect/ submit any type of document from customer and file preparation at any time during the day as required by Engineer In-charge.
8. Quality checking of the site visit report/ document collected (all the entries in site verification report or field report are correctly filled) to be done by bidder.

3.1.4 PERFORMANCE STANDARDS AND TIMELINES FOR FSE SERVICES:

The volume considered is on estimated basis. Approximate monthly volume against Performance metrics for above mentioned scope of work is as per the BOQ.

3.1.5 LIQUIDATED DAMAGES TOWARDS PERFORMANCE:

Penalties towards performance and other activities related to scope of work which can be levied on account of safety, quality and timelines are defined as below. However, if bidder is not able to meet requisite performance standards on account of circumstances attributable to TPCODL/ consumer, No penalty is liable to be imposed.

The BA shall be liable for levy of performance penalty/ rejection for any discrepancy / error in the services rendered by the service provider that shall be checked / audited / reported by TPCODL. In case of such occurrence following deductions shall be levied:-

SI.NO	ACTIVITY	PENALTY (AMNT IN RS.)
1	Submission of completed SVR beyond the defined timeline	Rs. 50/- per case per day of Default
2	Submission of file at division level after collecting it from respective Sub-Division, Section Office within 1 working day.	Rs. 50/- per per day of default
3	In case of any misconduct with applicant.	Rs. 1000/- per case
4	Any fake / wrong information from site will lead to the termination of contract / penalty or both	Rs. 1000/- per case
5	Any unethical activity will lead to the termination of contract OR penalty OR both	Rs. 10000/- per occurrence

Further, in case of any financial loss to TCPODL arises out of wrong reporting / fake reporting, Bidder will be responsible to bear such loss completely as per the decision of the company.



4. Scope of Work for Data Downloading & Special Site Inspection

4.1 Brief Description:

Scope of Special meter reading shall also include reading with any of the following instruments

- CMRI
- Smart meter reading Device (Android Phone/Tab/Laptop)
- Manual meter reading

Downloading the Electronic data using CMRI and to provide the same data to Utility

4.2 Service Level Agreement

4.2.1 EIC Monitoring Mechanism for daily activities

1. It shall be also obligatory on BA to comply with all the statutory requirements related to Work-permit

4.2.2 BA compliances for daily activities:

1. All resource like Manpower, Phone, tool including CMRI / Laptop and software to download data of meters installed in TPCODL and transportation (4 wheeler vehicles should be suitable to carry execution team, material (including Tools and Tackles), and TPCODL engineer. The vehicle should be Mahindra Bolero / Equivalent / Higher) to be provide by business associate
2. All planning and working as per schedule and providing qualified manpower, seal management, field work to be organized by business associate.
3. Agency to keep up with new technology and take care of any advancement in software / hardware functionality.
4. Manual reading as per requirement of the UTILITY to be provided in given format.
5. In case of Premises locked (PL) / Box Locked (BL) a notice has to be pasted at prominent place on the premises and photographs of the locked premises and notices etc to be submitted along with the protocols and copy of notice.
6. In case of No Meter (NM)/ Disconnected (DC) and Sealed Premised (SP) cases format is to be filled and photographs of the same is to be submitted along with the protocol.
7. Data to be downloaded from the meters after cutting the box seals only. No other seals to be handled with. Seals are to be re-fixed after completion of data download with the seals provided by UTILITY. Damaged Seals are to be returned back to EIC.
8. Complete billing and load profile data to be downloaded as per instructions of UTILITY.
9. Protocols to be filled up with and signed by the consumer / its representative and the copy of the same to be handed over to the consumer.
10. MMG Division / AMI Group will provide list for data downloading. These include Feeder/DT/Consumer meters.



4.2.3 Daily Monitoring Mechanism, Reports and MIS:

11. Business Associates will follow the monthly, weekly, daily schedule of meters to be downloaded provided by UTILITY.
12. Seal reconciliation to be done by business associate and report in format as agreed has to be submitted on daily basis.
13. In case of faulty meters, burnt meters, damaged cable or any visibly obvious things leading to theft of power will have to be reported same day/ 24 hours.
14. Data to be uploaded in UTILITY designated systems only within 24 hrs. Data shall not be dumped or copied in other systems without written permission of UTILITY.
15. Protocols with soft copies in required format to be submitted to UTILITY within 48 hours.
16. In all remarks cases, photographs are required.

4.3 Payment Terms:

As defined above.

4.4 Tools, PPEs and Safety Training:

1. All readers deployed by BA have to undergo trainings (Hands on Technical Training-HOTT) which will be provided by TPCODL Employees in association with BA.
2. All readers will have to undergo an assessment. Only those readers,, who will clear the assessment will be allowed to work at site.
3. BA shall provide Personal Protective equipment to all its employees.
 - 3.1. Safety helmets, Safety Shoes, Safety Belts, Goggles, hand gloves etc. to its employees / workmen deployed as per the specific requirements of the job being performed.
4. BA shall ensure adequate safety precautions at site as required under the law of the land and shall be entirely responsible for the complete safety of its workmen as well as other workers, public, equipment, structures etc. at site

4.5 PENALTIES FOR NON CONFORMANCE

1. If Business Associates is not able to provide downloaded data during CMRI activity from a meter but UTILITY officer/engineer/technician or any other agency appointed by UTILITY is able to download the data without any rectification of meter or replacement of meter penalty @ 2 times per such case will be imposed.
2. Penalty is to be levied on wrong reporting of manual reading @ 2 times the rate of manual reading.
3. Jobs not completed within one week (7 days) will be treated as job not done. Penalty will be imposed on such cases @ Rs. 100 per case per day. However no penalty will be imposed for technical reasons of non-compliance.
4. Wrong seal reconciliation or non-conformance of the work will be liable to be penalized @ 2 times of activity rate.
5. If seal numbers are not mentioned in the protocol, or signatures are not obtained by consumer/ consumer representative severe penalty @ 2 times the quote rate will be imposed. However if consumer refuses to sign the protocol intimation of the same to be given to engineer of contract or to be informed to UTILITY immediately from site. (However exemption for signature is given in case of Govt. connection, Mobile towers and Street Light connections.)

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6. The contract may get terminated if it is found that the agency is involved in malpractices of seal tampering or helping in such cases lead to power theft. In such cases black listing and legal action also may be taken against the agency / its employee.
7. In all cases where agency is giving remarks Photograph should be provided to prove the remark else remarks will be considered as wrong.
8. Any wrong reading submitted to the utility Rs 100 per case will be penalized.
9. Loss of any TPCODL Seal (FIR to be lodged with police station and informing TPCODL within 3 working days), a penalty of Rs 1000/- per seal will be imposed.
10. Safety violation as per Contractor Safety Management (CSM) will be applicable. Engineer in Charge based on site conditions can modify the penalty clause other than covered by CSM.

It will be imperative on each Bidder to fully inform himself of all local conditions and factors, which may have any effect on the execution of the Contract covered under these documents and specifications. UTILITY shall not entertain any request for clarifications from the Bidders, regarding such local conditions.

4.6 Incentives

Extra Connections: Reporting Extra Live connections not in utility Billing system, presently or Disconnected/Removed in Utility billing system not given in downloaded data (with reading, correct MRU, adjoining CA and Walking Sequence.)

1. Rs. 100 per case to Business Associate(s)
 2. Rs. 1000 per Case to specific meter reader through Business Associate(s)
- Booked Direct Theft (DT) / Theft through Meter /Misuse Cases Rs. 50 / case to Business Associate(s)Rs. 500 / Case to specific meter reader through Business Associate(s) Reporting of un-ethical activity by meter reader / bill distributor and exhibiting good ethical conduct: Rs 500/ Incident post approval of TL –Reading & Billing and EIC.

5. Smart Meter Trouble shooting:

5.1 Scope of Work:

Scope of the work covers following:

- a. Installation / replacement of NIC with accessories
- b. Replacement of accessories for establishing communication like SIM, Antenna, power cord etc.
- c. Communication checking with MDAS.

5.2 SLA for NIC communication:

1. Modem troubleshooting cases to be rectified within 7 working days of issuance to BA. Execution of all the cases is mandatory.
2. For rectified Modem trouble shooting cases, it should remain communicating through AMR for 90 days from the date of Trouble Shooting (TS). If meter is not communicating for 90 days, BA has to rectify the same on its own cost.
3. Weekly report to be provided at Division and Circle Office regularly.



5.2.1 EIC Monitoring Mechanism for daily activities

1. Modems, Seals, SIMS, associated accessories will be provided by TPCODL.

5.2.2 Compliances for daily activities by BA:

1. All resources like Manpower, mobile handset/tab all tools and transportation (4 wheeler vehicles should be suitable to carry execution team, material (including Tools and Tackles), and TPCODL engineer. The vehicle should be WagonR / Dezire / Bolero / Equivalent / Higher) to be provided by Business Associates.
2. Modem Installation / replacement to be carried out under supervision of TPCODL staff.
3. In case of Premises Locked (PL) case, a notice has to be pasted and photographs of the locked premises, notices etc. to be submitted along with the protocols and copy of notice.
4. In case of NM (No meter), Meter Mismatch & DC (disconnected) cases, photographs of the same is to be submitted along with protocol.
5. BA needs to provide appropriate MIS for the cases allotted on daily basis with material reconciliation report.
6. Business Associate has to appoint adequate teams for timely Trouble shooting of modems.
7. KPO/ Technician will be responsible for updating Firmware in modem. Defective modems to be returned at Office weekly with weekly report.
8. All planning and working as per schedule and providing qualified work force, seal management, field work to be organized by Business Associates.

5.2.3 Manpower Deployment for Activities

1. One ITI- Electrical (with 2 years of experience of working on live line) should be deployed for Trouble shooting with all PPE's.
2. BA who will be given contract for Bhubaneshwar Division will have to provide 2 KPOs for setting up communication testing back office. This team should be provided with 2 computers/Laptop and 4 mobile phones on which field teams will be calling to cross check communication of the meters whose modems they have rectified.

5.2.4 Daily Monitoring Mechanism, Reports and MIS:

1. Detail Execution report including seal consumption, non-communication remarks etc has to be submitted by Business Associates on daily basis as per format provided by TPCODL. It is to be noted that damaged seals are to be returned to Engineer In-charge else same will be considered as lost.
2. BA has to provide the photographs in support of any remark provided in protocol.
3. Completely filled protocol with soft/hard copies in required format to be submitted to EIC and KPO at BBSR location every day and update in MDAS/SAP along with uploading of soft copy of protocol..
4. BA has to report any type of pilferage of electricity identified at site within 24 hours to EIC.



5.3 Safety Compliance:

1. BA has to strictly follow the contractor safety management system (CSM).
2. BA has to conduct Surprise Audit at site during execution of work in minimum 2% cases. A report of same is to be submitted in agreed up on format to EIC.

5.4 Payment Terms:

As defined above


5.5 Penalties for Non-Conformance in modem troubleshooting activity

1. In case of non-compliance of the timeline (i.e. 7 working days) of modem rectification (for fresh cases / repeated non-communicating cases with 90 days) a penalty of Rs. 50/- per case per day shall be imposed.
2. Wrong seal reconciliation or non-conformance of the work will be liable to be penalized @ 4 times of activity rate.
3. If the filled protocol with seals detailing is not signed from consumer / his representative, then penalty @ 4 times the execution rate of the case will be levied. However if consumer refuses to sign the protocol intimation of the same to be given to engineer of contract of TPCODL.
4. In case of non-performance from Business Associates, if TPCODL has to do this work on its own or get it done from another source then Cost for the activity + 50% of the same will be recovered from the BA.
5. The contract may get terminated if it is found, that the agency is involved in malpractices of seal tampering leading to power theft. In such cases black listing and legal action may also be taken against the agency or its employee.
6. Reconciliation of material (other than seals) has to be done on weekly basis and a penalty @ 2 times the cost of material will be imposed.
7. SIM communication tracking and management will be performed by KPO. Non-functional SIM need to be apprised with weekly MIS.
8. Loss of any TPCODL Seal (FIR lodged with relevant police station and informing TPCODL within 3 working days), a penalty of Rs 1000/- per seal will be imposed. Loss of any TPCODL Seal (without FIR lodged with relevant police station and informing TPCODL within 3 working days) Rs 1500/-per seal will be penalised.

Annexure 2- For list of tools and PPE -

List of PPEs and Relevant Standards.

Sl. No.	Name of PPE	IS / EN Standard	Proposed Brand & Model
01	Leather Safety Shoes (Colour – Black) with PU toe cap.	IS:15298 part2	BATA Liberty ACME M/s Unicare Fire Safety (India) Pvt Ltd
02	HDPE Safety helmet with chin strap and ratchet type for adjustment.	IS:2925-1984	Karam (PN Safetech) Joseph Leslie Accent Industries Honeywell M/s Unicare Fire Safety (India) Pvt Ltd ACME
03	Full body harness (Safety belt) with double lanyard	EN 361 :2002 , EN 358-2000(2) ,EN355-2002(2)	Karam (PN Safetech) Joseph Leslie Accent Industries M/s Unicare Fire Safety (India) Pvt Ltd Abrigo
04	Electrical Safety Gloves	EN: 60903 CE marked	Make -Sparian / Sumitech / CATU, Honeywell, JYCO,
05	Full face visor	EN: 166 CE marked (Visor) or as approved by TATA POWER-DDL	Karam (PN Safetech) Joseph Leslie Accent Industries Honeywell Paras Industries Windsor
06	Rope grab fall arrester with Polyamide life line rope.	EN353-2	Karam, Udyogi , Honeywell, Saha Rope Grab fall arrester
07	Reflective Jacket	Confirming to 15809	Crossway vertical solution, safety house, M/s Unicare Fire Safety (India) Pvt Ltd, safety solution, safety house or any other manufacturer confirming to BIS and TPDDL standard.
08	Hand Gloves Cotton	IS 6994(part1)	Safety house, safety solution, M/s Unicare Fire Safety (India) Pvt Ltd, or any other reputed make conforming to BIS.
09	Hand Gloves (Rubber type)	IS 6994(part1)	Safety house , safety solution, M/s Unicare Fire Safety (India) Pvt Ltd or any other reputed make conforming to BIS.
10	Leather Hand Gloves	IS 6994(part1)	Safety house , safety solution, M/s Unicare Fire Safety (India) Pvt Ltd or any other reputed make conforming to BIS.
11	Welding face shield	IS 1179/ EN166 ANZIZ 87.1	Safety house , safety solution, M/s Unicare Fire Safety (India) Pvt Ltd or any other reputed make conforming to BIS/EN 166.
12	Safety goggles	IS 1179/ EN166 ANZIZ 87.1	Safety house , safety solution, M/s Unicare Fire Safety (India) Pvt Ltd or any other reputed make conforming to BIS/EN 166.
13	Apron	IS 6994(part1)	Safety house , safety solution or any other reputed make conforming to BIS
14	Gum boot	IS 3738	Safety house , safety solution, M/s Unicare Fire Safety (India) Pvt Ltd or any other reputed make conforming to BIS

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1.0 ORGANIZATIONAL VALUES

The Tata Group has always been a value driven organization. These values continue to direct the Group's growth and businesses. The six core Tata Values underpinning the way we do business are:

Integrity - We must conduct our business fairly, with honesty and transparency. Everything we do must stand the test of public scrutiny.

Understanding - We must be caring, respectful, compassionate and humanitarian towards our colleagues and customers around the world and always work for the benefit of India.

Excellence - We must constantly strive to achieve the highest possible standards in our day to day work and in the quality of goods and services we provide.

Unity - We must work cohesively with our colleagues across the group and with our customers and partners around the world to build strong relationships based on tolerance, understanding and mutual co-operation.

Responsibility - We must continue to be responsible and sensitive to the countries, communities and environments in which we work, always ensuring that what comes from the people goes back to the people many times over.

Agility - We must work in a speedy and responsive manner and be proactive and innovative in our approach.

2.0 ETHICS

In our effort towards Excellence and in Management of Business Ethics at TPCODL, an Ethics Management Team is constituted.

The main objective of the Ethics Management Team is to:

1. Record, address and allay the issues and concerns on ethics raised by different stakeholders like employees, consumers, vendors, Associates etc. by initiating immediate corrective actions.
2. Ensure proper communication of the ethics policies and guidelines through prominent displays at all offices of TPCODL and through printed declarations in all concerned documents where external stakeholders are involved.
3. Ensure proper framework of policies as preventive measures against any ethics violation recorded by them.
4. Prepare and submit MIS of all issues and concerns, corrective and preventive actions on monthly basis to the top management for their information.

All members of Team TPCODL, Associates and Stakeholders are requested to register any grievance on ethics violation to Mr. Rajeev Kharyal, Chief Ethics Counselor.

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3.0 CONTRACT PARAMETERS

3.1 Issue/ Award of Contract

TPCODL awards the contract to the Associate in writing in the form of Purchase order (PO) or a Rate Contract (RC), hereafter referred as Contract, through in any or all of following modes- physical handover / post / e-mail / web document / fax with all the attachments/enclosures which shall be part of the contract document

On receipt of the contract, the associate shall return to TPCODL copy of the contract document duly signed by legally authorized representative of associate, within two days of Effective Date of Contract for contracts having contract execution time less than 30 days and within five days for all other contracts.

3.2 Contract Commencement Date

The date of issue/ award of contract shall be the Effective Date of Contract or Contract Commencement date.

3.3 Contract Completion Date

The date of expiry of Guarantee Period shall be deemed as the Contract Completion Date.

3.4 Contract Period/Time

The period from Contract Commencement Date to Contract Completion Date shall be deemed as the Contract Period/Time.

3.5 Contract Execution Completion Date

The stipulated date for completing the execution of all items in the schedule of quantities (Supply, Service and or both as applicable) shall be deemed as the Contract Execution Completion Date.

3.6 Contract Execution Period/Time

The Period from Contract Commencement Date to Contract Execution Completion Date shall be the Contract Execution Period/Time. Timely Completion of Works/Timely Delivery of Materials is the essence of the contract. The period from effective date of contract to the date stipulated for completion of delivery of all items/completion of all the works/services, as per schedule of quantities of the contract is defined as contract execution completion time. The Delivery of Materials /The Completion of Works, as applicable, should be achieved in all respects as per schedules of quantities and all the terms and conditions of the contract, in the contract execution time.

Any revision/amendment in the originally stipulated contract execution time has to be approved by authorized representative of TPCODL.

3.7 Contract Price /Value

The total all inclusive price/value mentioned in the PO/RC of the contract document is the Contract Price/Value and is based on the quantity, unit rates and prices quoted and awarded and shall be subject to adjustment based on actual quantities supplied/actual measurement of

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work done and accepted and certified by the authorised representative of the company unless otherwise specified in schedule of quantities or in contract documents.

3.8 Contract Document

The Contract Document shall mean and include but not limited to the following:

- NIT/Tender Enquiry, QR, Instruction to Bidders, Special Condition of Contract (SCC) of tender, GCC, Technical & Commercial Specifications including relevant annexure and attachments).
- Bids & Proposals Received from Associate including relevant annexure/attachments.
- Letter of Intent (LOI/RC/PO) with agreed deviations from the tender/bid documents.
- All the Inspection and Test reports, Detailed Engineering Drawings.
- Material Dispatch Clearance Certificate (MDCC).
- Minutes of Meeting (MoM)

3.9 Contract Language

All documents, instructions, catalogues, brochures, pamphlets, design data, norms and calculations, drawings, operation, maintenance and safety manuals, reports, labels, on deliveries and any other data shall be in English Language.

The Contract documents and all correspondence between the TPCODL, Third Parties associated with the contract, and the Associate shall be in English language.

However, all signboards required indicating "Danger" and/or security at site and otherwise statutory required shall be in English, Hindi, and local languages.

3.10 Reverse Auction

TPCODL reserves the right to conduct the reverse auction (instead of public opening of price bids) for the products / services being asked for in the tender. The terms and conditions for such reverse auction events shall be as per the Acceptance Form attached in Annexure I. The bidders along with the tender document shall mandatorily submit a duly signed copy of the Acceptance Form as mentioned in the Annexure I as a token of acceptance for the same.

4.0 SCOPE OF WORK

All the activities that are to be undertaken by the Associate to realize the contractual deliverables in completeness form Scope of Work. Following clauses list, but not limited to, major requirements of the scope of work.

The associate shall satisfy himself fully with the details and undertake fully the works as listed in schedule of quantities and conditions, under which the same to be performed. Associate may visit site to equip themselves with all the information required for the execution of work. Unless otherwise stated in the contract, the scope of work shall also include, but not limited to, the following.

The associate shall deliver equipment/material at site/stores, carry out erection, testing and commissioning and put into satisfactory operation as defined in contract. Unloading at site,

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storage, preservation, security and handling of the items at work places till completion of contract is also in scope of work.

The associate shall obtain statutory clearances for the works executed by him.

The associate shall provide comprehensive insurance for entire works for contract value and third party liability insurance to cover all risks till completion of contract.

All transport / lifting/ unloading/ storage/preservation of items at site shall be arranged by the Associate at no extra cost to TPCODL. All these activities shall be performed in line with original equipment manufacturers' recommendations and/or as per best engineering practices, with due consent of TPCODL Engineer-in-charge.

Completeness: Any supplies and services which might have not been specifically mentioned in the Contract but are necessary for the scope mentioned in Special Terms & Conditions and/or completeness of the works at the highest possible level, including any royalties, licence fees & compensation to be paid, whether incurred by the associates or by a third party for the work covered in the scope, regardless of when incurred, shall be supplied/provided by the associate without any extra cost and within the time schedule for efficient , smooth and satisfactory operation and maintenance of the works at the highest possible level under Indian conditions (but according to international standards for facility of this type), unless expressly excluded from the scope of supplies and services in this Contract.

TPCODL have the right, during the performance of the Contract, to change the scope and/or technical character of the Project and/or of the supplies and services stipulated in the Contract by submitting a request in writing to the Associate. The Associate shall, within fifteen days of receipt of such request from the TPCODL, provide Purchaser with a reasonably detailed estimate of the cost of the change outlined in the request.

In the event, TPCODL requests a change, the Contract price and time shall be adjusted upwards or downwards, as the case may be and shall be mutually agreed to. The associate shall not be entitled to any extension of time unless such changes adversely affect the time schedule.

The Associate shall not proceed with the changes as requested till adjustment of contract price and time schedule where so applicable in terms of or otherwise directed by the TPCODL.

4.1 Indemnity

Associates shall undertake to fully indemnify TPCODL (also referred to as the Company in the GCC) against all kinds of liabilities or damages, of whatsoever nature, including compensation arising from any accident to the person or property of those in Associate's employment or to any other person or properties including those of TPCODL, arising due to reasons attributable to any, act, omission of the Associate the Associates, for the entire period of contract including period of guarantee.

Within 7 days of award of work, the Associates shall submit Indemnity Bond in the format as per Annexure-D to Order Issuing Authority.

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In case of Labour /Erection/ Services Contracts having value more than Rs 2 Cr per Annum, Associates shall submit Indemnity Bond on Rs 100/- Non Judicial Stamp Paper in the format as per Annexure- D to Order Issuing Authority.

4.2 Display of Notice Boards at Work Sites

The Associate shall put up display notice board at each project site where the works are in progress indicating the information given below:

- Name of the Project.
- Estimated Cost of Project.
- Date of Commencement.
- Expected date of completion.
- Name of Associate and his telephone number.
- Name of Engineer-in-Charge and his telephone number.

4.3 Disposal of Waste at Site

Significant quantities of waste are generated during the execution of project and an integrated approach for effective handling, storage, transportation and disposal of the same shall be adopted. This would ensure the minimization of environmental and social impact in order to combat the climate change.

The associates shall follow the below criteria for disposal of waste at site during the execution of project.

- Associate shall ensure that the detailed project plan include the waste management, segregation of all designated waste material (Recyclable/Non-Recyclable), collecting, storing, disposing and transferring the same to pre-arranged facility/destination in timely and safe manner as per environmental legislations during the execution of project. The project plan shall also include the innovative construction practice to eliminate or minimize waste, protect surface/ground water, control dust and other emissions to air and control noise during the execution of project. The copy of same shall be given to EIC before the commencement of project.
- The purchase policy of BA shall encourage the procurement of material with recycled and minimum packaging of goods during delivery. Associate shall provide the appropriate means for site to site transportation of materials to avoid damage and litter generation.
- Associate shall educate and inform to its project team about the requirement and responsibilities for waste minimization and disposal in general and provide training of practices that support this. Waste management should be treated like a safety program.
- In the event that area of contaminated or biological hazard is identified, Associate shall ensure that plant, equipment, personnel and any activity associated with the work is carried out in consultation with EIC of TPCODL.
- Associate shall ensure that the residents living near the site are kept informed about proposed working schedule and shall informed timings and duration of any abnormal noise full activity that is likely to happen.

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- Associate shall ensure the regular maintenance and monitoring of vehicles and equipment for efficient fuel use so that emissions and noise are within acceptable limits to avoid air pollution.

4.4 Deployment of Work Force

Associate shall deploy adequate labour, as considered necessary by TPCODL for execution of the contract including Sundays and Holidays whenever required to do so with no extra cost to TPCODL. However, prior permission shall be taken from the site Engineer to carry out the work beyond normal working hours or on Sundays and Holidays. Female employees shall not be deployed beyond normal working hours/days and no child labour shall ever be deployed. Associate shall depute full time qualified and experienced engineers to supervise the work at site. All such staff shall be maintained from commencement to completion of all works to the entire satisfaction of the Engineer-in-Charge. Associate's employees deployed for the works under this contract will not be considered in Company's employment at any time. Associate shall continue to be responsible for all such employees, their safety, all types of statutory compliances related thereto and in any other manner whatsoever. The company will stand indemnified by the Associate in respect of all the above. At the same time Company upon noticing any breach or default on any statutory compliances, may at their sole discretion, decide to act in a manner as deemed fit at the risks and costs of the Associate.

TPCODL shall have the right to instruct the Associate to change the Sub- Associates or skilled /unskilled workers in case the conduct, the workmanship or speed of the work is not satisfactory.

Associates shall submit duly signed undertaking regarding engagement of competent staff / employee commensurate to the nature of job to Engineer-in-charge in the format attached as Annexure – G.

4.5 Damages of Properties

The Associates shall take necessary steps to ensure that the equipment and installations of the Company, Third parties, including other utility services like water supply pipelines; open drains telephone cables etc. are not damaged during execution of the works. The Associates shall be responsible for all such damages and shall have to repair/ replace and/or compensate for the entire claims in respect of such damages at its own cost.

4.6 Issuance of Materials

The material issued to the Associate shall be in the custody of the Associates who shall be fully responsible for the same. After completion of the works, the Associates will reconcile the material. Any cost of material which is short or damaged/lost will be deducted from Associate bill/ deposits.

4.7 Company's Right To Use Works

If Taking Over Certificate is delayed for any reason, for which TPCODL's decision shall be final and binding upon the Associate, the Company shall be entitled to use the works or portion thereof without affecting Associate's responsibility and liability to complete the balance works as

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per company's directives from time to time, though Associate shall be afforded reasonable opportunity by the company to enable Associates to complete all balance works required for issuance of 'Taking Over Certificate' by the company.

4.8 Rights of TPCODL to vary the scope work

TPCODL shall have the right, during the performance of the Contract, to change the scope and/or technical character of the Project and/or of the supplies and services stipulated in the Contract by communicating the intent to do so in writing to the Associate. On receipt of such communication the Associate shall, within the time frame specified in the contract shall provide TPCODL with a reasonably detailed estimate of the cost of the change in scope outlined in the TPCODL communication. The change in the Contract price and time shall be revised upwards or downwards, as the case may be, and shall be mutually agreed to. The Associate shall not be entitled to any extension of time unless such changes adversely affect the time schedule.

The Associate shall not proceed with the changes in the scope of work till such time revision of Contract price and time schedule are approved and communicated to the associate by TPCODL.

Any change in the Scope of Work and/or Terms & Conditions of the order shall be intimated by TPCODL through an amendment to the contract. The amendment shall be treated valid only if signed by the authorized signatory of the original contract.

4.9 Technical Evaluation

TPCODL reserves the right to assign scores to different parameters including but not limited to the following while evaluating the bids. TPCODL reserves the right to change the parameters and score without prior information to the associates:

S. No.	Evaluation Parameter	Max. Score
A	For bidders already Registered with TPCODL	100
A.1.	No violation of statutory compliances in last 1 year. Deduction of 2 marks for each instance of violation in last 1 year.	20
	Safety Deduction of 2 marks for each instance of safety violation in last 1 year. Deduction of 5 marks for each reported Non-Fatal Accident in last 1 year In case of any reported fatal accident: <i>ZERO MARKS</i>	20
A.2.	Timely Execution of Contracts Total Achieved Score = {30 – 3 x (Avg. percentage LD deductions in last 2 years)}	30
A.3.	Legal Issues with TPCODL Zero instances of Arbitration procedures / Court Cases / PBG forfeitures in last 2 years: 30 marks else 'Zero' marks	30
B	Bidders new to TPCODL	100
B.1.	Visits Client Site Visit where the bidder is providing similar services.	30
	The visits as above shall be arranged by the bidder. However all costs towards conveyance, lodging, boarding etc. shall be borne by TPCODL. The	

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S. No.	Evaluation Parameter	Max. Score
	score assigned by TPCODL based on the above visits shall be final and binding on the bidder (Vendor Evaluation form attached as annex L). Safety Score achieved against BA Safety Management System Questionnaire	20
B.2.	Client Referrals At least 3 nos. Customer References for similar services in last 3 years. All customer references shall be either of the following: <ul style="list-style-type: none"> ▪ Govt. Organizations/ PSUs/ Power Distribution Utilities. ▪ Private Organizations with an annual turnover of >= 500 cr. PO copies or Completion Certificates will be admissible. Each reference: 10 marks	30
B.3.	Blacklisting Information Not blacklisted by any reputed organization/utility in last 2 years: 20 marks else 'Zero' marks	20

- Bidder shall be considered as technically qualified if they are able to achieve a technical score of >70 marks on the above parameters. 'A' or 'B'.
- The bidder must have the PF and ESI registration. In case it is not there (provided the bidder is not exempted from the PF and ESI), bidder shall not be evaluated on the above parameters and will be considered as disqualified.

5.0 PRICES/RATES/TAXES

The Prices and Rates are inclusive of cost of materials supplied as per contract terms and for which MDCC is issued by TPCODL and to the extent required for completion of works, cost of service executed as per schedule of quantities, cost of testing as per contract terms, cost of documentations including all relevant test certificates and other supportive documents to be furnished as per contract terms. The rates shall remain firm till actual completion of contract.

The Prices/Rates are inclusive of all taxes, levies, cesses and duties, particularly Goods and Services Tax as applicable. All government levy / taxes shall be paid only when the invoice is submitted according to the relevant act.

The prices shall remain unchanged irrespective of TPCODL making changes in quantum in all or any of the schedules of items of contract.

5.1 Changes in Statutory Tax Structure

If rate of any or all of the statutory taxes and duties applicable to the contract changes, such changes shall be incorporated by default if the changes occur within the contract execution time and shall be applicable if the contract is executed by the Associate within the Contract Execution Time.

For execution of contracts beyond contract execution time, where the delay is not attributable to TPCODL no upward revision in tax /duties shall be considered irrespective of changes in the statutory tax structure either within the contract execution time or beyond. However, in such cases, benefits due to any downward revisions in statutory tax rates shall be passed on to TPCODL.

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6.0 TERMS OF PAYMENT

6.1 Pre-Requisites for Payment

- Associate should have completed execution of that part of contract, for which payment is sought, to the satisfaction of TPCODL's Engineer-in-Charge responsible for the contract and obtained certification for execution of the work.
- Associate has taken C-3 Form
- Associate has undertaken joint measurement of the work executed along with TPCODL's Engineer-in-charge.
- Associate's bills/invoices submitted have been certified by Engineer-In-Charge.

6.2 Bills & Invoices

Unless specified otherwise in the special conditions of contract, Associate shall raise not more than one invoice/contract per month for the services rendered in the prescribed Tax Format and the invoice shall be submitted within 15 days of the following month at Invoice Desk, TPCODL Bhubaneswar.

All Bills shall be supported by joint measurement of work done, quality test report and a copy of wage sheet, if applicable (showing proof of having disbursed wages as per applicable law) and a copy of statement substantiating that statutory payments having been affected.

Bills/ invoices shall mention Associate's 'Sales, Service, WCT Tax Registration Number, PAN number as applicable.

Final bill submission after completion of project or execution of job must be within 30 days from the actual date of completion/execution of work awarded.

6.3 Payment & Statutory Deductions

Payment shall be released within 30 days from the submission of the bills. The associate shall submit "No Demand Certificate" in the format as per Annexure-D at the time of receipt of full and final payment. In case any non-compliance to contract conditions comes to TPCODL's notice, TPCODL will be entitled to deduct 30% of estimated wages plus 20% of wages as TPCODL's overheads. Associates would be obliged to provide the copy of monthly wage sheet in any case, failing which no payment shall be made. TPCODL at their sole discretion may deposit the PF etc. with statutory authorities. TPCODL will deduct the amounts of TDS as per statutory requirement under the income tax act and the DVAT Act and certificates (wherever applicable) will be issued to associate accordingly

In case of non-submission of PAN No TDS @ 20% shall be deducted from all payable amounts for which no TDS certificate shall be issued. TDS once deducted as above shall not be revised in any condition.

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6.3.1 Statutory Deductions

TPCODL will deduct the amounts of TDS, TCS as per statutory requirement under the income tax act, the Goods and Services tax act, BOCW Act, or any other applicable tax act and certificates (wherever applicable) will be issued to associate accordingly.

For consumption of TPCODL's Water and Electricity by Associate for execution of Contract, Associate shall pay 0.5% & 1.0% respectively of contract value and it shall be deducted from the running bills.

The Engineer-in-Charge as stated in the Order shall be responsible for certification of the work executed and the bills. Bills (including original) shall be submitted in triplicate at Bill Inward Receipt Desk (BIRD) located at Third Floor, IDCO Towers, Janpath, Bhubaneswar..

6.4 Guidelines for Raising Running/ Final Bills

Contract Value Up to 5 Lakhs	One Final Bill
Contract Value More than 5 lakhs	Monthly Running Bill & One Final Bill

All Bills shall be processed only when all bank Guarantees are in place and before payments of Final Bill Associate have to furnish No Demand Certificate, as applicable.

6.5 Quantity Variation

Payment will be made on the basis of actual quantity of supplies/actual measurement of works accepted by TPCODL and not on the basis of contract quantity.

6.6 Full and Final Payment

Full & Final Payment in all contracts shall be made subject to the associate submitting "No Demand Certificate", in the format as per Annexure-C.

7.0 MODE OF PAYMENT

Payment shall be made through Cheque or RTGS whichever of the two modes chosen by the Associate, in favour of Associate's Bank Account on TPCODL records, on whose name Contract has been issued. Those Associates opting for the RTGS mode shall submit the details of Bank Account and other details as per annexure J. Further, for any payments made, TPCODL is not responsible for any consequences/disputes Associate have among the owners channel partners, sub-Associates and all such dispute/concerns shall be settled solely by the Associate.

In case of service contracts, mostly the quantities of items indicated are estimated and preliminary. However, payments shall be made on the basis of actual quantity of work carried out and measured jointly by the Company and the Associate. Associates shall be responsible to organize joint measurements of works with TPCODL Engineer-in-Charge before raising any bill of work done. In the event Associate fails to do so, TPCODL at their sole discretion, may take measurements of work done and proceed as deemed fit and in such an event Associate's right to lodge any subsequent claim shall stand forfeited.

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8.0 SECURITY CUM PERFORMANCE DEPOSIT

Associates shall submit within 15 days from the effective date of issue of PO/RC, Security cum Performance Bank Guarantee (SPBG) in the format as per Annexure B of this document from banks acceptable to TPCODL for:

(a) 5% of the PO value if purchase order value is more than Rs 5 Crores.

(b) 10% of the PO value if purchase order value is less than Rs 5 Crores.

This shall remain valid till the end of the Guarantee Period of contract, plus one month.

(c) 5% of the RC value in case of Rate Contract. This shall remain valid till the Guarantee period plus one month.

- For PO/RC values less than Rs. 5 lacs, Associate may request for deduction of amount equivalent to SPBG value from their first invoice. Such amount shall be withheld by TPCODL while processing the invoice and shall be released after completion of Guarantee Period plus one month.
- For PO/RC values less than Rs. 3 lacs, the clause (8.0) for Security cum Performance Bank Guarantee (SPBG) shall not be applicable.
- In case of RC (Rate Contract) after the expiry of RC validity, Associate shall have to submit SPBG. However, the Associate has the option to re-submit the SPBG as per actual RO (Release Order) value issued against the RC, valid for Guarantee Period plus one month. The Guarantee Period shall be considered as per the last RO issued against the said RC. The original SPBG as submitted against the RC shall be released on submission of the new SPBG to TPCODL. Alternatively, Associate may extend the validity of original SPBG only till the requisite period, i.e. guarantee period plus one month.

9.0 STATUTORY COMPLIANCE

9.1 Compliance to Various Acts

Associate should ensure adherence to the Anti-Lobbying, Debarment, Drug-Free, Child Labour, Factories Act and Shop and Establishment Workplace Certification, Registration details under GST, Sales Tax and Works Contract Tax Act.

Associate shall bear the entire responsibility, liability and risk relating to coverage of its workforce under different statutory regulations including Workman's Compensation Act, ESI Act, Factories Act, 1948, the Contract Labour (Regulation and abolition) Act 1970, and any other relevant regulations as the case may be. Associate shall also be solely responsible for the payment of all benefits such as Provident Fund, ESI, Bonus, Leave compensation and other benefits as may be applicable under applicable labour laws, etc. as per the various statutory regulations and shall keep TPCODL indemnified in this regard against any such claim and provide documentary evidences of the same to TPCODL. TPCODL shall be entitled to, if necessary, make such payment and recover the amount from Associate.

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Associate should ensure adherence to all applicable laws, rules and regulation applicable under this contract from time to time. In case of violation any risk, costs etc. shall be in associates account and keep TPCODL indemnified always till completion of contracts.

9.2 SA 8000

TPCODL expects its Associates to follow guidelines of SA 8000:2014 on the following aspects

1. Child Labour
2. Forced or Compulsory Labour
3. Health & Safety
4. Freedom of Association & Right to Collective Bargaining
5. Discrimination
6. Disciplinary Practices
7. Working Hours
8. Remuneration
9. Management System

9.3 Affirmative Action

TPCODL appreciate and welcome the engagement/employment of persons from SC/ST community or any other deprived section of society by their business associates.

Relaxation in Contract Clauses under Affirmative Action for SC/ ST Business Associates**

TPCODL believes that inclusive growth is the key to sustainable development, and to promote the same Policy on Affirmative Action for Scheduled Caste & Scheduled Tribe Communities has been adopted across the company.

Under the same pre-text, and to promote entrepreneurship among SC/ST community TPCODL has taken initiative by proposing relaxations in contract clauses as per below:

S.No.	Initiative	for SC/ ST BA's	Guideline Document
1	Tender Fees	100% waiver for SC/ST community	All Open Tenders
2	Earnest Money Deposit	50 % relaxation of estimated EMD value	All limited and Open Tenders
3	Performance Bank Guarantee	50% relaxation in PBG for order value above 50 lacs else 25% relaxation	All limited and Open tenders
4	Turnover	25% relaxation in company turnover under qualifying requirement criteria	All Open Tenders

****Classification of BA s under SC/ST shall be governed under following guidelines:**

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- Proprietorship/ Single Ownership Firm: Proprietor of the firm should be from SC/ST community. Governing document shall be duly audited latest balance sheet bearing name of all the partners.
- Partnership Firm: Only such firms shall qualify which have SC/ST partners holding equal to or more than 50% of the total ownership pattern of the firm. Governing document shall be Partnership Deed and duly audited latest balance sheet bearing name of all the partners.
- Private limited company: Only such firms shall qualify which have SC/ST directors holding equal to or more than 50% of the total ownership pattern of the firm. Governing document shall be Memorandum of Understanding (MoU) and/or Article of Association (AoA).

Certification from SC/ST commission shall be required for deciding upon SC/ST status of a person.

9.4 Compliance to Labour Laws

Bidder needs to ensure compliance to applicable labour laws including timely disbursement of wages. In case wages are not disbursed as per the stipulated timelines, then TPCODL shall pay the wages to BA employees on behalf of BA. Apart from deducting the amount of wages paid, TPCODL shall deduct an additional service charge equivalent to 25% of the wages paid from the payment due to BA.

9.5 Compliance to Construction and Demolition Waste Management Rules & Environment (Protection) Amendment Rules

BA is liable to follow the Construction and Demolition Waste Management Rules- 2016, Environment (Protection) Amendment Rules- 2018 and Guidelines on dust mitigation measures in handling construction material and C&D wastes issued by CPCB.

Following are some main points of above Rules/Guidelines for Construction work, cable laying jobs etc.

1. Barricading to be provided at site to cover complete area.
2. Construction material and waste should be inside the closed area made by using barricading.
3. Water sprinkling/fine spray from nozzles to be done to suppress the dust.
4. The board of Dust mitigation measures shall be displayed at site for public viewing with required details.
5. Loose sand or soil and construction material that causes dust shall be covered.
6. Transport material that are easily wind borne need to be covered by a sheet made of either jute, tarpaulin, plastic or any other effective material.
7. All areas for storing C&D waste/construction material to be demarcated and preferably barricaded particularly those materials that have potential to be dust borne.
8. Grinding and cutting of building materials in open area shall be prohibited.
9. Construction material and waste should be stored only within earmarked area and road side storage of construction material and waste shall be prohibited.
10. No uncovered vehicles carrying construction material and waste shall be permitted.
11. Construction and demolition waste processing and disposal site shall be identified and required dust mitigation measures to be notified at the site.

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10.0 QUALITY

10.1 Knowledge of Requirements

The Associate shall be deemed to have carefully examined and to have knowledge of the equipment, the general and other conditions, specifications, schedules, drawings, etc. forming part of the Contract and also to have satisfied himself as to the nature and character of the work to be executed and the type of the equipment and duties required including wherever necessary of the site conditions and relevant matters and details. Any information thus procured or otherwise obtained from TPCODL/Consultants shall not in any way relieve the Associate from his responsibility and executing the works in accordance with the terms of contract.

10.2 Adherence to Rules & Regulations

The Associate shall procure and/or fabricate/erect all materials and equipment in accordance with all requirements of Central and State enactment, rules and regulations governing such work in India and at site. This shall not be construed as relieving the Associate from complying with any requirement of TPCODL as enumerated in the Contract which may be more rigid than and not contrary to the above mentioned rules, nor providing such construction as may be required by the above mentioned rules and regulations. In case of variance of the Technical Specification from the laws, ordinance, rules and regulations governing the work, the Associate shall immediately notify the same to the TPCODL. It is the sole responsibility of the Associate, however, to determine that such variance exists. Wherever required by rules and regulations, the Associate shall also obtain the statutory authorities' approval for the plant, machinery and equipment to be supplied by the Associate.

10.3 Specifications and Standards

The Associate shall follow all codes and standards referred in the Contract Document. Codes and standards of other may be followed by the Associate with the prior written approval of TPCODL, provided materials, supplies and equipment according to the standard are equal to or better than the corresponding standards specified in the Contract.

Brand names mentioned in the Contract documents are for the purpose of establishing the type and quality of products to be used. The Associate shall not change the brand name and qualities of the bought out items without the prior written approval of the TPCODL. All such products and equipment shall be used or installed in strict accordance with original manufacturer's recommendations, unless otherwise directed by the TPCODL. In any circumstances the codes, specimen and standards prescribed by any government agency should not be violated.

11.0 SAFETY

All Associates shall strictly abide by the guidelines provided in TPCODL's Contractor Safety Management System (CSMS) as applicable at all stages during the contract period. Associate shall execute the contracts ensuring the following in and as order of priority:

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- Safety of Human Beings.
- Safety of Equipment/Assets.
- Timely Completion of Contract.

Safety related requirements as mentioned in our Contractor Safety Management System is attached as annexure K and is an integral part of this GCC. TPCODL may revise this CSMS document as a when required and the revised version shall be applicable on all contracts – current or future.

12.0 GUARANTEE

12.1 Guarantee of Performance

Associates shall stand guarantee that the equipment and material supplied/service or work rendered under the contract is free from design, manufacturing, material, construction, erection & installation and workmanship & quality defects and is capable of its due, rated and intended quality performance, as an integrated product delivered under the contract or a specific period termed as Guarantee Period(as elaborated elsewhere in this clause) The Associate should also guarantee that the equipment/material is new and unused except for the usage required for the tests and checks required as part of quality assurance.

12.2 Guarantee Period

The Guarantee Period will be equipment/service/work specific and shall be as specified in the Standard Specifications of TPCODL for the equipment/material/service/work and where standard specifications are not part of contract documents or guarantee period is not specified in the standard specifications,, the guarantee period shall be as per the Special Terms and Conditions of the Contract. In case of no mention of the guarantee period in standard specifications or SCC Guarantee Period will be 12 Months from the Date of Commissioning or 24 months from the date of delivery of final lot of supplies made, whichever is earlier.

12.3 Failure in Guarantee Period (GP)

If the equipment and material supplied/service or work rendered under the contract fails to perform its due, rated & intended quality performance, during the Guarantee period, the associate is liable to undertake repair/rectify/replace the equipment and material supplied/service or work rendered under the contract within time frame specified in the SCC or elsewhere in the contract documents at associate's cost to make the equipment and material supplied/service or work rendered under the contract of performing its due, rated and intended quality performance. If Associate fails to repair/rectify/replace the equipment or material supplied/service or work rendered under the contract, failed in Guarantee Period, TPCODL will be at liberty to get the same done at Associate's risks and costs and recover all such expenses plus the TPCODL's own charges (@ 20% of expenses incurred), from the Associate or from the "Security cum Performance Deposit" as the case may be.

If during the Warranty/ Guarantee period some parts of the supplies are replaced owing to the defects/ damages under the Warranty, the Warranty period for such replaced parts shall be until the expiry of twelve months from the date of such replacement or renewal or until the end of original Guarantee period, whichever is later.

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Any repairs during the Guarantee Period shall be carried out by the Associate within 30 days of reporting the issue to Associate by TPCODL. However, if replacement of the Equipment is required, Associate shall notify the same to TPCODL within 7 days of reporting the issue by TPCODL. Thereafter, the total time for supply of new equipment/ material shall be equal to the original delivery period of that equipment/ material as specified in the Contract. In case the Associate is not able to rectify/ replace the faulty equipment/ material within the stipulated timelines as mentioned above, penalty shall be levied as per the Liquidated Damages clause mentioned in this document. The penalty amount shall be recovered from the payment due to the vendor or by encashment of the SPBG as the case may be.

12.4 Cost of repairs on failure in GP

The cost of repairs/rectification /replacement, apart from the actual cost of repairs/rectification/replacement is also inclusive of all associate costs of required transportation, site inspection /mobilization/dismantling and re-installation costs as applicable. The Associate has to ensure that the interruption in the usage of intended purpose of the equipment is minimized to the maximum extent In lieu of the time taken for repairs/rectification/replacement.

12.5 Guarantee period for Goods Outsourced

If the Associate outsources partly equipment/materials/services from third party as mutually agreed upon at the pre award stage of contract, TPCODL shall have the benefit of any additional guarantee period if provided by the third party for the part supplied/executed by them.

12.6 Latent Defect

Hidden defects in manufacturing or design of the product supplied and which could not be identified by the tests conducted but later manifested during operation of the equipment are termed as latent defects. Associates shall further be responsible for 'free replacement' for another period of THREE years from the end of the guarantee period for any 'Latent Defects' if noticed and reported by the Company.

13.0 LIQUIDATED DAMAGES

- a) For Services which are of standalone use, multiple in quantities and having a single final completion schedule, Liquidated damages shall be levied without prejudice to any of the other contractual rights of TPCODL, as described below:

For delay of each week and part thereof from the completion schedule specified in the contract, 1% of contract value corresponding to unexecuted work, provided full execution is done within 130% of the original contract time. If full contractual service/work rendered is not completed within 130% of contract time for execution, TPCODL has the right to levy LD on the entire contract value, subject to a maximum of 10% of the total contract value.

- b) For services having phased completion schedule(milestone) as per contract terms, standalone use and multiple in quantities, Liquidated damages shall be levied without prejudice to any of the other contractual rights of TPCODL, as described below:

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For the purpose of calculating and applying LD, each milestone shall be considered separately. For delay of each week and part thereof, from the execution of work schedule specified in the milestone, 1% of the contract value corresponding to the unexecuted work of the milestone, subject to a maximum of 10% of the total contract value of that milestone shall be levied. However, if full contractual service/work rendered is not completed within 130% of contract time for execution, TPCODL has the right to levy LD on the entire contract value, subject to a maximum of 10% of the total contract value. Deduction of LD shall be on landed cost i.e contract value inclusive of taxes and in pursuant statutory compliance GST would be applicable at the stipulated rate and the same shall be borne by Business Associate. In case of LD deduction, a GST invoice shall be issued by TPCODL as a proof of deduction/ recovery.

13.1 LD Waiver Request

Any request of LD waiver shall be submitted within thirty (30) days of deducting LD. Request submitted beyond the timeline shall not be entertained.

13.2 Material Recovery

In case of any recoveries for materials or services (for material free issued by TPCODL and not reconciled by BA or for services claimed and paid in excess at the time of running bills), the total cost which shall be recovered from the BA, shall be the gross amount of material or services (i.e. including taxes) plus applicable taxes as prevailing at the time of such recoveries.

14.0 ASSIGNMENT OR SUBCONTRACTING

Associates shall not assign/subcontract/outsource the schedule of activities of contract TPCODL enters with the associate, in part or full, without TPCODL's prior written approval. However outsourcing of materials/equipment/services by Associate to make the integrated product for which TPCODL's has placed the contract with the associate from suppliers, makes and agencies which have been mutually agreed upon during contract pre-award stage is permitted subject to following conditions.

In such cases where outsourcing is done by the Associate

- Shall ensure that outsourced suppliers comply with the technical and financial qualification requirements specified by TPCODL in the contract document
- Shall furnish all particulars about the proposed outsourcing agencies and the details of the goods/services/work outsourced to the Associate while seeking approval of TPCODL for inclusion for outsourcing. The Associate shall give approval or shall refuse approval in writing within thirty (30) days of receipt of such request. However the Associate shall not be entitled for any additional contract execution time whatsoever in lieu of the process for approval for outsourcing agencies, and shall be held responsible for any delay in the project execution time.
- Shall remain jointly and severally liable for any action, deficiency, and/or negligence on the part of his outsourcing agencies. The approval extended by the Associate to outsourcing agencies recommended by the Associate shall not discharge the later from his Contract obligations.

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Shall submit to the Associate unpriced copies of purchase orders with technical specifications included in the orders, placed on outsourcing agencies as soon as the respective orders have been placed by the Associate.

15.0 UNLAWFUL ACTIVITIES

The Associate shall have to ensure that none of its employees are engaged in any unlawful activities (whether covered under the scope of the present GCC or not) subversive of the TPCODL's interest failing which appropriate action (legal or otherwise) may be taken against the Associate by the TPCODL, in accordance with the terms of the present GCC.

16.0 CONFIDENTIALITY

Associate and its employees or representatives thereof shall strictly maintain the confidentiality of various information they come across while executing the contract as detailed below.

16.1 Documents

All maps, plans, drawings, specifications, schemes and other documents or information related to the Contract/Project and the subject matter contained therein and all other information given to the Associate by the TPCODL in connection with the performance of the contract shall be held confidential by the Associate and shall remain the property of the TPCODL and shall not be used or disclosed to third parties by the Associate for any purpose other than for which they have been supplied or prepared. The Associate may disclose to third parties, upon execution of confidentiality agreements, such part of the drawings, specifications or information if such disclosure is necessary for the performance of the Work provided such third parties agree in writing to keep such information confidential to the same extent and degree as provided herein, for the benefit of the TPCODL.

16.2 Geographical Data

Maps, layouts and photographs of the unit/plant including its surrounding regions showing vital installation for national security of country or those of TPCODL shall not be published or disclosed to the third parties or taken out of the country without prior written approval of the TPCODL and upon execution of confidentiality agreements satisfactory to the TPCODL with such third parties prior to disclosure.

16.3 Associate's Processes

Title to secret processes if any developed by the Associate on an exclusive basis and employed in the design of the equipment shall remain with the Associate. TPCODL shall hold in confidence such processes and shall not disclose such processes to the third parties without prior approval of the Associate and execution by such third parties of secrecy agreements satisfactory to the Associate prior to disclosure. Upon completion of contract, such processes shall become the property of the TPCODL. Title to technical specifications, drawings, flow sheets, norms, calculations, diagrams, interpretations of test results, schematics, layouts and such other information, which the Associate has supplied to the TPCODL under the Contract shall be passed on to the TPCODL. The TPCODL shall have the right to use these for

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construction, erection, start-up, Trial Run, operation, maintenance, modifications and/or expansion of the works including for the manufacture of spare parts.

16.4 Exclusions

The provision of Clauses 16.1 to 16.3 shall not apply to information:

- Which at the time of disclosure are in the public domain which later on become part of public domain through no fault of the party concerned, or
- Which were in the possession of the party concerned prior to disclosure to him by the other party, or
- Which were received by the party concerned after the time of disclosure without restriction on disclosure or use, from a third party who did not acquire such information directly or indirectly from the other party or has no obligation of confidentiality for such information.

16.5 Violation

In case of violation of this clause, the Associate is liable to pay compensation and damages as may be determined by the competent authority of TPCODL.

17.0 INTELLECTUAL PROPERTY RIGHTS

If, in the course of performance of its functions and duties as envisaged by the scope of the present GCC, the Associate acquires or develops, any unique knowledge or information which would be covered, or, is likely to be covered within the definition of a trademark, copyright, patent, business secret, geographical indication or any other form of intellectual property right, it shall be obliged, under the terms of this present GCC, to share such knowledge or information with the TPCODL. All rights, with respect to, or arising from such intellectual property, as aforementioned, shall solely vest in TPCODL.

Moreover, the Associate undertakes not to breach any intellectual property right vesting in a third party/parties, whether by breach of statutory provision, passing off, or otherwise. In the event of any such breach, the Associate shall be wholly liable to compensate, indemnify or make good any loss suffered by such third party/parties, or any compensation/damages arising from any legal proceeding/s, or otherwise. No liability of TPCODL shall arise in this respect, and any costs, damages, expenses, compensation payable by TPCODL in this regard to a third party/parties, arising from a legal proceeding/s or otherwise, shall be recoverable from the Associate.

18.0 INDEMNITY

The Associate shall at all times indemnify, keep indemnified and hold harmless the TPCODL and its officers, directors, employees, affiliates, agents, successors and assigns against all actions, claims, demands, costs, charges and expenses arising from or incurred by reason of any infringement of patent, trade mark, registered design, copy rights and/or industrial property rights by manufacture, sale or use of the equipment supplied by the Associate whether or not the TPCODL is held liable for by any court judgement. In this connection, the TPCODL shall pass on all claims made against him to the Associate for settlement.

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The Associate assumes responsibility for and shall indemnify and save harmless the TPCODL from all liability, claims, costs, expenses, taxes and assessments including penalties, punitive damages, attorney's fees and court costs which are or may be required to be paid by the TPCODL and its officers, directors, employees, affiliates, agents, successors and assigns arising from any breach of the Associate's obligations under the Contract or for which the Associate has assumed responsibilities under the Contract including those imposed under any local or national law or laws, or in respect to all salaries, wages or other compensation for all persons employed by the Associate or his Sub-Associates or suppliers in connection with the performance of any work covered by the Contract. The Associate shall execute, deliver and shall cause his Sub-Associate and suppliers to execute and deliver, such other further instruments and to comply with all the requirements of such laws and regulation as may be necessary there under to conform and effectuate the Contract and to protect the TPCODL.

The TPCODL shall not be held responsible for any accident or damages incurred or claims arising, due to the Associate's error there from prior to completion of work. The Associate shall be liable for such accidents and after completion of work for such accidents as the case may be due to negligence on his part to carry out Work in accordance with Indian laws and regulations and the specifications set forth herein.

19.0 LIABILITY & LIMITATIONS

19.1 Liability

Except for any specific liability which may be identified in the Contract and which may be payable hereunder, Associate shall not be liable for any special, incidental, indirect, or consequential Damages or any loss of business Contracts, revenues or other financial loss (or equivalents thereof no matter how claimed, computed or characterized) arising out of or in connection with the Performance of the Work or supply of Goods ***unless caused by Associate's negligence, willful misconduct or breach of contract.***

If the Associate is a joint venture or consortium, all concerned parties shall be jointly and severally bound to the TPCODL for the fulfillment of the provisions of the Contract. The consortium or the joint venture shall designate one party as their leader, who will be the coordinator between the parties and TPCODL. The constituents & leader of the consortium or joint venture shall not be changed without the prior consent of TPCODL.

TPCODL shall have no liability or any special, incidental, indirect or consequential Damages for any loss of Business Contracts, revenues or other financial loss arising out of this Contract.

19.2 Limitation of Liability

The total liability of Associate against any contract shall be limited to the Total All Inclusive Contract Value.

20.0 FORCE MAJEURE

Force Majeure applies if the performance by either Party ("the Affected Party") of its obligations under Contract is materially and adversely affected.

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“Force Majeure” shall mean any event or circumstance or combination of events or circumstances referred below and their consequences that wholly or partly prevents or unavoidably delays any Party in the performance of its obligations under this Agreement, but only and to the extent that such events and circumstances are not within the reasonable control, directly or indirectly, of the Affected Party and could not have been avoided even if the Affected Party had taken reasonable care:

- Act of war (whether declared or undeclared), invasion, armed conflict or act of foreign enemy, embargo, blockade, revolution, riot, bombs, religious strife or civil commotion, etc.
- Politically motivated sabotage, or terrorism, etc.
- Action or Act of Government or Governmental agency for which remedy is beyond the control of the affected parties.
- Any act of God.

Note: Causes like power breakdown/ shortages/fire/strikes, accidents etc. do not fall under Force Majeure.

Time being the essence of the Contract, if either party is prevented from the performance of its obligations in whole or in part due to an event of Force Majeure, then provided Notice of happening of any event by the Affected Party is given to the other party within seven (7) days from the date of occurrence of such event, which DIRECTLY has impact on works and submitted details and quantum of resulting effect, but at the same time had made all possible efforts to mitigate and overcome effects thereof, the Affected Party's performance under this Contract shall be suspended until such event ceases and the Scheduled Completion shall be delayed accordingly.

If Force Majeure event(s) continue for a period of more than three months, the parties shall hold consultation to discuss the further course of action.

Neither party shall be considered to be in default or in breach of its obligation under the Contract to the extent that performance of such obligation by either party is prevented by any circumstances of Force Majeure which arise after effective date of Contract.

Neither party can claim any compensation from the other party on account of Force Majeure.

21.0 SUSPENSION OF CONTRACT

21.1 Suspension for Convenience

TPCODL may, at any time and at its sole option, suspend execution of all or any portions of the schedule of items of contract to be supplied/work to be executed by Associate under the contract by providing to the Associate at least two business days written notice for contracts having contract completion period less than sixty days and at least seven business day notice for all other contracts.

Upon receipt of any such notice, the Associate shall respond as follows as applicable as per contract construction.

- Immediately discontinue further supply of material/goods specified in the suspension notice for supply contracts

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- Immediately discontinue further service/work and supply of materials of those services/materials/work specified in the suspension notice for service /composite contract
- Promptly make every reasonable effort to obtain suspension, upon terms satisfactory to TPCODL, of all orders, outsourcing arrangements, and rental Contracts to the extent that they relate to performance of the portion of Work suspended by the notice.
- Protect and maintain the portion of the service/Work already completed, including the portion of the Work suspended hereunder, unless otherwise specifically stated in the notice.
- Continue delivering/carrying out the supply/service/work items as per contract conditions, which do not fall under purview of the suspension notice.

On receipt of resumption notice from TPCODL, the Associate shall resume execution of contract as specified in the resumption notice, within the time frame specified in the resumption notice.

21.2 Suspension for Breach of Contract conditions

TPCODL shall suspend execution of whole/or part thereof the contract till such time Associate complies with the conditions stipulated under section clause 22 for breach/default of contract conditions.

21.3 Compensation in lieu of Suspension

If the suspension of the contract in whole or in part is for convenience of TPCODL and not due to any breach of contract conditions by the associate, TPCODL at its discretion shall consider compensating all reasonable additional costs incurred by Associate in lieu of suspension of whole or part of contract, on representation of the Associate providing justified estimates of such additional costs and such estimates are found acceptable and approved by competent authority of TPCODL.

If the suspension of contract in whole or part thereof is due to breach of contract conditions (refer clause 24.3) by the Associate, Associate shall not be entitled for any compensation for any cost incurred in lieu of suspension of whole or part of contract and also shall be liable for compensating all the losses arising to TPCODL in lieu of suspension of contract. Resumption notice shall be subject to the Associate taking corrective action for the breach of contract conditions within the time frame and as per the terms specified in the suspension notice.

22.0 TERMINATION OF CONTRACTS

22.1 Termination for Default/Breach of Contract

The contract / PO shall be subject to termination by TPCODL in case of breach of the contract by the Associate which shall include but not be limited to the following:

- a. Withdrawal or intimation by the Associate of its intent to withdraw or surrender the execution / completion of the contracted work /PO or failure in ensuring adherence to any delivery schedules, in deviation of the contract/PO
- b. Refusal or neglect on the part of the Associate to supply material/equipment of quantity or quality as specified by TPCODL and within the timeframe as specified in the contract

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document or refusal or neglect to execute the services/work in terms of the agreed standards of quantity or quality and/or within the timeframe specified in the contract/PO.

- c. Failure in any respect to perform any portion of the Work contracted with promptness, diligence, or in accordance with the terms of the contract.
- d. Failure to furnish guarantees as specified and /or failure to comply with the terms thereof.
- e. Failure to furnish such relevant documents or information within the time specified which may be necessary for due execution / completion of the works and documentation.
- f. Liquidation, bankruptcy either voluntary or involuntary OR entering into any composition or compromise with its creditors, or Insolvency.
- g. In case any reasonable information has been received by TPCODL that Associate has adopted/ or attempted to adopt any unethical conduct, action in award of the contract /PO or at any time thereafter.
- h. Failure to comply with applicable statutory provisions as contained in the contract or failure to comply with the applicable laws.
- i. Failure to comply with safety regulations/clauses stipulated in the contract or as may be generally instructed by TPCODL.

If the default or breach as specified under clause 22 (except sub clause g thereof) be committed by the Associate for the first time, TPCODL shall issue, along the with notice of default or breach, a warning notice instructing the associate to take remedial/corrective action within the time frame stipulated in the warning notice and not to repeat the same in future. The timeframe for corrective action by the associate shall be specific to the nature of breach of contract and the same shall not be objected to by the Associate. If the Associate fails to comply with the instructions in the warning notice or in taking corrective action to the satisfaction of TPCODL then TPCODL may terminate the entire or part of contract at its discretion by issuing termination notice without incurring any liability on this ground.

In case the contract is terminated for any breach of the nature specified in clause 24 g stated above, TPCODL shall have the right to terminate all the contracts TPCODL is having with the Associate by issuing termination notice which shall be without prejudice to the other rights of TPCODL available to it under law.

Without prejudice to its right to terminate for breach of contract, TPCODL may, without assigning any reason, terminate the Contract in whole or in part at any time at its discretion while the contract is in force by serving a written notice of two weeks to the Associate.

In the event of TPCODL having proceeded with termination of the contract the associate shall comply and proceed further in the following manner:

- a. Associate shall discontinue the supply, on the expiry of the said period of two weeks.
- b. Associate shall ensure that no further steps are being taken towards discharge of the obligations, terms and conditions as contained in the contract/PO. This shall include initiation of actions not limited to discontinuation of other allied and associated

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arrangements which the associate might have entered into with third parties for due discharge of its obligations under the contract with TPCODL.

- c. The Associate shall perform thereafter such tasks as may be necessary to preserve and protect the terminated portion of the material/service/work in progress and the materials and equipment at TPCODL sites or in transit thereto. However the associate shall continue to fulfill its contractual obligations with regard to the part of contract not terminated.
- d. It shall be open for TPCODL to conduct a joint assessment with the associate of the material ,supplies, equipment ,works or in general as to the subject matter of the contract in regard to which the associate claims having completed its obligations before or during such termination.
- e. It shall be open to TPCODL to seek invocation of the performance bank guarantee or any other guarantee or other security deposit by whatever name called submitted by the associate, which shall not be objected to or protested against by the associate.

In case of termination of the contract the parties agree to be governed inter alia by the following:

- a. In case TPCODL exercises its right of termination as stated above the associate shall not dispute or object to the same.
- b. The Associate shall be entitled to receive and claim only such payments OR sums of money from TPCODL as may be found payable to it in regard to works executed by it under the terms of the contract and no other claim of any nature whatsoever shall be made by the Associate.
- c. All such provisions which the parties have agreed to survive and prevail even after termination of the contract shall remain effective despite the termination.

In the event of such termination, TPCODL may finish the Work by whatever method it may deem expedient, including the hiring of services and /or purchase of material equipment from such third parties as TPCODL may deem fit or may itself provide any labor or materials and perform any part of the Work. The associate undertakes to bear the incremental costs if any paid by TPCODL in such a case attributable to failure on the part of the associate. The Associate in such a case shall not be entitled to receive any further payments and any sums found payable to it may be adjusted by TPCODL against the amount recoverable from him on this ground. The same shall be without prejudice to other rights available to TPCODL under law against the associate.

Upon the termination of any of the contract due to occurrence of any circumstances provided in clauses stated above and constituting repeated breach or misconduct, TPCODL shall be entitled to bar the associates its agents, affiliates from undertaking any negotiation / tendering, bidding, participation activities concerning TPCODL for a period of two years from date of such termination. The same shall be without prejudice to other rights available to TPCODL.

22.2 Termination for convenience of Associate

Associate at its convenience may request for termination of contract, clearly assigning the reason for such request. TPCODL has full right to accept, reject or partially accept such request.

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This convenience will be available to associate only after one year from the contract effective date. For this purpose, associate will provide a notice period of 90 days to TPCODL, Associate will have to pay TPCODL a 'termination convenience fee' equivalent to 5% of unexecuted contract value.

22.3 Termination for Convenience of TPCODL

TPCODL at its sole discretion may terminate the contract by giving 30 days prior notice in writing or through email to the Associate. TPCODL shall pay the Associate for all the supplies/ services rendered till the actual date of contract termination against submission of invoice by the Associate to that effect.

23.0 DISPUTE RESOLUTION & ARBITRATION

In case of any dispute or difference the parties shall endeavour to resolve the same through conciliatory and amicable measures within 15 Days failing which the matter may be referred by either party for resolution by the sole arbitrator to be appointed mutually by both the parties. The arbitral proceedings shall be conducted in accordance with Arbitration and Conciliation Act 1996 and the place of arbitration shall be Bhubaneswar. The language to be used at proceedings shall be English and the award of the arbitrator shall be final and binding on the parties. The parties shall bear their respective costs of arbitration. The associate shall continue to discharge its obligations towards due performance of the works as per the terms of the contract during the arbitration proceedings unless otherwise directed in writing by TPCODL or suspended by the arbitrator. Further, TPCODL shall continue making such payments as may be found due and payable to the associate for such works.

24.0 Governing laws and jurisdiction

The parties shall be subject to the jurisdiction of the courts of law in Bhubaneswar and any matter arising here from shall be subject to applicable law in force in India.

25.0 ATTRIBUTES OF GCC

25.1 Cancellation

The Company reserves the right to cancel, add, delete at its sole discretion, all or any terms of this GCC or any contract, order or terms agreed between the parties in pursuance without assigning any reasons and without any compensation to the Associates.

25.2 Severability

If any portion of this GCC is held to be void, invalid, or otherwise unenforceable, in whole or part, the remaining portions of this GCC shall remain in effect.

25.3 Order of Priority

In case of any discrepancies between the stipulations in General Conditions of the Contract (GCC) and Special Conditions of Contract (SCC), the GCC shall stand superseded by the SCC to the extent stipulated hereinabove while balance portion of respective clauses of GCC shall continue to be applicable.

26.0 INSURANCE

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The Associate shall arrange accident insurance policy for his foreign experts/specialists/personnel deputed to Site and Associate's/his sub-Associates' manufacturing works as well as for his Indian engineers and supervisory staff. The Associate shall also take out for his Indian workmen, where applicable, a separate policy as required under Workmen's Compensation Act.

Associates shall be responsible to suitably insure their entire work-force (to the extent of at least meeting requirements under Workmen Compensation Act) Tools, Plant, Third party liability at the project site, All Risk comprehensive insurance for the entire works (insurance for free issue items will be in TPCODL scope) for total contract value or any other such risks during execution of works, till the works are handed over to the company, in consultation with TPCODL and shall submit copies of such insurances to the Engineer-in-Charge for review / acceptance before commencing the work. Engineer-in-charge must ensure compliance to insurance requirement by Associate before commencement of works. TPCODL shall stand fully indemnified in this respect.

27.0 ERRORS AND OMISSIONS

The Associate shall be responsible for all discrepancies, errors and omissions in the drawings, documents or other information submitted by him, irrespective of whether these have been approved, reviewed or otherwise accepted by the TPCODL or not. However any error in design/drawing arising out of any incorrect data/written information from TPCODL will not be considered as error and omissions on part of the Associate.

28.0 TRANSFER OF TITLES

The title of ownership and property to all equipment, installations, erections, constructions materials, drawings & documents shall pass to the TPCODL is after commissioning and complete handing over-taking over.

However, such passing of title of ownership and property to the TPCODL shall not in any way absolve, dilute or diminish the responsibility and obligations of the Associate under this Contract including loss or damages and all risks, which shall vest with the Associate.

The Associate shall take all corrective measures arising out of discrepancies, errors and omissions in drawings and other information within the time schedule and without extra cost to the TPCODL.

The Associate shall also be responsible for any delay and/or extra cost if any, in carrying out engineering, and site works by other agencies arising out of discrepancies, errors and omissions stated in as well as of any late revision/s of drawings and information submitted by the Associate.

29.0 SUGGESTIONS & FEEDBACK

We welcome all our Business Associates to write to us about their experience with TPCODL; be it our Company, our services or our people. Each and every concern, issue, query and suggestion from you will help us to become a better company to work with and shall help us develop a strong bonding of trust and a long term relationship with you.

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You may send your feedback by filling up our Business Associate Feedback Form enclosed herewith as *Annexure-I*. You can also log on to our website www.tpcentralodisha.com to provide your feedback according to the guidelines mentioned below:

30.0 CONTACT POINTS

In case Business Associate needs information with respect to payments or has any grievances, same may be lodged by log on to our website www.tpcentralodisha.com.

31.0 LIST OF ANNEXURES

S. No.	Subject	Annexure
1.	Performa for Bid Security Bank Guarantee	A
3.	Performa for Performance Bank Guarantee (CP cum EP)	B
4.	Performa for No Demand Certificate by Associate	C
5.	Performa for Indemnification on Statutory Compliance	D
6.	Performa For Application For Issuance of Consolidated TDS Certificate	E
7.	HR Service Level Agreement	F
8.	Under taking for competence of workmen	G
9.	Business Associate Feedback Form	H
10.	Acceptance Form For Participation In Reverse Auction Event	I
11.	Form for RTGS Payment	J
12.	Contractor Safety Management System	K
13.	Vendor Appraisal Form	L

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ANNEXURE-A

PROFORMA FOR BID SECURITY BANK GUARANTEE

TP Central Odisha Distribution Limited

Bhubaneswar

HEREAS, (Name of the Bidder) (hereinafter called “the BIDDER”) has submitted his bid dated for the (Name of Contract) (hereinafter called “the BID”).

KNOW ALL men by these presents we (Name of the Bank) of (Name of the Country) having our registered office at (hereinafter called “the BANK”) are bound unto TP Central Odisha Distribution Limited (TPCODL) in the sum of for which payment well and truly to be made to the TPCODL the Bank binds himself, his successors and assigns by these presents.

SEALED with the Common Seal of the said Bank this day of 20

The CONDITIONS of this obligation are:

- i) If the Bidder withdraws his Bid during the period of bid validity specified in the Proforma of Bid

or

- ii) If the Bidder having been notified of the acceptance of his Bid by the TPCODL during the period of bid validity fails or refuses to furnish the Contract Performance Bank Guarantee, in accordance with the Instructions to Bidders.

We undertake to pay the TPCODL upto the above amount upon receipt of its first written demand, provided that in its demand the TPCODL will note that amount claimed by it is due to it owing to the occurrence of one or both conditions, specifying the occurred condition or conditions.

This Guarantee will remain in force upto and including the date (No of days as mentioned in tender enquiry) days after the closing date of submission of bids as stated in the Invitation to Bid or as extended by you at any time prior to this date, notice of which extension to the Bank being hereby waived, and any demand in respect thereof should reach the Bank not later than the above date.

DATE.....

SIGNATURE OF THE BANK.....

WITNESS.....

SEAL.....

(Signature, Name & Address)

(At least 2 witnesses)

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ANNEXURE- B

PROFORMA FOR PERFORMANCE BANK GUARANTEE (CP cum EP)

(On Rs.100/- Stamp Paper)

Note:

- (a) Format shall be followed in toto
- (b) Claim period of one month must be kept up
- (c) The guarantee to be accompanied by the covering letter from the bank confirming the signature to the guarantee

TP Central Odisha Distribution Limited

Bhubaneswar

CP cum EP BG No.....

Order/Contract No.....dated.....

1. You have entered into a Contract No _____ with M/s. _____ (hereinafter referred to as "the Vendor") for the supply cum erection / civil work of _____ (hereinafter referred to as" the said Equipment") for the price and on the terms and conditions contained in the said contract.
2. In accordance with the terms of the said contract, "the Vendor" agreed to furnish you with an irrevocable, unconditional and acceptable bank guarantee for 10% of the value of contract and to be valid till the end of Guarantee period plus one month towards "Contract cum Equipment performance". For this purpose you have agreed to accept the guarantee.
3. In consideration thereof, we, _____ hereby irrevocably and unconditionally guarantee to pay to you on demand but in any case before the end of five working days from the date of the claim and without demur and without reference to "the Vendor" such amount or amounts not exceeding the sum of Rs. _____ (Rupees _____ only) being _____% (_____ percent) of the total value of the contract on receipt of your intimating that "the Vendor" has not fulfilled his contractual obligations. You shall be the sole judge for such non-fulfilment and "the Vendor" shall have no right to question such judgment.
4. You shall have the right to file / make your claim on us under the guarantee for a **further period of one month** from the date of expiry.
5. This guarantee shall not be revoked without express consent and shall not be affected by your granting time or any other indulgence to "the Vendor", which shall include but not be limited to, postponement from time to time of the exercise the same in you or any right which you may have against "the Vendor" and to exercise the same in any covenant contained or implied in the said contract or any other course or remedy or security available to you, and our Bank shall not be released from its obligations under this guarantee by your exercising

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any of your rights with reference to matters aforesaid or any of them or by reasons of any other act or forbearance or other acts of omission or commission on your part or any other indulgence shown by you or by any other matter or thing whatsoever which under the law would, but for this provision have the effect of relieving our bank from its obligation under this guarantee.

6. We also agree that you shall be entitled at your option to enforce this guarantee against our bank as a principal debtor, in the first instance, notwithstanding any other security or guarantee that you may have in relation to "the Vendor's" liabilities in respect of the premises
7. This guarantee shall not be affected by any change in the constitution of our Bank or "the Vendor" or for any other reason whatsoever.
8. Any claim / extension under the guarantee can be lodge-able at outstation banks or at Bhubaneswar branch and claim will also be payable at Bhubaneswar Branch (to be confirmed by Bhubaneswar Branch by a letter to that effect in case BG is from the branch outside Bhubaneswar)
9. Notwithstanding anything herein contained, our liability under this guarantee is limited to Rs. _____ (Rupees _____) only and the guarantee will remain in force upto and including _____ (Date) and shall be extended from time to time for such period or period as may be desired by "the Vendor".
10. Unless a demand or claim under this guarantee is received by us in writing within one months from _____ (expiry date) i.e. on or before _____ (claim period end date), we shall be discharged from all liabilities under this guarantee thereafter.

Dated at _____ this _____ day of _____ 200__

Witness

- | | |
|----------|--|
| 1. _____ | Bank's rubber stamp
Banks full address |
| 2. _____ | Designation of Signatory
Bank official number |

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ANNEXURE-C

PROFORMA FOR “NO DEMAND CERTIFICATE” BY ASSOCIATE

(On Company’s Letter head or with Company Seal)

(To be submitted by the Associate to TPCODL Accounts Department at the time of receipt of full and final payment)

(Certificate No. CCP/002)

Name of the Project

Order/ Contract No.

Dated

Name of the Associate

Scheme No. / Job No.

We, M/s. _____ (Associate) do hereby acknowledge and confirm that we have received the full and final payment due and payable to us from TPCODL, in respect of our aforesaid Order No _____ dated _____ including amendments, if any, issued by TPCODL to our entire satisfaction and we further confirm that we have no claim whatsoever pending with TPCODL under the said contract / W.O.

Notwithstanding any protest recorded by us in any correspondence, documents, measurement books and / or final bills etc., we waive all our rights to lodge any claim or protest in future under this contract.

We are issuing this “NO DEMAND CERTIFICATE” in favour of TPCODL, with full knowledge and with our free consent without any undue influence, misrepresentation, coercion etc.

Dated

Signature

Place

Name

Designation

(Company Seal)

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ANNEXURE – D

PROFORMA FOR “INDEMNIFICATION ON STATUTORY COMPLIANCES”

(To be submitted by the successful Bidder within seven days of award of work)

(Certificate No. CCP/001)

Name of the Project

Letter of Award / Contract No.

Dated

Name of the Associate

Scheme No. / Job No.

By this confirmation we, _____
(Associate) are formally bound to M/s. TPCODL towards any sum which may be imposed, levied or hereinafter recovered by the Provident Fund Organization under the provisions of the Employees of the Provident Fund and Miscellaneous Provisions Act 1952 in respect of employees employed by us.

We well and truly bind ourselves and our heirs executors administrators and representatives jointly severally and respectively for the above payment only to be paid to M/s. TPCODL.

AND WHEREAS we, _____ (Associate) is making compliance of the Employees Provident Fund and Miscellaneous Provisions Act 1952, have entered into the above written bond for the indemnity to M/s. TPCODL against all losses from the acts or default of the said Associate in respect of compliance of the Provident Fund Act.

Similarly we hereby confirm that we have complied with all statutory and local laws and nothing is outstanding with regard to Local Sales Tax, Labour Laws, Local Municipal dues, Electricity dues etc. We have entered into the above written bond for the indemnity to M/s. TPCODL against all losses from the acts or default of the said Associate in respect of compliance of the Local Sales Tax Laws, Local Laws, Labour Laws, Local Municipal Dues, Electricity dues etc.

NOW THE CONDITION, of the above written bond is as such that if the Associate during the period of this contract commits any default or fails to make payment of Contributions in respect of his employees to the Employees Provident Fund Organization, he shall indemnify the Principal Employer M/s. TPCODL from all and every loss and damage caused to them from any act, omissions or negligence of the said Associate in respect of compliances under the Employees Provident Fund and Miscellaneous Provisions Act, 1952.

IN WITNESS to the above written bond we have here to set our hands, with our free consent.

Dated

Signature

Place

Name Designation

(Company Seal)

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ANNEXURE-E

PROFORMA FOR APPLICATION FOR ISSUANCE OF CONSOLIDATED TDS CERTIFICATE

To be printed on the letterhead

To,

TP Central Odisha Distribution Limited,

Bhubaneswar

Sub: Application for issuance of Consolidated TDS Certificate for the FY _____

Dear Sir,

I / we hereby request / authorize you to issue me / us a consolidate TDS Certificate for the financial year _____ against tax deducted at source by you from my / our payments / bills during the said year from time to time under Chapter XVII – B of the Income Tax Act, 1961.

For and on behalf of

Signature

Name

Address

Contact No. (Land Line)

(Mobile)

PAN #

Assessing authority

ATTACH THE COPY OF PAN CARD

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ANNEXURE - F

SERVICE LEVEL AGREEMENT

(To be adhered to by Business Associates (BAs) in TPCODL on Human Resource Issues)

1.0 The following shall be adhered to by the Business Associates during his / its association with TPCODL:

Shall Abide by TPCODL Core Values:

- a) **Integrity** – We must conduct our business fairly, with honesty and transparency. Everything we do must stand the test of public scrutiny.
- b) **Understanding** – We must be caring, show respect, compassion and humanity to our colleagues and customers and always work for the benefit of the communities we serve.
- c) **Excellence** – We must constantly strive to achieve the highest possible standards in our day to day work and in the quality of services we provide.
- d) **Unity** – We must work cohesively with our colleagues across the group and with our customers and partners to build strong relationships based on tolerance, understanding and mutual co-operation.
- e) **Responsibility** – We must continue to be responsible and sensitive to the communities and environments in which we work and always ensuring that what comes from the people; goes back to the people many times over.
- f) **Agility-** We must work in a speedy and responsive manner and be proactive and innovative in our approach.

2.0 The Business Associate / his manager / supervisor who is responsible for managing the project site / performance contract etc. in TPCODL would also ensure adherence of these values by his employees / persons deployed by him in connection with his works undertaken in TPCODL.

3.0 TPCODL is a signatory to the United Nation Global Compact as an integral part of its Governance principles / business. The Business Associates are required to:

- a) Support and respect the protection of human rights and make sure that they are not complicit in human right abuses.
- b) Respect freedom of association and effective recognition of the right to collective bargaining.
- c) Not to resort to any form of forced and compulsory labour.
- d) Shall ensure abolition of child labour in his area of work.
- e) There is no discrimination in respect of employment and occupation in respect of his employees.
- f) Support precautionary approach to environmental challenges.
- g) Promote greater environmental responsibility by himself and his employees in his areas of work.
- h) Deploy and defuse environmental friendly technologies while carrying out the works.
- i) Work against corruptions in all its form including extortion and bribery by himself and his employees.

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4.0 The Business Associates are required to adhere to all applicable Labour Laws with special reference to the following:

- a) No person below the age of 18 years and no child labour will be engaged directly or indirectly for executing the work connected with the business of TPCODL.
- b) Minimum wages along with other statutory dues like PF, ESI, etc. as applicable to the workers shall be made within the prescribed period of 7th / 10th day of the following month.
- c) Deduction / deposit / record keeping and all other requirements under Employees PF Act 1952, Employees State Insurance Act 1948 and other applicable acts (if any) shall be adhered to.
- d) Only statutorily authorized deductions (if any) shall be made in accordance with the relevant statutes.
- e) All the provisions of Contract Labour (R&A) Act 1970 shall be complied with in respect of the workers engaged for TPCODL work. The work will be commenced only after completing necessary formalities for obtaining Labour License (if applicable).
- f) Necessary registers / records, filing of returns etc. shall be maintained for verification by Statutory / TPCODL authorities.
- g) Payment of wages shall be made only in presence of and with certification of authorized representative of TPCODL or shall be made in the form of cheque / bank transfer to the employee.
- h) During the period of contract, the Business Associate will arrange for deployment of his supervisor / manager for total supervision and control of the work and their manpower. All the activities related to their manpower e.g. attendance, leave, wage disbursement etc. will be done under the supervision & control of Business Associates, While adhering to the prescribed standard / norms of production / productivity & quality. During execution of the work, Business Associate shall engage only such qualified / skilled manpower as may be envisaged / required for ensuring level of production / service into the contract / work order.
- i) Clearances as follows shall be obtained from IR & Welfare Group:
 - a. Clearance for commencement (before start of the work).
 - b. No Objection Certificate (after completion / before final settlement).
 - c. Copies of PF / ESI Challans shall be deposited with IR & Welfare Group every month
- j) The Business Associate shall indemnify TPCODL from any liabilities under applicable Labour Statutes.
- k) The Business Associate shall ensure safety and health of his employees and shall also maintain hygienic working environment / condition in his area of work.

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- l) The Business Associate and his employee shall abide by Laws of Land and shall not violate any applicable provisions.
- m) The Business Associate appreciates with and acquiesces to the right of TPCODL as principal employer to fulfil any of his legal obligations, if he fails to do so under applicable labour laws and deduct the same from his running bills / final payments / encharging security deposit / Bank Guarantee as the case may be. If there is any further shortfall TPCODL has the right to recover the same from the Business Associate.
- n) The Business Associate ensures that person employed by him adhere to the moral and legal conduct and shall not violate any standard conduct envisaged in the premise of TPCODL by all such as, Transparency, Safety, Discipline, Integrity etc. The Business Associate or his employees should refrain from corrupt practices, giving or taking bribe in connection with any TPCODL business.

5.0 The 'Statutory Compliance Enforcement System' in TPCODL is detailed below for adherence by all concerned. Corporate IR & Welfare Group will be the process owner for implementation of the system with the help of concerned Engineer I/c or Officer I/c.

- a) Statutory Compliance being a professed value in TPCODL Code of Conduct, the concerned Engineer / Officer in charges are requested to adhere to the provisions and advise respective Business Associates in their domain to comply in letter and spirit.
- b) Immediately after issuance of letter of intent, the authorized representative of the Business Associate will report to Corporate IR & Welfare group for completion of statutory requirements.
- c) Normally, the work will be started only after 'Clearance for Commencement of Work (CCW)' is issued by IR & W group to the Business associate. However in exceptional exigencies in engineer I/c / Officer I/c may direct the Business Associate to start the work and inform IR & W group about the same. Statutory requirements in this case may be completed parallelly.
- d) First monthly bill will be released only after producing CCW to the finance department. Similarly closure of work and final settlement will be affected after issuance of no objection certificate from IR & W group.

6.0 Requirements for 'Clearance for Commencement of Work' (CCW):

- a) Submission of filled up Form 'A' for database (Annexure-1).
- b) Copy of PF Code allocation letter.
- c) Copy of ESI Code allocation letter.
- d) Submission of duly filled up Form IV CL(R&A) act (In case more than or equals to 20 workers during the period of contract).
- e) Submission of duly filled up Form VI A (Notice of Commencement).
- f) Copy of insurance cover note under WC Act 1923 (if applicable).
- g) Copy of Contract Agreement.
- h) Copy of indemnity bond (if applicable).

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- i) Affidavit with regard to payment of wages through cheque / bank transfer only.

7.0 Requirements during execution of work:

- a) Copy of receipt of application for license / license (if applicable).
- b) Copy of PF Challan (latest by 26th day of every Month).
- c) Copy of ESI Challan (latest by 26th day of every Month).
- d) Copy of Wage disbursement sheet / Bank statement.
- e) Filing / Maintenance of all statutory registers / reports / returns for inspection by Statutory/ TPCODL authorities.
- f) Certification of wage disbursement by authorized representative of TPCODL.
- g) Copy of 'Labour Welfare Fund' deposit certificate / Challan.
- h) Insuring safe working practices at the work place.

8.0 Requirements for 'No Objection Certificate' (NOC) for closure of work:

- a) Submission of duly filled up Form VI A (Notice of Completion).
- b) Copy of Half yearly / Annual return for ESI / PF / CL(R&A).
- c) Consolidated copy of wage sheet of last month indicating full & final settlement of all dues like retrenchment benefit, bonus, leave encashment etc. Copy of individual declaration by employees in Form X regarding termination of employment.
- d) Confirmation certificate regarding filling up of form for transfer / withdrawal of PF by the concerned workers.

In case any of the above are deviated / not complied with the Letter of Award/Order shall be liable to be withdrawn / cancelled.

Enclosure:

- 1) Form A
- 2) Form X
- 3) Form XI
- 4) Form VI A
- 5) Form XXIV

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FORM (A)

[To be submitted by the Business Associate to the Principal Employer within a week from LoA issuance]

A. Details of the Agency

1. Name of Agency :
2. Nature of work :
3. Local Address with Ph. No. :
(With Father's name) :
4. Permanent Address (Full) :
5. PF code no. & Place :
6. ESI Code no. & Place :
7. Name and address of :
Sub-contractor (if any)

B. Details of Work

8. Name of work (as specified in LOI/LOA) :
9. LOI/LOA Nos. & Dates :
10. Period of contract (Specify Dates) :
[Including Extension period, if any] :
11. Work Area [Department / Location] :
12. Name / Cell no. of Officer I/c :
13. Maximum No. of workers and staff to be engaged on any day during the year.
- Supervisory Staff :
- Workers :
14. Do you have any other contract in TPCODL : Yes/No

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If yes, furnish details:

15. Details of Workmen's compensation Policy, if applicable

Name _____ of _____ Insurance _____ Company _____

Policy No Number of persons covered
 covered Period of coverage: From To

If no, I hereby undertake the liability arising out of Workmen's Compensation Act and Rules made there under.

C. Details of workers to be engaged

No. of Workers

S. No.	Unskilled*	Semi-skilled*	Skilled*	Clerical / Supervisory

*** Number to be indicated**

I/We shall fulfil all obligations arising from and under all relevant law in force from time to time. I/We undertake to keep the TPCODL indemnified against any loss or liability arising out of failure of my / our abiding the relevant laws.

The name of my / our representatives is to enter the TPCODL Premises on my behalf.

Date:

**(Signature of the Business Associate
 or his Authorized Representative)**

This Business Associate is / will be engaged in TPCODL.

**(Signature and seal of
 Officer I/c of the Work)**

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Form X

Undertaking

I _____ hereby undertake that all the dues in respect of my employment with M/s _____ for the period of _____ to _____ have been settled and final payments including retrenchment benefit have been made to me in full.

(_____)

Date:

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Form XI

Undertaking

With reference to the contract job awarded by M/s TP Central Odisha Distribution Limited to M/s _____ vide work order No. _____ dated _____

I _____ on behalf of

M/s _____ hereby undertake:

1. that the dues in respect of the workmen/ employee(s) engaged by us for the said contract, payable as per the provisions of relevant statute pertaining to
 - i. wages/ salary
 - ii. PF & ESI, Bhubaneswar Labour Fund
 - iii. All other statutory obligation
 has been paid /settled in full and no amount/ compliance is due/ pending.

2. That in case any dispute / claim is raised by the concerned workers i.r.o. any dues / payments, M/s _____ will settle the same on its own and such liability will be borne by M/s _____

3. That M/s _____ hereby indemnify M/s TPCODL from any future liability i.r.o. any statutory obligation in respect of said contract.

Date:

(_____)
Authorized Signatory

For M/s _____

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FORM- VI A

Notice for Commencement /Completion of contract work

I/We, Sh. / M/s _____ (Name and Address of the Contractor) hereby intimate that the contract work _____ (name of work) in establishment of the _____ (name and address of the Principal Employer) for _____ which License No. _____ dated _____ has been issued to me/us by the Licensing Officer _____ (name of the Headquarters), has been commenced / completed with effect from _____ date / on date.

Signature of Contractor

With Office Seal

The Inspector

FORM XXIV

[See Rule 82(1)]

Return to be sent by the Contractor to the licensing Officer (in duplicate)

Half -Yearly Ending _____

1. Name and address of the Contractor
2. Name and address of the Establishment
3. Name and address of the Principal Employer
4. Duration of Contract: From _____ to _____
5. No. of days during the half year on which
 - (a) the establishment of the principal employer had worked
 - (b) the contractor's establishment had worked
6. Maximum No. of contract labour employed on any day during the half –year:

Men	Women	Children	Total

7.
 - (i) Daily hours of work and spread over
 - (ii) (a) whether weekly holiday observed and on what day
 - (b) if so, whether it was paid for
 - (iii) No. of man – hours of overtime worked

8. No. of man days worked by

Men	Women	Children	Total

9. Amount of wages paid

Men	Women	Children	Total

10. Amount of deductions from wages, if any

Men	Women	Children	Total

Whether the following have been provided –

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(i) Canteen : _____

(ii) Rest rooms : _____

(iii) Drinking water : _____

(iv) Crèches : _____

(v) First Aid : _____

Signature of contractor

Place _____

Date _____

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ANNEXURE – G

UNDERTAKING FOR COMPETENCE OF WORKMEN

Name of Associate :

Tender No. :

Item :

With reference to the tender mentioned above, I/We _____, hereby undertake that the workmen/ employee(s) engaged by M/s _____ for the job against said tender shall be competent in all respect, commensurate to the nature of job.

Date:

()

Authorized Signatory

For M/s

Seal

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ANNEXURE-H

BUSINESS ASSOCIATE FEEDBACK FORM

With an objective to improve our internal processes and systems, and serve you better, we solicit your valuable feedback & suggestions. It is estimated that it will take about 10 minutes to complete this survey. We assure you that your feedback shall be kept confidential. Please send the duly filled feedback form in the "TPCODL addressed - attached envelop"

You are associated with us as

- OEMs Service Contractor Material Suppliers Material & Manpower Supplier

You are associated with us for

- Less than 1 year More than 1 year but less than 3 years More than 3 years

Your office is located at

- Bhubaneswar Within 200 kms from Bhubaneswar More than 200 kms from Bhubaneswar

Your nearly turnover with TPCODL

- Less than 25 Lacs 25 Lacs to 1 Crore More than 1 Cr.

Additional information

Your Name	
Your Designation	
Your Organization	
Contact Nos.	
Email	

We once again thank you for your participation in this survey. Please spare 10 minutes to give your feedback on following pages (Section A to E)

SECTION - A

(Please ✓ mark in the relevant box and give your remarks / suggestions / information for our improvement.).

S. No.	Parameters	1	2	3	4	5	Remarks/ Suggestion
		Do Not Agree	Slightly in Agreement	In Fair Agreement	Mostly in Agreement	Fully Agree	
1	You receive all relevant queries / tenders from us in timely manner.						
2	We provide you enough lead time to respond to our queries / tenders.						
3	We provide you adequate support (drawings, documents, clarifications, briefing etc.) to enable you meet our requirements.						
4	All following elements of our contract / purchase order are rational :						
4.1	Scope of Work						
4.2	Delivery / Execution Schedule						
4.3	Payment Terms						
4.4	Liquidated Damages						
4.5	Performance Guarantee						
5	Our purchase orders / contracts are simple, specific & easy to understand						
6	TPCODL demonstrate willingness to be flexible in administration of Contract / Purchase Order						
7	We provide timely responses / clarifications to your queries						
8	TPCODL representative you interact / coordinate with is adequately empowered to support you in meeting contractual obligations						
9	TPCODL provide you all necessary infrastructure support for timely and quality completion of work (including AMC)						

S. No.	Parameters	1	2	3	4	5	Remarks/ Suggestion
		Do Not Agree	Slightly in Agreement	In Fair Agreement	Mostly in Agreement	Fully Agree	
10	TPCODL Engineer-in-Charge timely certifies the jobs executed/ material supplied						
11	TPCODL Engineer-in-Charge efficiently supervises the job execution for timely completion of job						
12	BIRD (Bill Inward Receipt Desk) initiative has improved payment disbursement process						
13	Our approach for Inspection and Quality Assurance effective to expedite project completion?						
14	TPCODL never defaults on contractual terms						
15	In TPCODL Contracts closure is done within set time limit						
16	Our material receiving procedures are well defined and efficiently deployed to reduce mutual inconvenience						
17	Bank Guarantees are released in time bound manner						
18	Our processes related to payment / account settlement are effective.						
19	You get payments on time						
20	TPCODL Employees follow Ethical behavior						

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SECTION - B

SECTION – B (Please rate the following parameters on a scale of 1 to 5, where 1 - Minimum; 5 - Maximum)

SN	Parameters	1	2	3	4	5	Remarks/ Suggestion
1	How do you rate courtesy/ empathy/ attitude level and warmth of TPCODL employees you interact with from following team?						
1.1	Project Engineering						
1.2	District / Zones						
1.3	Projects/HOG (TS &P)						
1.4	Inspection & Quality Assurance						
1.5	Stores						
1.6	Metering & Billing						
1.7	Accounts / Finance						
1.8	Administration						
1.9	IT & Automation						
2	How would you rate TPCODL in comparison to your other clients in terms of fairness of treatment and transparency with its Business Associates?						
3	How would you rate TPCODL in comparison to your other clients in terms of processes and systems to manage partnership with its Business Associates						
4	How would you rate TPCODL in comparison to your other clients in terms of building long term & mutually relationship with its Business Associates						

SECTION - C

Please ✓ mark in the relevant box and give your remarks / suggestions / information for our improvement.

S. No.	Parameters	Certainly NO	Probably NO	Probably YES	Certainly YES	Remarks/ Suggestion
1	Based on your experience with TPCODL, would you like to continue your relationship with TPCODL?					
2	If someone asks you about TPCODL, would you talk "positively" about TPCODL?					
3	Would you refer TPCODL name to others in your community, fraternity and society as a professional & dynamic organization?					

SECTION - D

If we ask you to rate us on a scale of 1 to 10, how will you rate TPCODL, that truly represents your overall satisfaction with us (please tick appropriate box) –

1	2	3	4	5	6	7	8	9	10
---	---	---	---	---	---	---	---	---	----

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SECTION – E

Please ✓ mark in the relevant box and give your remarks / suggestions / information for our improvement.

Please spare your thoughts for TPCODL's improvement in particular areas of weaknesses, particularly relating to some great practices, attitudes that you have seen elsewhere in Indian and International Organizations, which you recommend TPCODL to adopt. Please give your valuable salient recommendations.

Please spare your thoughts for TPCODL's improvement in particular areas of major concerns for you. We also welcome your suggestions to adopt any best practices, attitudes that you have observed / experienced elsewhere in Indian/ International organization.

Recommendation	<i>Please tick (✓) your top 5 expectations out of the following 10 points listed below -</i>	
(Please list down improvement you expect from TPCODL)	<i>Timely payment</i>	
1	<i>Flexibility in Contracts/PO</i>	
	<i>Clarity in PO,s & Contracts</i>	
2	<i>Timely response to quarries</i>	
	<i>Timely certification of works executed</i>	
3	<i>Clarity in Specs, drawings, other docs etc.</i>	
	<i>Adequate information provided on website for tender notification, parties qualified etc.</i>	
4	<i>Timely receipt of material at site for execution</i>	
	<i>Performance Guarantee/EMD released in time</i>	
5	<i>Inspection & quality assurance support for timely job completion</i>	

We thank you for your time and courtesy!!

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ANNEXURE - I

ACCEPTANCE FORM FOR PARTICIPATION IN REVERSE AUCTION EVENT

(To be signed and stamped by the bidder prior to participation in the auction event)

In a bid to make our entire procurement process more fair and transparent, TPCODL intends to use the reverse auctions through SAP-SRM tool as an integral part of the entire tendering process. All the bidders who are found as technically qualified based on the tender requirements shall be eligible to participate in the reverse auction event.

The following terms and conditions are deemed as accepted by the bidder on participation in the bid event:

1. TPCODL shall provide the user id and password to the authorized representative of the bidder. *(Authorization Letter in lieu of the same shall be submitted along with the signed and stamped Acceptance Form).*
2. TPCODL will make every effort to make the bid process transparent. However, the award decision by TPCODL would be final and binding on the supplier.
3. The bidder agrees to non-disclosure of trade information regarding the purchase, identity of TPCODL, bid process, bid technology, bid documentation and bid details.
4. The bidder is advised to understand the auto bid process to safeguard themselves against any possibility of non-participation in the auction event.
5. In case of bidding through Internet medium, bidders are further advised to ensure availability of the entire infrastructure as required at their end to participate in the auction event. Inability to bid due to telephone line glitch, internet response issues, software or hardware hangs, power failure or any other reason shall not be the responsibility of TPCODL.
6. In case of intranet medium, TPCODL shall provide the infrastructure to bidders. Further, TPCODL has sole discretion to extend or restart the auction event in case of any glitches in infrastructure observed which has restricted the bidders to submit the bids to ensure fair & transparent competitive bidding. In case an auction event is restarted, the best bid as already available in the system shall become the start price for the new auction.
7. In case the bidder fails to participate in the auction event due any reason whatsoever, it shall be presumed that the bidder has no further discounts to offer and the initial bid as submitted by the bidder as a part of the tender shall be considered as the bidder's final no regret offer. Any offline price bids received from a bidder in lieu of non-participation in the auction event shall be outrightly rejected by TPCODL.
8. The bidder shall be prepared with competitive price quotes on the day of the bidding event.
9. The prices as quoted by the bidder during the auction event shall be inclusive of all the applicable taxes, duties and levies and shall be FOR at TPCODL site.
10. The prices submitted by a bidder during the auction event shall be binding on the bidder.
11. No requests for time extension of the auction event shall be considered by TPCODL.
12. The original price bids of the bidders shall be reduced on pro-rata basis against each line item based on the final all inclusive prices offered during conclusion of the auction event for arriving at Contract amount.

Signature & Seal of the Bidder

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:

Email Address of accounts person (to send payment information)

Name of the Authorized Signatory :

Contact Person's Name :

Official Correspondence Address :

We confirm that we will bear the charges, if any, levied by our bank for the credit of NEFT/RTGS amounts in our account. Any change in above furnished information shall be informed to TPCODL well in time at our own. Further, we kept TPCODL indemnified for any loss incurred due to wrong furnishing of above information.

Thanking you,

For _____

(Authorised Signatory)

(Signature with Rubber Stamp)

Certification from Bank:

We confirm that we are enabled for receiving NEFT/RTGS credits and we further confirm that the account number (specify Bank a/c no.) of (Please mention here name of the account holder), the signature of the authorised signatory and the MICR and IFSC Code of our branch mentioned above are correct.

This also is certified that the above information is correct as per Bank record

(Manager's/ Officers Signature under Bank Stamp)

ANNEXURE - K

CONTRACTOR SAFETY MANAGEMENT SYSTEM

1. OBJECTIVE

The objective of the Contractor Safety Management System is to lay down clear guidelines for all Business Associates (including their associates, staff and agents) which would facilitate them to observe all statutory rules and regulations, comply with applicable standards of Central Electricity Authority (Measures relating to safety and electric supply) Regulations, 2010 & (safety requirements for construction, operation and maintenance of electrical plants and electric lines) Regulations, 2011, TPCODL Safety Manual and Guidelines and thus, ensure creation of safe working environment for all stakeholders of our network.

2. SCOPE

All contracts (minor and major) will be subject to the provisions of this document.

Minor Contracts: Contracts which satisfy all the criteria listed under the head “Minor Contracts”.

Major Contracts: Contracts which satisfy any two or more criteria listed under the head “Major Contracts”

Criteria	Minor Contracts	Major Contracts
Value of Contract	< Rs. 1500000/- (less than Rs. Fifteen Lac)	>= Rs. 1500000/- (Equal or more than Rs. Fifteen Lac)
Period	Period less than 1 year	Any period
Working on energized electrical equipment	No	Yes
Working on height (above 1.8 Mtrs from ground)	No	Yes
Work involving construction activity	No	Yes
Working with hazardous goods or chemicals	No	Yes
Work involving danger to general public	No	Yes

Note: Exceptions for major and minor contract are – in house software development, supply of material or equipment but no direct or indirect installation of the same material, administration contracts (courier, water supply, printing, security, transport, etc.), minor civil work like plastering at ground level or flooring, etc. The facility management (housekeeping) contract will always be treated as a minor contract.

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3. INFORMATION REQUIRED AT TIME OF VENDOR REGISTRATION OR BEFORE COMMENCEMENT OF CONTRACT

- 3.1 Business Associate is required to fill the Safety Management System Questionnaire as per *annexure 1* and submit along with the vendor registration process / bid / tender document. The filled questionnaire will be scrutinized by Engineer In-charge / indenting group and recommend suitability of the BA with respect to safety requirements. The fulfilment of statutory requirements for vendor registration pertaining to labour laws etc. shall be done by BA Cell on being referred to it.
- 3.2 Business Associate is required to take suitable risk control measures mentioned against the identified Hazards and Risk document provided for all contracts as per *annexure 2*. The primary objective of this is to evaluate the understanding of the BA towards risk mitigation and employment of safe work procedures. BA is required to conduct the Hazard identification and Risk Assessment study as per the procedure and deploy more or other measures if deemed necessary.
- 3.3 Business Associate shall comply with **Statutory Requirements related to Safety and Occupational Health** and submit the "Safety Undertaking" as per *annexure 4*.

4. GENERAL SAFETY CONDITIONS REQUIRED TO BE FULFILLED BY BUSINESS ASSOCIATES

The requirements of the contractor safety management system applicable to the minor or major contracts related to various groups are as following –

- 4.1 Maintenance of Distribution Network – *Annexure 3.1*
 - 4.2 Distribution Projects – *Annexure 3.2*
 - 4.3 EHV Projects – *Annexure 3.3*
 - 4.4 Maintenance of Sub transmission network – *Annexure 3.4*
 - 4.5 Civil / Generation Projects – *Annexure 3.5*
 - 4.6 Meter Management Group (MMG), Revenue Recovery Group (RRG), Energy Auditing Group, AMI, MRG, etc. – *Annexure 3.6*
 - 4.7 Maintenance and Operation of Street Light. – *Annexure 3.7*
1. *Please note that hydra cranes used by any dept should be ACE Model No. FX 150 ACE SX 150, Escorts Model No. TRX 1550 or contemporary. Use of old generation hydra cranes like ACE 14XW or ACE 12 XW, etc are prohibited.*

(Details as per Annexure attached)

Note: For minor contracts, the BA shall assign the duties of Safety Representative to the Work Supervisor. Work Supervisor will deliver all duties and responsibilities of Safety Supervisor as detailed in this document.

The Business Associate (BA) having major contract will appointing Safety supervisor, engineer / manager for the TPCODL work. The BA shall make all necessary arrangements for getting their workforce safety trained and competency checked from the DOSEC of TPCODL before deployment in the field. BA Cell shall recommend the suitability after competency checked by Engineer In-charge and SAFETY group (or his representative) of TPCODL. After getting the clearance from DOSEC, BA cell and receiving temporary I-card issued by TPCODL, Business Associate shall commence the working.

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Safety Representative of Business Associates will formally become the nodal point for safety concerns for TPCODL. **BA shall not frequently transfer or terminate the services of any of the safety representatives appointed for TPCODL work site. BA needs to ensure that Safety representative is available at all points of time; failing which the work being carried out in the interim (period when Safety representative is not available) shall be treated as working under improper supervision and due penal provisions shall be initiated against the BA.** BA will be required to provide all applicable infrastructure and power to ensure smooth working of the safety representative to maintain a sound safety management system. **In all contracts safety representative will not be assigned any other activity at site apart from the works related to safety management. The duties are detailed in clause 5.5 of this document.** TPCODL will be auditing the facilities provided to the BA's safety team time to time.

The Safety Representative of the BA shall be required to meet and follow the instructions of the Engineer In-charge and SAFETY Group of TPCODL. He shall be responsible for providing the MIS and/or any other relevant information, as and when desired, within the stipulated time frame as per the requirements of TPCODL. Any non-conformance to safety will lead to the negative marking or issue of safety violation challan/ tokens which shall affect the monthly evaluation and performance of BA.

All contracts where BA has to depute vehicle for their staff and equipment to move from one location to other, the BA shall ensure that vehicle complies all required statutory clearances and requirement as per The Motor Vehicle Act, 1988 as well as TPCODL Road Safety Policy and are in good & safe state of working.

5. QUALIFICATION AND EXPERIENCE OF THE SAFETY AND SITE PERSONNEL

Qualification and experience required for the safety and site personnel are as following:

5.1 Safety Supervisor: It is mandatory that educational qualification of safety supervisor be ITI (of relevant trade) / Diploma (Any branch of engineering) and he has a working experience on electrical system / relevant field of work at least 5 yrs for ITI and 3 years for Diploma holder. Having formal experience of the safety systems will be an added advantage

5.2 Safety Engineer: It is mandatory that educational qualification of safety engineer be at least Diploma (relevant branch) and he has working experience on electrical system of at least 3 yrs. Having the formal experience of the safety systems will be an added advantage.

5.3 Safety Manager: The educational qualification of safety manager should be graduate engineer with working experience on electrical system / network of at least 3 yrs. OR Diploma in Industrial Safety with working experience of 05 years including at least 02 years on electrical network.

However, clause 5.1, 5.2 and 5.3 are not applicable for minor contracts. In such cases, BA shall assign the duties of Safety Representative to the Work Supervisor. Work Supervisor will deliver required duties of Safety Representative (as per clause 5.5) in addition to other duties without diluting the importance of safety.

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5.4 Site Skilled Personnel: For all responsibility related to site activities and operations, the BA shall employ only qualified and skilled persons and shall comply the provisions of section 19 & 29 of Central Electricity Authority (Measures relating to safety and electric supply) Regulations, 2010. Persons holding valid approvals only by any Government approved agency or a competency assessment panel or a team set up by TPCODL shall be allowed to perform the High Risk / High Hazard activities (refer page 1). The skill / qualification required for the electrician and electrical supervisor are given in *annexure 5*. The contracts related to maintenance of Distribution Network, Distribution Projects, Extra High Voltage Projects, maintenance of Sub-Transmission Network, Meter Management Group & Energy Audit Group, maintenance and operation of street lights, shall preferably have at least 20 per cent of ITI qualified electricians in the first year of the contract. This figure shall preferably be incremented by 15 per cent every subsequent year.

Note: For the competency assessment may please refer the work instructions. An employee shall have to necessarily undergo the competency assessment check once in every eighteen months.

5.5 Requirements from the Safety Representative(s) of the Business Associate:

- 5.5.1 Safety training of 2 hrs/employee/month and one day of safety induction training to all new employees joining the BA will be conducted by the BA as per Safety training modules of TPCODL.
- 5.5.2 Safety Talk / tool box talk before start of shift to BA employees.
- 5.5.3 Ensuring the availability & proper usage of the standard safety equipment (PPE)
- 5.5.4 Periodic inspection of PPE to ensure their serviceability and maintaining the 10% buffer stock of standard PPEs.
- 5.5.5 Ensuring the adherence to standard operating procedures of TPCODL as mentioned in TPCODL Safety standard and O & M and concerned function's manual.
- 5.5.6 Safety inspections / audits as per the process of TPCODL
- 5.5.7 Working in close coordination Safety Group of TPCODL.
- 5.5.8 Reporting of unsafe acts, unsafe conditions, near miss, incident or accident to Engineer In-Charge and Safety Group of TPCODL immediately after its occurrence.
- 5.5.9 Regular HIRA at site and comply the control measures as stated in the detailed HIRA as per the *annexure 2*. Also deployment of JSA based checklist shall be ensured.
- 5.5.10 Ensuring compliance with safety and other laws as may be applicable and providing for safety assurance.

5.6 Training and Syllabus: The BA shall not deploy any person at work place / site or send newly recruited personnel directly to DOSEC for competency assessment without Safety Induction Training.

- 5.6.1 All new BA employees have to necessarily undergo one and half days Safety training and Competency assessment at training centre of BA cell. This training will be conducted once in a week. After the completion of Safety training & Competency assessment I-card will be issued to all competent BA employees

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5.6.2 BA is expected to initially train and judge the capability of the workman at his own end before further recommending the workmen for Competency assessment. If any BA workman sent for competency assessment. In case any BA workman fails in the Competency test at DOSEC, it will be deemed that BA has not imparted sufficient training at his end and actual cost of training ₹ 7500/ BA employee/ failed attempt will be recovered.

5.6.3 The workers who have imparted Safety Training and issued I-Cards of TPCODL, are not deployed at TPCODL worksites/ voluntarily left the job by workers/ used somewhere else other than TPCODL by the BA, in that case Management reserves the rights to intervene and recover the actual cost of training i.e. ₹ 7500/BA employee. (Exempted for attrition rate of BA workers less than or equal to 10% of total workforce deployed at TPCODL)

5.7 It is desired that Safety representative of the BA to impart the general safety training to each employee of duration 2 hrs per month. The training will be organized at BA level and the record to be sent to engineer in-charge and SAFETY group of TPCODL every month. Please refer schedule and syllabus in *annexure 6*.

List of Personal Protective Equipment (PPE) and Maintenance schedule: BA shall commence the project or any work only when the required PPE are made available to the team of employees involved in the work. Each PPE of BA shall be checked / inspected by the safety representative / supervisor at zone before the work start or as prescribed in the list. Safety representative shall regularly check the healthiness of each PPE allocated to lineman. Suitable record shall be maintained at zone. Defective PPE shall be immediately replaced or within 24 hours by the BA. In no case linemen or any other official of BA may be allowed to work with defective PPE. It is preferred that BA ensures minimum stock of each PPE at zone for immediate replacement with defective one. The PPE shall be IS / BS / CE marked and exactly as per the standard or specification mentioned in the *annexure 7*. Working without PPE / non-standard PPE shall be treated as safety violation and penalty as stated in section 6.0 of this document. If TPCODL finds that BA has not provided the adequate / appropriate PPE to their staff, TPCODL reserves the rights to stop the work and call the BA to provide appropriate PPEs at the risk. If the BA fails to provide the required PPEs at the risk then the same shall be provided by TPCODL at the actual cost of the PPE. The amount shall be charged to BA and same shall be first recovered from the current bill of BA or any future payment to be made to BA. In the event of any balance amount still left for recovery, the same shall be adjusted against retention amount or by invoking bank guarantee submitted by BA.

5.8 Safety Audit / Inspection & HIRA: The BA shall get the required safety inspection / audit conducted by his technical team comprising of safety representative as per the *annexure 8*. The safety representative will be required to conduct the HIRA (Hazard Identification and Risk Assessment) *as per annexure 2* of the process and work undertaken at least two times in a year or every time if a new process / activity / machine is introduced or whenever an accident take place. The risk identified to be addressed suitably with –

- Engineering Control
- Management Control, and
- Personal Protective Equipment.

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The safety representative of BA shall inform and educate for the identified risk and hazard control methods to employees, supervisor and engineer as well as the engineer in-charge and SAFETY group of TPCODL.

5.9 Safety Performance and Safety MIS: The BA shall maintain good practice of safety all through the contract duration. Safety shall always be of paramount importance during the contract period. Safety performance will be monitored on yearly basis throughout the period and no relaxation will be given for bad performance. BA with good track record and excellent performance will be rewarded suitably as per clause 6.0 of this document. The BA has to provide monthly "Performance Report – Safety" to engineer in-charge and SAFETY group TPCODL this shall be part of monthly bill along with training details. Performa of the report is enclosed as *annexure 9*.

5.10 Pre – Employment Medical Check-up and Fitness of employees engaged for the critical works: The BA shall submit the health fitness certificate for all those workers involved in climbing the pole or working at height for following diseases:

- 5.10.2 Epilepsy
- 5.10.3 Colour blindness
- 5.10.4 Deafness
- 5.10.5 Vertigo & height phobia

Every year BA will give an undertaking stating that all the employees are fit to work and have not developed aforesaid diseases. The Record of such medical check-ups shall be submitted to BA Cell before issue of temporary identity card. The records shall be maintained at BA Cell. All such medical check-ups shall be repeated once in a year for all workers involved in climbing the pole or working on electrical network.

6. REWARD AND PUNITIVE MEASURES

6.1 To support the enforcement of good SHE & DM practices by the Business Associate and to eliminate repeated or continuing safety violations, use of appropriate reward and punitive measures shall be made. Each unsafe act or violation of the safety guidelines as described in the Safety Manual of the TPCODL will be audit criteria of this system. Broadly the measures identified are following:

- 6.1.1 Working without PPE/ Safety Gadgets
- 6.1.2 Working without proper tools and tackles, barricading, Poor condition of Crane / Hydra / Vehicle, using without certification / Licence, Incompetent driver/ Helper
- 6.1.3 Working without creation of effective safety zone
- 6.1.4 Improper Supervision at worksite, Lineman/ Supervisor working without competency
- 6.1.5 Working without adherence to PTW process or authorization/ not adherence to SOPs / W.I. of TPCODL.
- 6.1.6 Improper Working at height equal to or above 1.8 mtrs without taking proper fall protection measures/ Poor condition of Ladder

6.2 Measures of Reward and Punitive Measures

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The Engineer In-Charge, NSO, SC, ASOs, CSI / SIs and SHE &DM group will conduct the surprise audits of the work / project and if any non-conformance is found the same will be booked and entered in the format "Safety Violation Record" *annexure 10*. The flow of the information is given below:

Safety Violation Escalation & Monitoring process	
Action	Responsibility
Safety Violation form has been filled and counter foil sent to SAFETY team for information. The main form is to be given to BA supervisor / Engineer in-charge. <i>(Automatically generated if Site audit done through Mobile App.)</i>	Engineer In-charge/ NSO / SC / SAFETY Group /CSI/ ASO/ Any authorised TPCODL official.
↓	
Entry of the violation in the master record and sending the information to concerned Manager, HoG, HoD, Head and Chief (O &S). <i>(Automatically generated if Site audit done through Mobile App.)</i>	SAFETY Group
↓	
Forwarding the information Centralized Account Payable (CAPS) for amount deduction from the current bill of the BA, <i>if any</i> .	Engineer In-charge
↓	
HoG (Safety – II) & HoG (Safety & Quality – Commercial) and CAPS to generate the MIS of the violations and the amount deducted.	SAFETY Group
↓	
The pool of the amount generated after the deduction to be utilized in safety welfare of BA employees.	SAFETY Group with approval of CFO/Chief (O & S) /CEO&MD

The safety violations have been rated from 1 to 5 (figure 6.3) as per the gravity of the violation. If the same violation is repeated it may escalate into a higher penalty. If a particular Business Associate employee violates safety norms three times, he shall not be allowed to work in TPCODL for a period of one year from the date of the 3rd violation.

6.3 Safety Violation Escalation Matrix

6.3.1

Consequence of Safety Violation Observed (Not related to Incident/ Accident)		Violation				Subsequent Violations
S.No.	Safety Violation	1st	2nd	3rd	4th	
1	Working without PPE (Helmet/Gloves/Safety Harness/ Safety Shoes etc.)	A	B	C	D	Will attract the same penalty as applicable in the 4th violation.
2	Improper Working at Height	A	B	C	D	
3	Working without proper tools and tackles	A	B	C	D	
4	Poor condition of Crane/Hydra/ Vehicle/Incompetent driver/ Helper	A	B	C	D	
5	Violation of SOP/ WI	B	C	D	E	
6	Working without adherence to PTW process or authorization/ Safety Zone	C	D	E		
Legend	Action to be taken	Responsibility	Penalty Amount (in Rs.)	The number of violations are to be calculated cumulatively over the contract period and not on monthly basis.		
A	Warning letter	Engineer Incharge	Nil			
B	Levy of Penalty	Engineer Incharge	2,000			
C	Memo to BA & Levy of Penalty	Head of Group	4,000			
D	Memo to BA & Levy of Penalty	Head of Department	10,000			
E	Memo to BA, Levy of Penalty and termination of Contract	Head of Department	1,00,000			

Figure 6.3 (1a)-Penalty Matrix for Safety violation (Applicable for Minor Contracts)

Consequence of Safety Violation Observed (Not related to Incident/ Accident)		Violation				
S.No.	Safety Violation	1st	2nd	3rd	4th	Subsequent Violations
1	Working without PPE (Helmet/Gloves/Safety Harness/ Safety Shoes etc.)	B	C	D	D	Will attract the same penalty as applicable in the 4th violation.
2	Improper Working at Height	B	C	D	D	
3	Working without proper tools and tackles	A	B	C	D	
4	Poor condition of Crane/Hydra/ Vehicle/Incompetent driver/ Helper	B	C	D	E	
5	Violation of SOP/ WI	C	D	E		
6	Working without adherence to PTW process or authorization/ Safety Zone	C	D	E		
Legend	Action to be taken	Responsibility	Penalty Amount (in Rs.)	The number of violations are to be calculated cumulatively over the contract period and not on monthly basis.		
A	Levy of Penalty	Engineer Incharge	5,000			
B	Memo to BA & Levy of Penalty	Engineer Incharge	10,000			
C	Memo to BA & Levy of Penalty	Head of Group	25,000			
D	Memo to BA & Levy of Penalty	Head of Department	50,000			
E	Memo to BA, Levy of Penalty and termination of Contract	Head of Department	1,00,000			

Figure 6.3 (1b)-Penalty Matrix for Safety violation (Applicable for Major Contracts)

Once the BA reaches the “BLACK” (color – “5”) category, i.e. highest level of safety violation, “Termination” notice to BA will be issued from the office of the Head of Department (equivalent to Addl GM/ GM/ Sr. GM level) and further, *if required*, continuation / extension of contract will only be initiated by Functional Head of the department (equivalent to Sr. GM / VP level) and approved by CEO & MD. Till the extension, the contract will remain suspended.

TPCODL encourages the reportage of the safety violation during the contract work by BA. Any TPCODL employee can register a safety violation against the BA in the “Safety Violation Form” *annexure 10*. Initially the observer has to fill the form and handover the counterfoil (lower portion) of the document to the supervisor of the BA, inform the site engineer of TPCODL and send the top portion of the Safety Violation Form to SAFETY group for the further necessary action against the BA. **The cumulative nos. of Safety Violations pertaining to any particular BA shall be calculated on yearly basis.**

Safety violations resulting in incident / accident will be treated as per gravity of the injury / fatality and its impact as well as type i.e. minor or Major. Consequences of incident / accident are shown in the matrix (figure 6.3(2) for major and 6.3(3) for minor) below. In case of any accident, findings and recommendations of Accident Enquiry Committee will be final and binding and will supersede the arbitration clause of GCC.

Consequence Of an Incident / Accident (In case of MAJOR contract)		Incident / Accident				Action Required
Sl. No	Type of the injury	1st	2nd	3rd	4th	
1	Slight injury (First Aid Case)	F (Strengthening of process through continuous improvement in the work procedure)				Take risk reduction measures
2	Minor injury (No or Hospitalization less than 48 Hrs)	F	G	G	H	
3	Major injury (Bone injury or burn or Hospitalization more than 48 Hrs)	G	G	H	I	
4	Single fatality	J	K			Intolerable
5	Multiple fatalities (Two or more fatalities during one event)	K				
Legend	Action to be taken	Responsibility		Penalty (in Rs.)		The number of violations are to be calculated cumulatively over the contract period and not on monthly basis.
F	Memo to BA and levy of penalty	Engineer Incharge		5,000/-		
G	Memo to BA and levy of penalty	Head of Group		20,000/-		
H	Memo to BA and levy of penalty	Head of Group		50,000/-		
I	Memo to BA and levy of penalty	Head of Department		2,00,000/-		
J	Memo to BA and levy of penalty	Head of Department		5,00,000/-		
K	Memo to BA, levy of penalty, termination of contract and black listing of BA	Functional Head		10,00,000/-		

Figure 6.3 (2) - Penalty Matrix for Incident / Accident in Major Contracts

(For example: In major contracts, if there is first incidence of major injury say bone injury (Cat. 3) where worker was hospitalized for more than 48 hrs then a penalty of amount Rs.20000/- will be deducted from the current bill produced for the payment. This penalty will be similar for first two incidents. However, it will increment to next higher category i.e. Rs. 50,000/- on subsequent incidents as per the above matrix)

Consequence Of an Incident / Accident (In case of MINOR contract)		Incident / Accident				Action Required
Sl. No	Type of the injury	1st	2nd	3rd	4th	
1	Slight injury (First Aid Case)	L (Strengthening of process through continuous improvement in the work procedure)				Take risk reduction measures
2	Minor injury (No or Hospitalization less than 48 Hrs)	L	M	M	N	
3	Major injury (Bone injury or burn or Hospitalization more than 48 Hrs)	M	M	N	O	
4	Single fatality	P	Q			Intolerable
5	Multiple fatalities (Two or more fatalities during one event)	Q				
Legend	Action to be taken	Responsibility		Penalty (in Rs.)		The number of violations are to be calculated cumulatively over the contract period and not on monthly basis.
L	Memo to BA and levy of penalty	Engineer Incharge		5,000/-		
M	Memo to BA and levy of penalty	Engineer Incharge		10,000/-		
N	Memo to BA and levy of penalty	Head of Group		25,000/-		
O	Memo to BA and levy of penalty	Head of Department		1,00,000/-		
P	Memo to BA and levy of penalty	Head of Department		3,00,000/-		
Q	Memo to BA, levy of penalty, termination of contract and black listing of the BA	Functional Head		5,00,000/-		

Figure 6.3 (3) - Penalty Matrix for Incident / Accident in Minor Contracts

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(For example: In minor contracts, if a worker meets with a non-fatal accident say bone injury (Cat. 3) where he was hospitalized for more than 48 hrs then a penalty of amount Rs. 10,000/-, will be charged from the current bill produced for the payment. This penalty will be similar for first two incidents. However, it will increment to next higher category i.e. Rs. 25,000/- on subsequent incidents as per the above matrix.)

In case of single or multiple fatalities described under legends J&K of 6.3(2) and P&Q of 6.3(3), the concerned BA may be debarred from extension of contract or participate in new contract. In such event the approval of Chief (O & S) will be necessary for extension or award of new contract to concerned BA.

6.3.2 COMPENSATION FOR BA PERSONNEL

In the event of any untoward incident/ accident, the Business Associate shall ensure prompt medical assistance such as treatment, sickness benefit, etc. is provided to the victim(s) as per the Employees' Compensation Act, 1923 or Employees' State Insurance Act, 1948, as applicable. Also, the BA will be required to take adequate measures for compensating the victim(s) or his/her/their kin as follows:

I. For Death or Permanent / Total Disablement

The BA shall take an insurance coverage of at least Rs. 15 lakhs for each engaged employee, to cover any incidence of Death or Permanent / Total Disablement (Permanent/Total Disability shall be considered as defined under Employees' Compensation Act, 1923). In the event of any such unfortunate incident, the BA would ensure that adequate compensation is paid immediately to the family of the victim(s) from his own resources. This compensation shall be covered under the insurance policy subscribed by the BA mentioned earlier and the arrangement should be such that it would get reimbursed to the BA by the insurance agency subsequently.

II. For Permanent Partial Disablement and Temporary Total Disablement

The compensation in this case will be as per provisions of the Employees' Compensation Act, 1923 or Employees' State Insurance Act, 1948, as applicable.

Accordingly, the BA shall obtain a suitable Insurance Policy on award of Contract and submit documentary evidence of the policy to the BA Cell before commencement of work. The BA shall ensure that the Insurance policy is active at all times and all employees are covered in all respects till the conclusion of contract period or till working with TPCODL. The BA shall submit a copy of the policy after periodic renewals to the BA Cell.

However, on occurrence of such unfortunate incident, if it is found that the victim(s) is/are not covered under any insurance policy, the BA shall be liable to pay the entire sum of Rs. 10 lakhs from his own resources.

Further, in case of an accident resulting in Death or Permanent / Total Disablement while on duty, the appointed BA Nodal Officer will ensure that the BA complies with all statutory

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provisions and benefits i.e. PF, Compensation, Gratuity etc., and that all these are made available to the employees' nominee(s) as per the stipulated timelines.

6.3.3 TPCODL rewards the BA with good track record of safety management. It is proposed that BA complying with Contractors Safety Management, Safety Manual and Safety process will be rewarded suitably as per the procedure, rule and regulations of the TPCODL. In any case major accident is reported during an assessment period BA will not be eligible for this reward scheme. Assessment of contracts will be once in year. Generally the assessment cycle is calendar year and guidelines will be declared time to time.

Abbreviations Used in the Document

TPCODL	TP Central Odisha Distribution Limited
BA	Business Associate
HIRA	Hazard Identification & Risk Assessment
JSA	Job Safety Analysis
EHV	Extra High Voltage
SAFETY	Safety, Occupation Health, Environment & Disaster Management
MMG	Meter Management Group
EAG	Energy Audit Group
PPE	Personal Protective Equipment
SOP	Standard Operating Procedures
CSI/SI	Circle Safety In-charge / Safety In-charge
ASO	Area Safety Officer
NSO	Nodal Safety Officer
SC	Safety Coordinator
HoG / HoD	Head of Group / Head of Department
AGM / GM / VP	Assistant General Manager / General Manager / Vice President
CFO / Chief (O & S)/ CEO & MD	Chief Finance Officer / Chief (Operating & Safety) / Chief Executive Officer & Managing Director
COS	Corporate Operation Services
CAP	Centralized Account Payable System
PTW	Permit To Work
GCC	General Conditions of Contract.

- END -

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Annexure 1 (Refer Para 3.1)

Business Associate Safety Management System Questionnaire

Certification						
The information provided in this questionnaire is a summary of the company's occupational health and safety management system.						
Company Name:						
Turnover and experience:			Name of top officer:			
Date:			Position			
Contract Details						
Contract Name			Contract Number:			
Business Associates Safety Management System Questionnaire			Marks	Yes	No	Score achieved
<i>Safety Policy and Management</i>						
- Is there a written company Safety policy?			1			
- If yes provide a copy of the policy, if No please refer Note 1.						
- Does the company have an Safety Management system			1			
- If yes provide details, if No please refer Note 1.						
- Is there a company Safety Management System manual or plan?			2			
- If yes provide a copy of the content page(s), if No please refer Note 1.						
- Are Safety and occupational health responsibilities clearly identified for all levels of Management and staff?			2			
- If yes provide details, if No please refer Note 1.						
<i>Safe Work Practices and Procedures</i>						
- Has the company prepared safe operating procedures or specific safety instructions relevant to			1			

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Certification				
its operations and relevant work as per contract? - If yes provide a summary listing of procedures or instructions, if No please refer Note 2. - Comments				
- Is there a register of injury or accident? - If yes provide a copy (format)	1			
- Is there a documented incident or accident investigation procedure? - If yes provide a copy of a standard incident report form, if No please refer Note 2. - Comments	1			
<i>Safety Training</i>				
- Describe how occupational health and safety training is conducted in your company If No please refer Note 1.	2			
- Is a record maintained of all training and induction programs undertaken for employees in your company? - If yes provide examples of safety training records, if No please refer Note 2.	1			
- Are regular safety inspections / audits are undertaken at worksites? -If yes provide details (formats), if No please refer Note 3.	1			

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Certification				
<ul style="list-style-type: none"> - Is there a procedure by which employees can report hazards at workplaces? - If yes provide details if No please refer Note 1. 	1			
<i>Safety Monitoring</i>				
<ul style="list-style-type: none"> - Is there an officer / supervisor responsible for monitoring workplace / worksite safety? - If yes provide details 	1			
<i>Safety Performance Monitoring</i>				
<ul style="list-style-type: none"> - Are employees regularly provided with information on company health and safety performance? - If yes provide details 	1			
<ul style="list-style-type: none"> - Has the company ever been convicted of an occupational health and safety offence? - If yes provide details 	NO Marks (Negative mark ONE for each case)			
<ul style="list-style-type: none"> - Has there been any major accident of employee at TPCODL site in past 	NO Marks (Negative mark ONE for each case)			
<ul style="list-style-type: none"> - Has there been any fatal accident of employee at TPCODL site in past. - (Note: Bid evaluation committee has to take cognizance of the incident and shall evaluate the bid only after formal approval of competent authority i.e. CTO. - In case of yes please refer Note 4. 	NO Mark (Negative mark FIVE for each case)			

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Certification			
Minimum of 75% marks is required for qualification.		Total Marks achieved	
Company Reference			
1. Name of company 2. Name of company			

Note

1: If company does not have formal procedure on Safety Management System than vendor may submit proposed Safety road map along with safety action plan and brief safety policy on his letter head signed by head of the organization.

2: The vendor may submit the same in the Safety Action Plan.

3: The vendor may utilize the same format of TPCODL or on request SAFETY group will assist the vendor in developing the audit system. For other points also vendor may take the assistance of SAFETY group for development of Safety management system.

4: The vendor may submit the Safety Improvement Plan and Safety Action Plan for his employees based on following points.

- i. Action plan for enhancing safety awareness
- ii. Action plan for safety training of employee
- iii. Action plan for increasing safety audit in field
- iv. Action plan for provision and utilization of safety PPE.
- v. Action plan for fatality reduction.
- vi. Action plan for enhanced supervision at site
- vii. Action plan for making employee more responsible and accountable for safety.
- viii. Action plan for availability and utilization of all required tool and equipment.
- ix. Safety Improvement done in last two years, specially highlighting those which have been taken after the fatal accident along with results.
- x. Safety initiatives planed or started recently.
- xi. Any other point.

Based on above points and documentary evidences vendor will be required to submit a detailed report in support of his bid. The bid evaluation committee and competent authority will scrutinize the facts and the evidence submitted. If found satisfactory competent authority i.e. CTO may accord his approval for bid opening otherwise his tender shall be disqualified.

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Annexure 2 (Refer Para 3.2 and 5.8)

Risk Assessment Form

Business Associate:
Scope of the work:
BA's Representative:
Telephone:
Signature:
Date:

Specific Task/Activity	Potential Hazards/Consequences	Class of Risk	Control Measures
Working at Height	Fall from height	2	<ol style="list-style-type: none"> 1. Mandatory usage of JSA checklist prior to start of work 2. Use appropriate ladder 3. Use full body safety harness having double lanyard. 4. Use Electrical Safety Shoes if working on electrical network otherwise use safety shoes. 5. Use Safety helmet. 6. Use PPE as per the annexure 7 of this CSM document 7. Refer Work instruction related to Working at Height for other details 8. Use of metal scaffold to be ensured in height work (cup lock type) 9. Deploy competent workforce who are medically fit
Working on electrical equipment / network	Electric flash / electrocution	3	<ol style="list-style-type: none"> 1. Mandatory usage of JSA checklist prior to start of work 2. Use Electrical Safety Shoes while working on electrical network. 3. Use Electrical Safety gloves of appropriate voltage rating. 4. Use face shield / visor attached with helmet. 5. Use Safety helmet. 6. Use PPE as per the annexure 7 of this CSM document 7. Mandatory usage of Insulated tools & tackles on electrical system 8. Mandatory compliance for Lock Out & Tag out system. Refer Work instruction related to Working on electrical equipment / network for other details

Specific Task/Activity	Potential Hazards/Consequences	Class of Risk	Control Measures
Excavation / Civil work	Collapse of soil, Fall in excavated pit leading to Injury	2	<ol style="list-style-type: none"> 1. Use safety shoes. 2. Use Safety helmet. 3. Use PPE as per the annexure 7 of this CSM document 4. Hard Barricading of the worksite. 5. Refer Work instruction related to excavation / civil work for other details
Material lifting & Mechanical Erection work	Fall of material/object, Topple of crane,	2	<ol style="list-style-type: none"> 1. Mandatory compliance of crane checklist 2. Visual condition check of lifting tools and tackles such as wire rope sling, belt sling, chain, pulley block, D-shackles, etc. shall be ensured. 3. The operator's physical fitness and alertness should be judged by sup. / EIC. 4. Use PPE as per the annexure 7 of this CSM document 5. Refer Work instruction related to Material lifting & Mechanical Erection work
Road Safety	Road Accidents	3	<ol style="list-style-type: none"> 1. Mandatory compliance of TPCODL Road Safety policy W07(COR-P-12)

Note: This information for the general indication purpose. The detailed risk assessment shall be conducted before start of the work by the authorized representative of the BA. The report of same shall be submitted to engineer in-charge along with annexure 4 of the CSM document.

Guidelines for filling the Risk Assessment Form

- **Specific Task/Activity** - The documentation of each major task associated with the contract.
- **Potential Hazards** - The identification of hazards associated with each activity or task to be carried out.
- **Class of Risk** - Each hazard should be evaluated as a level of risk, described as Risk Class 1, 2 or 3 defined above.
- **Control Measure** - The identification and documentation of actions required to eliminate or reduce the hazards that could lead to accident or injury.

Hazard / Risks shall be classified according to the following schedule:

- Class 1: Potential to cause injury treatable with first aid
- Class 2: Potential to cause death or permanent injury
- Class 3: Potential to cause more than one or more lost time injuries.

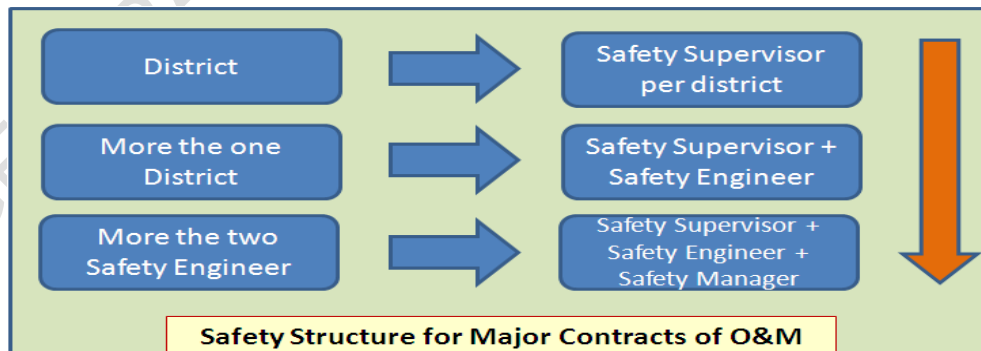
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Annexure 3.1 (Refer Para 4.0)

General Safety Conditions for the Maintenance of Distribution Network Contracts:

A BA awarded a contract (O&M) work of maintenance of distribution network will be required to fulfil the following conditions:

- BA shall provide Safety Policy and safety objectives of their company.
- BA shall comply with all statutory requirements like: applicable acts, regulations, codes of practice, OHSAS Standards, etc.
- BA shall provide the filled safety management questionnaire as per Annexure 1
- BA shall conduct a job risk assessment and provide information as per Annexure 2
- BA shall abide by Safety manuals, guidelines of TPCODL.
- BA shall provide its organisation structure & responsibilities in terms of Safety Management to TPCODL.
- BA shall document the work practices and procedures in terms of Safety Management.
- BA shall ensure safety training and induction program for the employees
- BA shall conduct safety audits & inspections as per TPCODL procedures provided by SAFETY group.
- BA shall provide and ensure the proper usage of the safety equipment (PPE) as per the TPCODL approved list in *annexure 7*.
- BA shall ensure periodic inspection of PPE to ensure its serviceability as per the specification given by TPCODL.
- BA shall ensure the adherence to standard operating procedures or guidelines laid down by TPCODL.
- BA shall ensure reporting of any unsafe act, unsafe conditions, near miss, incident or accident to engineer in-charge and SAFETY team of TPCODL.
- BA shall provide safety performance and Safety MIS (*annexure 9*) to engineer in-charge and SAFETY group periodically. Based on any non-confirmation to the safety procedures and guidelines, BA is liable to be negatively marked for his performance and suitable penalty will be imposed.
- BA shall ensure to depute a Safety Supervisor for managing a complete safety management system in a district. In case the BA has been awarded work in more than one district, then the following safety structure will be adopted.



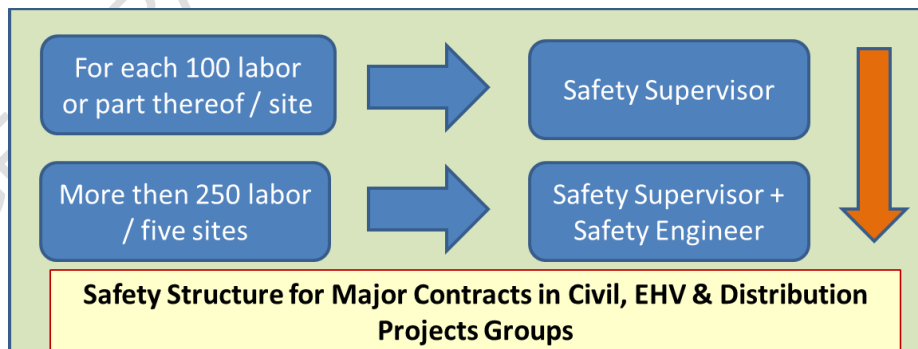
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Annexure 3.2 (Refer Para 4.0)

General Safety Conditions for the Distribution Projects Major Contracts:

A BA awarded a major contract work of TS&P in area of a circle will be required to fulfil the following conditions:

- BA shall provide Safety Policy and safety objectives of their company.
- BA shall comply with all statutory requirements like: applicable acts, regulations, codes of practice, OHSAS Standards, etc.
- BA shall provide the filled safety management questionnaire as per Annexure 1.
- BA shall conduct a job risk assessment and provide information as per Annexure 2
- BA shall abide by Safety manuals, guidelines of TPCODL.
- BA shall provide its organisation structure & responsibilities in terms of Safety Management to TPCODL.
- BA shall document the work practices and procedures in terms of Safety Management.
- BA shall ensure safety training and induction program for the employees
- BA shall conduct safety audits & inspections as per TPCODL procedures provided by SAFETY group.
- BA shall provide and ensure the proper usage of the safety equipment (PPE) as per the TPCODL approved list in annexure 7.
- BA shall ensure periodic inspection of PPE to ensure its serviceability as per the specification given by TPCODL.
- BA shall ensure the adherence to standard operating procedures or guidelines laid down by TPCODL.
- BA shall ensure reporting of any unsafe act, unsafe conditions, near miss, incident or accident to engineer in-charge and SAFETY team of TPCODL.
- BA shall provide safety performance and Safety MIS (*annexure 9*) to engineer in-charge and SAFETY group periodically. Based on any non-confirmation to the safety procedures and guidelines, BA is liable to be negatively marked for his performance and suitable penalty will be imposed.
- BA shall ensure to depute a Safety Supervisor for managing a complete safety management system in the area. In case the BA has been awarded work in more than one circle, then the following safety structure will be adopted.



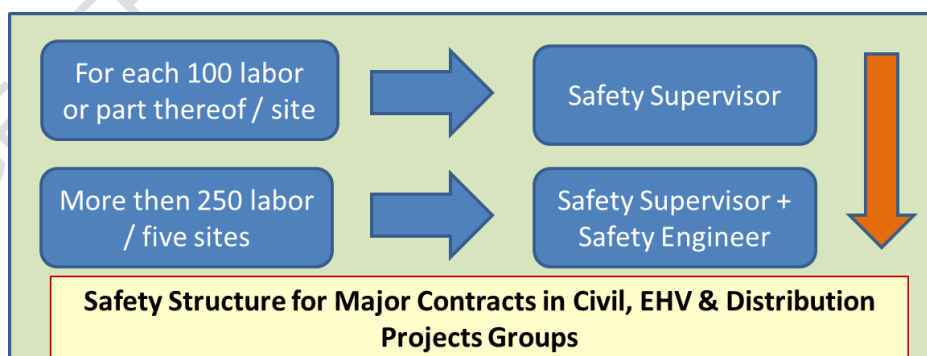
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Annexure 3.3 (Refer Para 4.0)

General Safety Conditions for the major EHV Projects Contracts:

A BA awarded a major contract work of EHV projects will be required to fulfil the following conditions:

- BA shall provide Safety Policy and safety objectives of their company.
- BA shall comply with all statutory requirements like: applicable acts, regulations, codes of practice, OHSAS Standards, etc.
- BA shall provide the filled safety management questionnaire as per Annexure 1
- BA shall conduct a job risk assessment and provide information as per Annexure 2
- BA shall abide by Safety manuals, guidelines of TPCODL.
- BA shall provide its organisation structure & responsibilities in terms of Safety Management to TPCODL.
- BA shall document the work practices and procedures in terms of Safety Management.
- BA shall ensure safety training and induction program for the employees
- BA shall conduct safety audits & inspections as per TPCODL procedures provided by SAFETY group.
- BA shall provide and ensure the proper usage of the safety equipment (PPE) as per the TPCODL approved list in annexure 7.
- BA shall ensure periodic inspection of PPE to ensure its serviceability as per the specification given by TPCODL.
- BA shall ensure the adherence to standard operating procedures or guidelines laid down by TPCODL.
- BA shall ensure reporting of any unsafe act, unsafe conditions, near miss, incident or accident to engineer in-charge and SAFETY team of TPCODL.
- BA shall provide safety performance and Safety MIS (*annexure 9*) to engineer in-charge and SAFETY group periodically. Based on any non-confirmation to the safety procedures and guidelines, BA is liable to be negatively marked for his performance and suitable penalty will be imposed.
- BA shall ensure to depute a Safety Supervisor for managing a complete safety management system in the area. In case the BA has been awarded work in more than one circle, then the following safety structure will be adopted.
- BA shall refer Construction Safety Manual in TPCODL Safety Manual for details.



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Annexure 3.4 (Refer Para 4.0)

General Safety Conditions for the Maintenance of Sub – Transmission Network Contracts:

A BA awarded a major contract work of maintenance of sub – transmission network in area of a power system will be required to fulfil the following conditions:

- BA shall provide Safety Policy and safety objectives of their company.
- BA shall comply with all statutory requirements like: applicable acts, regulations, codes of practice, OHSAS Standards, etc.
- BA shall provide the filled safety management questionnaire as per Annexure 1
- BA shall conduct a job risk assessment and provide information as per Annexure 2
- BA shall abide by Safety manuals, guidelines of TPCODL.
- BA shall provide its organisation structure & responsibilities in terms of Safety Management to TPCODL.
- BA shall document the work practices and procedures in terms of Safety Management.
- BA shall ensure safety training and induction program for the employees
- BA shall conduct safety audits & inspections as per TPCODL procedures provided by SAFETY group.
- BA shall provide and ensure the proper usage of the safety equipment (PPE) as per the TPCODL approved list in annexure 7.
- BA shall ensure periodic inspection of PPE to ensure its serviceability as per the specification given by TPCODL.
- BA shall ensure the adherence to standard operating procedures or guidelines laid down by TPCODL.
- BA shall ensure reporting of any unsafe act, unsafe conditions, near miss, incident or accident to engineer in-charge and SAFETY team of TPCODL.
- BA shall provide safety performance and Safety MIS (*annexure 9*) to engineer in-charge and SAFETY group periodically. Based on any non-confirmation to the safety procedures and guidelines, BA is liable to be negatively marked for his performance and suitable penalty will be imposed.
- BA shall ensure to depute a Safety Coordinator for managing a complete safety management system in the area. In case the BA has been awarded work in more than one area power system, then the following safety structure will be adopted.



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Annexure 3.5 (Refer Para 4.0)

General Safety Conditions for the major contract work in Civil / Generation Projects:

A BA awarded a major contract work of / in civil or Generation project will be required to fulfil the following safety conditions:

- BA shall provide Safety Policy and safety objectives of their company.
- BA shall comply with all statutory requirements like: applicable acts, regulations, codes of practice, OHSAS Standards, etc.
- BA shall provide the filled safety management questionnaire as per Annexure 1
- BA shall conduct a job risk assessment and provide information as per Annexure 2
- BA shall abide by Safety manuals, guidelines of TPCODL.
- BA shall provide its organisation structure & responsibilities in terms of Safety Management to TPCODL.
- BA shall document the work practices and procedures in terms of Safety Management.
- BA shall ensure safety training and induction program for the employees
- BA shall conduct safety audits & inspections as per TPCODL procedures provided by SAFETY group.
- BA shall provide and ensure the proper usage of the safety equipment (PPE) as per the TPCODL approved list in annexure 7.
- BA shall ensure periodic inspection of PPE to ensure its serviceability as per the specification given by TPCODL.
- BA shall ensure the adherence to standard operating procedures or guidelines laid down by TPCODL.
- BA shall ensure reporting of any unsafe act, unsafe conditions, near miss, incident or accident to engineer in-charge and SAFETY team of TPCODL.
- BA shall provide safety performance and Safety MIS (*annexure 9*) to engineer in-charge and SAFETY group periodically. Based on any non-confirmation to the safety procedures and guidelines, BA is liable to be negatively marked for his performance and suitable penalty will be imposed.
- BA shall ensure to depute a Safety Supervisor (for workforce upto 100 at site) / a safety engineer (for workforce upto 250 at site) / safety manager (for more than two safety engineers) for managing a complete safety management system at the project site. In case the BA has been awarded more than one major contracts, then the following safety structure will be adopted.
- BA shall refer Construction Safety Manual in TPCODL Safety Manual for details.



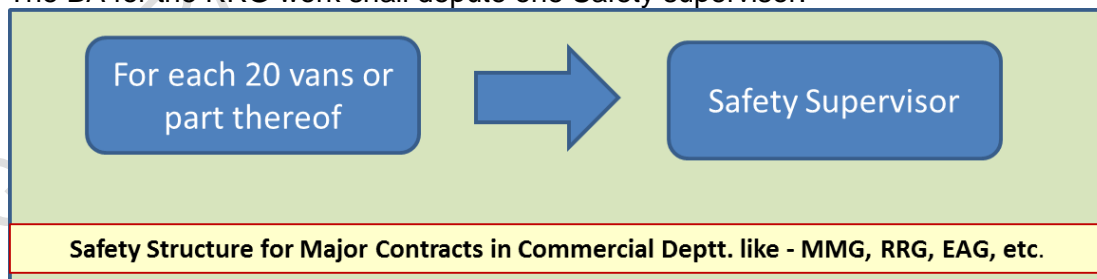
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Annexure 3.6 (Refer Para 4.0)

General Safety Conditions for the major contract work in Commercial Department like - MMG, RRG, EAG, etc.:

A BA awarded a major contract work in meter management group & energy auditing group will be required to fulfil the following safety conditions:

- BA shall provide Safety Policy and safety objectives of their company.
- BA shall comply with all statutory requirements like: applicable acts, regulations, codes of practice, OHSAS Standards, etc.
- BA shall provide the filled safety management questionnaire as per Annexure 1
- BA shall conduct a job risk assessment and provide information as per Annexure 2
- BA shall abide by Safety manuals, guidelines of TPCODL.
- BA shall provide its organisation structure & responsibilities in terms of Safety Management to TPCODL.
- BA shall document the work practices and procedures in terms of Safety Management.
- BA shall ensure safety training and induction program for the employees
- BA shall conduct safety audits & inspections as per TPCODL procedures provided by SAFETY group.
- BA shall provide and ensure the proper usage of the safety equipment (PPE) as per the TPCODL approved list in annexure 7.
- BA shall ensure periodic inspection of PPE to ensure its serviceability as per the specification given by TPCODL.
- BA shall ensure the adherence to standard operating procedures or guidelines laid down by TPCODL.
- BA shall ensure reporting of any unsafe act, unsafe conditions, near miss, incident or accident to engineer in-charge and SAFETY team of TPCODL.
- BA shall provide safety performance and Safety MIS (*annexure 9*) to engineer in-charge and SAFETY group periodically. Based on any non-confirmation to the safety procedures and guidelines, BA is liable to be negatively marked for his performance and suitable penalty will be imposed.
- BA shall ensure to depute a Safety Supervisor for managing a complete safety management system for the work as per the following safety structure.
- The BA for the RRG work shall depute one Safety supervisor.



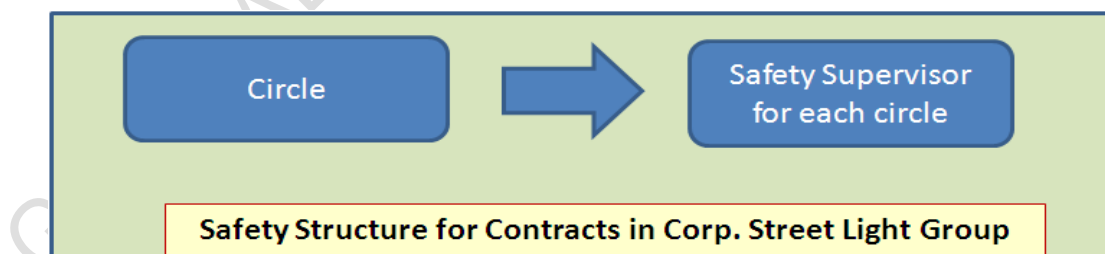
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Annexure 3.7 (Refer Para 4.0)

General Safety Conditions for the major contract work in O&M of street light group:

A BA awarded a major contract work in operation and maintenance of street light group will be required to fulfil the following safety conditions:

- BA shall provide Safety Policy and safety objectives of their company.
- BA shall comply with all statutory requirements like: applicable acts, regulations, codes of practice, OHSAS Standards, etc.
- BA shall provide the filled safety management questionnaire as per Annexure 1
- BA shall conduct a job risk assessment and provide information as per Annexure 2
- BA shall abide by Safety manuals, guidelines of TPCODL.
- BA shall provide its organisation structure & responsibilities in terms of Safety Management to TPCODL.
- BA shall document the work practices and procedures in terms of Safety Management.
- BA shall ensure safety training and induction program for the employees
- BA shall conduct safety audits & inspections as per TPCODL procedures provided by SAFETY group.
- BA shall provide and ensure the proper usage of the safety equipment PPE as per the TPCODL approved list in annexure 7.
- BA shall ensure periodic inspection of PPE to ensure its serviceability as per the specification given by TPCODL.
- BA shall ensure the adherence to standard operating procedures or guidelines laid down by TPCODL.
- BA shall ensure reporting of any unsafe act, unsafe conditions, near miss, incident or accident to engineer in-charge and SAFETY team of TPCODL.
- BA shall provide safety performance and Safety MIS (*annexure 9*) to engineer in-charge and SAFETY group periodically. Based on any non-confirmation to the safety procedures and guidelines, BA is liable to be negatively marked for his performance and suitable penalty will be imposed.
- Each BA shall ensure to depute a Safety Supervisor for managing a complete safety management system for the work awarded as per the below structure.



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Annexure 4 (Refer Para 3.3)

Safety Undertaking by way of Affidavit

I _____ s/o _____ R/o _____ (AUTHORIZED REPRESENTATIVE/PARTNER/DIRECTOR/PROPRIETOR) of M/S _____ (name of company/firm)___ having its office at (Complete address of Company), authorized vide power of attorney dated -----/Board resolution dated----/letter of authority dated----, hereinafter referred to as **Contractor [or Business Associate (BA)]** which expression shall, unless it be repugnant to or inconsistent with the meaning or context thereof, be deemed to include its heirs, executors, administrators, and assigns do hereby affirm and undertake as under :

1. The present undertaking shall remain in force from the date of execution of contract awarded by TPCODL and shall be valid till the date of termination of the said contract by either parties. The undertaking is binding on me (contractor) as well as my sub-contractor and its employees, representatives etc.
2. That I(the contractor) will be responsible and liable to comply and abide by all the safety rules, instructions and regulations as may be specified and laid down by TP Central Odisha Distribution Limited (TPCODL) so as enable TPCODL to achieve its goal of Zero On site incidences.
3. That the Contractor shall be fully responsible for ensuring occupational health and safety of its employees, representatives, agents as well as of its subcontractor's employees, at all times during the discharge of their respective obligations under the contract including any methods adopted for performance of their tasks / work.
4. That Contractor shall ensure ,at its own expense to arrange for and procure, implement all requisite accident prevention tools, first aid boxes, personal protective equipment, fire extinguisher, safety training, Material Safety Data Sheet, pre-employment medical test, etc. for operations & activities including as & when so specified by TPCODL specifically. , failing which TPCODL shall be entitled, but not obliged, to provide the same and recover the actual cost thereof from the Contractor's payments.
5. That the Contractor shall engage adequate and competent Safety – Supervisor / Engineer / Manager / Skilled persons at site as per the Para 5 (Qualification and experience of safety personnel) and Annexure 3 of Contract Safety Management.

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6. That the Contractor shall engage the competent Site – Supervisor with each group of workers for safe and correct workmanship, proper co-ordination of material and site work as per contract.
7. That the Contractor shall immediately replace supervisor in case it is found to be not up to the level of skill and experience required as in skill and experience required in *annexure 5* of this document, but any such replacement shall be only with the prior concurrence of TPCODL .
8. That the Contractor and its subcontractors shall abide by all the safety guidelines as per Safety Manual, Contract Safety Management and other guidelines issued from time to time by TPCODL during the contract period.
9. That in case the Contractor and/or any of its Subcontractor fail to ensure the compliance as required in terms of this undertaking the Contractor shall keep and hold TPCODL / its directors / officers / employees indemnified against any / all losses / damage / expense / liability / fines / compensation / claims / action / prosecutions or the like which might be suffered by TPCODL or to which TPCODL might get exposed to as a result of any breach /wilful negligence /deliberate default on the part of the Contractor /Subcontractor in complying with the same. Contractor shall also furnish any press release, clarification etc. if sought by TPCODL for any near miss or safety violations, accidents, which are attributable to fault of Contractor.

DEPONENT

VERIFICATION

Verified at Bhubaneswar on this _Day of _____20__ that the contents of the above affidavit are true and correct and nothing material has been concealed therefrom

DEPONENT

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Annexure 5 (Refer Para 5.4)

SKILL / QUALIFICATION REQUIRED FOR ELECTRICIAN AND ELECTRICAL SUPERVISOR

Skill / Qualifications Required for Electrician (*Certificate of Competency Class-II*):

1. Formal education in ITI – Wireman/ Electrician trade.

OR

2. Working experience of minimum three years of practical wiring.

OR

3. Have completed three years apprenticeship course through Apprenticeship Advisor, Govt. of NCT of Odisha / other state Govt. in the trade of Lineman / Wireman / Electrician.

4. A candidate must have attained the age of Eighteen years.

Skill / Qualifications Required for Electrical Supervisor (*Certificate of Competency Class-I*):

1. Have at least five years' experience of practical wiring after passing the certificate of competency class-II i.e. electrician.

OR

2. Recognized Degree or Diploma or equivalent qualification in Electrical Engineering from any Technical institute / College or University recognized by the Board.

AND

Must have completed the training/job in rectifying the common defects in electrical line and power installation for a period of one and three years after passing Degree or Diploma respectively

OR

3. Possessing the valid certificate of certificate of competency class – 1 (Electrical Supervisor)

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Annexure 6 (Refer Para 5.6)

Training Module for BAs Worker & Supervisor

Training for BA Supervisor

Duration – 02 Hrs / Month

Methodology: Lecture and Practical Demonstration of Safety Zone Creation

Session: 1

Topic: Electrical Safety Aspects

Sub Topics:

1. Learning specifics of HT & LT Network of zone
2. Major type of HT / LT / service lines / street light maintenance works
3. Understanding the need of Safety
4. Understanding the safe process of maintenance :
 - Planning of the maintenance job
 - Availability of men, material & machine, PPEs, Safety gear and approved PTW
 - Briefing of the job by the supervisor of the TPCODL
 - Identification of Risks associated with the maintenance work and planning for controlling measures by TPCODL supervisor
 - Creation of safety zone by TPCODL supervisor and satisfying that the network is dead – Use of Neon Tester, Shorting Chain and Safety Tagging
 - Start of the work – Right person for the right job
 - Alert supervision
 - Completion of the job – Check points
 - Energization of network
 - Actions to be taken in case of some accident

Session: 2

Topic: Use of Electrical Testing Equipment

Methodology: Lecture and Practical Demonstration

Sub Topics:

1. Meggar, Hi Pot, Clamp On Meter, Neon Tester, Discharge Rod, Line tester etc.

Session: 3

Topic: Awareness of Electrical Safety Aspects

- A. Understanding the need of this Training and Safety
- B. Learning specifics of HT & LT Network
- C. Major type of work to be carried out in zones
- D. Switching Operations (Do's & Don'ts) including Street Light Switching
- E. Working on Height (*practical demo also*)
- F. Understanding the Safe Process of Maintenance / Working:
 - Planning of the job
 - Availability of men, material & machine, PPEs, Safety gear and approved PTW
 - Briefing of the job by the supervisor

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- Permit to Work
- Safety Tagging and Lock Out Tag out
- Identification of Risks associated with the work to be carried out and planning for controlling measures by proper supervision
- Concept of "**Safety Zone**"
- Identification and use of Neon Tester, Shorting Chain, Clamp On Meter, Hi Pot, Meggar etc.
- Completion of the job – Check points
- Accident Theory & Incident Reporting
- Actions to be taken in case of some accident

Session: 4

Topic: Identification, Demonstration and Usages of Tools, PPEs and other Safety Gears and demonstration of working on HT pole

Session: 5

Topic: Practical demonstration of Safety Zone creation

FREQUENCY

Regular Safety Training Program

- It will be conducted for all field & supervisor staff of BA in such a manner that all BA Personnel attend at least two hours safety training during every month.

One Day Induction Safety Training Programs:

- This training will be for the new BA's personnel, who have been cleared by the Cross Functional Panel to undergo Safety training and who are likely to be deployed at various work sites of TPCODL by the BA, as a part of AMC / Work Contract.

Duration / Periodicity:

- Duration and periodicity has been defined above. However, this is subject to change at the discretion of TPCODL.

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Annexure 7 (Refer Para 5.7)

LIST OF PERSONAL PROTECTIVE EQUIPMENT AND TESTING FREQUENCY




Sl. No.	Name of PPE	IS / EN Standard	Testing Frequency	Remarks	Ref Brand & Model
01	Leather Safety Shoes (Color – Black) with PU toe cap.	IS:15298 (Part-2)	Monthly and visual check every day for any crack or damage in the leather or sole.		BATA (Model No.- Endura L/C) Liberty (Model No. – 7198-01 HT Barton Black – Warrior)
02	HDPE Safety helmet with chin strap and ratchet type for adjustment.	IS:2925-1984	Monthly and visual check every day for any crack in shell.		Karam (PN Safetech) Joseph Leslie Accent Industries Honeywell
03	Full body harness (Safety belt)	EN 361	Monthly and visual check every day of the bends and the harness.		Karam (PN Safetech) Joseph Leslie Accent Industries
04	Electrical Safety Gloves	EN: 60903 CE marked	Weekly and visual check for any crack and blow test before every work.	Manufactured not beyond 12 months.	Make Sparian / Sumitech / CATU supplied with inner cotton glove with over glove of split leather.
05	Full face visor with safety helmet	EN: 166 CE marked (Visor)	Monthly and visual check every day for any crack in shell.	Clear acrylic visor attached with safety helmet.	Karam (PN Safetech) Joseph Leslie Accent Industries Honeywell
06	Fire Proof jacket for chest protection		Monthly and visual check every day.		
07	Safety Chain for shorting cum earthing.	As per TPCODL standard	Weekly and visual check before every work.	Made of brass, Total length – 5.5 meters and made of 12 SWG.	

Note:

1. Any other Personal Protection Equipment required beyond above list will be according to BIS or EN Standards.

2. All Personal Protection Equipment will be checked by the engineer in-charge or SAFETY group of TPCODL.
3. Safety Representative of the BA has to maintain the record of the availability, condition and checking of the PPEs.
4. All tools required as per the contract must be according to respective IS / EN standards.
5. TPCODL may revise or add the above list of PPE and their specifications as and when feel necessary. The information about new specifications /models will be circulated by the Engineer In-charge (EIC), which shall adhere by the business associated in the shortest possible time. The EIC shall issue a memo / instruction to BA with timeline for implementation. Any delay will be treated as non- compliance / safety violations. Refer picture of each PPE given in next page.

Pictures of PPE for reference purpose.

Sl. No.	Name of PPE	IS / EN Standard	Picture
01	Leather Safety Shoes (Color – Black) with PU toe cap.	IS:15298(Part-2) and with test report of electrical resistance.	
02	HDPE Safety helmet with chin strap and ratchet type for adjustment.	IS:2925-1984	
03	Full body harness (Safety belt) The straps at shoulder and thigh shall have full pad for comfort. The back shall be so designed that harness straps do not tangle with each other.	EN 361:2002 EN 358 : 2000 IS: 3521:1991/2002	

04	Electrical Safety Gloves – Composite type Soft electrical gloves as per size of individual.	EN: 60903 CE marked	
05	Full face visor with safety helmet	EN: 166 CE marked (Visor)	
06	Fire Proof jacket for chest protection		
07	Safety Chain for shorting cum earthing.	As per TPCODL standard	
08	Reflective jacket to each workmen	As per TPCODL standard	

Note : Picture shown are for indicative purpose only. Actual product may differ.

Annexure 8 (Refer Para 5.8) LIST OF AUDITS TO BE CONDUCTED

Audits	Responsibility	Freq.	Ref. Doc.
Permit to Work & Field Audit	BA Safety Representative	Weekly	F04 (COR P - 12)
Tool Bag & PPE's Audit		Weekly	F06 (COR P - 12)
First Aid Box Maintenance Record		Fortnightly	F08 (COR P - 12)
Fire Extinguisher Record <i>(Applicable for the BA involved in major construction works and have storage of flammable material at worksite)</i>		Monthly	F09 (COR P - 12)
Safety Talk Register		Weekly	F18 (COR P - 12)
Site Safety Audit		Daily	F29A (COR P - 12)

Note:

1. (BA Safety Representative has to use the formats as per Safety process COR – P – 12 of TPCODL)

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Annexure 9 (Refer Para 5.9)

PERFORMANCE REPORT – SAFETY

FOR THE MONTH OF.....

Name of BA :

Name of the Project and Purchase order No:

Date of commencement of work:

Man Hour Worked in this month (No. of employees X 8 Hrs + Overtime):

Cumulative Man Hour worked:

Total Number of

Minor Injury (this month): Minor Injury (Total)

Major Injury (this month): Major Injury (Total):

Detail of the Incident / Sub Standard Acts and Condition

Activity	This Month	Cumulative (Total)	Day Lost (this month)	Days Lost (Cumulative)
No. of the Incident				
No. of lost time injuries				
No. of dangerous occurrences				
No. of near miss reported				
Substandard Act/Conditions observed			Attach details of observation of this month	
Safety Violation Notice received (from TPCODL) (both in numbers and in Rs.)	No.	No.	No. of violation letter received and compliance report for the TPCODL.	
	Rs.	Rs.		

Note: Cumulative means total from date of commencement of work according to the contract.

Detail of the Accident / Near Miss Incidents:

Date and Time	Type of the incident	Name of Employee	Brief Description	Corrective and Preventive actions recommended

Details of the Safety Violations:

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Date and Location	Brief Description	Name of employee involved	Action Taken

Detail of the Safety Talk / Tool Box Talk / Safety Training

Date and Location	Topic (s)	Total Number of employees (Worker / Supervisor)	Number of participants (Worker / Supervisor)

Detail of the Safety Meeting

Date and Location	Number of participants	Topics discussed	Major Observations / Innovation

Detail of the Safety Inspection /Audit: (as per TPCODL site audit checklist F29A(COR-P-12))

Date	Area / Location	Major Observations	Recommendations	Action Taken

Any other Safety, Occupational Health, Environment & Disaster Management Promotional Activity (During this month):

Date	Location	Activity	Level of Participation	Number of participation

Signature of the BA Safety Representative
HoG

Signature of ZM /

Name, E. No. and Date

Name, E. No. Date.

Note: The original form to be deposited with Engineer in-charge and a copy to SAFETY group on or before 5th of every month along with bill. List of training of the current month and status of PPE to be also mentioned individual wise.

BA may include additional lines if required. The TPPDL may revise the format as and when deemed required.

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ANNEXURE-L
VENDOR APPRAISAL FORM

TO BE SUBMITTED BY VENDOR (To be filled as applicable)		
VENDOR:		
1.0	DETAILS OF THE FIRM	
	1.1	NAME (IN CAPITAL LETTERS) :
	1.2	TYPE OF CONCERN (PROPRIETARY) Partnership, Pvt. Ltd., Public Ltd. etc. :
	1.3	YEAR OF ESTABLISHMENT :
	1.4	LOCATION OF OFFICE POSTAL ADDRESS TELEGRAPHIC ADDRESSES, TELEX NO. FAX NO. :
	1.5	LOCATION OF MANUFACTURING UNITS :
		i) UNITS 1 :
		ii) OTHER UNITS :
2.0	PRODUCTS MANUFACTURED :	
3.0	TURNOVER DURING THE LAST 3 YEARS (TO BE VERIFIED WITH THE LATEST PROFIT & LOSS STATEMENT). :	
4.0	VALUE OF FIXED ASSETS :	
5.0	NAME & ADDRESS OF THE BANKERS :	
6.0	BANK GUARANTEE LIMIT :	
7.0	CREDIT LIMIT :	
8.0	TECHNICAL	
	8.1	NO. OF DESIGN ENGINEERS (INDICATE NO. OF YEARS EXPERIENCE IN RELATED FIELDS) :
	8.2	NO. OF DRAUGHTSMAN :
	8.3	COLLABORATION DETAILS (IF ANY) :
		8.3.1 DATE OF COLLABORATION :

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		8.3.2 NAME OF COLLABORATOR	:
		8.3.3 RBI APPROVAL DETAILS	:
		8.3.4 EXPERIENCE LIST OF COLLABORATOR	:
		8.3.5 DURATION OF AGREEMENT	:
	8.4	AVAILABILITY OF STANDARDS / DESIGN PROCEDURES / COLLABORATOR'S / DOCUMENTS (CHECK WHETHER THESE ARE LATEST/CURRENT	:
	8.5	TECHNICAL SUPPORT, BACK-UP GUARANTEE, SUPERVISION, QUALITY CONTROL BY COLLABORATOR (WHEREVER ESSENTIAL). (THIS CLAUSE IS RELEVANT WHEN VENDOR'S EXPERIENCE IS INADEQUATE)	:
	8.6	QUALITY OF DRAWINGS	:
9.0	MANUFACTURE		
	9.1	SHOP SPACE, LAYOUT LIGHTING, VENTILATION, ETC.	:
	9.2	POWER (KVA)	:
		MAINS INSTALLED	:
		UTILIZED	:
		STANDBY POWER SOURCE	:
	9.3	MANUFACTURING FACILITIES (ATTACH LIST OF EQUIPMENT AS APPLICABLE)	:
		9.3.1 MATERIAL HANDLING	:
		9.3.2 MACHINING	:
		9.3.3 FABRICATION	:
		9.3.4 HEAT TREATMENT	:
		9.3.5 BALANCING FACILITY	:
		9.3.6 SURFACE TREATMENT PRIOR TO PAINTING/ COATING, POLISHING, PICKLING, PASSIVATION, PAINTING, ETC.	:
	9.4	SUPERVISORY STAFF	:
	9.5	ADEQUACY OF SKILLED LABOURS (MACHINISTS, WELDERS, ETC.)	:

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	9.6	NO. OF SHIFTS	:
	9.7	TYPE OF MATERIAL HANDLED (SUCH AS CS, SS, ETC.)	:
	9.8	WORKMANSHIP	:
	9.9	MATERIAL IN STOCK AND VALUE	:
	9.10	TRANSPORT FACILITIES	:
	9.11	CARE IN HANDLING	:
10.0	INSPECTION / QC / QA / TESTING		
	10.1	NUMBER OF PERSONNEL (INDICATE NO. OF YEARS OF EXPERIENCE)	:
	10.2	INDEPENDENCE FROM PRODUCTION	:
	10.3	AVAILABILITY OF PROCEDURAL WRITE UP/QUALITY PLAN	:
	10.4	INCOMING MATERIAL CONTROL AND DOCUMENTATION	:
	10.5	RELIABILITY/REPUTATION OF SUPPLY SOURCES	:
	10.6	STAGE INSPECTION AND DOCUMENTATION	:
	10.7	SUB-ASSEMBLY & DOCUMENTATION	:
	10.8	FINAL INSPECTION AND DOCUMENTATION	:
	10.9	PREPARATION OF FINAL DOCUMENTATION PACKAGE	:
	10.10	TYPE TEST FACILITIES	:
	10.11	ACCEPTANCE TEST FACILITIES	:
	10.12	CALIBRATION OF INSTRUMENTS AND GAUGES (WITH TRACEABILITY TO NATIONAL STANDARDS) (ATTACH LIST)	:
	10.13	STATUTORY APPROVALS LIKE BIS, IBR, ETC.(AS APPLICABLE)	:
	10.14	SUB-VENDOR APPROVAL SYSTEM AND QUALITY CONTROL	:
	10.15	DETAILS OF TESTS CARRIED OUT AT INDEPENDENT RECOGNIZED LABORATORIES	:
		i) FURNISH LIST OF TESTS CARRIED OUT AND THE NAME OF THE LABORATORY WHERE THE TESTS WERE CONDUCTED	:

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	ii) CHECK AVAILABILITY OF CERTIFICATES AND REVIEW THESE WHEREVER POSSIBLE	:
11.0	EXPERIENCE (INCLUDING CONSTRUCTION / ERECTION / COMMISSIONING) TO BE FURNISHED IN THE FORMAT INDICATED IN APPENDIX)	:
12.0	SALES, SERVICE AND SITE ORGANIZATIONAL DETAILS	:
13.0	CERTIFICATE FROM CUSTOMERS (ATTACH COPIES OF DOCUMENTS)	:
14.0	POWER SITUATION	:
15.0	LABOUR SITUATION	:
16.0 *	APPLICABILITY OF SC/ST RELAXATION (Y/N) IF YES, SUPPORTING DOCUMENTS TO BE ATTACHED	:
17.0	ORGANIZATIONAL DETAILS 1. PF NO 2. ESI NO 3. INSURANCE FOR WORK MAN COMPENSATION ACT NO 4. ELECTRICAL CONTRACT LIC NO 5. ITCC / PAN NO 6. SALES TAX NO 7. WC TAX REG. NO	:
18.0	DOCUMENTS TO BE ENCLOSED: 1. FACTORY LICENCE 2. ANNUAL REPORT FOR LAST THREE YEARS 3. TYPE TEST REPORT FOR THE ITEM 4. PAST EXPERIENCE REPORTS 5. ISO CERTIFICATE –QMS, EMS, OHAS, SA 6. REGISTRATION OF SALES TAX 7. COPY OF TIN NO. 8. COPY OF SERVICE TAX NO. 9. REGISTRATION OF CENTRAL EXCISE 10. COPY OF INCOME TAX CLEARANCE. 11. COPY OF PF REGISTRATION 12. COPY OF ESI REGISTRATION 13. COPY OF INSURANCE FOR WORK MAN COMPENSATION ACT NO 14. COPY OF ELECTRICAL CONTRACT LIC NO 15. COPY OF PAN NO 16. COPY OF WC TAX REGISTRATION 17. DOCUMENTS IN SUPPORT OF SC/ST RELAXATION AT S.NO.16.0 18. GSTN CERTIFICATE	:

* Classification of BA s under SC/ST shall be governed under following guidelines:

- **Proprietorship/ Single Ownership Firm:** Proprietor of the firm should be from SC/ST community. Governing document shall be Proprietorship Deed.

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- **Partnership Firm:** Only such firms shall qualify which have SC/ST partners holding equal to or more than 50% of the total ownership pattern of the firm. Governing document shall be Partnership Deed.
- **Private Limited Company:** Only such firms shall qualify which have SC/ST directors holding equal to or more than 50% of the total ownership pattern of the firm. Governing document shall be Memorandum of Understanding (MoU) and/or Article of Association (AoA).

NOTE: Certification from SC/ST Commission shall be required for deciding upon SC/ST status of a person.

GENERAL CONDITIONS OF CONTRACT

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Document No. TPSMS/GSR/STC/009 REV 05	TPSODL	TATA TATA POWER	TPWODL	Date of Issue: 01/08/2023

Appendix 3: Safety Terms and Conditions

Reason for Change	Date of Last Revision	Prepared By	Reviewed By	Approved by
Inclusion of Odisha Discom and periodic Revision	<u>10-Jan-2021-R4</u>	All Discom and CFT members	Debi Prasad Acharya (Head-Safety-Odisha Discom)	Suresh H Khetwani (Chief safety and Environment)

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1.0 Objective:

The Objective of Safety Terms and Conditions is to apprise the Business Associates about various critical procedures of the Tata power Division/Discoms and the expectations from the BA to implement such procedures without fail. Certain terms and conditions are also mentioned to ensure a safe work atmosphere round the year. Refer Contractor's Safety Code of Conduct- Document no TPSMS/GSP/ CSM/015

2.0 Scope:

This procedure applies to all operating and project sites of The Tata Power Company Ltd and Group companies including new businesses like Electric Vehicle charging, Home Automation, Microgrid, Roof top solar etc. This Code of Conduct also applies to all operating and project sites of four Odisha Discoms and New business based on mutually agreed timeline for implementation. R5

3.0 Safety Organization & Responsibilities

3.1 Contractor Site Management and Supervision

Each Contractor will be responsible for fulfilling all statutory and safety requirements as per the laws of the land and not limited to Factory Act, Electricity Act, Electricity Rules and Regulations, Shop and Establishment Act etc.

Each Contractor shall provide at least one competent full-time safety supervisor for workforce of every 50 workers or less than that. When workforce ranges to 500, the contractor must provide at least one qualified safety officer (This may be subjected to change as per applicable act). Thus, for work force of 500 workers there will be one qualified safety officer and 10 safety supervisors. For every 500 additions in workforce, the contractor must add 1 safety officer and 10 safety supervisors. The Order Manager or Safety Department of the Tata Power Division /Discoms will review and approve the appointment of all safety officers and supervisors. The safety supervisors/officers will work with the guidance from Tata Power Division /Discoms Safety Department and align themselves with Tata power Division/Discom safety requirements.

For O&M related AMC activities, minimum one qualified safety officer to be deployed for each Division of the Discoms.

Qualified safety officer means he or she has completed PDIS or ADIS from a recognized institute.

Site Safety Officer/Safety Supervisor / Safety Coordinator shall be interviewed by the Order Manager/ Safety head of the Tata Power Division/Discom and then gate passes shall be issued if the interview is successful.

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Site Manager of Contractor/Subcontractor is responsible, and will be held accountable, for the safety of their own workforce as well as that of sub-contractors. He should also ensure that all equipment, materials, tools, and procedures remain in safety compliance at job site.

Responsibility of Site manager includes, but not limited to:

- 3.1.1 Holding officer/supervisors accountable for safety and actively promote safe work performance.
- 3.1.2 Participate in and cooperate with all safety program requirements to be implemented to meet Tata Power Division /Discoms safety objectives
- 3.1.3 Ensure timely reporting of safety incidents, near misses, unsafe acts, and conditions.
- 3.1.4 Identify the training needs of BA employees and maintain all safety training documents.
- 3.1.5 Provide Safety Performance Report at an agreed frequency.
- 3.1.6 Stopping of unsafe work (Acts and/or Conditions) immediately. Work to start only after corrective actions are implemented.
- 3.1.7 Ensure and participate in daily toolbox talk for all the jobs.
- 3.1.8 Ensure that only tested and certified tools and equipment are issued to the workers and being used at the site.

3.2 Contractor Supervisors and General Staff.

Contractors' site supervisors and general staff members in charge of job site functions such as field engineering, warehousing, purchasing, costing, and scheduling etc. are responsible for the safe performance of the work of those they supervise. They must set an example for their fellow employees by being familiar with applicable sections of the Site Safety program and ensuring that all site activities are performed with SAFETY as the primary objective.

Each site supervisor is responsible and will be held accountable for identifying, analyzing, and eliminating or controlling all hazards through implementation of an aggressive, pro-active Health, Safety and Environmental Program. Each supervisor will proactively participate in the Safety program by observing, correcting, and recording unsafe acts and conditions at plant / sites.

3.3 Contractor Workforce

- 3.3.1 Contractors shall provide adequate quality and quantity of manpower as mutually agreed. (R5)
- 3.3.2 All the contractor employees shall attend "SHE L0(Other than new business and Odisha Discom)/L1 Foundation Course in Safety". Depending on the critical procedure in job employees shall also be required to attend "SHE L2 course of critical/high risk operations". All Supervisors shall be required to attend "SHE L3 Supervisory Training". All the above trainings will be conducted by TPSDI/Skill development institute of Disco, or other equivalent institute approved by Tata Power.

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- 3.3.3 Contractor employees shall be required to attend any other additional training if suggested by Order manager or Site Safety Head. The cost of such additional training shall be borne by the Vendor.
- 3.3.4 Contractor / Vendor shall mobilize their manpower well in advance to complete the training through TPSDI/Sill development Institute.
- 3.3.5 The Vendor / BA shall arrange or bear the conveyance and food expenses incurred during training of BA employees in Odisha Discom. (R5)
- 3.3.6 The validity of the training L1, L2 and L3 is 3 years. There will be competency assessment as Revalidation test in every three months for Tata Power Division and six months for Odisha Discom till one year from implementation of CSCC.(R5) Those who fail in the competency assessment shall undergo training again.
- 3.3.7 Supervisors/Welder/Electricians/Line man /Fitters /Radiographers/Riggers engaged by the contractor shall have valid competency certificates issued by authorized agency/Institute.
- 3.3.8 Contractor workforce must make safety a part of their job by following safety rules and regulations and by using all safeguards and safety equipment. They must take an active part in the Safety programs for the Site.
- 3.3.9 Every member of the workforce is expected to report for work without influence of any Drug/Alcohol. Failure to comply with this requirement shall result in immediate termination of employees under the influence of drug and alcohol plus show cause notice/penalty to the vendor.
- 3.3.10 All employees shall report hazardous conditions, practices and behaviours in their work areas and correct wherever possible.
- 3.3.11 Workforce is responsible for active participation in safety and health programs, suggestion systems, trainings and reporting of unsafe act/practices, Unsafe conditions incidents and injuries to their supervisors.

3.4 Vendor/Contractor/sub-contractor

- 3.4.1 Vendors/Contractor shall always comply with and ensure that their workforce comply with all site safety rules and regulations. Specifically, with applicable provisions of the Site Safety Management Plan and all statutory safety rules and regulations.
- 3.4.2 After receiving the work order/ purchase order vendor/contractor/bidder shall not appoint Sub-contractor without safety assessment of the sub-contractor through safety concurrence group Under Contractor Safety Code of Conduct. Penalty of 5% of contract value will be applicable to the contractor if subcontractor is appointed without the permission of SCG and without evaluation through CSCC process.

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4.0 Tools and Tackles(R5)

- 4.1 Tools & Tackles used to carry out the job shall be checked and inspected by Order Manager and safety Officer.
- 4.2 Vendor must submit a valid Certificate from Competent person under the Factories Act 1948 and State Factories Rule for all Lifting Tools and Tackles (like Hoist, D Shackles, chain Block, wire ropes etc.).
- 4.3 All Electrical Hand Tools must be tested for leakage of current by a person /agency authorized by Tata Power Division /Discoms. Electrical power must be taken though RCCB of 30mA. Electrical hand tools should not have cord more than 3 meters in length. If power source is at > 3 meters, extension boards with RCCB of 30 mA and ON/OFF switch, shall be used.
- 4.4 Removal or inclusion of tools any new tool /tackles / machinery / equipment at site should only be done with concurrence of the order Manager / Head Safety.

5.0 Site Safety Rules and Procedures:

The work in the safest possible manner can only happen when it has been carefully planned and all applicable procedures are followed. The Tata Power Safety Procedures are derived from Tata Power best practices and the applicable Government acts regulations. In each case, the most stringent regulation is used. All safety rules and procedures developed from time to time shall be mandatorily followed by the vendor and his employees while working at Site.

6.0 Critical safety Rules and Procedures: Following is the list of Tata Power's critical Safety Rules and Procedures. Contractor shall refer to approved Rules and Procedures for detailed requirements and ensure conformance

6.1 Lock Out and Tag Out Procedure.

This procedure is intended to be used for the protection of Personnel while servicing or performing maintenance on distribution network/ equipment / pipeline / vessel / process systems. This is a general procedure that shall be used as the minimum requirements for isolation of equipment, pipelines, machines, system from all possible sources of hazardous energy and / or material such as Steam, Hot Water, Compressed Air, any other process fluid / chemical energy /Mechanical energy or Electrical energy. For complete procedure kindly refer Procedure Document No. **TPSMS/CSP/LOTO/001**

6.2 Excavation Safety (Shoring and Sloping) Procedure

This procedure is developed to cover the safe practices required for shoring and sloping in excavation and trenching jobs. This procedure is developed to establish mandatory requirements for practices to protect personnel, property and equipment from hazards associated with above activities. For complete procedure kindly refer Procedure Document No **TPSMS/CSP/EXS/002**

6.3 Confined Space Entry Procedure:

This procedure outlines the steps required to perform the confined space entry and to protect personnel from the hazards of entering and conducting operations in confined spaces. For complete procedure kindly refer Procedure Document No – **TPSMS/CSP/CSE/003**.

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6.4 Working at Height Procedure:

This procedure describes the rules and procedures to protect employees from the hazards of working at heights. This procedure is developed to cover the safe practices required for Working at Heights. This procedure is developed to establish mandatory requirements for practices to protect personnel from hazards associated in this area. For complete procedure kindly refer Procedure Document No – TPSMS/CSP/WAH/004.

6.5 Heavy Equipment Movement Safety Procedure.

Heavy equipment lifting and movement is an activity involving loading, unloading, storage and movement from one place to another including lifting and erection or repairing of equipment with cranes or hoists. Material, machinery and equipment handling operations are being carried out by large capacity cranes and hoists, which make the job safer and faster. This procedure addresses the hazards and precautions associated with such equipment and their use. For complete procedure kindly refer Procedure Document No – TPSMS/CSP/HEMS/005.

6.6 Mobile Crane Safety Procedure.

Mobile cranes are responsible for many incidents, injuries. Falling loads from mobile cranes pose a severe hazard to operators and nearby workers and property. Many types of cranes, hoists, and rigging devices are used for lifting and moving materials. To maintain safe, appropriate standards must be adhered to and only qualified and licensed individuals shall operate these devices. For complete procedure kindly refer Procedure Document No – TPSMS/CSP/MCS/006.

6.7 Scaffold Safety Procedure.

This procedure is developed to provide information on the safe erection, use, dismantling and maintenance of access scaffolding in the workplace. It is developed to establish mandatory requirements for practices to protect personnel from hazards associated with erection, use and dismantling of scaffolds. For complete procedure kindly refer Procedure Document No – TPSMS/CSP/SCAF/007.

6.8 Permit to Work Procedure.

Given the inherent hazards of the power generation and distribution industry, a significant number of TATA POWER operations and installations are critical. Work Permit (WP) System is an essential element in controlling the workplace risks in an effective manner. For complete procedure kindly refer Procedure Document No – TPSMS/CSP/PTW/008.

6.9 Job Safety Analysis (JSA) Procedure.

This objective of this procedure is to have a task-based risk assessment process in place that identifies, evaluates and controls the risks associated with work activities, and as a result, prevents those involved in the task or those potentially affected by the task, from being harmed. For complete procedure kindly refer Procedure Document No- TPSMS/CSP/JSA/009 REV 01.

6.10 Electrical Safety Procedure.

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The objective of these standards is to specify minimum mandatory requirements and advisory guidance for identifying and controlling hazards to ensure 'Zero Harm' regarding operation maintenance and testing of electrical equipment. For complete procedure kindly refer Procedure Document No- TPSMS/CSP/ELEC/010

6.11 Fire Safety Management Procedure.

Objective of This standard is to specify the minimum mandatory requirements and advisory guidelines to ensure prevention of fire related incidents and managing / controlling their impacts if they do occur. For complete procedure kindly refer Procedure Document No - TPSMS/CSP/ELEC/011

6.12 Hazard Identification & Risk Assessment (HIRA) Procedure(R5):

Objective of this procedure is to define guidelines for Hazard identification, Risk assessment and determination of controls. For complete procedure kindly refer Procedure Document No - TPSMS/CSP/HIRA/012.

6.13 Management Of Change (MOC) Procedure(R5):

The objective of this document is to establish the procedures necessary to ensure that HSE risks are managed to an acceptable level in Tata Power Management of Change (MOC) process. For complete procedure kindly refer Procedure Document No - TPSMS/CSP/MOC/013.

6.14 Pre-Start-up Safety Review (PSSR) Procedure(R5).

Objective of this procedure is to provide guidelines for safe initial startup of a new facility or restart of a modified facility. The PSSR process verifies that the new/modified facility meets the original design and operating parameters. The intent is to prevent incidents caused by inadequate, incomplete, unauthorized design, construction, installation, and/or commissioning. For complete procedure kindly refer Procedure Document No - TPSMS/CSP/MOC/014.

6.15 Road Safety procedure(R5):

To provide Safety Rules for road travel management and safe usage of all types of vehicles viz. passenger/ commercial, owned/ hired by company, driven by employees or contractors. For complete procedure kindly refer Procedure Document No - TPSMS/CSP/RSP/015.

7.0 General safety Rules and Procedure:

7.1 Lift (Elevator) Safety Procedure:

To provide safe operating procedure for taking control of lift car before entering and existing the pit of OTIS make elevators. For complete procedure kindly refer Procedure Document No – TPSMS/GSP/LIFT/001,

7.2 Working on conveyor belt Procedure:

This procedure is developed to cover the safe practices required for Working on live equipment and to protect personnel from hazards associated with it. For complete procedure kindly refer Procedure Document No – TPSMS/GSP/CONV/003

7.3 Batteries Handling & Disposal(R5)

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To provide procedure for recycling and / or safe disposal of used / waste batteries in compliance with all legislation. For complete procedure kindly refer Procedure Document No – **TPSMS/GSP/HAZM/003**

7.4 Material Handling and Storage Procedure:

The purpose of this document is to provide procedures to assist the safe handling of materials (manual handling and mechanical handling). For complete procedure kindly refer Procedure Document No – **TPSMS/GSP/MATL/004**.

7.5 Office Safety Procedure(R5):

The objective is to provide a safe working environment to those working in office premise, who may be exposed to emergency situations and other chronic / cumulative risks that may arise due to various reasons of unsafe act, unsafe condition, fire and or pandemic crisis like COVID-19 etc. For complete procedure kindly refer Procedure Document No - **TPSMS/GSP/OFS/006**

7.6 Earth Leakage Circuit Breaker (ELCB) Testing Procedure(R5):

The objective of this procedure is to define the minimum requirements for testing of Earth Leakage Circuit Breaker (ELCB). For complete procedure kindly refer Procedure Document No - **TPSMS/GSP/ELCB/008**.

7.7 Occupational Health & Safety Legal Compliance Procedure(R5):

Objective of this procedure is provide guidelines for compliance of Occupational Health & Safety (OH&S) legal requirements and all ratified protocols and agreements are incorporated in Tata Power Safety Management System (SMS). For complete procedure kindly refer Procedure Document No - **TPSMS/GSP/LEGL/009**.

7.8 Incident Reporting & Investigation Procedure(R5):

Objective of this procedure is to outline the process for reporting, recording and investigating an incident, recommending corrective and preventive actions and to communicate the lessons learned to prevent recurrence of similar incidents. For complete procedure kindly refer Procedure Document No - **TPSMS/GSP/IRI/011**.

7.9 Contractor Safety Management Procedure.

The purpose of this document is to engage with contractors in a way to create safe work environment for everyone working for Tata Power. For complete procedure kindly refer Procedure Document No – **TPSMS/GSP/CSM/015**.

7.10 Tree Trimming Procedure(R5):

The objective of this procedure is to define guidelines and minimum requirements for Tree trimming. For complete procedure kindly refer Procedure Document No – **TPSMS/GSP/TTRM/017**

7.11 Safe Lone Working Procedure(R5):

Objective of this procedure is to lay down guidelines for reduction and safe managing of any additional risk arising from lone working. For complete procedure kindly refer Procedure Document No – **TPSMS/GSP/LONE/019**.

7.12 Good Housekeeping(5S) Procedure(R5):

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Objective of this procedure is to explain the meaning, importance and provide guidelines for implementation of Good Housekeeping(5S) at workplaces across organization. For complete procedure kindly refer Procedure Document No – **TPSMS/GSP/GHK/022**.

7.13 Personal Protective Equipment(R5):

This procedure describes the basic requirements, applicability, minimum specifications of Personal Protective Equipment (PPE). For complete procedure kindly refer Procedure Document No – **TPSMS/GSP/PPE/023**.

7.14 Process Safety Management Procedure(R5):

The objective of this document is to provide a standardized & uniform guideline to implement Process Safety Management in Tata Power, its JVs, and subsidiaries to prevent or minimize the consequences of releases of toxic, flammable, pressurized or uncontrolled chemicals/Steam/Water or any other material which may result in toxic, fire, explosion, burn or flood like situation. For complete procedure kindly refer Procedure Document No – **TPSMS/GSP/PSM/024**

The above procedures will be updated time to time and the updated version of the procedures as well as any additional critical procedure will be available on official website of Tata Power (www.tatapower.com) for your reference.

8.0 Training and Capability Building.

Safety Training and capability building of workforce is a major component of safety management program. All training required must be provided and documented as specified by Tata Power and Indian Regulations. Tata Power Division /Discoms Safety department will audit contractors training and related documentation to assure its adequacy.

8.1 Tata power Odisha Discom Site Safety Orientation.R5

All Tata Power contractor and subcontractor workforce is required to attend Site Safety Orientation Training to receive a Safety Training Card, which is required to obtain a Gate Pass to the site, prior to entry. This Safety Orientation Course will be for duration of minimum half day. The information provided during the orientation will include, but is not limited to following:

- 8.1.1 Job rules, personal safety, and conduct
- 8.1.2 Hazard's reporting
- 8.1.3 Reporting of injuries
- 8.1.4 Emergency procedures
- 8.1.5 Safety Activities and Program including disciplinary measure and incentives.
- 8.1.6 Critical safety procedure relevant to the job

8.2 Capability Building:

- 8.2.1 All Tata Power contractor and subcontractor workforce is required to attend L1 Training to receive a Safety Training Card, which is required to obtain a Gate Pass to the site, prior to entry.
- 8.2.2 Appropriate practical training such as SHE L1, L2& L3 is given to ensure that a jobholder, either supervisor or worker, is competent to do his/her job safely. The skill training is provided through TPSDI, and other agencies authorized

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- by Tata Power on the list of 15 critical Safety procedures mentioned under safety procedures. Duration of course is as specified by Division/Discom
- 8.2.3** Contractor shall ensure that concerned workmen are provided with adequate training before he/she is allowed to execute the work. An evaluation test will be conducted after the completion of the training. Those employees who meet the minimum required competency will be provided with Certificate (Card), which will be valid for 3 years, post which the workmen have to reappear for assessment.
- 8.2.4** If the workman is not able to qualify the assessment, he/she will be given 3 additional attempts to clear in 3-month time failing which he/she will not be allowed to work in the Division /Discoms.
- 8.2.5** After expiry of Certificate or Training /Competency Card again one day recertification of L1, L2 and L3 skill training will be provided. R7.
- 8.2.6** Quarterly /Half yearly(For Odisha and New business) Revalidation Test - "SHE L1 Revalidation test" will be conducted for the contractor's employees to revalidate their safety awareness and knowledge.
- 8.2.7** Order Manager and Safety In charge of the Division/Site /Plant will conduct a Competency Assessment of all workforces, going to be deployed at site / plant for high-Risk job.
- 8.2.8** The Contactor shall bear the conveyance and food expenses of his staff for attending training sessions and capability building sessions in new business-like Odisha Discom.
- 8.2.9** The Contactor shall bear the entire cost of L1/L2/L3, the costs towards training, salaries/wages, boarding and lodging of his staff for attending training sessions and capability building sessions. These trainings are offered on nominal chargeable basis payable by Contractor and rates shall be decided by TPSDI from time to time in case of training through TPSDI. Generally, L0 is of one day, L1 is for 2 days for each critical procedure and L3 is for one day. Around Rs 700+GST is approx. cost /Day/Candidate. -R5
- 8.2.10** Competency assessment of all critical workforce to be carried out for all who has taken L2 training. R5

9.0 Recognition to the Prior Learning in Safety-R5

If "Order Manager" recommends and "Head of the Safety Department of Discom" is satisfied with the safety knowledge and competency of the employee of contractor, a test may be conducted by Tata power Skill development Institute/ other recognized institute to assess the prior learning in safety. If employees of the contractors pass in such test, he will be exempted from appearing in SHE L1 training. This assessment is on nominal chargeable basis and rates are decided by TPSDI from time to time.

10.0 Safety performance retention(R5) and Safety Performance Evaluation: A certain percentage of the bill value will be retained against every running bill as safety performance retention. The amount will be released with the last invoice or every six-month based on Safety Performance Score of contractors. This is as per CSCC Document no TPSMS/GSP/ CSM/015

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This safety retention shall be waived for Contractors who have either submitted a Contract Performance Bank Guarantee or have a retention from each running bill for an amount not less than 10% of each bill subject to the express undertaking / understanding that if there are any deductions required to be made for safety non-performance as per the Safety Performance Score, then Tata Power shall recover any such deductions against safety non-performance directly from the monthly bills / final settlement as the case may be failing which it shall be within its right to recover such sum from accounts payable or the CPBG or the retention of the Contractor available with Tata Power for the said contract or any other contract between the Contractor and Tata Power.

11.0 Pre-Employment and Periodic Medical check-up:

Contractor shall arrange to conduct a pre-employment and periodic medical check-up for its entire workforce by Tata Power medical officer or Tata Power authorized medical officer. The contractor shall be able to produce the certificate prior to the employment. The contractor shall also organize to conduct periodical medical checkup (six monthly) for the following category of employees:

- Drivers (Check for Vision & Hearing)
- HEM Equipment Operators (Check for Vision & Hearing)
- Workforce working at Height (Check for Vision, Hearing, Vertigo & Height Phobia)
- Workforce Handling the hazardous substances - Coal, ash and chemicals (Chest X-ray and Lung Function T)
- Workforce in high Noise area (> 90 Decibel), Check for Hearing
- Workforce handling radiography equipment for conducting NDT.
- Workforce, working in specific areas requiring specific medical attention should conduct the medical tests test as laid down in the respective Site Safety Management Plan.

12.0 Other Conditions:

- 12.1. The manpower/vehicles/Tools & Tackles/Equipment provided shall be as per mutually agreed SLA.
- 12.2. No Supervision No work policy should strictly be followed.
- 12.3. Test Before Touch must be ensured every time a job is being carried out in electrical network.
- 12.4. HIRA /JSA as per the job scope must be prepared in detail and submitted along with Site Safety Plan by the successful bidder.
- 12.5. Personal protective equipment (PPE) must always be checked before use to ensure that they are in good condition and clean. Replace them if necessary.
- 12.6. All relevant PPE shall be provided by the vendor while working at the site.
- 12.7. Housekeeping shall be maintained all the time while execution of work. All the unwanted material shall be removed from the site at the end of the day's work. Old/damaged parts if taken out of the system shall be kept at

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identified placed and it shall be shifted to scrap yard or disposed of as per instruction of order manager.

- 12.8. Site Safety Plan shall be prepared by successful bidder along with order manger. Appendix 1 to be filled by successful bidder and submitted to Tata Power safety in-charge, before mobilization of team at site and start of the work.
- 12.9. The Owner or Proprietor of BA must visit worksite at least once in a month and meet Order Manager every month. In case of incidents, the Owner or Proprietor of BA is required to attend Time Out Meetings to understand the gaps that contributed to the incident.

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General Safety Conditions for various contracts Specific to Odisha Discom(R5)

13.0. Safety Conditions for maintenance of STS (Sub Transmission System) Network.

A BA awarded a major contract work of maintenance of sub – transmission network in area of a power system will be required to fulfil the following conditions:

- Availability of Discharge Rods - Minimum 6 Nos. in each maintenance vehicle, fit for purpose and in good conditions and defective rods are removed from service.
- Availability of Neon tester - Minimum one Neon Tester in each Maintenance Vehicle, in good and working condition and defective or non-standard neon testers are removed from service.
- Electrical hand Gloves - Minimum two sets of 33 KV and two sets of 11 KV in maintenance vehicles.
- The BA linemen must be having required ELBO certification for the voltage level involved.
- BA shall provide Safety Policy, Safety Objectives, Organogram showing structure and responsibility of Safety management of his company and shall document the work practices and procedures in terms of Safety Management.
- BA shall comply with all statutory requirements like applicable acts, regulations, codes of practice, OHSAS Standards, Labour laws, etc.
- The BA shall participate in Safety promotional activities like celebration of Lineman day on 4th March, National Fire Service Day on 14th April and Theme based safety campaigns undertaken by the Discoms every month.
- BA shall abide by Safety manuals and guidelines of Discom issued from time to time.
- BA shall ensure safety training and induction program for the employees. The BA employees must carry safety training card / competency card to the worksite and produce the card on demand.
- All BA employees must be given valid ID card issued by BA cell of Discom who will check statutory compliances before issuing ID cards.
- BA shall not employ a new workman without training and issue of ID card.
- BA shall conduct safety audits & inspections as per Discom procedures.
- BA shall provide proper PPEs as per CSM F-8 ensure periodic inspection of PPE, Tools and tackles to ensure their serviceability.
- BA shall ensure the adherence to standard operating procedures or guidelines laid down by the Discoms.
- BA shall ensure that no job shall be carried out without efficient supervision.
- BA shall ensure reporting of any unsafe act, unsafe conditions, near miss, incident, or accident to engineer in-charge and SAFETY team of the Discom.
- BA shall provide safety performance and Safety MIS to engineer in-charge and Discom SAFETY group periodically. Based on any non-confirmation to the safety procedures and guidelines, BA is liable to be negatively marked for his performance and suitable penalty will be imposed.
- BA safety staff shall work as per the guidance of the Discom safety department and functionally report Safety Head of Discom. Any leaves by safety staff of the BA shall have to approved by Discom Safety Department.
- BA shall ensure to depute Safety Staff for managing safety in worksites. In case the BA has been awarded work in more than one area power system, then the following safety structure will be adopted.
- Safety manager and Safety engineer must be having PDIS or ADIS.

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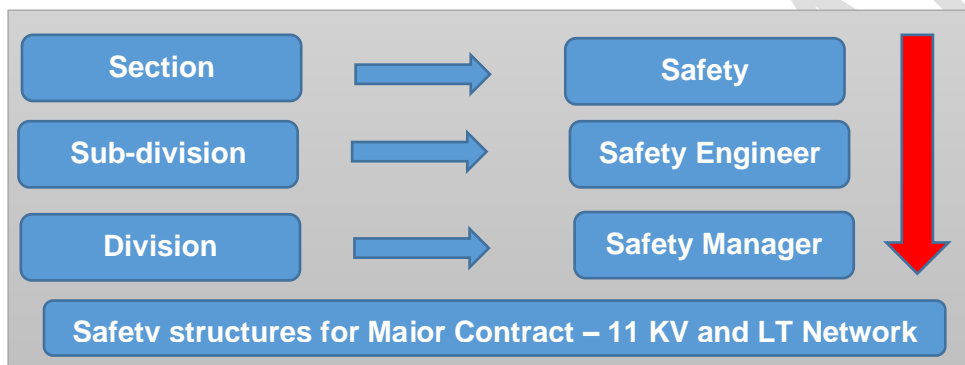
14.0 Safety Conditions for maintenance of 11 KV and LT Network.

A BA awarded a major contract work of maintenance of 11 KV and LT Network in area of a power system will be required to fulfil the following conditions:

- Availability of Discharge Rods - Minimum 6 Nos. in each PSS/FCC and maintenance vehicle, fit for purpose and in good conditions and defective rods are removed from service.
- Availability of Neon tester - Minimum one Neon Tester in each PSS/FCC/ Maintenance Vehicle, in good and working condition and defective or non-standard neon testers are removed from service.
- Electrical hand Gloves - Minimum two sets of 33 KV and two sets of 11 KV in each PSS/Maintenance vehicles and two sets of LT hand gloves at each FCC.
- The BA linemen must be having required ELBO certification for the voltage level involved.
- BA shall provide Safety Policy, Safety Objectives, Organogram showing structure and responsibility of Safety management of his company and shall document the work practices and procedures in terms of Safety Management.
- BA shall comply with all statutory requirements like applicable acts, regulations, codes of practice, OHSAS Standards, Labour laws, etc.
- BA shall abide by Safety manuals and guidelines of Discom issued from time to time.
- BA shall ensure safety training and induction program for the employees. The BA employees must carry safety training card / competency card to the worksite and produce the card on demand.
- All BA employees must be given valid ID card issued by BA cell of Discom who will check statutory compliances before issuing ID cards.
- BA shall not engage new workman without training and issue of ID card.
- PSS operator shall not be involved in maintenance activities.
- BA shall conduct safety audits & inspections as per Discom procedures.
- BA shall provide proper PPEs as per CSM F-8 ensure periodic inspection of PPE, Tools and tackles to ensure their serviceability.
- The BA shall participate in Safety promotional activities like celebration of Lineman day on 4th March, National Fire Service Day on 14th April and Theme based safety campaigns undertaken by the Discoms every month.
- BA to ensure that all LT complaints are routed through Call Centre and recorded in FCC. Rectification of fault shall be done only after call centre logging and with the knowledge of BA supervisor.
- No one will work alone or unsafely under public pressure or otherwise.
- BA shall ensure the adherence to standard operating procedures or guidelines laid down by the Discoms.
- BA shall ensure that no job shall be carried out without efficient supervision.

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- BA shall ensure reporting of any unsafe act, unsafe conditions, near miss, incident, or accident to engineer in-charge and SAFETY team of the Discom.
- BA shall provide safety performance and Safety MIS to engineer in-charge and Discom SAFETY group periodically. Based on any non-confirmation to the safety procedures and guidelines, BA is liable to be negatively marked for his performance and suitable penalty will be imposed.
- BA safety staff shall work as per the guidance of the Discom safety department and functionally report Safety Head of Discom. Any leaves by safety staff of the BA shall have to approved by Discom Safety Department.
- BA shall ensure to depute Safety Staff - One safety supervisor per section, One safety engineer per sub-division and one safety manager per Division Safety manager and Safety engineer must be having PDIS or ADIS.



15.0 Safety Conditions for the major contract work in Civil Projects:

A BA awarded a major contract work of / in civil project will be required to fulfil the following safety conditions:

- BA shall provide Safety Policy, Safety Objectives, Organogram showing structure and responsibility of Safety management of his company and shall document the work practices and procedures in terms of Safety Management.
- BA shall comply with all statutory requirements like applicable acts, regulations, codes of practice, OHSAS Standards, Labour laws, etc.
- BA shall abide by Safety manuals and guidelines of Discom issued from time to time.
- BA shall ensure safety training and induction program for the employees. The BA employees must carry safety training card / competency card to the worksite and produce the card on demand.
- All BA employees must be given valid ID card issued by BA cell of Discom who will check statutory compliances before issuing ID cards.
- BA shall not employ a new workman without training and issue of ID card.
- BA shall conduct safety audits & inspections as per Discom procedures.
- BA shall provide proper PPEs as per CSM F-8 ensure periodic inspection of PPE, Tools and tackles to ensure their serviceability.
- BA shall ensure the adherence to standard operating procedures or guidelines laid down by the Discoms.
- BA shall ensure that no job shall be carried out without efficient supervision.
- BA shall ensure reporting of any unsafe act, unsafe conditions, near miss, incident, or accident to engineer in-charge and SAFETY team of the Discom.

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- The BA shall participate in Safety promotional activities like celebration of Lineman day on 4th March, National Fire Service Day on 14th April and Theme based safety campaigns undertaken by the Discoms every month.
- BA shall provide safety performance and Safety MIS to engineer in-charge and Discom SAFETY group periodically. Based on any non-confirmation to the safety procedures and guidelines, BA is liable to be negatively marked for his performance and suitable penalty will be imposed.
- BA safety staff shall work as per the guidance of the Discom safety department and functionally report Safety Head of Discom. Any leaves by safety staff of the BA shall have to approved by Discom Safety Department.
- BA shall refer Construction Safety Manual of the Discom for details.
- BA shall ensure to depute a Safety Supervisor (for workforce up to 100 at site) / a safety engineer (for workforce up to 250 at site) / safety manager (for more than two safety engineers) for managing safety at the project site. In case the BA has been awarded more than one major contracts, then the following safety structure will be adopted.
- Safety Engineers and Safety Managers must be having PDIS or ADIS.



16.0 Safety Conditions for the major contract work in Commercial Department like - MMG, RRG, EAG, etc.:

A BA awarded a major contract work in meter management group & energy auditing group will be required to fulfil the following safety conditions:

- BA shall provide Safety Policy, Safety Objectives, Organogram showing structure and responsibility of Safety management of his company and shall document the work practices and procedures in terms of Safety Management.
- BA shall comply with all statutory requirements like applicable acts, regulations, codes of practice, OHSAS Standards, Labour laws, etc.
- BA shall abide by Safety manuals and guidelines of Discom issued from time to time.
- BA shall ensure safety training and induction program for the employees. The BA employees must carry safety training card / competency card to the worksite and produce the card on demand.
- All BA employees must be given valid ID card issued by BA cell of Discom who will check statutory compliances before issuing ID cards.
- BA shall not employ a new workman without training and issue of ID card.
- BA shall conduct safety audits & inspections as per Discom procedures.
- The BA shall participate in Safety promotional activities like celebration of Lineman day on 4th March, National Fire Service Day on 14th April and Theme based safety campaigns undertaken by the Discoms every month.
- BA shall provide proper PPEs as per CSM F-8 ensure periodic inspection of PPE, Tools and tackles to ensure their serviceability.

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- BA shall ensure the adherence to standard operating procedures or guidelines laid down by the Discoms.
- BA shall ensure that no job shall be carried out without efficient supervision.
- BA shall ensure reporting of any unsafe act, unsafe conditions, near miss, incident, or accident to engineer in-charge and SAFETY team of the Discom.
- BA shall provide safety performance and Safety MIS to engineer in-charge and Discom SAFETY group periodically. Based on any non-confirmation to the safety procedures and guidelines, BA is liable to be negatively marked for his performance and suitable penalty will be imposed.
- BA safety staff shall work as per the guidance of the Discom safety department and functionally report Safety Head of Discom. Any leaves by safety staff of the BA shall have to be approved by Discom Safety Department.
- BA shall ensure to depute a Safety Supervisor for managing safety at worksite.
- The BA for the RRG work shall depute one Safety supervisor.



17.0 Safety Conditions for Major Projects in Distribution Network

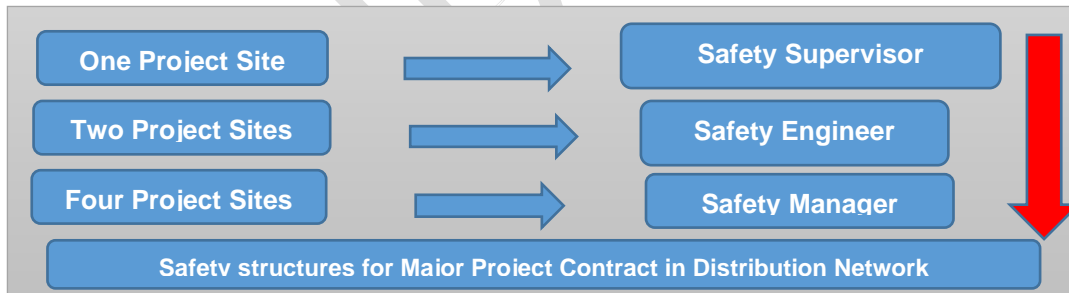
A BA awarded a major Projects in Distribution Network shall be required to fulfil the following conditions:

- Availability of Discharge Rods - Minimum 6 Nos. for each project site, fit for purpose and in good conditions and defective rods are removed from service.
- Availability of Neon tester - Minimum one Neon Tester in each project site, in good and working condition and defective or non-standard neon testers are removed from service.
- Electrical hand Gloves - Minimum one sets of 33 KV, 11 KV and LT in each project site.
- The BA linemen must be having required ELBO certification for the voltage level involved.
- BA shall provide Safety Policy, Safety Objectives, Organogram showing structure and responsibility of Safety management of his company and shall document the work practices and procedures in terms of Safety Management.
- BA shall comply with all statutory requirements like applicable acts, regulations, codes of practice, OHSAS Standards, Labour laws, etc.
- BA shall abide by Safety manuals and guidelines of Discom issued from time to time.
- BA shall ensure safety training and induction program for the employees. The BA employees must carry safety training card / competency card to the worksite and produce the card on demand.
- The BA shall participate in Safety promotional activities like celebration of Lineman day on 4th March, National Fire Service Day on 14th April and Theme based safety campaigns undertaken by the Discoms every month.
- All BA employees must be given valid ID card issued by BA cell of Discom who will check statutory compliances before issuing ID cards.
- BA shall not employ a new workman without training and issue of ID card.
- BA shall conduct safety audits & inspections as per Discom procedures.
- BA shall provide proper PPEs as per CSM F-8 ensure periodic inspection of PPE, Tools and tackles to ensure their serviceability.

- BA shall ensure the adherence to standard operating procedures or guidelines laid down by the Discoms.
- BA shall ensure that no job shall be carried out without efficient supervision.

Sr. No	Type of Audit	Frequency
1	Tool Bag and PPE audit	Weekly
2	First Aid Box Maintenance Record	Fortnightly
3	Fire Extinguisher Record (Applicable for the BA involved in major construction works and have storage of flammable material at worksite)	Monthly
4	Safety Talk Register	Weekly
5	Site Safety Audit	Daily

- BA shall ensure reporting of any unsafe act, unsafe conditions, near miss, incident, or accident to engineer in-charge and SAFETY team of the Discom.
- BA shall provide safety performance and Safety MIS to engineer in-charge and Discom SAFETY group periodically. Based on any non-confirmation to the safety procedures and guidelines, BA is liable to be negatively marked for his performance and suitable penalty will be imposed.
- The BA shall participate in Safety promotional activities like celebration of Lineman day on 4th March, National Fire Service Day on 14th April and Theme based safety campaigns undertaken by the Discoms every month.
- BA safety staff shall work as per the guidance of the Discom safety department and functionally report Safety Head of Discom. Any leaves by safety staff of the BA shall have to approved by Discom Safety Department.
- BA shall ensure to depute Safety Staff for managing safety in worksites. One safety supervisor per project site or 100 persons, one safety engineer for 2 project sites of 250 persons, and one safety manager for four project sites or 500 persons.
- Safety manager and Safety engineer must be having PDIS or ADIS.



18.0 Schedule of Safety Audits by BA Safety Staff

Safety Undertaking of BA by way of Affidavit

I _____ s/o _____ R/o _____ (AUTHORIZED REPRESENTATIVE/PARTNER/DIRECTOR/PROPRIETOR) of M/S _____ (name of company/firm) having its office at (Complete address of Company), authorized vide power

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of attorney dated -----/Board resolution dated----/letter of authority dated----, hereinafter referred to as **Contractor [or Business Associate (BA)]** which expression shall, unless it be repugnant to or inconsistent with the meaning or context thereof, be deemed to include its heirs, executors, administrators, and assigns do hereby affirm and undertake as under :

1. The present undertaking shall remain in force from the date of execution of contract and shall be valid till the date of termination of the said contract by either party. The undertaking is binding on me (contractor) as well as my sub-contractor and its employees, representatives etc.
2. That I (the contractor) will be responsible and liable to comply and abide by all the safety rules, instructions and regulations as may be specified and laid down by the Discom to achieve its goal of Zero for on-site incidences.
3. That the Contractor shall be fully responsible for ensuring occupational health and safety of its employees, representatives, agents as well as of its subcontractor's employees, at all times during the discharge of their respective obligations under the contract including any methods adopted for performance of their tasks / work.
4. That Contractor shall ensure ,at its own expense to arrange for and procure, implement all requisite accident prevention tools, first aid boxes, personal protective equipment, fire extinguisher, safety training, Material Safety Data Sheet, pre-employment medical test, etc. for operations & activities including as & when so specified by Discom specifically. , failing which Discom shall be entitled, but not obliged, to provide the same and recover the actual cost thereof from the Contractor's payments.
5. That the Contractor shall engage adequate and competent Safety – Supervisor / Engineer / Manager / Skilled persons at site as per the Para 5 (Qualification and experience of safety personnel) and Annexure 3 of Contract Safety Management.
6. That the Contractor shall engage the competent Site – Supervisor with each group of workers for safe and correct workmanship, proper co-ordination of material and site work as per contract.
7. That the Contractor shall immediately replace supervisor in case it is found to be not up to the level of skill and experience required, but any such replacement shall be only with the prior concurrence of the Discom representative.

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8. That the Contractor and its subcontractors shall abide by all the safety guidelines as per Safety Manual, Contract Safety Management and other guidelines issued from time to time by Discom during the contract period.
9. That in case the Contractor and/or any of its Subcontractor fail to ensure the compliance as required in terms of this undertaking the Contractor shall keep and hold Discom / its directors / officers / employees indemnified against any / all losses / damage / expense / liability / fines / compensation / claims / action / prosecutions or the like which might be suffered by Discom or to which Discom might get exposed to as a result of any breach /wilful negligence /deliberate default on the part of the Contractor /Subcontractor in complying with the same. Contractor shall also furnish any press release, clarification etc. if sought by Discom for any near miss or safety violations, accidents, which are attributable to fault of Contractor.

DEPONENT

VERIFICATION

Verified aton this _Day of _____ 20__ that the contents of the above affidavit are true and correct and nothing material has been concealed therefrom

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<i>Document no TPSMS/GSP/CSM/015/REV 07</i>		<i>Date of Issue: 01/08/2023</i>

Contractor's Safety Code of Conduct

Reason for Change	Date of Last Revision	Prepared By	Reviewed By	Approved by
Inclusion of Odisha Discom and periodic Revision	<u>11-May-2015-</u> <u>R1</u> <u>15 August-2021-</u> <u>R6</u>	All Discom and CFT members from all cluster	Debi Prasad Acharya (Head-Safety-Odisha Discom)	Suresh H Khetwani <i>(Chief safety and Environment)</i>

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1.0 Objective

- The Tata Power engages contractor workforce to execute, run and maintain various operating sites and facilities across locations for various business verticals including Generation, Transmission, Distribution and Renewable. The activities range from project execution, operation, maintenance to facilities management.
- The management of contractor safety represents a significant challenge for management. Tata Power has a responsibility to ensure that contractors are provided with enough information and support to enable them to conduct their roles safely and without endangering health and safety of their own workforce or that of our staff.

2.0 Scope:

- This procedure applies to all operating and project sites of The Tata Power Company Ltd and Group companies including new businesses like Electric Vehicle charging, Home Automation, Microgrid, Roof top solar etc. *This Code of Conduct also applies to all operating and project sites of four Odisha Discoms and New business based on mutually agreed timeline for implementation. R7*
- *This document is applicable to Odisha Discoms also. Odisha Discoms are a joint venture between Tata Power and the Government of Odisha with the majority stake being held by Tata Power Company (51%). ODISHA DISCOMS is a state electricity distribution utility with sole rights to distribution of electricity in the Odisha covering the distribution companies such as TPNODL, TPCODL, TPSODL and TPWODL. In accordance with the Electricity Act. ODISHA DISCOMS engages contractor workforce to execute, run and maintain various operating sites and facilities across locations The activities range from project execution, operation & maintenance of facilities. (R7)*

3.0 Definitions

- 3.1. **Order Manager/Engineer in charge:** Order Manager/Engineer in charge is the Tata Power-Division /DISCOM representative, who has the ownership of the given job.
- 3.2. **Site Safety Management Plan:** It is the safety plan agreed between Contractor and Tata Power-Division/DISCOM. It will contain the entire job specific safety requirement and will be signed by the contractor.
- 3.3. **Contractor/Business Associate/Vendor (BA):** An individual or a company that provides services to Tata Power-Division/DISCOM under a signed contract.
- 3.4. **Emergency:** It is a serious, unexpected, or dangerous situation requiring immediate action, which may result in *loss of life*, loss of revenue/property, business discontinuity. In case of Emergency, services may be procured by selecting the qualified vendor based on the vendor category without the safety bid evaluation and approved by adequate authority of MB level or above.
- 3.5. **Expert Service jobs:** Jobs which needs expert services of contractor which does not involve direct exposure to the potential risk or work which involves only

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supervisory work such as expert for AI-ML, expert for transmission and distribution network, expert for civil works, expert on transformers, expert for PSSC, expert for equipment overhaul etc.

- 3.6. **CEO/Chief/Head of division/Unit/Utility:** Business in charge who is overall custodian of the Tata Power-Division/DISCOM.
- 3.7. **Category A Vendor:** Vendor eligible to carry out Very High & High risk (as per Tata Power-Division Hazard Identification and Risk Analysis Procedure) and /or Long-Term Contract related to operation and maintenance (O&M) of plant. Vendors must fulfil the requirement specified for Category A in Appendix 4-CSMF-4 of this document.
- 3.8. **Category B Vendor:** Vendors eligible to carry out technical jobs, that are classified under Medium / low risk. Vendors must fulfil the requirement specified for Category B in Appendix 4-CSMF-4 of this document.
- 3.9. **Category C Vendor:** Vendors eligible for to carry out low or very low risk administrative and office jobs. For this he must fulfil the requirement specified for Category C in Appendix 4-CSMF-4 of this document.
- 3.10. **Category D Vendor:** All Consultants, Medical Practitioners or vendors taking job from Tata Power and working from their own premises (e.g., motor rewinding at vendor's shop floor, equipment sent for repair to vendor's works etc.) are classified as Category D Vendor.
- 3.11. **High Risk Jobs:** A Job or its activities are considered as Very High or High Risk when Order manager apply the "Tata Power Hazard Identification and Risk Analysis" procedure and found safety risk associated with are under Very High or High category. Indicative lists of jobs are given in appendix 14 of this document.
- 3.12. **Medium Risk Jobs:** Jobs or its activities are considered as medium risk when Order manager apply "Tata Power Hazard Identification and Risk Analysis" procedure and found the same as Medium Risk.
- 3.13. **Low Risk Jobs:** Any job or its activities are considered as Low or Very low risk while Order manager calculated it by applying "Tata Power Hazard Identification and Risk Analysis" procedure and found it under Low or Very Low category.
- 3.14. **Long Duration Jobs:** *When the duration of job is more than 12 months, it is considered as long duration job. R7*
- 3.15. **High Value Jobs:** When the value of the job contract is Rs. One Crore or more, it is considered as High value job.
- 3.16. **Strategic Business Unit-SBU/Division/Discom:** *A strategic business unit is a fully functional, independently operational setup of a particular business and an important part of the Tata power company. R7*

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4.0 Responsibilities

4.1 Order Manager/Engineer in Charge: Order Manager is Tata Power-Division /DISCOM representative, who is responsible for:

- 4.1.1 Finalizing the Site Safety Management Plan along with Contractor, Safety Concurrences Group, Divisional Safety Head and Expert (External or Internal) if required.
- 4.1.2 Ensure 100% safety capability building L1, L2, L3 for contractor work force and supervisor before start of Job
- 4.1.3 Ensure Contractor safety revalidation test for all work force quarterly or Half yearly for new business such as Odisha Discom (R7).
- 4.1.4 Conduct competency assessment of all critical work force working on High-Risk Jobs based on Experience, Technical skill and Safety capability through contractor representative along with division/Discom safety representative. R7
- 4.1.5 Supervise and ensure work is carried out as per the Site Safety Management Plan including agreed Risk Assessment (HIRA/JSA) and Method Statement.
- 4.1.6 Conduct audit and evaluate Safety Performance of contractor.
- 4.1.7 Ensure contractors adhere to all statutory provisions.
- 4.1.8 In case any Exception needed in agreed safety management plan or in CSCC process for execution of job, document control procedure- TPSMS/GSP/DC/014 Clouse 6.3 will be applicable, and approval may be obtained by the Order Manager from adequate authority of Chief of Division/CEO of Discom. (R7)

4.2 Contractor/Business Associate/Vendor (BA): The person, entity or organisation who is executing the job for Tata Power-Division /Odisha Discoms under a contractual agreement and will be responsible for the following

- 4.2.1 To follow all Tata Power-Division /DISCOM Critical Safety Procedure, Rules and guidelines given in **CSM F3 Safety Terms and Conditions.**
- 4.2.2 Undertake job as per **CSM F9 Site Safety Management Plan** and method statements agreed with the Tata Power-Division /DISCOM.
- 4.2.3 Ensure 100% safety capability building L1, L2, L3 for contractor work force and supervisor before start of Job
- 4.2.4 Ensure Contractor safety revalidation test for all workforce quarterly or Half yearly for new business such as Odisha Discom up to three years. R7.
- 4.2.5 Ensure competency assessment of all critical work force working on High-Risk Jobs based on Experience, Technical skill and Safety capability through Order manager or Engineer in charge representative along with division/Discom safety representative. R7
- 4.2.6 Raise any concerns about their work and its safety with the Order Manager.

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- 4.2.7 Report all injuries, near misses, unsafe acts/conditions, and occurrences to the Order Manager immediately.
- 4.2.8 Ensure that all sub-contractors follow the Tata Power Safety Procedure and agreed **CSM F9 Site Safety Management Plan**. If subcontractor detail is not available at stage of Bid evaluation, then this can be agreed with Order manager or Engineer in charge before deployment. Ensure that all sub-contractors follow the Tata Power Safety Procedure and agreed CSM F9 Site Safety Management Plan.**R7**
- 4.2.9 To follow all statutory requirements as per the laws of the land.
- 4.2.10 All vendors applying for category "A" jobs or submitting quote for high-risk jobs shall obtain certificates of ISO:9001, ISO:14001 and ISO:45001 before submitting quote for high-risk Jobs or otherwise mention plan to get the certification. **R7**
- 4.3 Safety Concurrence Group (SCG):** It is Cross Functional Team constituted by Contract department with active support from Safety Team of the Tata Power Division/Discom safety team having representatives from Execution Department, Operation Department, Contract Department, and any other department as deemed fit. SCG will be responsible for the following:
- 4.3.1 Assessment of Safety Potential of new vendor before registration using **CSM F1 Process Flowchart for Vendor Registration** and **CSM F2 Safety Category Qualification Form**.
- 4.3.2 Safety Evaluation of the bids as per evaluation format **CSM F7 Safety Bid Evaluation Criteria**
- 4.3.3 Finalization of the **CSM F9 Site Safety Management Plan** submitted by the contractor.
- 4.3.4 During Safety Bid Evaluation for following types of jobs are evaluated: R7
- 4.3.4.1 High-Risk jobs, Medium Risk job, Major Shutdowns and Outages.
- 4.3.4.2 Capex jobs of High-Risk Category

5.0 Procedure

5.1 Registration of Business Associates (Vendors)

For Vendor Registration, Contract Department will issue following documents for evaluation of contractor's safety capability

- 1) **CSM F2 Safety Category Qualification Form**
- 2) **CSM F3 Safety Terms and Conditions**

The document **CSM F3 Safety Terms and Conditions** provides the information about Tata Power-Division /Odisha Discom safety System to the contractor. Contractor will submit the **CSM F2 Safety Category Qualification Form** with all relevant details and documents to Vendor Registration Initiator, which will in turn forward it to Safety Concurrence Group (SCG) for evaluation. The SCG will evaluate the details submitted by the contractor based

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on a predetermined criteria **CSM F4 Safety Potential Evaluation Criteria** for Vendor Registration and will determine the category (Category A/B/C/D) for which the contractor will be registered. As mentioned in the above criteria, a site visit may also be organized by SCG prior to registration under Category A and B. In case, the contractor does not qualify the safety criteria, the contractor will not be registered. However, he may apply afresh for registration after 6 months. Please refer **Appendix 1: CSM F1 Process Flow Chart for Vendor Registration.**

5.2 Bid evaluation

At the time of placing the Purchase Requisition (PR), Order Manager is required to declare the risk involved in the of the job (i.e., High Risk / Medium Risk / Low Risk jobs, based on the RPN in HIRA). If the Job is "High /Medium Risk" then RFQ will be attached with following documents:

- 1) **CSM F3 Safety Terms and Conditions**
- 2) **CSM F6 Safety Competency Assessment Form**
- 3) **CSM F8 PPE requirements**
- 4) **CSM F9 Site Safety Management Plan Job Specific Safety Requirement (Educational and Professional Qualification, Skill & Experience Manpower, Tools, and Tackles, e.g., man lifter, use of drone, use & availability of rescue kit, Work Methodology etc.)**

Otherwise the RFQ will be attached only with **CSM F3 Safety Terms and Conditions.** Contracts department will collect duly filled **CSM F6 Safety Competency Form** along with the bid. All other stakeholders will also put their efforts to get all relevant safety data during meeting / discussions with the vendor. SCG will evaluate the document as per the **CSM F7 Safety bid evaluation criteria.** If any specific condition related to Contract is required to be conveyed to the contractor, Site safety team will attach the same as Annexure for specific conditions of job and submit it to contract team along with safety bid evaluation form. Commercial bid of contractor will be considered for evaluation by contract team only if contractor is qualified in safety bid. Site Safety Management Plan, defining the complete procedure of executing the job at site will be signed by the contractor and SCG after mutual agreement. Contract will attach a copy of Site Safety Management Plan along with PO to the successful bidder. Please refer **CSM F5 Process Flow Chart for issuing RFQ and PO significant health and safety risk associated with it.**

5.3 Capability Building:

Before issuing gate pass:

For Odisha Discom: All Tata Power contractor and subcontractor workforce is required to

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attend Site Safety Orientation Training to receive a Safety Training Card, which is required to obtain a Gate Pass to the site, prior to entry. This Safety Orientation Course will be for duration of minimum half day. The information provided during the orientation will include, but is not limited to Job rules, personal safety, and conduct, Hazard's reporting, reporting of injuries, Emergency procedures, Safety Activities and Program including disciplinary measure and incentives, Critical safety procedure relevant to the job

For Tata Power Divisions: All Tata Power contractor and subcontractor workforce is required to attend L1 Training to receive a Safety Training Card, which is required to obtain a Gate Pass to the site, prior to entry.

For TataPower and Discom: Appropriate practical training such as SHE L1, L2& L3 is given to ensure that a jobholder, either supervisor or worker, is competent to do his/her job safely. The skill training is provided through TPSDI, and other agencies authorized by Tata Power on the list of 15 critical Safety procedures mentioned under safety procedures. Duration of course is as specified by Division/Discom. Contractor shall ensure that concerned workmen are provided with adequate training before he/she is allowed to execute the work. An evaluation test will be conducted after the completion of the training. Those BA employees, who meet the minimum required competency, will be provided with Certificate or Training /Competency Card, which is valid for 3 years, post which the employee must reappear for the assessment. If the workman is not able to qualify the assessment, he/she will be given 3 additional attempts to clear in 3-month time frame failing which he/she will not be allowed to work on Division/Discom any jobs. After expiry of Certificate or Training /Competency Card again one day recertification of L1, L2 and L3 skill training will be provided. R7.

The Contactor shall bear the conveyance and food expenses of his staff for attending training sessions and capability building sessions in new business-like Odisha Discom.

The Contactor shall bear the entire cost of L1/L2/L3, the costs towards training, salaries/wages, boarding and lodging of his staff for attending training sessions and capability building sessions. These trainings are offered on nominal chargeable basis payable by Contractor and rates shall be decided by TPSDI from time to time in case of training trough TPSDI. Generally, L0 is of one day, L1 is for 2 days for each critical procedure and L3 is for one day. Around Rs 700+GST is approx. cost /Day/Candidate. - R7

All contractors' workmen and Business Associate must attend Safety foundation course Training, all workmen engaged in critical jobs must clear and get certified for critical procedures applicable on his work like Work at Height and Electrical safety-LT & HT/LOTO&LC separately and all supervisors must complete supervisor certification in safety.

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Competency assessment of all critical workforce to be carried out for all who has taken L2 training. R7

5.4 Recognition to the Prior Learning in Safety-R7

If “Order Manager” recommends and “Head of the Safety Department of Discom” is satisfied with the safety knowledge and competency of the employee of contractor, a test may be conducted by Tata power Skill development Institute/ other recognized institute to assess the prior learning in safety. If employees of the contractors pass in such test, he will be exempted from appearing in SHE L1 training. This assessment is on nominal chargeable basis and rates are decided by TPSDI from time to time.

5.5 Safety performance retention(R7): A certain percentage of the bill value will be retained against every running bill as safety performance retention. The amount will be released with the last invoice or every six-month based on Safety Performance Score of contractors. The retention amount will be calculated based on contract value as below. (R7)

Risk Category-(R7)	Contract Value	Retention Amount (%)
<u>Very high/High risk job/ Medium Risk jobs</u>	Up to 10 Lakhs	2.5
<u>Very high/High risk job/ Medium Risk jobs</u>	10 – 50 Lakhs	2
<u>Low/Very Low Risk jobs</u>	10 – 50 Lakhs	1
<u>Very high/High risk job</u>	0.5 to 10 Cr	2
<u>Medium Risk jobs</u>	0.5 to 10 Cr	1.5
<u>Low/Very Low Risk jobs</u>	0.5 to 10 Cr	1
<u>Very high/High risk job</u>	>10 Cr	1.5
<u>Medium Risk jobs</u>	>10 Cr	1

- The safety retention amount will not be applicable if there is clause of Contract Performance Bank Guarantee (CPBG) and safety performance of contractor is as per desired criteria.
- If safety performance of contractor is not as per desired criteria (as per Appendix 10 – CSM F10 – Process Flow Chart for Safety Performance Evaluation and Appendix 11: CSM F11 - Safety Performance Evaluation Criteria- R7.) then safety retention percentage as mentioned in table above will be deducted from running bill.
- Bidder to give understanding that if there are any deductions required to be made for safety non-performance as per the Safety Performance Score, then Tata Power shall recover any such deductions against safety non-performance directly from the monthly bills / final settlement or it shall be within its right to recover such sum from accounts payable or the CPBG or the retention of the Contractor available with Tata Power for the said contract between the Contractor and Tata Power. R7

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For all other contracts retention amount is applicable as per table given above.

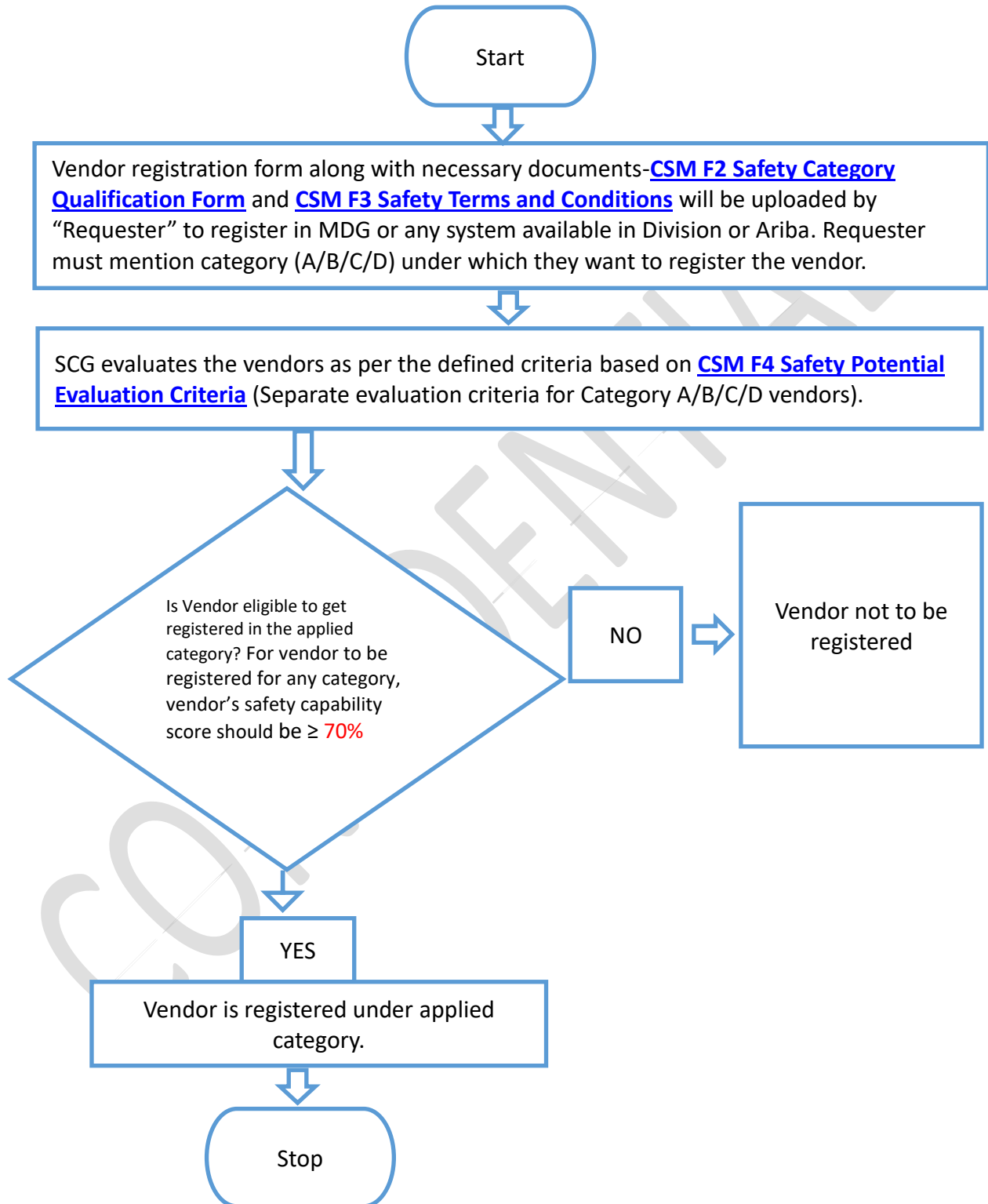
4. The retention amount against non-safety performance saved and Penalty will go to a separate Safety Improvement Fund.R7
5. For the contract value of more than Rs 1 Cr or contract duration more than 12 months, the retention amount shall be released half yearly based on safety performance. For all remaining contracts, the retention amount will be released with the final bill.
6. Safety performance bonus 1% (limiting to 50 lakhs) of the invoice value will be considered at the end of the job if the contractual safety performance score is 100%.

5.6 Safety Performance Evaluation:

During the time of job execution, regular site inspection will be carried out by the Tata Power-Division /DISCOM officials to evaluate monthly safety performance of the contractor as per **CSM F11 Safety Performance Evaluation Report** and monthly score will be maintained by the Order Manager. Violations will be dealt as per **CSM F12 Safety Violation Penalty Criteria**. Please refer **CSM F10 Process Flow Chart for Safety Performance Evaluation**. Percentage of retention amount is usually mentioned in safety terms and conditions.

1. During the progress of the work, concerned site Supervisor/Engineer/Safety representative will visit and inspect the work site regularly and evaluate the safety performance of the contractor based on matrix **Appendix 13** and apply the Consequence management policy/Penalty criteria as applicable.
2. The evaluation criteria include Lead Indicators such as percentage of workers trained in TPSDI, inspection of critical equipment. Lag indicators such as Fatalities, LWDC and man-days lost.
3. In case of job stoppage due to safety violations / unsafe observations at the site, no time extension from PO completion date shall be given to the contractor, if such delays are attributable to contractor.
4. In case of fatality, limb loss or loss of property, vendor must pay for liability, legal, statutory, and additional mutually agreed settlement charges imposed by the appointed committee by Division Chief/CEO. This charge is over and above the retention amount. The committee will finalize penalty amount based on factors such as advice by statutory authorities, contract value and impact of accident etc.
5. Order Manager, Head of Business and functional Chief have the authority to terminate the contract as per **CSM F12 Safety Violation Penalty Criteria** Through contract department.

Appendix 1: CSM F1 - Process Flow Chart for Vendor Registration



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Appendix 2: CSM F2 - Safety Category Qualification form

1. "Safety Category Qualification Form" is part of vendor registration form. It needs to be filled by the contractor at the time of Registration and should be submitted to Requester / Order Manager with all relevant documents.
2. The same will be evaluated by Safety Concurrence Group of the Division (SCG).
3. Information provided by contractor will be verified during site visit.

Safety Category Qualification Form

Please consider my application for

Category A Vendor: Vendor eligible to carry out Very High- and High-risk O&M/Project jobs

Category B Vendor: Vendors eligible to carry out technical jobs, classified as Medium / low risk

Category C Vendor: Vendors eligible for to carry out low or very low risk administrative and office job

Category D vendor: All Consultants, Medical Practitioners or vendors taking job from Tata Power and working from their own premises.

Name of the Vendor:							
Sr. No	Safety Information	Yes / No	Remarks				
1	Certified for i. ISO 45001, ii. ISO: 14001 iii. ISO: 9001 (ISO certificates to be issued from reputed accreditation agencies specified by Tata Power)	i. Y/ N ii. Y/ N iii. Y/ N	If Yes, Attach copy of the certification. If No, mention plan to get the certification.				
2	Safety Statistics for current and Last Three (3) Years - LTIFR - LTISR	Yes/No		Current Year	Year 1(Last FY)	Year 2	Year 3
			LTIFR				
			LTISR				

Name of the Vendor:																		
3	Any Compensation paid due to accidents during current and last three years?	Yes/No	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 5%;"></th> <th style="width: 20%;">Amount (INR)</th> <th style="width: 75%;">Manhour</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">Current Year</td> <td></td> <td></td> </tr> <tr> <td style="text-align: center;">Y1 (Last FY)</td> <td></td> <td></td> </tr> <tr> <td style="text-align: center;">Y2</td> <td></td> <td></td> </tr> <tr> <td style="text-align: center;">Y3</td> <td></td> <td></td> </tr> </tbody> </table>		Amount (INR)	Manhour	Current Year			Y1 (Last FY)			Y2			Y3		
	Amount (INR)	Manhour																
Current Year																		
Y1 (Last FY)																		
Y2																		
Y3																		
4	Any prosecution against you by statutory bodies/clients during last three years due to statutory violations, criminal negligence towards safety and dereliction of duty of care towards your employees? Is any case still pending against you?	Yes/No	If yes, give details. If no, give an undertaking that no case is pending against you and you have not been prosecuted by statutory bodies or clients.															
5	Do you have Safety Policy? Safety Principles? And Lifesaving Rules?	Yes/No	If yes, attach copy of the documents available.															
6	Do you have Safety training process?	Yes/No	If yes, attach safety training process and average training manhour of your employees for the last three years.															
7	Do you have a system for recording, reporting, and investigating all incidents or near misses?	Yes / No	If yes, show the incident statistics of last three years and implementation of CAPA.															
8	Do you have a disciplinary action program against your employees for violation towards safety rules and procedures?	Yes/No	If yes, show the records of disciplinary action taken the last three years.															

Name of the Vendor:			
9	Do you have a reward and recognition scheme for your employees who show exemplary safe behavior and contribute to overall safety improvement at site?	Yes/No	If yes, show the records of Reward and Recognition given during the last three years.
10	Do you engage in safety promotional activities?	Yes/No	If Yes, Show the proof of engagement in safety promotional activities.
11	Have you been recognized or awarded or rewarded by government bodies of clients for showing excellence in safety management in your jobs during last three years?	Yes / No	If Yes, Show proof.
12	Do you provide adequate quality of PPEs to your workmen?	Yes/No	If yes, please provide details of PPE Matrix and if required, samples for inspection.
13	Do you have Safety organization structure e.g., Safety Officers and Safety Committees?	Yes/No	If yes, attach copy of the safety organization structure, details of safety committees and safety professionals.
14	Name and address of sites where work is in progress or worked earlier	Yes/No	Site details to be attached for inspection by Tata Power-Division /DISCOM Officials.

Note: If you respond NO to any of the above questions, you can mention your plan to get the required documents.

I hereby confirm that the information provided above are true. I give my consent to be penalized as deemed fit in case any information given above are found to be false.

I will abide the general safety guidelines mentioned in the purchase order / work order and will ensure to prepare and follow site specific safe operating practices in consultation with the site-in-charge and safety professional. I will abide by penalty scheme in case of non-compliance.

Signature :

Name and Designation:

Stamp of Organization :

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Appendix 3: CSM F3 - Safety Terms and Conditions

(Attached as a separate document under the title CSM F3 – Safety Terms and Conditions)

Appendix 4: CSM F4 - Safety Potential Evaluation Criteria for Vendor Registration

At the time of vendor registration, vendor will be registered under 4 categories

- 1) **Category A**- Vendors eligible to carry out High risk Jobs
- 2) **Category B**- Vendors eligible to carry out technical jobs that are Medium/low risk
- 3) **Category C**- Vendors eligible to carry out administrative and office jobs
- 4) **Category D**- Outsourced Jobs / Consultants /Medical Practitioners / Suppliers etc

For vendors to be registered under **Category A/B**, a safety potential evaluation will be carried out based on following parameters. (Actual score is safety capability score)

Sr No	Description	Weight age (%)	Actual Score
1	Does the service provider have a valid 45001 Certification?	10	
2	During site visit check for safety adequacy at site	20	
3	Check the Safety statistics of Service provider (If available than 10 otherwise Zero)	10	
4	Check the trend LTIFR/LTISR for last 3 years (If less than 0.2 than give 10 Marks if between 0.2 to 0.3 than give 5 marks and otherwise Zero	10	
5	Has there been any prosecution / conviction for any Contravention regarding safety and Health provision under the factories Act/Electricity Act / BOCW Act and Rules framed there under? If yes Give Zero otherwise 10 Marks.	10	
6	Check the Safety orientation & training process of Service provider- Records of Safety training provided to safety officer/supervisor /workmen during last 1 year as percentage (%) of total employed by service provider ✓ Safety Officer: >80% of employees: 5 Marks, 50 to 79% of employee: 2.5 Marks and <50%: Zero. ✓ Safety supervisor: >80% of employees: 5 Marks, 50 to 79% of employee: 2.5 Marks and <50%: Zero. ✓ Workmen: >80% of employees: 10 Marks, 50 to 79% of employee: 5 Marks and <50%: Zero	20	
7	Check the organizational structure for safety professionals & engineers / supervisors. ✓ Check Availability of number of Safety Officers from government recognized institute as per workforce strength. 1 in 50 employees than 10 Marks, if 1 in 100 than 5 Marks otherwise Zero.	15	

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	✓ Check Availability of Qualified workforce from government recognised institute/TPSDI. 100% of safety officers qualified than 5 Marks, 50% TO 99% Than 2.5 Marks and if less than 50% than Zero Marks.		
8	Certified/skilled workers as a percentage of overall workforce	5	
	Total	100	

Evaluation Criteria for Category C

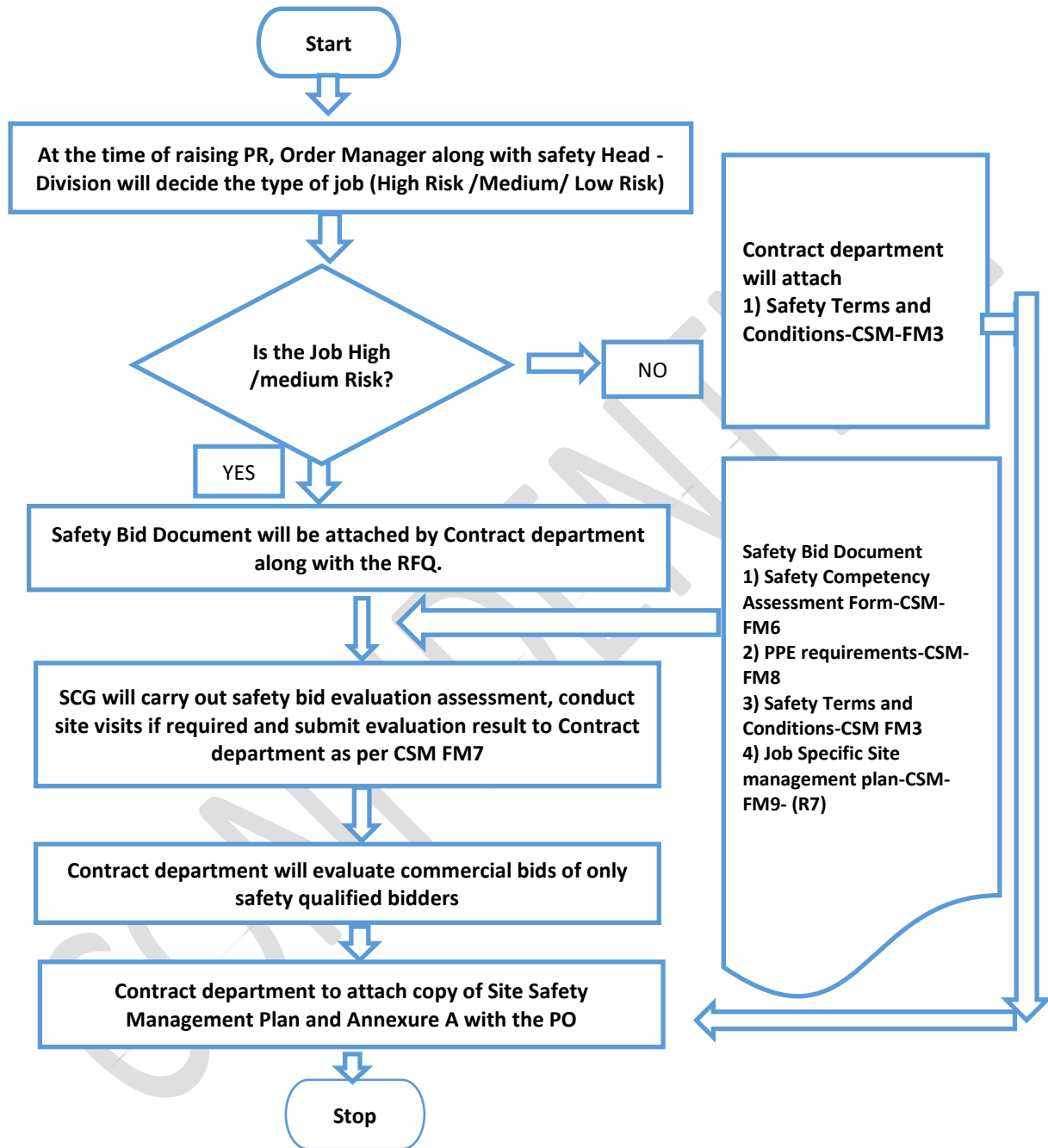
Sr no	Description	Weight age (%)	Actual Score
1	Does the contractor have a valid ISO 9001 certification?	40	
2	Check the Safety statistics of Service provider (If available than 10 otherwise Zero)	10	
3	Check the trend LTIFR/LTISR for last 3 years (If less than 0.2 than give 20 Marks if between 0.2 to 0.3 than give 10 marks and otherwise Zero)	20	
4	Has there been any prosecution / conviction for any Contravention regarding safety and Health provision under the factories Act/Electricity Act / BOCW Act and Rules framed there under? If yes Give Zero otherwise 10 Marks.	10	
5	Check the Safety orientation & training process of Service provider- Records of Safety training provided to safety officer/supervisor /workmen during last 1 year as percentage (%) of total employed by service provider ✓ Safety Officer: >80% of employees: 5 Marks, 50 to 79% of employee: 2.5 Marks and <50%: Zero. ✓ Safety supervisor: >80% of employees: 5 Marks, 50 to 79% of employee: 2.5 Marks and <50%: Zero. Workmen: >80% of employees: 10 Marks, 50 to 79% of employee: 5 Marks and <50%: Zero	20	
	Total	100	

Evaluation Criteria for Category D

Category D does not require any evaluation as it is for outsourced job outside the Tata Power company premise.

For vendor to be registered for any category, vendor's safety capability score should be $\geq 70\%$.

Appendix 5: CSM F5 - Flow Chart for Issuing RFQ and PO



Appendix 6: CSM F6 - Safety Competency Assessment Form (Template)

Name of the Vendor/Bidder:
 Name of the Sub Vendor (If job is given to Sub Vendor):
 Description of the Job:
 Request for Quotation (RFQ) No.:

Vendor/Bidder to mandatorily provide the below safety competency related information:

1. Proposed Manpower Deployment Schedule :-

Type of manpower	Qualification	Experience	Month 1	Month 2	Month 3
Project /AMC Manager(R7)						
Site In Charge						
Safety Manager						
Safety Officer						
Supervisors						
Technicians						
High Skilled workmen						
Skilled workmen						
Semiskilled workmen						
Lineman						
Helpers						
Drivers						
Unskilled						
<u>Others(R7)</u>						

Instruction to Bidders:

- i. Indicate the overall site manpower deployment schedule as above
- ii. Indicate direct or subcontracted employees by using color code given below:

Direct Bidder Employee – Green

Partly Direct / partly Subcontracted – Yellow

4.3.5 **Subcontracted – Red** *If subcontractor detail is not available at stage of Bid evaluation, then this can be agreed with Order manager or Engineer in charge before deployment Ensure that all sub-contractors follow the Tata Power Safety Procedure and agreed CSM F9 Site Safety Management Plan.R7*

- iii. Against each category, indicate minimum educational qualification and work experience

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- iv. Add rows to include other specialized manpower, if any.
- v. Extend columns to cover the entire duration of the proposed contract.
- vi. If the operation is in shifts, then indicate shift in charge and / or safety officers required for each shift operation.

2. List of Tools, Tackles, Machines and Equipment: -

Bidder/ Vendor to provide the list of tools, tackles, equipment **to be used during the job / project execution**. Bidder/Vendor to ensure that all the lifting tools and tackles, pressure vessels are duly certified by the competent person authorised by the Chief Inspector of Factories of the respective state prior to start of the job

Sr. No	Description of Tools / Tackles	Capacity / Rating	Quantity	Make	Year of manufacture	Remarks
1						
2						
3						
4						
5						
.....						

3. Safety Records:

Bidder to provide the details of fatalities and lost workday cases (LWDC), occurred in last three years (data to be provided for the last completed FY and preceding 2 years).

Description	Safety Data for current and Last 3 Years			
	Current Year	Year 1 (Last FY)	Year 2	Year 3
		20__ - __	20__ - __	20__ - __
Fatalities (Nos.)				
Lost Workday Cases (Nos.)				

In case of no fatalities, LWDC during any year, the form may be filled stating NIL against the respective year. Bidders are encouraged to also submit the RCA / incident investigation reports and the learning's implemented out of the above reported incidents

4. Job Safety Plan/ Method Statement:

Bidder to provide / enclose a detailed Site/Job Safety Plan along with a Method statement detailing the execution philosophy (how the bidder intends to execute the Job/Project), identifying all key activities which are required to be performed by the contractor at Site.

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Bidder to also list down all high-risk activities and provide the Hazard Identification and Risk Assessment (HIRA) for all such high-risk activities involved in the site work.

(Use Method Statement template attached as Appendix 9)

5. PPE Requirement -R7

Division/DISCOM Requirement	Bidders Response
The Bidder/Vendor shall ensure that all PPE of Approved standards as per CSM F8 – PPE Requirements shall be always available and shall be used by his employees with no exception whatsoever. Bidders to also ensure Standard PPE matrix of Tata Power to be followed for all activities.	
10% Buffer stock of PPEs to be provided by bidders at each circle to meet any contingency	
Bidder will ensure that sample PPEs to be submitted/approved by Safety Department along with EIC at the time of submission of Safety bids for evaluation In case bidder manpower found using substandard or any PPEs which are not approved by the Tata Power-Division /DISCOM representative, then Tata Power-Division /DISCOM will provide the same to manpower deployed at the cost of bidders.	

6. Vehicle Deployment: Bidders to provide details of all vehicles deployed during execution of work-(R7)

S. No.	Vehicle No.	Vehicle Type	Location	EV/CNG/Diesel/Petrol	Year	Whether CNG endorsed on RC

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7. Crane Deployment-(R7): Bidders to provide details of crane to be deployed during the execution of work as and when required. Bidders to provide approved new gen crane ACE Model SX150, ACE FX150 and Escorts Model TRX 1550.

SI No	Crane No	Location	Year

8. Training Records-(R7): Bidders to provide training records of employees deployed for the execution of work during last one year. These training includes OHS (Occupational Health and Safety) Training, Training on SOP/Work Procedures and Medical Emergency trainings imparted at their own facility, cost, and expenses. Bidders to provide the following details:

Tata Power-Division /DISCOM Requirement	Bidders Response
Training records of employees at their own facility, cost, and expenses for last one year	
Training facility available with Bidders	
Future road map for enhancing the competency of workforce	

9. Rewards and Recognition-(R7): Bidders to provide the details of process deployed in their organization for sharing and resolution of safety concerns raised by their employees. Also, bidders to provide the details of Rewards and Recognition process in their organization for safety to encourage the morale of their workforce.

10. Management System Certification: -

Sr.No	Certification	Yes / No	If Yes, Year of Certification	If No, Target date for Certification
1	ISO 9001			
2	ISO 14001			
3	ISO 45001			
4	Any other (Specify....)			

Note: Please attach certificates to support above. In case not accredited for above but applied for, application letters may be attached.

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Appendix 7: CSM F7 - Safety Bid Evaluation Criteria

The User must select whether the job is high /Medium Risk and long duration at time of raising the PR.

- 1) The decision whether job is "is high /Medium Risk "or not has to be made by order manager based on Risk involved (Risk Priority Number in HIRA) of the Jobs. An indicative list of high-risk jobs is attached as Appendix 14. The risk assessment will be done along with Division safety Head. R7
- 2) If a technical job is of low risk with estimated duration of the contract more than one year, the job should be treated as "long duration". R7
- 3) All Safety bids will be evaluated by Safety Concurrence Group. Structure of SCG will be declared by contract department with the assistance of Division / Discom safety. Safety team will audit bid evaluation process of a few selected jobs and Quality of evaluated safety Bids.
- 4) Records of jobs sent by for Safety Bid evaluation shall be maintained by Contract team in existing tracing sheet along with other jobs.
- 5) Safety bid evolution will be done by SCG within one working week. R7
- 6) Contracts / Division shall provide a list of regular Contractors participating in multiple tenders during the year for a one-time umbrella Safety Evaluation of Bidder (as against the specific Bid evaluation) by indicating the nature of the type of jobs / works which the BA usually participates in bidding. SCG shall evaluate such bidders for the requested works and on satisfying the evaluation criteria may be granted a Safety Pre-Approved status for the specific types of work (e.g., O&M of Boiler, Turbine, CHP, AHP, Turnkey EPC, Switchyard, Distribution Electrical Contract etc.) which shall be initially valid for a period of 1-year and shall thereon be extended further against revalidation / re-evaluation as required. R7
- 7) Business Associates having such Safety Pre-Approved status for the type / category of jobs shall be exempted from submission of Safety Evaluation Bid against each tender provided that their Safety Pre-Approved status is valid for the subject work / tender. R7
- 8) A suitable system shall be developed by Contracts to track the validity of such Safety Pre-Approved status of Bidder for timely renewal failing which the Safety Pre-Approved status shall cease and Bidder will thereon have to provide Safety Bids with each tender until such one-time approval is renewed. R7

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Safety Bid Evaluation will be based on following parameters.

Evaluation Criteria-(R7)

S. No.	Description	Max Marks	Criteria for evaluation
1.	Qualification and Experience of manpower	15	As per Clause No. 1
2.	Tools and Tackles to be provided by bidder	15	To be evaluated as per approved tool list of concerned departments.
3	PPE Requirements	5	To be evaluated as per approved PPEs standard and PPE Matrix specified in CSM
4	Job Safety Plan/ Method	15	To be evaluated as per as per SOP/WI/HIRA
5	Vehicle Deployment	5	Weightage will be given for CNG Vehicles with endorsement of CNG kit on RC/Electrical Vehicle
6	Crane and Mechanized heavy equipment Deployment	15	Date of manufacturing or running hours
7	Training Records	5	Training records to be evaluated with evidence and scoring to be done as per availability of records
8	Certificate Accreditation	5	ISO 9001-2.5 Marks ISO 45001- 2.5 Marks ISO14001- 2.5 Marks. Total Max 5 Marks for all Three
9	Safety Initiative for learnings implemented in accidents in organization and work force (Fatal / Non-Fatal)	15	Maximum 15 marks will be awarded for visible evidence in terms of safety initiative deployed based on learning of accident in organization and workforce in case of accident
10	Rewards and Recognition Process	5	Maximum 5 marks will be awarded for R&R process evidence
Total		100	

Safety Records (Lag Parameter)-(R7)

1.	Fatal Accident	(-) 10 Marks for each case with max of 15 marks	<p>For any fatality in Tata power /Other company in Current and last three years 10 marks will be deducted with maximum up to 15 marks.</p> <p>For new entrant BA, these marks will be deducted for Past safety records.</p> <p>If and BA found hiding such facts, then contract will be terminated immediately during the execution stage.</p>
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2	LWDC (Non-fatal)	(-) 5 Marks for each case with max of 10 marks	<p>For each LWDC (Non-Fatal) case in Tata power /Other company in Current and last years, 5 marks will be deducted with maximum up to 10 marks.</p> <p>For new entrant BA, these marks will be deducted for past safety records.</p> <p>If and BA found hiding such facts, then contract will be terminated immediately during the execution stage.</p>
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Final Qualifying Criteria

S. No.	Description	Max Marks	Criteria for evaluation
1.	Qualified Bidders	More than 70 marks	Marks Obtained. 60 Marks for New business-like Odisha Discom for one year from CSCC implementation date.

		Minimum Requirement	Weight age (%)	Score Obtained
Manpower	Safety Officer (1 per 500 workers) or as per requirement	<p>Qualification - Safety Officer shall possess recognized degree in any branch of engineering with practical experience in similar industries of Min 2 years and Advance Diploma In Industrial Safety by State technical board. (Each state government prescribes the qualification of safety officer.). Require knowledge of Local language.</p> <p>Experience- Minimum 2-year experience in relevant field as mentioned in the job in PR.</p>	5	
	Safety Supervisor (1 per work site up to max. 50 workers)	<p>Qualification- Supervisor shall possess ITI/ Diploma in relevant field. PDIS is desirable, but not mandatory. Require knowledge of Local language.</p> <p>Experience- Minimum 5-year experience in relevant field as mentioned in the job in PR.</p>	5	

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		<p>Training – Trained and certified by Tata power Skill development Institute or equivalent institute in relevant safety procedures.</p> <p>Note: On request of the contractor/Users - TPDSI should vet & certify the skilled & experienced Technician if Technical Qualification is not adequate.</p>		
	<p>Qualified Technician (Skilled workers as electrician, rigger, fitter, welder, cable jointer, line men etc.)</p>	<p>Experience- Minimum 2-year experience (or experience prescribed by state government) in relevant field as mentioned in the job in PR.</p> <p>Training – Trained and certified by TPDSI or equivalent institute in relevant safety procedures.</p>	5	
<p>Tools & Tackles</p>	<p>Equipment / Machines/ Tools & Tackles (lifting and shifting tools)</p>	<p>The list of Equipment /Machines / Tools and tackles to be used for job to be submitted by the contractor.</p> <p>Evaluation of the list will be carried out based on</p> <ol style="list-style-type: none"> 1) Suitability as per the relevant job 2) Make and age of the tools from authorized agencies defined by the user. 3) Certification by the competent authority of respective state. 	15	

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Appendix 8: CSM F8 - PPE requirements-(R7)

The Contractor shall ensure that the following PPE of Approved standards shall be always available and shall be used by his employees with no exception whatsoever. • PPE shall be conforming to BIS/DGMS/DIN specifications, in good condition and shall be comfortable to his employees, when used. This is indicative. For better clarification refer PPE procedure-TPSMS/GSP/PPE/023. as per safety terms and condition Appendix 3 CFM 3 in detail. R7

PPE Requirement

1	All contractor's employees at site	Safety Florescent Jacket (orange color), Safety helmet & safety shoes with composite or steel toe cap
2	Workers mixing asphalt, cement, lime / concrete	Safety goggle & protective Hand gloves and footwear, Nose mask.
3	Welders / Grinders/Gas cutters	Welding screen/goggles, safety shoes, leather hand gloves, aprons, leg guard
4	Stone breaker	Protective goggle, hearing protection, anti-vibration hand gloves and Protective clothing.
5	Electricians / Linemen	Rubber hand gloves <i>with correct voltage rating and expiry date normally one year from Manufacturing date-(R7)</i> & Electrical resistant shoes, Safety helmet with induction strip to alert about presence of voltage for those linemen who climb the poles or work on electrical equipment
6	Workers working at a height of 1.8 Meter or above.	Double lanyard full body harness, fall arrestor and safety net made of reinforced nylon fiber ropes firmly supported with steel structures, Work positioning attachment


PPE Type and Testing Frequency






Sl. No.	Name of PPE	IS / EN Standard	Testing Frequency	Remarks
01	Leather Safety Shoes (Color – Black) with PU toe cap.	IS:15298 (Part-2)	Monthly and visual check every day for any crack or damage in the leather or sole.	

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02	HDPE Safety helmet with chin strap and ratchet type for adjustment for non-Electrical work	IS:2925-1984	Monthly and visual check every day for any crack in shell.	
03	Full body harness (Safety belt)	EN 361	Monthly and visual check every day of the bends and the harness.	
04	Electrical Safety Gloves	EN: 60903 CE marked	Weekly and visual check for any crack and blow test before every work.	Manufactured not beyond 12 months.
05	Full face visor with safety helmet	EN: 166 CE marked (Visor)	Monthly and visual check every day for any crack in shell.	Clear acrylic visor attached with safety helmet.
06	Fireproof jacket for chest protection		Monthly and visual check every day.	
07	Safety helmet with induction Strip for linemen and working for electrical work-Class E	EN 397/2012	Monthly and visual check everyday	Induction Strip alerts presence of voltage
08	Shorting clamps, crocodile clamps, Discharge Rod and Neon tester		Monthly and visual check everyday	For discharging the residual voltage and test before touch

Pictorial View of PPEs for reference purpose

Sl. No.	Name of PPE	IS / EN Standard	Picture
01	Leather Safety Shoes (Color – Black) with PU toe cap.	IS:15298(Part-2) and with test report of electrical resistance.	

02	<p>HDPE Safety helmet with chin strap and ratchet type for adjustment for Nonelectrical work and electrical work</p>	<p>IS:2925-1984/ EN 397/2012</p>	
03	<p>Full body harness (Safety belt) The straps at shoulder and thigh shall have full pad for comfort. The back shall be so designed that harness straps do not tangle with each other.</p>	<p>EN 361:2002 EN 358 : 2000 IS: 3521:1991/2002</p>	
04	<p>Electrical Safety Gloves – Composite type Soft electrical gloves as per size of individual.</p>	<p>EN: 60903 CE marked</p>	
05	<p>Full face visor with safety helmet</p>	<p>EN: 166 CE marked (Visor)</p>	
06	<p>Fireproof jacket for chest protection</p>		
08	<p>Reflective jacket to each workman</p>	<p>As per Tata Power standard</p>	

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These pictures are indicative. Actual product may vary.

Note:

1. Any other Personal Protection Equipment required beyond above list will be according to BIS or EN Standards.
2. All Personal Protection Equipment will be checked by the engineer in-charge or SAFETY group of company.
3. Safety Representative of the BA must maintain the record of the availability, condition and checking of the PPEs.
4. All tools required as per the contract must be according to respective IS / EN standards.
5. Company may revise or add the above list of PPE and their specifications as and when feel necessary. The information about new specifications /models will be circulated by the Engineer In-charge (EIC), which shall adhere by the business associated in the shortest possible time. The EIC shall issue a memo / instruction to BA with timeline for implementation. Any delay will be treated as non- compliance / safety violations.

Appendix 9: CSM F9 - Site Safety Management Plan / Method Statement

Site Safety Plan / Method Statement (Template)

This Method Statement describes the specific safe working methods which will be used to carry out the described work. It gives details of work procedure with control measures to counter health and safety issues related to this work. The listed content of this Method Statement can be changed/modified subjected to job scope / specifications, but task specific method statement once finalized & approved, that should not be modified during work execution without permission from the approving authority.

Project/Job Name		
Scope of work: -		
Drawing References: -		
Detail of Sub contractors involved: -		
Method Statement Prepared By: - Designation: - (e.g., Site Manager)	<u>Signature</u>	<u>Date</u>

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1.0 Introduction (*Describe purpose of the work, give details of type and scope of work being carried out*)

2.0 Location of Work (*Give site address and precise location on site where work is to be carried out*)

3.0 Safety Document /Specific Approval Required (*Details of any safety documents or specific approval i.e., Client specific approval required to undertake the work*)

5.0 Role & Responsibilities of Personnel/Parties Involved in activities: *Clearly define roles and responsibilities of all personnel involved in activity i.e., Site management staff including subcontractors' staff, Project Manager/Site Manager of principal contractor, Sub Contractor Site Manager, Project Engineer, Safety officer, Competent Supervisory Staff etc.)*

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6.0 Working/Activity Description: - *It is important that all operatives should have clear idea of those operational sequences and responsible supervisor must verify their competency prior to their engagement in operation.*

6.1 Pre-Working Checks

6.2 Resources (Equipment, tools including manpower) Details *i.e., Equipment and Tools, specific operational equipment, test kits, lifting resources, Details of materials to be used in operation, including any reference to COSHH assessments in case of use of any chemicals, Details of the manpower allocated to the task, e.g., titles, qualifications, competences, direct manpower, contractors. Details of plant, tools, and equipment to be used for the work, including the availability of relevant statutory documents, checks or inspections etc. Details of fencing, barriers, cones, chains, dangers notices, warning signs etc.*

Tools required for work:

Sr.No	Tools /Equipment /Machine	UOM	Required Qty.	Remark
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				

6.4 Operational Sequence of work: - *Full description of the work, setting out the methodology in a sequential manner, including any reference to any identified operational restraints. Also refer here sec. 5.0 responsibilities part for every step of work sequence).*

S. No	Activity	Details of job sequence	Risk Involved	Control Checks
1.				
2.				
3				
4				
5.				

6.7 Final Checks & restoration of work area after completion of work: *Those checks to be carried out by responsible supervisor in witness of his line hierarchy by use of specific checklist of certain operational checks and once those completed satisfactory, PTW (if applicable) to be closed and isolation arrangements to be restored by removing barricades/cautionary tags.*








7.0 Task Specific Hazards: - *Refer to Task Specific Risk Assessment and attach in appendix*

Attachment: - Specific Risk Assessment

In addition, please provide below control measures in risk assessment *(as applicable)*.

Fall Protection Measures: (Where Work at height cannot be avoided)	
Control Measures for Electrical Hazards	
Others Hazard if any (please provide details)	

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Hazardous Substances to be used in job: (Attach MSDS if required)	 Acute Toxic	 Health Hazard	 Corrosive	 Dangerous For the environment	 Oxidising	 Highly flammable	 Explosives
	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	Y/ N

7.0 Emergency Provisions: *Relevant operational possibility of a programme in the case of emergency situation i.e. electrical supply restoration. In addition, emergency response provisions i.e., first aiders, firefighting, and first aid arrangements, nearest onsite/offsite emergency response also to be considered during emergency planning.*

8.0 "5S issues" / Waste Disposal/ Housekeeping and Environmental issues: *Details waste disposal processes and or housekeeping activities, Details of environmental impacts and control measures.*

9.0 Personal Protective Equipment (PPE): *Tick on PPE requirements for the task/Job*

Safety Helmet / Hard Hats		Safety Shoe / Safety Boots	
Gum Boot		Double Lanyard Safety Harness with work positioning attachment	
Electrical Hand gloves		Other hand gloves	
Eye protection		Respiratory protection	
Ear Protection		Electrical Arc flash suit	
Chemical resistant suit		Reflective Jackets	
Any Other		Any Other	

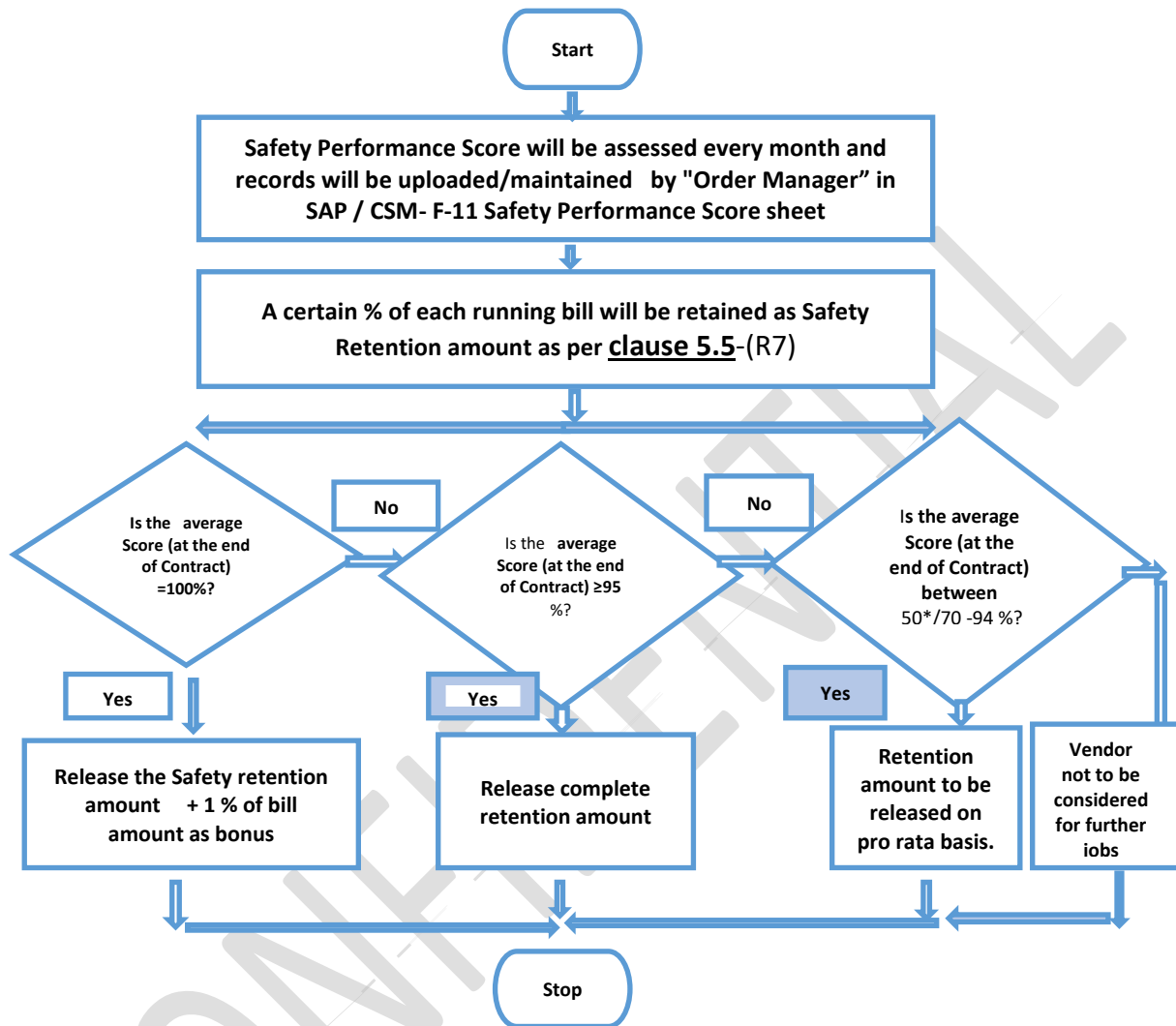
10.0 First Aid facilities and Nearby Hospitals Details

- Name of On Site First Aider
- First Aid Box Location
- Location of nearest hospital

11.0 Occupational Health, Fitness and COVID-19 related Preparedness:

- Please give a brief writeup / methodology of your organization's plan to avoid impact of the COVID-19 pandemic at Tata Power working site.
 - Please give brief details of occupational health and hygiene related interventions planned by your organisation to ensure good health and fitness of workforce at Tata Power site.

Appendix 10 – CSM F10 – Process Flow Chart for Safety Performance Evaluation



* For New Business such as Odisha Discoms-(R7)

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Appendix 11: CSM F11 - Safety Performance Evaluation Criteria
Safety Performance Evaluation Report- CSM F11

Sr. No	Parameter	Unit of Measurement	Target	Weight age	Actual Performance	Actual Score
Lead Indicator						
1	% of Employee certified in TPSDI/Authorized agency	%	100%	20		
2	Monthly inspection and replacement of damaged Personal Protective equipment -PPE by_contractor	%	100	10		
2	Monthly inspection and replacement of damaged Critical Equipment, lifting Tools & Tackles and hand tools used at site by_contractor	%	100%	15		
3	Condition of critical tools, tackles, and equipment to be checked by order manager or Engineer in Charge.	%	100%	10		
4	Safe Disposal of Waste generated (Designated way) Records of Waste generation (Hazardous waste, oily cotton waste, E Waste) No effluent to drain or discharge to ground	Yes / No	Yes	10		
Lag Indicator						
1	Number of Fatalities	No	0	15 / 20*		
2	Number of Lost workday case (LWDC) (reportable)	No	0	10 / 15*		
3	No of Recordable Cases (Exclude Fatalities and LWDC)	No	0	5 / 0*		
4	Man-days Lost	Man-days	0	5 / 0*		
					Final Score	
					Invoice Value	
					Amount to be released	

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Safety Performance Evaluation Criteria

Lead Indicators

		Target			
1	% of employees certified in TPSDI/Authorized agency	100%	51% to 99%	50%	<50%
	Score	20	Pro-rata	10	0
2	Monthly inspection and replacement of damaged Personal Protective equipment - PPE by contractor	100%	99% to 50%	<50%	
		10	5	0	
2	Monthly inspection and replacement of damaged Critical Equipment, lifting Tools & Tackles and hand tools used at site by contractor	100%	99% to 50%	<50%	
	Score	15	7	0	
3	Condition of critical tools, tackles and equipment <u>to be checked by order manager</u>	100%	<100%		
	Score	10	0		
4	Safe (designated way) Disposal of Waste generated, Records of waste (Hazardous Waste – Oily cotton waste – E- waste etc.) generation No effluents to drain/discharges to ground	YES	NO		
	Score	10	0		

Lag Indicators

		Target			
1	Number of Fatalities	0	>0		
	Score	Score	15 / 20*	0	
2	No of LWDC - Reportable	0	>0		
	Score	Score	10 / 15*	0	
3	No of Recordable Cases (Exclude Fatalities and LWDC)	0	1	>1	
	Score	Score	5 / 0*	5	0
4	Man-days Lost	0	1-5	>5	
	Score	Score	5 / 0*	5	0

* For New Business such as Odisha Discoms-(R7)

Appendix 12: CSM F12 - Safety Violation Penalty Criteria

Major Violations and Escalation matrix--(R7)

Consequence of safety violation observed not related to incidents or accidents		Violations				
Sl. No.	<u>Safety Violation</u>	1st	2nd	3rd	4th	<u>Subsequent violation</u>
1	Working without required PPE such as Helmet/gloves/safety shoes/Safety harness etc.	A	B	C	D	Will Attract the same penalty as 4th violation
2	Working without proper tools and tackles	A	B	C	D	
3	Poor or bad condition of Crane/Hydra/Vehicle and/or Incompetent driver and/or helper).	B	C	D	E	Termination of Contract and blacklisting after repetition of violations (3 to 4 times as the case may be)
4	Improper Working at Height	B	C	D	E	
5	Untrained /unauthorized workman engaged in high-risk jobs	B	C	D	E	
6	Violation of SOP or WI or LOTO	C	D	E		
7	Working without PTW or LC / Without authorization / Without creating Safe Zone	C	D	E		

Legend	Action to be Taken	Responsibility	Penalty (INR)	Repeat Violations
A	Levy of Penalty	Order manager / EIC	5000	The no. of repeat violations shall be calculated cumulative during the contract period, not on a monthly basis
B	Memo to BA and Levy of Penalty	Order manager / EIC	10000	
C	Memo to BA and Levy of Penalty	Order manager / EIC	25000	
D	Memo to BA and Levy of Penalty	Order Manager / EIC	50000	
E	Memo to BA, Levy of Penalty, Termination of Contract, Blacklist	Order Manager / EIC	100000	

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Other Violations and Penalty

Penalty shall be imposed on the contractors under the following circumstances for breaching the contractual agreements. The list is not exhaustive, but indicative.

Sl. No	Description of Violation	Severity	Penalty (INR)
1.	Unhygienic/Bad condition of PPE	2	500
2.	Unsafe Act/Condition of Severity 4	4	4000
3.	Unsafe Act/Condition of Severity 5	5	5000
4.	No Earthing of Electrical equipment	5	5000
5.	Working without efficient supervision	4	4000
6.	Non-reporting of incidents	3	3000
7.	Starting the job without Toolbox Talk	4	4000
8.	Electric cable tied with metal wire / Use of damaged electrical cable / Use of two core cable	3	3000
9.	Rubber mat not available in front of electrical panels.	3	3000
10.	Inserting naked wire into the socket instead of a plug	5	5000
11	Inflammable materials stored inside PSS/FCC/Distribution Room	5	5000
12	Water accumulation found near electrical panels / equipment	5	5000
13	Grinding wheel/ Coupling/ Piling winch/other rotating parts without guard	4	4000
14	Inadequate illumination of working area	3	3000
15	Bringing inside PSS/FCC or any other work area any chemicals without approval.	5	5000
16	Loose materials in work area which can fall down or fly during a storm	5	5000
17	Misusing emergency facilities like fire hydrant line/ hose box/ spray system/ eye wash etc.	3	3000
18	Entering restricted areas like switch yard, hazardous material storage room etc. without authorization	3	3000
19	Not using 24 V lamp inside confined spaces	3	3000
20	Bypassing/overriding safety interlocks	5	5000
21	Working besides road without proper barricading and monitoring of traffic	5	5000

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22	Smoking in prohibited area (Closed Go-downs, Storage of flammable material, Storage of Gas cylinders, PSS , Offices etc.)	3	3000
23	Improper stacking of materials in Storage Yard	4	4000
24	Sleeping at workplace	3	3000
25	First aid box not available / in locked condition	2	2000
26	Appointment of subcontractor without his Safety Bid Evaluation and/or without the permission of engineer in charge or Order manager.	5	5% of order value
27	<p>Bad Housekeeping with respect to TPSMS/GSP/GHK/022</p> <ul style="list-style-type: none"> • 1st Instant • 2nd instant • 3rd instant • 4th instant • Subsequent instants 	2	<ul style="list-style-type: none"> • 1000 • 2000 • 5000 • 10000 • 10000
28	<p>Violations related to vehicles with respect to TPSMS/CSP/RSP/015.</p> <ul style="list-style-type: none"> • Parking without wheel choke • Parking in undesignated area • Heavy vehicle without helper or co-driver • Seat belt not available / not used • Driver without license • Heavy vehicles without reverse horn • Using mobile phone while driving • Lights/mirrors not working /broken 	3	1000 per each violation
28	<p>Violation in Gas cutting and Gas cylinder handling</p> <ul style="list-style-type: none"> • Cylinder valve without guard • No flashback arrester • Leaky DA/Oxygen hose • Cylinders not kept in secured manner • Cylinder trolley not available • Cylinders are transported by manual rolling 	5	2000 per each violation
29	<p>Violations in Lifting Operations w.r.t. to TPSMS/CSP/HEMS/005</p> <ul style="list-style-type: none"> • Hook latch missing • Load raised or swung over people or occupied areas of building • Persons standing within the swing area of the crane • No barricading of crane working area • Use of damaged lifting tools and tackles 	5	2000 per each violation

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	<ul style="list-style-type: none"> Lifting tools and tackles not tested / Test certificate expired Crane operator without proper license Angular loading Lifting / shifting heavy material without guide rope Using mobile phone during loading and unloading jobs 		
30	<p>Violation in Scaffolding work w.r.t. to TPSMS/CSP/SCAF/007</p> <ul style="list-style-type: none"> Unstable scaffolding/nonstandard Scaffolding in use Handrails/mid rails/toe guards missing Safety harness not anchored on fixed structure Opening found in working platform 	5	2000 per violation
31	<p>Violation in Excavation Work w.r.t. to TPSMS/CSP/EXS/002</p> <ul style="list-style-type: none"> Loose material falling into excavated pit Water logging in excavated pits / trenches Inadequate or no barricading Undercut / cave in found on sides of excavated pits 	4	2000 per violation
32	Caution boards, danger signs (luminescent /red) along with emergency contact number are not found displayed.	3	3000
34	Spillage of hazardous material/chemicals during transportation	4	4000

Penalty for Incidents / Accidents-(R7)

Consequence of incident / Accident		Incident / Accident				Action Required
Sr.No.	Type of Injury	1st	2nd	3rd	4th	
1	Major Injury (Bone injury or burn or hospitalization >48 hrs.) Non-fatal	F	F	G	G	Intolerable
2	Major Injury (Bone injury or burn or hospitalization >48 hrs.) Non-Fatal (Two or more non-Fatal in one event)	G	G	H		
3	Single fatality	G	H			
4	Multiple fatalities (Two or more fatalities in one event). Anywhere in Tata power.	H				

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Legend	Action to be taken	Responsibility	Penalty (INR)	The no. of violations shall be calculated cumulative during the contract period for all contracts in SBU, not on a monthly basis
F	Memo to BA and Levy of Penalty	Order Manager/Engineer in charge	200000	
G	Memo to BA and Levy of Penalty	Order Manager/Engineer in charge	500000	
H	Memo to BA, Levy of Penalty, Termination of Contract and Blacklisting the BA	Order Manager/Engineer in charge	1000000	

Appendix -13: CHECKLIST TO BE USED DURING SITE VISIT

Checklist to be used: During site visit to check the adequacy Safety systems.			
		Observation	Score* (1-5)
1	Check the adequacy of safety policy and Safety Management system of the contractor.		
2	Does the contractor have written down safety procedures?		
3	Check the records of Near miss, unsafe act, unsafe conditions, and incidents.		
4	Check the organization setup to implement the safety systems at site (safety officer, safety supervisor)		
5	Check whether safety meeting and toolbox talk carried out regularly and records maintained or not.		
6	Is the process of incident investigation adequate or not?		
7	Verify incident reporting and recording system		
8	Check the usage of equipment/tools and tackles.		
9	Check for housekeeping at site		
10	Check the use of PPEs and general behavior of workforce towards safety		
	Total Score		
	Site Visit Score		

Score*- rating on the scale of 1-5 to be given based on the observations on site. Score of 1 is the lowest and core of 5 is the highest.

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Appendix 14: Indicative List of High-Risk Jobs

Indicative high-risk jobs are given below. This is not an exhaustive list. This is only indicative.

Sl. No.	Jobs
1	Transmission Line Tower Erection on columns, near live lines, In congested areas, In creeks, In the Sea.
2	Conductor Stringing on Tower Using Tensioner & Puller in the area such as Line Crossing, Near Live lines, Congested Areas, Road Crossing, Bridge Crossing, Railway line Crossing, In creeks, In the Sea
3	Cable Pulling by Using winch Machine in City and Rural Areas
4	Hot Washing of HT and Extra HT lines, Towers and switchyards equipment
5	Maintenance / Testing and Replacement of High Voltage (33 KV etc.) Switchyard equipment
6	Installation of Lifts
7	Installation of EOT Cranes
8	Tower Dismantling
9	Working on H Frame /Pole mounted Transformers
10	Excavation in operational Area having power cables in receiving station
11	Identification and spiking of cable / disconnection of cables from poles
12	Working on Electrical Panels
13	Working on live electrical switch yard, Material handling and equipment repair/installation.
14	All activities that require climbing on a pole/structures/Towers/Transformers
15	Cable laying and termination jobs
16	Excavation beyond 5 feet near existing building and structures
17	Working in confined Spaces
18	Stringing of new conductors over poles

ANNEXURE XI

Quality, Safety, Occupational Health & Environment

TPCODL

TP CENTRAL ODISHA
DISTRIBUTION LIMITED

(A Joint Venture of Tata Power and Government of Odisha)



Integrated Management System Policy

Quality, Safety, Occupational Health, Environment

We at TP Central Odisha Distribution Limited are committed to deliver world class service and reliable power through an energised workforce leading to ever increasing satisfaction of its customers, environmental protection and safe and healthy working condition.

This will be achieved by:

- Complying with all the requirements of ISO-9001, ISO-14001 and ISO-45001 management system standards through engaged workforce
- Complying with applicable Legal requirements
- Continually improving Quality, Environment and Occupational Health & Safety Performance
- Ensuring Environmental protection through Prevention of Pollution
- Conservation of Natural Resources
- Creating a work environment which encourages team work, safe work practices, learning and innovation
- Providing safe and healthy conditions that prevents work related injury and illness
- Eliminating hazards and reducing OH&S Risk
- Ensuring participation and consultation of workers

This policy will be made available to interested parties.

Date: 1st June, 2023

A handwritten signature in black ink, appearing to read 'Arvind Singh', is written over a white background.

Arvind Singh
Chief Executive Officer