



TP CENTRAL ODISHA DISTRIBUTION LIMITED
(A Tata Power & Odisha Govt. joint venture)
Purchase Department

2nd Floor, IDCO Tower, Janpath Bhubaneswar, Odisha 751022

NIT No.: TPCODL/P&S/83/2020-21

OPEN TENDER NOTIFICATION

FOR

Rate Contract for Grid Audit

Tender Enquiry No.: TPCODL/P&S/83/2020-21

Due Date for Bid Submission: 31 August 2020 [15:00 Hrs.]

TP Central Odisha Distribution Limited

(A Tata Power & Odisha Government joint venture)

Purchase department

2nd Floor, IDCO Towers, Janpath, Bhubaneswar-751022



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NIT No.: TPCODL/P&S/83/2020-21

Process for bidding in the tender

Bids are to be submitted only through online e-procurement platform, ARIBA. Any other form of bid submission will not be accepted. Online Link for submission of bid through ARIBA will be sent only after confirmation of payment of tender fee from bidder.

Following steps to be done before last date and time of payment of tender participation fee.

1. Eligible and Interested bidder to send an email to TPCODL attaching duly signed and stamped letter on Bidder's letterhead, with following details, expressing their intend to bid against above tender:

(a) Tender Enquiry number,(b) Name of authorized person (c) Contact number
(d) e-mail id (e) Details of submission of Tender Participation Fee(f) GST Number

2. Non-Refundable Tender Participation Fee, as indicated in tender document, to be submitted in the form of direct deposit in the following bank account and submit the receipt/details of online payment as mentioned in 1(e) above.

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

E-mail with necessary attachment of 1 and 2 above to be send to
<asish.karmakar@tpcentralodisha.com> with copy to <purchase@tpcentralodisha.com> before
“Last date and time for payment of Tender Participation Fee”.

3. On receipt of the document as mentioned in sl no 1 and 2 above and after due verification of the same, ARIBA link for participation in the tender will be sent to bidder from ARIBA system.



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1.0 Event Information

1.1 Scope of work

Open Tenders are invited from interested Bidders for entering into a Rate Contracts valid for a period of **1 Year** as defined below :

Line Item no.	Description	EMD Amount (Rs.)	Tender Fee incl GST (Rs.)
1	Rate Contract for Grid Audit	2.0 Lac	5,000

1.2 Availability of Tender Documents

Non-transferable tender documents may be downloaded by interested eligible bidders from tender section of our website <https://www.tpcentralodisha.com>. Same will also be sent to bidder through ARIBA e-procurement system after payment of tender fee as mentioned in "Process for bidding" in the tender above. Bidder can participate in the tender only through ARIBA e-procurement platform.

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

1.3 Calendar of Events

(a)	Date of availability of tender documents from TPCODL Website	From 10 August 2020
(b)	Last date of payment of tender fee for getting ARIBA link for bid submission	22 August 2020, upto 15:00 Hours
(c)	Date & Time of Pre-Bid Meeting (If any)	Not applicable due to COVID-19. Queries to be answered through email.
(d)	Last Date of receipt of pre-bid queries through email, if any	22 August 2020 up to 17:00 Hours
(e)	Last Date of Posting Consolidated replies to all the pre-bid queries as received	26 August 2020 up to 17:00 Hours
(f)	Last date and time of submission of bids through ARIBA	31 August 2020 up to 15:00 Hours

1.4 Mandatory documents required along with the Bid

- 1.4.1 EMD of requisite value and validity.
- 1.4.2 Tender Fee deposit document.
- 1.4.3 Requisite Documents for compliance to Qualification Criteria mentioned in Clause 1.7.
- 1.4.4 Drawing, Type Test details along with a sample of each item as specified at Annexure I (as applicable)
- 1.4.5 Duly signed and stamped 'Schedule of Deviations' as per Annexure III on bidder's letter head.
- 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')



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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. Bidder should have average annual turnover of Rs 2.0 Cr. In last 3 financial years. Copy of audited P&L Account to be submitted in this regard.
2. Bidder should have executed at least two similar work for a utility in last 5 years successfully for cumulative contract value of >2 crores
3. Bidder shall submit performance certificate from two utilities / principle contractor for work performed in last 5 years

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, TPC 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 marketplace for a length of time, depending upon the seriousness of the violation. Examples of violations include, but are not limited to:

- Failure to honor 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



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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.
- The bids will be evaluated commercially on **Overall BoQ basis lowest cost** as calculated in Schedule of Items [Annexure I]. TPCODL reserves the right to split the order line item wise and / or quantity wise, among more than one Bidder. Hence all bidders are advised to quote their most competitive rates.
- Bidder has to mandatorily quote as per schedule of item [Annexure-I]. Failing to do so TPCODL may reject the bid.

NOTE: In case of a new bidder not registered, 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.

3.0 Submission of Bid Documents

3.1 Bid Submission

Bidders are requested to submit their bid online through ARIBA e--procurement platform. Pre-bid query, if any, is there, needs to be mailed at the email addresses mentioned in clause number 3.2 below and same will be replied by TPCODL through email.

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 / Bank Draft /Bankers Pay Order/Online Payment (issued from a Scheduled Bank) favoring 'TP Central Odisha Distribution Limited" payable at Bhubaneswar. The EMD has to be strictly in the format as mentioned in General Condition of Contract, failing which it shall not be accepted and the bid as submitted shall be liable for rejection.

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, clause no. 1.7 above.
- b) Technical literature/GTP/Type test report etc. *(if applicable)*
- c) Qualified manpower (if available)
- d) Testing facilities in India *(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.



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- g) Quality Assurance Plan/Inspection Test Plan for supply items *(if applicable)*
- h) Mandatory documents as mentioned in clause number 1.4 above.

The technical bid shall be properly indexed and scanned copy of the same is to be uploaded in ARIBA e-procurement platform.

THIRD PART: "PRICE BID" shall contain only the price details and strictly in format as mentioned in Annexure I 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.

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

EMD
"Rate Contract for Grid audit"

Online payment details of EMD has to be uploaded in ARIBA e-procurement platform, during submission of online bid, by printing the same in bidder's letter head with company seal and signature.

Bids have to be mandatorily online through ARIBA. No other form of bid submission will be accepted. Please mention our Enquiry Number:- XXXXXXX in your bid and bid should be addressed to :

Chief (Procurement & Stores)
Tata Power Central Odisha Distribution Limited
2nd Floor, IDCO Towers, Janpath, Bhubaneswar-751022

Bid shall also bear the Name and Address of the Bidder.

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.

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.



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3.2 Contact Information

All the bidders are requested to submit their pre-bid queries (if any) against this tender through email 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:

Name: Mr. D.P.Das, Sr.GM, Contact No: 9438297571

E-Mail ID: deba.das@tpcentralodisha.com

Name: Mr. Asish Karmakar, HOG-Procurement, Contact No: 8768455566

E-Mail ID: asish.karmakar@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 for each item & total price with taxes, duties & freight up to destination at various sites 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 can modify their bid in ARIBA till the expiry of bid submission due date and time. Bidder is not allowed to modify or withdraw its bid after expiry of bid submission due date and time. 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.



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

- Banker's Cheque/ Demand Draft/ Pay order drawn in favor of TP Central Odisha Distribution Limited payable at Bhubaneswar.
- Online transfer of requisite amount through NEFT/ RTGS.

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 TPC.

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

Bids will be opened at TPCODL Office, Bhubaneswar. All tender bids shall be opened internally by TPCODL. Presence of any bidder will not be allowed during bid opening process. Technical bid must not contain any cost information whatsoever.

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.

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.



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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.

4.5 Price Bid Opening

Price bids internally by TPCODL without the presence of any bidder representative. 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.

4.7 Reverse Auctions

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 as Annexure VI of this document. The bidders along with the tender document shall mandatorily submit a duly signed copy of the Acceptance Form attached as Annexure VI as a token of acceptance for the same.

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 (if any)



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5. Technical Specifications (Annexure II)
6. Inspection Test Plan (if any)
7. Acceptance Form for Participation in Reverse Auction (Annexure VI)
8. General Conditions of Contract (Annexure VII)

7.0 Post Award Contract Administration

7.1 Special Conditions of Contract

- After finalization of tender, Rate Contract shall be issued on successful bidder with a validity period of **One Year**. Prices shall remain firm till validity of issued rate contract. Within the validity of rate contract and as per requirement of material, release order shall be issued time to time.
- Business Associate (BA) shall submit applicable Contract Performance Bank Guarantee (CPBG) as per GCC within 30 days of issuance of rate contract. CPBG applicable shall 5% of Rate Contract Value. PBG submitted, shall be released after completion of applicable contractual period plus one month.
- Completion period against each release order will be mutually agreed with user department.
- TPCODL shall short close the issued Release Order / Rate contract, in case of any quality and performance issues.
- Any change in statutory taxes, duties and levies shall be borne by TPCODL.
- All other terms and conditions of TPCODL GCC shall be applicable.

7.2 Drawing Submission & Approval: Not applicable

7.3 Delivery Terms

All activities under this job will be completed within 6 months of issue of work order. (2months for phase-1, 3months for Phase-2 and 1 month for phase-3.)

7.4 Warranty Period: Not applicable

7.5 Payment Terms

Business Associate (BA) shall submit the Bills/ Invoices in original in the name of TP Central Odisha Distribution Limited (TPCODL), duly certified by authorized officer of TPCODL, to Invoice Desk and same shall be paid within 45 days from date of receipt of invoice at TPCODL's end.

7.6 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.

7.7 Ethics

- 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.
- TPCODL work practices are governed by the Tata Code of Conduct which emphasizes on the following:
- We shall select our suppliers and service providers fairly and transparently.
- 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.
- 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 interactions with, and on behalf of us, including respecting the confidentiality of information shared with them.

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- 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.
- We respect our obligations on the use of third party intellectual property and data.

Bidder is advised to refer attached Tata Code of Conduct (TCOC), Annexure-IX, for more information.

Any ethical concerns with respect to this tender can be reported to the following e-mail ID: pkjain@tatapower.com.

8.0 Specification and standards:

Please refer Annexure II below.

9.0 General Condition of Contract

Any condition not mentioned above shall be applicable as per GCC for Supply attached along with this tender, Annexure VII.

10.0 Safety

All jobs under this tender have to be executed strictly in compliance to the Safety terms and Conditions of Tata Power. Please visit <https://www.tatapower.com/corporate/policies.aspx> for detailed Safety terms and conditions, Annexure-VIII, for details. Violation of Safety norms will result in Penalty as mentioned in the above document. Safety Policy of Tata Power is also enclosed for reference.



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ANNEXURE I
Schedule for Items

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Sr. No.	Description	Estimated Qty (Q)	UoM	Rate (in Rs.) A	GST (in Rs.) B	Unit Price with GST (in Rs.) A+B	Amount (in Rs.) Q x (A+B)
1	Phase-I: All substations with transformers size 7.5MVA and above.	90	EA				
2	Phase-II: All substations with transformers size 5 MVA.	105	EA				
3	Phase-III: All substations with transformers size less than 5 MVA.	35	EA				

NOTE:

- The overall period of the rate contract shall be for a period of 1 years and prices shall be firm till the validity of contract. Release order shall be issued as per requirement of TPCODL.
- The bids will be evaluated commercially on the Overall BOQ (inclusive all) lowest cost.
- The unit price with GST in column no. 7, is all inclusive price for TPCODL. No other extra charges will be applicable.
- The bidders are advised to quote prices strictly in the above format. Failing to do so, bids are liable for rejection.
- The bidder must fill each and every column of the above format. ***Mentioning “extra/inclusive” in any of the column may lead for rejection of the price bid.***
- No cutting/ overwriting in the prices is permissible.
- Quantities mentioned above is for evaluation purpose only, quantities may change as per actual requirements.



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ANNEXURE II
Technical Specifications of Grid Audit

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- 10.0 ANNEXURE-4-PRICE SCHEDULE



TP CENTRAL ODISHA DISTRIBUTION LIMITED
(A Tata Power & Odisha Govt. joint venture)
Purchase Department
2nd Floor, IDCO Tower, Janpath Bhubaneswar, Odisha 751022

NIT No.: TPCODL/P&S/83/2020-21

1. Scope:

This specification covers the technical Grid Audit of TPCODL's 230nos Substations in phased manner and objective of this exercise will be to capture substation health condition and functioning of power distribution equipment at old substations, identify defects in each power distribution equipment for maintenance, major refurbishment, and replacements.

2. Background

At present, there are 290 numbers of 33/11KV substations in TPCODL area. The size of the substations varies from 2X1MVA to 2X12.5MVA. These substations contains power distribution equipment such as power transformer, outdoor and indoor circuit breakers, current and voltage transformers etc. Out of 290 substations, 230 substations are old and the remaining are new constructed under ODSSP scheme. Nearly 81 numbers of substations are still under construction under ODSSP scheme. TPCODL intend to complete Grid Audit (Old 230 Substations) in phased manner.

3. CLIMATIC CONDITIONS OF THE INSTALLATION:

The service conditions shall be as follows:

1. Maximum altitude above sea level 1,000m
2. Maximum ambient air temperature 50°C
3. Maximum daily average ambient air temperature 35°C
4. Minimum ambient air temperature 0°C
5. Maximum relative humidity 95%
6. Average number of thunderstorm days per annum (isokeraunic level) 70
7. Average number of rainy days per annum 120
8. Average annual rainfall 150cm
9. Earthquakes of an intensity in horizontal direction - equivalent to seismic acceleration of 0.3g
10. Earthquakes of an intensity in vertical direction - equivalent to seismic acceleration of 0.15g (g being acceleration due to gravity)
11. Wind velocity: 300 km/hr, 200 km/hr and 160 km/hr. environmentally, some of the regions, where the work will take place includes coastal areas, subject to high relative humidity, which can give rise to condensation. Onshore winds will frequently be salt laden. On occasions, the combination of salt and condensation may create pollution conditions for outdoor insulators. Some places are in heavily industrial polluted areas. Party must be ready to audit all Grids and furnish report as per indicated weather parameters.

4. General Technical Requirement

In order to know the health condition and functioning of power distribution equipment at old substations, TPCODL intend to have detailed technical audit of all 33/11KV substation equipment including power transformers and circuit breakers. The main objective of this exercise will be to capture substation details, identify defects in each power distribution equipment for maintenance, major refurbishment, and replacements. This arrangement will further help to improve the reliability of power supply of the sub-transmission system along with focused approach for refurbishment of 33/11KV substations in phased manner.

The entire work is divided into three phases;

1. Phase -1 – All substations with transformers size 7.5MVA and above(List enclosed in excel sheet)
2. Phase-2 – All substations with transformers size 5MVA(List enclosed in excel sheet)
3. Phase-3 – All substations with transformers size less than 5MVA(List enclosed in excel sheet)

Phase	No of substations	No of Power Transformers	No of 33KV bays	No of 11KV bays
Phase-1	90	230	309	600
Phase-2	105	239	225	435
Phase-3	35	67	56	120

5. Detail Scope of the work

1. Checking/Testing of Power Transformers,

- IR Value and PI
- Oil BDV
- Magnetisation Current
- Magnetic Balance
- Winding Resistance at all taps
- Transformer turns ratio at each tap
- C tan Delta
- Check functioning of off load and load tap changer (mechanical, local electrical, and remote)
- Check functioning of buchholz, OSR, oil and winding temperature alarm and trip signals. Setting OTA,OTT, WTA, and WTT as per defined settings
- Physical inspection, observations including oil leakages, size and status of power cables, power connections, silica gel, breather, MOG, Oil level, condition of paint, Fire prevention and fire-fighting arrangements etc.

2. Checking/Testing of 33 and 11KV Circuit Breakers,

- IR Value
- Contact Resistance



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- Breaker Timings
 - Breaker operation from manual, local, and remote
 - Spring Charging – manual and electrical
 - Indication circuits
 - Working of heaters/thermostat
 - Vermin proofing of outdoor and indoor breakers
 - Physical inspection and observations
3. Checking/Testing of 33KV Current Transformers,
- IR Value
 - Check all parameters with CT analyser
 - Physical inspection and observations including oil leakage and power connectors
4. Checking/Testing of 33KV Voltage Transformers,
- IR Value
 - Check all parameters with CT-VT analyser
 - Physical inspection and observations including oil leakage and power connectors
5. Checking/Testing of Control and Relay Panels
- Secondary Injection to check the functioning of relays on every protection element and features.
 - For differential relays secondary injection kit to be 3 phase double current source
 - Present relay settings (New relay settings will be adopted if required)
 - Electrical closing/tripping of circuit breaker and annunciation panels
 - Working of meters, indication lamps, and other accessories / devices / heater / thermostat
 - Wiring dressing/Vermin proofing
 - Physical inspection and observations
6. Checking/Testing of station auxiliary supply transformer,
- IR Value
 - Oil Dielectric Strength
 - Condition of power connections
 - Condition of silica gel and breather
 - Physical inspection and observations
7. Checking/Testing of Lightning Arresters,
- IR Value
 - Physical inspection, observations including type, power connector, and availability of surge counter
 - LA counter value if available



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8. Checking/Testing of Battery and Charger,
 - Working of float charger
 - Working of boost charger
 - Working of indicators and annunciation
 - Earth leakage and its magnitude
 - Physical inspection, vermin proofing and general observations

9. ACDB, Isolators etc.
 - Physical inspection and observations
 - Vermin Proofing

10. Switchyard and control room
 - Measurement of earth mat resistance
 - Measurement of earth resistance of neutral of power & distribution transformers
 - Checking if the earthing of SCADA equipment is not connected to substation earth mat.
 - Physical inspection and observations

6. Timelines

The above mentioned activity will be completed within 6 months of issue of work order. (2months for phase-1, 3months for Phase-2 and 1 month for phase-3.)

7. Annexure-1A – List of substations for detailed technical audit

List is attached.

8. Annexure-2A Qualification Requirement

1. The BA should have executed at least two similar work for a utility in last 5 years successfully for cumulative contract value of >2 crores
2. The BA shall submit performance certificate from two utilities / principle contractor for work performed in last 5 years
3. BA shall have annual average turnover of 2 crores per annum in last three years

9. Annexure-3 - Special condition of contracts

1. BA shall provide required manpower, Tools, T&P, and testing equipment to carry out the testing of each equipment as per the attached checklists.
2. The BA shall have its own resources/T&P/Testing equipment for successful accomplishment of jobs at two sites simultaneously.
3. The manpower provided by the Vendor should have minimum 2 years' experience in substation equipment testing.
4. Immediately after receipt of service order, the BA will approach concerned engineer-in-charge and hand over copy of the service order to him.
5. A joint meeting will be organized by engineer-in-charge to be attended by the BA and concerned Site Engineer to discuss the scope of the work and Safety aspects.



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6. The BA and Site Engineer will jointly prepare the activity schedule (bar chart) and submit the same to CPSM for concurrence.
7. BA shall check the existing relay settings adopted in each equipment and shall check if the same is different than the settings provided by TPCODL. New relay settings shall be adopted in case of deviation.
8. BA should submit reports of the testing in the approved format, substation audit check list and desired photos within 7 working days of the testing including Saturday.
9. Separate report shall be prepared for each substation with clear recommendations on status of each power distribution equipment based on physical condition and results.
10. The entire work shall be performed under the guidance and instructions of Head – Sub-transmission or their authorised representative.
11. Safety Plan
 - a. TPCODL site engineer will provide safety briefing to BA manpower at the work site.
 - b. The BA will arrange regular safety awareness sessions to refresh site workforce.
 - c. The BA will ensure that all T&P / Testing equipment used for the job are rated / calibrated for the job being performed.
 - d. The BA will work under the direct supervision of Site Engineer and adhere to TPCODL safety norms during work execution.
 - e. The working area shall be properly cordoned off by Site Engineer who will also ensure that BA staff is using proper T&P and PPEs during work execution.
12. The BA shall maintain substation wise testing results in prescribed forms and submit the same to engineer-in-charge along with invoice.
13. The BA will train TPCODL engineers on testing of power distribution equipment while executing the job.
14. Testing of equipment shall be done with testing equipment / voltage mentioned in the attached excel sheet.
15. Bidder need to give separate cost for DGA/ complete oil testing of transformer, As per requirement, TPCODL will ask for the testing of oil. This rate should not be considered in total cost of Rate contract.
16. TPCODL has rights to decide to go for all 3 phases or may close order after one/two phase depending upon the requirement. No extra cost to be charged to TPCODL by selected bidder.

10. Price Schedule (Bidder needs to submit price schedule as per Annexue-I of this tender.



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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, both technical and commercial, 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 TPC'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:



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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 Excise Duty	Yes / No (If Yes, indicate % rate)
1d.	Sales tax applicable at concessional rate	Yes / No (If Yes, indicate % rate)
1e.	Octroi payable extra	Yes / No (If Yes, indicate % rate)
1f.	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 technical 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.)



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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	



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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 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



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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 TPC, 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 TPC 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 Associates and Stakeholders are requested to register any grievance on ethics violation on our website www.tatapower.com

3.0 CONTRACT PARAMETERS



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3.1 Issue/Award of Contract

TPC awards the contract to the Associate in writing in the form of Purchase Order (PO) or 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 TPC 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 supply as per schedule of quantities shall be deemed as the Contract Execution Completion Date.

3.6 Contract Price /Value

The total all inclusive price/value mentioned in the PO/RC 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 and accepted and certified by the authorized representative of the company unless otherwise specified in schedule of quantities or in contract documents.

3.7 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.
- RC/PO with agreed deviations from the tender/bid documents.
- All the Inspection and Test reports, Detailed Engineering Drawings.
- Material Dispatch Clearance Certificate (MDCC).



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- Minutes of Meeting (MoM)

3.8 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 TPC, 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.

3.9 Reverse Auction

TPC 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 F. The bidders along with the tender document shall mandatorily submit a duly signed copy of the Acceptance Form as mentioned in the Annexure J 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 and undertake fully the technical/commercial requirements of items to be supplied as listed in the Schedule of Quantities together with the tests to be performed /test reports to be furnished before dispatch, arrangement of stage and final inspections during manufacturing as per terms and conditions of contract, technical parameters & delivery terms and conditions including transit insurance to be met in order to fully meet TPC's requirements.

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, license 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.

TPC 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



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writing to the Associate. The Associate shall, within fifteen days of receipt of such request from the TPC, provide Purchaser with a reasonably detailed estimate of the cost of the change outlined in the request.

In the event, TPC 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 TPC.

5.0 PRICES/RATES/TAXES

Unless specified elsewhere in the contract document, the prices/rates are inclusive of cost of finished product for which MDCC will be issued by TPC, packaging and forwarding charges, freight and transit insurance charges covering loading at Associate's works, transportation to TPC store/site & unloading & delivery at TPC stores/TPC site, cost of documentation including all the relevant test certificates and other supportive documents to be furnished.

The Prices/Rates are inclusive of all taxes, levies, cess 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/rates shall remain firm till actual completion of entire supply of goods/material/equipment as per contract is achieved and shall remain valid till the completion of the contract.

The prices shall remain unchanged irrespective of TPC 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 TPC 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 TPC.

6.0 TERMS OF PAYMENT

On delivery of the materials in good condition and certification of acceptance by TPC official, Associate shall submit the Bills/Invoices in original in the name of "The Tata Power Company Limited" to invoice desk, complete with all required documents as under:



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- Test Reports (4 sets).
- MDCC issued by TPC.
- Packing List.
- Drawing and Catalogue.
- Guarantee/Warrantee Card.
- Delivery Challan.
- O&M Manual.
- Copy of Order.
- Minutes of Meeting.

Bills/ invoices shall mention Supplier's GST Number. TPC will make 100% payment within 30 days of submission of the Bill/Invoice complete in all respects and along with all the requisite documents mentioned above, subject to condition that Associate has furnished the requisite Security-cum-Performance Guarantee as stipulated in the contract.

6.1 Quantity Variation

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

6.2 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 crossed Cheque or RTGS whichever of the two modes chosen by the Associate, in favour of Associate's Bank Account on TPC 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 G. Further, for any payments made, TPC 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.

8.0 SECURITY CUM PERFORMANCE DEPOSIT

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

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



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(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 TPC 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 TPC.
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 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 TDPPL indemnified always till completion of contracts.



9.2 SA 8000

As TPC is SA 8000 compliant, it 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

TPC 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**

TPC 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 TPC 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



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****Classification of BAs 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 duly audited balance Sheet for the last FY bearing the name of proprietor.
- 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 audited balance sheet/ ITR for last FY.
- 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).

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.

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 TPC/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 Material/Equipment/Works Quality

The items / works under the scope of the Associate shall be of the best quality and workmanship according to the latest engineering practice and shall be manufactured from materials of best quality considering strength and durability for their best performance and, in any case, in accordance with the specifications set forth in this Contract. All material shall be new. Substitution of specified material or variation from the process of fabrication/ construction/ manufacture may be permitted but only with the prior written approval of the TPC.

10.3 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 TPC 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 TPC. 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.

10.4 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 TPC, 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 TPC. All such products and equipment shall be used or installed in strict accordance with original manufacturer's recommendations, unless otherwise directed by the TPC. In any circumstances the codes, specimen and standards prescribed by any government agency should not be violated.

11.0 INSPECTION/PARTICIPATION

11.1 Right to Carry Out Inspection

TPC reserves the right to send its representatives for inspection or participation at various stages of contract execution listed below, applicable as per contract construction.

- During basic design and detail engineering of material/ Equipment carried out by Associate /Outsourced Agencies.
- During manufacturing stages of the product at Associate's/Associate's Outsourced Agency's Plant/Facility.
- During Pre-dispatch Inspection and Testing of finished/manufactured product at Associate's/Associate's outsourced Agency's Plant/Facility.
- During Installation & Commissioning Activities/Stages.



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- Prior to Clearing of the completed installation for commissioning.
- Any other stage as find appropriate by TPC during contract execution time.

All inspections and participations shall be carried out by TPC giving written intimation to the Associate or receiving appropriate advance written inspection call from the Associate, unless otherwise specified elsewhere in the contract document.

11.2 Facilitating Inspection

The Associate shall provide all opportunities and information to TPC's engineers to get acquainted with the technical know-how and the methods and practices adopted by the Associate in basic and detail engineering. The Associate shall provide documents, drawings, calculations etc. as may be required by TPC's Engineers.

The Associate shall provide free of charge office accommodation, office facilities, secretarial services, communication facilities, general and drawing office stationary, etc. as may be reasonably required by the TPC's engineers. Similarly, facilities shall also be provided by Associate's outsource agencies/partners/authorized dealers (collectively termed as sub associates) if such basic and detail engineering activities are carried out in the design offices of sub-Associates.

The Associate shall be responsible for the safety of employees of TPC/Third Party Agency when they are at the Associate's /Associate's outsource agency's plant or facility for carrying out/witnessing inspection/testing. All statutory safety precautions as applicable shall be followed by the Associate during Inspection Testing. If TPC inspectors are not satisfied with the safety arrangements at the plant, TPC have the right to call off inspection till such time corrective action is taken by the Associate.

Before raising the call for pre-dispatch final inspection and testing, the Associate shall conduct all the tests— type tests, routine tests etc-as specified in the contract document and submit copies of the test certificates to TPC along with the inspection call, for scrutiny of TPC.

The Associate and TPC shall jointly document all the observations, comments and action points after completion of inspection and it shall be binding on the Associate to provide compliance on all the points requiring compliance and furnish the compliance report to the designated authority of TPC for receiving clearance for dispatch of materials

11.3 Third Party Nomination

TPC also may nominate a third party for the purpose of carrying out the inspection and such an agency shall be entitled to all the rights and privileges of TPC as far as conducting the inspection.



11.4 Waiver of Inspections

TPC on its own discretion shall choose to waive off any inspection and ask the Associate to submit all the test reports as applicable as per contract specifications, related to inspection and testing of the goods ordered for scrutiny and clearance for dispatch.

11.5 Incorrect Inspection Call

In case it is observed that the material offered for inspection is not ready at the time of TPC inspection visit rendering it as futile, all costs towards such inspection shall be recovered from the BA. Taxes as applicable on such recoveries shall be borne by the BA.

12.0 MDCC & DELIVERY OF MATERIALS

12.1 Material Dispatch Clearance Certificate

Associate shall deliver material/goods/equipment against Supply Contracts or Supply Part of Composite/Service Contracts only after receiving Material Dispatch Clearance Certificate (hereafter termed as MDCC) issued by designated authority of TPC. Material delivered at TPC stores or at project site without a valid MDCC issued by the designated official of TPC shall be rejected. MDCC shall be issued to associate furnishing compliance report on the action points documented during pre-dispatch inspection and testing at Associate's/ Sub Associate's plant/ facility. In case Pre-dispatch inspection is waived at the discretion of TPC, then, MDCC shall be issued on receiving all the test reports-routine& type-from the Associate and finding them in order.

The associate shall include and provide for securely protecting and packing the materials so as to avoid loss or damage during handling and transport by air, sea, rail and road or any other means.

All such packing shall allow to the extent possible for easy removal and checking at Site. The associate shall take special precautions to prevent rusting of steel and iron parts during transit by sea. Gas seals or other materials shall be utilized by the associate for protection against moisture during transit of all Plant and Equipment.

Each Equipment or parts of Equipment shall be tagged with reference to the assembly drawings and corresponding part numbers. Each bale or package shall contain a packing note quoting specifically the name of the associate, item description, quantity, item / package identification.

All packing cases, containers, packing and other similar materials shall be new and supplied free by the associate and it shall not be required to be returned to the associate.

Notwithstanding anything stated in this clause, the associate shall be entirely responsible for loss, damage or depreciation or deterioration to the materials and supplies due to faulty and/or insecure packing or otherwise during transportation to the Site until otherwise provided herein.



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In case of the consignments dispatched by road, the associate shall ensure that it or its subcontractors:

- i) Identify and obtain the correct type of trucks/trailers, keeping in view the nature of consignments to be dispatched.
- ii) Take such actions as may be necessary to avoid all possible chances of damages during transit and to ensure that all packages are firmly secured.

Timelines for inspection and MDCC is as below:

S. No.	Inspection	MDCC issuance time including Inspection time (max.)
1	Outside Bhubaneswar	12 days
2	Within Bhubaneswar	5 days
3	Waiver*	3 working days

* Associate is expected to raise the inspection call assuming that Inspection shall be carried out by TPC. The decision for waiver of inspection shall be on sole discretion of TPC.

12.2 Right to Rejection on Receipt

Goods/Material/Equipment delivered in condition physically damaged & incomplete as a product ordered, or not packed and transported as per the terms and conditions of the contract is liable to be rejected. Such item shall be lifted back by Associates within 15 days from receipt of rejection note from TPC and have to supply back the material within next 30 days or within the timeframe mutually decided by Associate and TPC.

If delivery of the material is beyond the agreed time, Liquidated damage clause, mentioned in this GCC separately shall be applicable; but the period for levy of LD shall be considered as per the original delivery schedule and not from the agreed timelines for material rectification.

12.3 Consignee

Unless otherwise specified in the Contract Document, Materials/Goods/Equipment shall be consigned to "Stores-In-Charge", TPC, Bhubaneswar.

12.4 Submission of mandatory documents on Delivery

Following documents shall be mandatorily submitted by BA along with supply of material to TPC stores/site:

S. No.	Documents	Requisite
1	Invoice copy in original	With all consignments
2	LR copy	Wherever required
3	Packing list	With all consignments



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4	MDCC	With all consignments
5	Purchase order / Release order	Signed copy
6	Test certificates	With all consignments
7	Inspection/JVR report	In case pre-dispatch inspection is conducted
8	Device data in CD as per template for metering items	Wherever applicable

12.5 Dispatch and Delivery Instructions

S. No.	Instructions
1	Purchase order/ Release order no. shall be mentioned on invoice and on material
2	TPC material code and material description shall be mentioned in invoice and on material.
3	“Property of TPC” shall be embossed on material.
4	The material shall be properly sealed and packed in standard packing as per purchase order terms & conditions.
5	The weight and quantity of material shall be mentioned wherever applicable
6	The material supplied shall be co-related with the packing list.
7	The name plate detail on equipment shall include Material code, Material description, specification detail of material [as applicable], Serial No. Year of manufacturing, PO/RO no. and date, “PROPERTY OF TPC, Bhubaneswar”, Guarantee period and Associate’s name.
8	In case of manual unloading, supplier / transporter shall deploy sufficient Labour for unloading the material at TPC central store. For heavy item(s), crane will be provided by TPC [unloading cost will be recovered from the associate].
9	The driver should have valid License and one helper in truck. All the documents of truck like registration papers, PUC etc. should be available in Truck.
10	BA representative should accompany the material and get it unloaded / stacked in his presence wherever possible.

13.0 GUARANTEE

13.1 Guarantee of Performance

Associates shall stand guarantee that the equipment and material supplied 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, for 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.

13.2 Guarantee Period

The Guarantee Period will be equipment/service/work specific and shall be as specified in the Standard Specifications of TPC 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.

13.3 Failure in Guarantee Period (GP)

If the equipment and material supplied 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 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 rendered under the contract, failed in Guarantee Period, TPC will be at liberty to get the same done at Associate's risks and costs and recover all such expenses plus the TPC'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.

Any repairs during the Guarantee Period shall be carried out by the Associate within 30 days of reporting the issue to Associate by TPC. However, if replacement of the Equipment is required, Associate shall notify the same to TPC within 7 days of reporting the issue by TPC. 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.

13.4 Cost of repairs on failure in GP

The cost of repairs/rectification/replacement, required transportation, site inspection /mobilization/dismantling and re-installation costs as applicable, to be borne by Associate. 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.

13.5 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, TPC shall have the benefit of any additional guarantee period if provided by the third party for the part supplied/executed by them.

13.6 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.

13.7 Support beyond the Guarantee Period

The Associate shall ensure availability of spares and necessary support for a period of atleast 10 years post completion of guarantee period of equipment supplied against the contract.

14.0 LIQUIDATED DAMAGES

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

For delay of each week and part thereof from the delivery schedule specified in the contract, 1% of contract value corresponding to undelivered quantity, provided full quantity is supplied within 130% of the original contract time. If full contractual quantity is not delivered within 130% of contract time for delivery, TPC has the right to levy LD on the entire contract value, subject to a maximum of 10% of the total contract value.

- b) For Supplies having phased delivery schedule 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 TPC, as described below:

For the purpose of calculating and applying LD, each delivery lot shall be considered separately. For delay of each week and part thereof, from the delivery schedule specified for the lot, 1% of the contract value corresponding to the undelivered quantity of the lot subject to a maximum of 10% of the total contract value of the subject lot. However, if full contractual quantity is not delivered within 130% of contract time for delivery, TPC 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 TPC as a proof of deduction/ recovery.

14.1 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.

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 TPC's interest failing which appropriate action (legal or otherwise) may be taken against the Associate by the TPC, 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 TPC in connection with the performance of the contract shall be held confidential by the Associate and shall remain the property of the TPC 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 TPC.

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 TPC shall not be published or disclosed to the third parties or taken out of the country without prior written approval of the TPC and upon execution of confidentiality agreements satisfactory to the TPC 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. TPC 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 TPC. 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 TPC under the Contract shall be passed on to the TPC. The TPC shall have the right to use these for 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 TPC.

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 TPC. All rights, with respect to, or arising from such intellectual property, as afore mentioned, shall solely vest in TPC.

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 TPC shall arise in this respect, and any costs, damages, expenses, compensation payable by TPC 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 TPC 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 TPC is held liable for by any court judgement. In this connection, the TPC shall pass on all claims made against him to the Associate for settlement.

The Associate assumes responsibility for and shall indemnify and save harmless the TPC 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 TPC 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 TPC.

The TPC 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 TPC 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 TPC. The constituents & leader of the consortium or joint venture shall not be changed without the prior consent of TPC.



TPC 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.

"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

TPC 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 days' 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
- 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 TPC, 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 TPC, 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.

TPC shall suspend execution of whole/or part thereof the contract till such time Associate complies with the conditions stipulated under section clause 22.1 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 TPC and not due to any breach of contract conditions by the associate, TPC 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 TPC.



If the suspension of contract in whole or part thereof is due to breach of contract conditions (refer clause 22.1) 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 TPC 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 TERMINATION OF CONTRACT

22.1 Termination for Default/Breach of Contract

The contract / PO /RC shall be subject to termination by TPC 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 TPC and within the timeframe as specified in the contract 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 TPC 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 TPC.



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If the default or breach as specified under clause 22 (except sub clause g thereof) be committed by the associate for the first time, TPC shall issue, along 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 TPC then TPC 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 22 g stated above, TPC shall have the right to terminate all the contracts TPC is having with the Associate by issuing termination notice which shall be without prejudice to the other rights of TPC available to it under law. Without prejudice to its right to terminate for breach of contract, TPC 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 TPC 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 arrangements which the associate might have entered into with third parties for due discharge of its obligations under the contract with TPC.
- 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 TPC 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 TPC 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 TPC 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 TPC 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 TPC 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, TPC 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 TPC 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 TPC 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 TPC against the amount recoverable from him on this ground. The same shall be without prejudice to other rights available to TPC 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, TPC shall be entitled to bar the associates its agents, affiliates from undertaking any negotiation / tendering, bidding, participation activities concerning TPC for a period of two years from date of such termination. The same shall be without prejudice to other rights available to TPC.

22.2 Termination for Convenience of Associate

Associate at its convenience may request for termination of contract, clearly assigning the reason for such request. TPC has full right to accept, reject or partially accept such request. However, associate shall continue its supply as per contract till final approval is given to associates for such termination.

22.3 Termination for Convenience of TPC

TPC at its sole discretion may terminate the contract by giving 30 days prior notice in writing or through email to the Associate. TPC 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 TPC or suspended by the arbitrator. Further, TPC shall continue making such payments as may be found due and payable to the associate for such works.

23.1 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.

24.0 ATTRIBUTES OF GCC

24.1 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.

24.2 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.

24.3 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.

25.0 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 TPC or not. However any error in design/drawing arising out of any incorrect data/written information from TPC will not be considered as error and omissions on part of the Associate.

26.0 TRANSFER OF TITLES

The title of ownership and property to all equipment, materials, drawings & documents shall pass to the TPC on acceptance of material by store/site after Inspection.

However, such passing of title of ownership and property to the TPC 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.



27.0 INSURANCE

The Contractor shall take out the Insurance Policies which shall cover all risks including the following, as applicable:-

- a) The value of the policy shall cover the total value of all the items till they are handed over to TPC.
- b) TPC shall be the principal holder of the policy. The Associate shall be the loss payee under the policy. Associate / Sub-contractor of the Associate shall not be holders or beneficiaries in the policy nor shall they be named in the policy. TPC reserves the exclusive right to assign the policy.
- c) While the payment of premium may be phased in agreement with the insurance company, at no time shall goods and services required to be provided by the associate shall remain uninsured in accordance with (a) above.
- d) A copy of the Insurance policy shall be made available to TPC prior to first dispatch lot of any Equipment and policy shall be kept alive and valid at all times up to the stage of final acceptance.
- e) TPC reserves the right to take out whatever policy that is deemed necessary by him if the associate fails to keep the said policy alive and valid at all times and/or causes lapses in payment of premium thereby jeopardizing the said policy. The cost of such policy(s) shall be recovered / deducted from the amount payable to the associate.
- f) The policy shall ensure that the TPC's decision regarding replacement of goods damaged, lost or rendered unusable shall be final.

In all cases, the associate shall lodge the claims with the underwriters and also settle the claims and shall also notify TPC of any filed claims. However, the associate shall proceed with the repairs and/or replacement of the equipment/components without waiting for the settlement of the claims. In case of seizure of materials by concerned authorities, the associate shall arrange prompt release against bond, security or cash as required. TPC, upon request by the associate, will extend all reasonable assistance to the associate in such a case.

All the insurance claims shall be processed and settled by the associate and the missing/damaged items shall be replaced/repared by them without any extra cost to TPC and without affecting the completion time.

28.0 SUGGESTIONS & FEEDBACK

We welcome all our Business Associates to write to us about their experience with TPC; 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. You may send your feedback by filling up our Business Associate Feedback Form



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enclosed herewith as *Annexure-I*. You can also log on to our website www.tatapower.com to provide your feedback.

- Suggestions for us
- Feedback form
- Knowledge Sharing/ Experience with TPC
- Any issues with TPC.

Submission of feedback form is mandatory before the release of final payment to the BA.

29.0 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.tatapower.com

30.0 LIST OF ANNEXURES

S. No.	Subject	Annexure
1.	Performa for Bid Security Bank Guarantee	A
2.	Performa for Performance Bank Guarantee (CP cum EP)	B
3.	Performa for No Demand Certificate by Associate	C
4.	Performa For Application For Issuance of Consolidated TDS Certificate	D
5.	Business Associate Feedback Form	E
6.	Acceptance Form For Participation In Reverse Auction Event	F
7.	Form for RTGS Payment	G
8.	Vendor Appraisal Form	H
9.	Manufacturer Authorization Form	I



ANNEXURE-A

PROFORMA FOR BID SECURITY BANK GUARANTEE

TP Central Odisha Distribution Limited(TPCODL)
Bhubaneshwar

WHEREAS, (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 The Tata Power Company
 Limited (TPC) in the sum of _____ for which payment well and truly to be made to the
 TPC 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: Format shall be followed in toto

- a) Claim period of one month must be kept up
- b) The guarantee to be accompanied by the covering letter from the bank confirming the signature to the guarantee

TP Central Odisha Distribution Limited(TPCODL) ,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-fulfillment 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



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6. 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 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.

7. 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

8. This guarantee shall not be affected by any change in the constitution of our Bank or “the Vendor” or for any other reason whatsoever.

9. Any claim / extension under the guarantee can be lodge-able at outstation banks or at Mumbai branch and claim will also be payable at Mumbai Branch (to be confirmed by Mumbai Branch by a letter to that effect in case BG is from the branch outside Mumbai).

10. 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”.

11. 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 _____ 20__

Bank’s rubber stamp

- 1. Banks full address Designation
- of Signatory
- 2. 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 TPC 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 TPC 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 TPC, with full knowledge and with our free consent without any undue influence, misrepresentation, coercion etc.

Place

Name

(Company Seal)



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ANNEXURE-D

PROFORMA FOR APPLICATION FOR ISSUANCE OF CONSOLIDATED TDS CERTIFICATE

To be printed on the letterhead

To,

The Tata Power Company 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-E

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 "TPC 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 TPC

- 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)



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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	TPC demonstrate willingness to be flexible in administration of Contract / Purchase Order						
7	We provide timely responses / clarifications to your queries						
8	TPC representative you interact / coordinate with is adequately empowered to support you in meeting contractual obligations						
9	TPC provide you all necessary infrastructure support for timely and quality completion of work (including AMC)						
10	TPC Engineer-in-Charge timely certifies the jobs executed/ material supplied						



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S. No.	Parameters	1	2	3	4	5	Remarks/ Suggestion
		Do Not Agree	Slightly in Agreement	In Fair Agreement	Mostly in Agreement	Fully Agree	
11	TPC 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	TPC never defaults on contractual terms						
15	In TPC 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	TPC Employees follow Ethical behaviour						



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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)

S. No.	Parameters	1	2	3	4	5	Remarks/ Suggestion
1	How do you rate courtesy/ empathy/ attitude level and warmth of TPC 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 TPC in comparison to your other clients in terms of fairness of treatment and transparency with its Business Associates?						
3	How would you rate TPC in comparison to your other clients in terms of processes and systems to manage partnership with its Business Associates						
4	How would you rate TPC in comparison to your other clients in terms of building long term & mutually relationship with its Business Associates						



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SECTION – C

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

S. No.	Parameters	Certainly No	Probably No	Certainly Yes	Probably Yes	Remarks/ Suggestion
1	Based on your experience with TPC, would you like to continue your relationship with TPC?					
2	If someone asks you about TPC, would you talk “positively” about TPC?					
3	Would you refer TPC 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 TPC, that truly represents your overall satisfaction with us (please tick appropriate box) -

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

SECTION – E

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

Please spare your thoughts for TPC’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 TPC to adopt. Please give your valuable salient recommendations.

Please spare your thoughts for TPC’s improvement in particular areas of major concerns for you. We also welcome your suggestions to adopt any best practices, altitudes that you



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Recommendation	<i>Please tick (✓) your top 5 expectations out of the following 10 points listed below -</i>	
(Please list down improvement you expect from TPC)	<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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(A Tata Power & Odisha Govt. joint venture)
Purchase Department
2nd Floor, IDCO Tower, Janpath Bhubaneswar, Odisha 751022

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ANNEXURE-F

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, TPC 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. TPC 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. TPC will make every effort to make the bid process transparent. However, the award decision by TPC would be final and binding on the supplier.
3. The bidder agrees to non-disclosure of trade information regarding the purchase, identity of TPC, 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 TPC.
6. In case of intranet medium, TPC shall provide the infrastructure to bidders. Further, TPC 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 out rightly rejected by TPC.
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 TPC 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 TPC.
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 TPC well in time at our own. Further, we kept TPC 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)



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ANNEXURE-H

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 DRAUGHTS MEN	:
	8.3	COLLABORATION DETAILS (IF ANY)	:



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	8.3.1	DATE OF COLLABORATION	:	
	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.)	:	
	9.6	NO. OF SHIFTS	:	
	9.7	TYPE OF MATERIAL HANDLED (SUCH AS CS, SS, ETC.)	:	



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	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	:
		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		



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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 LICENSE 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.
- **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.



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ANNEXURE-I

MANUFACTURER AUTHORIZATION FORM

(To be submitted on OEM's Letter Head)

Date:

Tender Enquiry No.:

To,

Chief (Procurement & Stores)

The Tata Power Company Limited,
Mumbai

Sir,

WHEREAS M/s. [name of OEM], who are official manufacturers of having factories at [address of OEM] do hereby authorize M/s [name of bidder] to submit a Bid in relation to the Invitation for Bids indicated above, the purpose of which is to provide the following Goods, manufactured by usand to subsequently negotiate and sign the Contract.

We hereby extend our full guarantee and warranty in accordance with the Special Conditions of Contract or as mentioned elsewhere in the Tender Document, with respect to the Goods offered by the above firm in reply to this Invitation for Bids.

We hereby confirm that in case, the channel partner fails to provide the necessary services as per the Tender Document referred above, M/s [name of OEM] shall provide standard warranty on the materials supplied against the contract. The warranty period and inclusion / exclusion of parts in the warranty shall remain same as defined in the contract issued to their channel partner against this tender enquiry.

Yours Sincerely,

For

Authorized Signatory



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Grid Audit Plan Summary (Annexure 1A)

Sl No	Circle	Division	Name of 33/11KV S/S	SubStation Capacity (In MVA)	Total Installed Capacity in MVA	Remarks	No of PTRx	No of 33KV Bays Including CRP	No of 11KV Bays Including CRP	Ph-1	Ph-2	Ph-3
1	BBSR2	KED, Khurda	Jatni	1x12.5+2x8	28.5	SU	3	5	7	✓	-	-
2	BBSR2	KED, Khurda	Janla	3x5+1x8	23	R	4	1	3	✓	-	-
3	BBSR2	KED, Khurda	Khurda I.E.	2X12.5	25	I	2	6	5	✓	-	-
4	BBSR2	KED, Khurda	Tirumala	2x5	10	R	2	5	6	-	✓	-
5	BBSR2	KED, Khurda	Chhatabar	2x5	10	ODSSP (R)	2	-	-	-	-	-
6	BBSR2	KED, Khurda	Baghamari	2x3.15+1x5	11.3	R	3	4	5	-	✓	-
7	BBSR2	KED, Khurda	Jankia	2x3.15+1x5	11.3	R	3	3	5	-	✓	-
8	BBSR2	KED, Khurda	Chhanagiri	2x5	10	ODSSP (R)	2	-	-	-	-	-
9	BBSR2	KED, Khurda	Dadhimachhagadia	2x5	10	CAPEX (R)	2	4	6	-	✓	-
10	BBSR2	KED, Khurda	Narangarh	2x5	10	R	2	2	5	-	✓	-
11	BBSR2	KED, Khurda	Sunadeimundia	3x5	15	R	3	3	5	-	✓	-
12	BBSR2	KED, Khurda	Jatamundia	1x1.6+1x5+1x3.15	9.75	R	3	2	5	-	✓	-
13	BBSR2	KED, Khurda	Tulasipur	1x1.6	1.6	R	1	1	1	-	-	✓
14	BBSR2	KED, Khurda	Chakapada	1x1.6	1.6	R	1	1	1	-	-	✓
15	BBSR2	KED, Khurda	Harirajpur	2x5+1x3.15	13.15	R	3	3	5	-	✓	-
16	BBSR2	KED, Khurda	Khurda town	1X8+1x12.5	20.5	U	2	2	7	✓	-	-
17	BBSR2	KED, Khurda	Gurujanga	2x5	10	R	2	0	1	-	✓	-
18	BBSR2	KED, Khurda	Rajsunakhala	4x5	20	R	4	3	6	-	✓	-
19	BBSR2	KED, Khurda	Parichal	1x3.15+1x5	8.15	R	2	2	4	-	✓	-
20	BBSR2	KED, Khurda	Malipada	2x5	10	R	2	4	3	-	✓	-
21	BBSR2	KED, Khurda	Kalapathar	2x3.15	6.3	R	2	1	2	-	-	✓
22	BBSR2	KED, Khurda	Mendhasala	2x8	16	ODSSP (R)	2	-	-	-	-	-
23	BBSR2	KED, Khurda	Begunia	2x3.15	6.3	R	2	1	3	-	-	✓
24	BBSR2	KED, Khurda	Sarua	2x5	10	ODSSP (I)	2	-	-	-	-	-
25	BBSR2	KED, Khurda	Gediapali	2x5	10	ODSSP (R)	2	-	-	-	-	-
26	BBSR2	NED, Nayagarh	Nayagarh	2x8	16	U	2	2	7	✓	-	-
27	BBSR2	NED, Nayagarh	Itamati	2x8	16	R	2	3	7	✓	-	-
28	BBSR2	NED, Nayagarh	Machhipada	2x5	10	ODSSP (R)	2	-	-	-	-	-
29	BBSR2	NED, Nayagarh	Bolagarh	2x5	10	R	2	1	2	-	✓	-
30	BBSR2	NED, Nayagarh	Sarankul	1x5+1x8	13	R	2	2	5	✓	-	-
31	BBSR2	NED, Nayagarh	Odagaon	1x5+1x8	13	R	2	2	3	✓	-	-
32	BBSR2	NED, Nayagarh	Khandapada	1x5+1x8	13	R	2	6	5	✓	-	-
33	BBSR2	NED, Nayagarh	Fategarh	1x5+2x1.6	8.2	R	3	1	3	-	✓	-
34	BBSR2	NED, Nayagarh	Dhalabandha	2x5	10	ODSSP (R)	2	-	-	-	-	-
35	BBSR2	NED, Nayagarh	Kantilo	2x3.15	6.3	R	2	0	2	-	-	✓
36	BBSR2	NED, Nayagarh	Daspalla	3x5	15	SU	3	3	6	-	✓	-
37	BBSR2	NED, Nayagarh	Mahipur	2x1.6+1x5	8.2	R	3	1	3	-	✓	-
38	BBSR2	NED, Nayagarh	Nuagaon	1x1.6+1x3.15+1x5	9.75	R	3	1	1	-	✓	-

39	BBSR2	NED, Nayagarh	Gania	1x1.6+1x3.15	4.75	R	2	2	2	-	-	✓
40	BBSR2	NED, Nayagarh	Chhamundia	2x5	10	ODSSP (R)	2	-	-	-	-	-
41	BBSR2	NED, Nayagarh	Kurala	2x5	10	ODSSP (R)	2	-	-	-	-	-
42	BBSR2	NED, Nayagarh	Godipada	2x5	10	ODSSP (R)	2	-	-	-	-	-
43	BBSR2	NED, Nayagarh	Bijipur	2x5	10	ODSSP (R)	2	-	-	-	-	-
44	BBSR2	PED, Puri	Delang	1x5+1x8	13	R	2	3	3	✓	-	-
45	BBSR2	PED, Puri	Kanasa	3x5	15	R	3	4	3	-	✓	-
46	BBSR2	PED, Puri	Sakhigopal	2x5+1x8	18	R	3	3	4	✓	-	-
47	BBSR2	PED, Puri	Chandanpur	1x5+1x8	13	R	2	3	3	✓	-	-
48	BBSR2	PED, Puri	Talabania	2x12.5+1x8	33	U	3	GIS	13	✓	-	-
49	BBSR2	PED, Puri	Sriramnagar	2x8	16	U	2	GIS	8	✓	-	-
50	BBSR2	PED, Puri	Charinala	2x3.15	6.3	R	2	1	3	-	-	-
51	BBSR2	PED, Puri	Attharanala	2x8	16	CAPEX (U)	2	GIS	AR	✓	-	-
52	BBSR2	PED, Puri	Satasankha	1x5+1x3.15	8.15	R	2	2	6	-	✓	-
53	BBSR2	PED, Puri	Sunamuhi	1x3.15+1x5	8.15	R	2	2	5	-	✓	-
54	BBSR2	PED, Puri	Brahmagiri	1x5+1x8	13	R	2	2	4	✓	-	-
55	BBSR2	PED, Puri	Basudeipur	2x3.15	6.3	CAPEX (R)	2	3	7	-	-	✓
56	BBSR2	PED, Puri	Baliapanda	3X8	24	U	3	GIS	11	✓	-	-
57	BBSR2	PED, Puri	Khajuria	2x1.6	3.2	CAPEX (R)	2	3	6	-	-	✓
58	BBSR2	PED, Puri	Kacheri	2x8	16	U	2	GIS	9	✓	-	-
59	BBSR2	BaED, Balugaon	Balugaon	2x8+1x5	21	SU	3	3	3	✓	-	-
60	BBSR2	BaED, Balugaon	Nachuni	2x5+1x1.6	11.6	R	3	3	5	-	✓	-
61	BBSR2	BaED, Balugaon	Ankulpadar	2x5	10	RGVY (R)	2	2	6	-	✓	-
62	BBSR2	BaED, Balugaon	INS Chilika	2x1.6	3.2	R	2	0	2	-	-	✓
63	BBSR2	BaED, Balugaon	Bhusandapur	2x3.15	6.3	CAPEX (R)	2	3	6	-	-	✓
64	BBSR2	BaED, Balugaon	Tangi	2x8+1x3.15	19.15	R	3	3	4	✓	-	-
65	BBSR2	BaED, Balugaon	Kuhudi	1x5	5	RGVY (R)	1	1	3	-	✓	-
66	BBSR2	BaED, Balugaon	Khandisi	2x5	10	ODSSP (R)	2	-	-	-	-	-
67	BBSR2	BaED, Balugaon	Chandpur	2x3.15	6.3	R	2	3	7	-	-	✓
68	BBSR2	BaED, Balugaon	Darpanarayanpur	2x5	10	CAPEX (R)	2	4	6	-	✓	-
69	BBSR2	BaED, Balugaon	Ranapur	2x5+1x3.15	13.15	R	3	4	6	-	✓	-
70	Dhenkanal	DED, Dhenkanal	College Str	2x8+1x5+1x3.15	24.15	U	4	6	7	✓	-	-
71	Dhenkanal	DED, Dhenkanal	Bhapur	1x3.15+1x5	8.15	R	2	0	2	-	✓	-
72	Dhenkanal	DED, Dhenkanal	Gundichapada	3x8	24	U	3	4	6	✓	-	-
73	Dhenkanal	DED, Dhenkanal	Gondia	3x5+1x3	18	R	4	3	8	-	✓	-
74	Dhenkanal	DED, Dhenkanal	Nihalprasad	2x3.15	6.3	CAPEX (R)	2	3	6	-	-	✓
75	Dhenkanal	DED, Dhenkanal	Hindol Road	1x8+1x5+1x3.15	16.15	R	3	4	4	✓	-	-
76	Dhenkanal	DED, Dhenkanal	Khajuriakata	3x3.15	9.45	R	3	1	4	-	-	✓

77	Dhenkanal	DED, Dhenkanal	Hindol	2x5	10	R	2	0	2	-	✓	-
78	Dhenkanal	DED, Dhenkanal	Kamakshyanagar	1x3.15+3x5	18.15	SU	4	1	6	-	✓	-
79	Dhenkanal	DED, Dhenkanal	Jiridamali	2x5	10	ODSSP (R)	2	-	-	-	-	-
80	Dhenkanal	DED, Dhenkanal	Badasuanlo	1x5	5	R	1	1	1	-	✓	-
81	Dhenkanal	DED, Dhenkanal	Mathakargola	2x3.15	6.3	R	2	1	3	-	-	✓
82	Dhenkanal	DED, Dhenkanal	Pandua	2x5	10	ODSSP (R)	2	-	-	-	-	-
83	Dhenkanal	DED, Dhenkanal	Dahanbil	1x3.15	3.15	R	1	0	1	-	-	✓
84	Dhenkanal	DED, Dhenkanal	Goda	1x3.15	3.15	R	1	1	1	-	-	✓
85	Dhenkanal	DED, Dhenkanal	Bhuban	1x3.15+2x5	13.15	SU	3	1	4	-	✓	-
86	Dhenkanal	DED, Dhenkanal	Joranda	2x5	10	R	2	0	2	-	✓	-
87	Dhenkanal	DED, Dhenkanal	Kankadahada	2x3.15	6.3	RGVY (R)	2	3	6	-	-	✓
88	Dhenkanal	DED, Dhenkanal	Banasingh	2x5	10	ODSSP (R)	2	-	-	-	-	-
89	Dhenkanal	DED, Dhenkanal	Dakhinakali	2x8	16	CAPEX (U)	2	3	7	✓	-	-
90	Dhenkanal	DED, Dhenkanal	Kaliapani	1x3.15	3.15	I	1	1	1	-	-	✓
91	Dhenkanal	AnED, Angul	New RCMS	3x12.5	37.5	CAPEX (U)	3	6	12	✓	-	-
92	Dhenkanal	AnED, Angul	Industrial Estate	1x5+1x7.5	12.5	I	2	1	3	✓	-	-
93	Dhenkanal	AnED, Angul	Bantala	2x3.15+1x1.6	7.9	R	3	1	5	-	-	✓
94	Dhenkanal	AnED, Angul	Jarapada	2x5+1x3.15	13.15	R	3	4	6	-	✓	-
95	Dhenkanal	AnED, Angul	Chhendipada	3x5	15	R	3	3	6	-	✓	-
96	Dhenkanal	AnED, Angul	Boinda	1x1.6+2x3.15	7.9	R	3	1	6	-	-	✓
97	Dhenkanal	AnED, Angul	Anandpur	1x3.15+1x1.6	4.75	R	2	1	1	-	-	✓
98	Dhenkanal	AnED, Angul	Athamallik	1x3.15+1x5	8.15	SU	2	3	4	-	✓	-
99	Dhenkanal	AnED, Angul	Madhapur	1x3.15	3.15	R	1	0	1	-	-	✓
100	Dhenkanal	AnED, Angul	Bamur	1x3.15+1x5	8.15	R	2	2	4	-	✓	-

101	Dhenkanal	AnED, Angul	Dhaurapali	2x3.15	6.3	ODSSP (R)	2	-	-	-	-	-
102	Dhenkanal	AnED, Angul	Hemsarpada	2x8	16	CAPEX (U)	2	4	7	✓	-	-
103	Dhenkanal	AnED, Angul	Badakera	2x5	10	ODSSP (R)	2	-	-	-	-	-
104	Dhenkanal	TED, Chainpal	Banarpal	3x8	24	R	3	3	8	✓	-	-
105	Dhenkanal	TED, Chainpal	Saranga	1x1.6	1.6	R	1	1	1	-	-	✓
106	Dhenkanal	TED, Chainpal	Parjanga	3x5	15	R	3	4	8	-	✓	-
107	Dhenkanal	TED, Chainpal	Talcher-1	3X8	24	U	3	4	8	✓	-	-
108	Dhenkanal	TED, Chainpal	South Balanda	1x3.15+1x5	8.15	I	2	3	3	-	✓	-
109	Dhenkanal	TED, Chainpal	Samal	2x1.6	3.2	R	2	2	4	-	-	✓
110	Dhenkanal	TED, Chainpal	Kaniha	2x8+1x1.6	17.6	R	3	4	11	✓	-	-
111	Dhenkanal	TED, Chainpal	Parabil	2x1.6	3.2	R	2	1	1	-	-	✓
112	Dhenkanal	TED, Chainpal	Khamar	1x3.15+1x5	8.15	R	2	4	4	-	✓	-
113	Dhenkanal	TED, Chainpal	Pallahara	1X5+1X3.15	8.15	SU	2	2	5	-	✓	-
114	Dhenkanal	TED, Chainpal	Kunjam	2X5	10	ODSSP (R)	2	-	-	-	-	-
115	Dhenkanal	TED, Chainpal	Baruan	2x1.6	3.2	NTPC (R)	2	2	1	-	-	✓
116	Dhenkanal	TED, Chainpal	Rengali	1x3.15	3.15	R	1	2	5	-	-	✓
117	Dhenkanal	TED, Chainpal	Hanumanpur	2X5	10	ODSSP (R)	2	-	-	-	-	-
118	Dhenkanal	TED, Chainpal	Talcher-II	1x5	5	NTPC (U)	1	1	3	-	✓	-
119	Dhenkanal	TED, Chainpal	Chainpal	2x5	10	NTPC (R)	2	3	8	-	✓	-
120	Dhenkanal	TED, Chainpal	Danara	2x8	16	ODSSP (R)	2	-	-	-	-	-
121	Dhenkanal	TED, Chainpal	New Saranga	2x5	10	ODSSP (R)	2	-	-	-	-	-
122	Dhenkanal	TED, Chainpal	Sanda	2x5	10	ODSSP (R)	2	-	-	-	-	-
123	BBSR1	BCDD-I, BBSR	Unit-VIII	3x12.5	37.5	U	3	10	14	✓	-	-
124	BBSR1	BCDD-I, BBSR	Unit-VI	1x12.5+1x5	17.5	U	2	7	9	✓	-	-
125	BBSR1	BCDD-I, BBSR	Unit-III	1x12.5+1x8	20.5	U	2	5	8	✓	-	-
126	BBSR1	BCDD-I, BBSR	Unit-IV	2x5	10	U	2	5	11	-	✓	-

127	BBSR1	BCDD-I, BBSR	Unit-II (Master Canteen)	2x8	16	ODSSP (U)	2	-	-	-	-	-
128	BBSR1	BCDD-I, BBSR	Satyanagar	2x8	16	U	2	4	8	✓	-	-
129	BBSR1	BCDD-I, BBSR	Sahid Nagar	2x12.5	25	U	2	6	10	✓	-	-
130	BBSR1	BCDD-I, BBSR	Board Colony	2x12.5	25	U	2	3	7	✓	-	-
131	BBSR1	BCDD-I, BBSR	Airport	2x12.5	25	CAPEX (U)	2	3	6	✓	-	-
132	BBSR1	BCDD-I, BBSR	Delta	2x8	16	CAPEX (U)	2	3	6	✓	-	-
133	BBSR1	BCDD-II, BBSR	Nayapalli	2x12.5+1x8	33	U	3	5	9	✓	-	-
134	BBSR1	BCDD-II, BBSR	Baramunda	2x8	16	U	2	5	8	✓	-	-
135	BBSR1	BCDD-II, BBSR	SainikSchool	2x8	16	U	2	4	7	✓	-	-
136	BBSR1	BCDD-II, BBSR	Xavier	2x12.5	25	U	2	4	7	✓	-	-
137	BBSR1	BCDD-II, BBSR	CS Pur-I	2x8+1x5	21	U	3	3	7	✓	-	-
138	BBSR1	BCDD-II, BBSR	CS Pur-II	3x8+1x12.5	36.5	U	4	4	9	✓	-	-
139	BBSR1	BCDD-II, BBSR	Infocity	1x8+2x7.5	23	I	3	5	8	✓	-	-
140	BBSR1	BCDD-II, BBSR	Baranga	2x5	10	R	2	0	2	-	✓	-
141	BBSR1	BCDD-II, BBSR	Bharatpur	2x8+1x5	21	U	3	5	7	✓	-	-
142	BBSR1	BCDD-II, BBSR	Kalinganagar	2x12.5+1x8	33	U	3	5	9	✓	-	-
143	BBSR1	BCDD-II, BBSR	New Baranga	2x8	16	R	2	2	3	✓	-	-
144	BBSR1	BCDD-II, BBSR	Kalarahanga	1x8	8	SI (U)	1	AR	AR	✓	-	-
145	BBSR1	BCDD-II, BBSR	Kanan Vihar	1x8+1x12.5	20.5	CAPEX (U)	2	3	6	✓	-	-
146	BBSR1	BCDD-II, BBSR	Khandagiri	1x12.5+1x8	20.5	CAPEX (U)	2	4	6	✓	-	-
147	BBSR1	BCDD-II, BBSR	Gothapatna	2x8	16	ODSSP (U)	2	-	-	-	-	-
148	BBSR1	BCDD-II, BBSR	Ranasinghpur	2x5	10	ODSSP (U)	2	-	-	-	-	-
149	BBSR1	BCDD-II, BBSR	IMMT (RRL Campus)	2x5	10	ODSSP (U)	2	-	-	-	-	-
150	BBSR1	BCDD-II, BBSR	Dumduma	2x8	16	ODSSP (U)	2	-	-	-	-	-
151	BBSR1	BCDD-II, BBSR	ESIC	2X1.6	3.2	Deposit	2	0	0	-	-	✓
152	BBSR1	BCDD-II, BBSR	Vani Vihar	2x8	16	ODSSP (U)	2	-	-	-	-	-
153	BBSR1	BCDD-II, BBSR	Chandaka	2x8	16	ODSSP (U)	2	-	-	-	-	-
154	BBSR1	BCDD-II, BBSR	Godisahi	2x5	10	ODSSP (R)	2	-	-	-	-	-
155	BBSR1	BED, BBSR	Baragada	3x12.5+1x10	47.5	U	4	4	13	✓	-	-
156	BBSR1	BED, BBSR	Bhimtangi	2x12.5+2x8	41	U	4	7	8	✓	-	-
157	BBSR1	BED, BBSR	Rasulgarh	1x8+2x12.5	33	U	3	3	5	✓	-	-
158	BBSR1	BED, BBSR	Mancheswar	1x8+2x12.5	33	I	3	3	6	✓	-	-
159	BBSR1	BED, BBSR	Phulnakhara	3x5	15	R	3	2	3	-	✓	-
160	BBSR1	BED, BBSR	Laxmisagar	3x12.5	37.5	U	3	5	10	✓	-	-
161	BBSR1	BED, BBSR	Naharkanta	2x8	16	U	2	2	2	✓	-	-
162	BBSR1	BED, BBSR	Bhingarpur	2x5	10	ODSSP (R)	2	-	-	-	-	-
163	BBSR1	BED, BBSR	Kalpana	2x8	16	ODSSP (U)	2	-	-	-	-	-
164	BBSR1	BED, BBSR	Mulapadia	2x8	16	ODSSP (U)	2	-	-	-	-	-
165	BBSR1	BED, BBSR	Kesura	1x5	5	U	1	1	1	-	✓	-
166	BBSR1	BED, BBSR	Lingipur	2x8	16	ODSSP (U)	2	-	-	-	-	-
167	BBSR1	BED, BBSR	Uttara	2X8	16	U	2	3	4	✓	-	-
168	BBSR1	NED, Nimapara	Nimapara	3x8+2x5	34	SU	5	4	8	✓	-	-
169	BBSR1	NED, Nimapara	Kakatpur	2x5+1x8	18	R	3	1	4	✓	-	-
170	BBSR1	NED, Nimapara	Konark	2x5+1x3.15	13.15	SU	3	2	6	-	✓	-

171	BBSR1	NED, Nimapara	Bangurigaon	2x5	10	ODSSP (R)	2	-	-	-	-	-
172	BBSR1	NED, Nimapara	Chhaitana	1x5+1x3.15	8.15	R	2	0	2	-	✓	-
173	BBSR1	NED, Nimapara	Jogeswarpur	2x5	10	ODSSP (R)	2	-	-	-	-	-
174	BBSR1	NED, Nimapara	Pipili	3x8	24	SU	3	4	4	✓	-	-
175	BBSR1	NED, Nimapara	Astaranga	2x3.15+1x5	11.3	R	3	1	3	-	✓	-
176	BBSR1	NED, Nimapara	Gop (Bayakuda)	2x5	10	CAPEX (R)	2	5	7	-	✓	-
177	BBSR1	NED, Nimapara	Balipatana	2x5+1x8	18	R	3	3	6	✓	-	-
178	BBSR1	NED, Nimapara	Banamalipur	2x5	10	ODSSP (R)	2	-	-	-	-	-
179	BBSR1	NED, Nimapara	Balakati	1x3.15+1x5	8.15	R	2	1	2	-	✓	-
180	Paradeep	KED-I Kendra para	Kendrapara	2x8+2x5+1x3.15	29.15	U	5	3	5	✓	-	-
181	Paradeep	KED-I Kendra para	Danpur	2x5	10	R	2	1	4	-	✓	-
182	Paradeep	KED-I Kendra para	Indupur	1x3.15+1x1.6	4.75	R	2	1	4	-	-	✓
183	Paradeep	KED-I Kendra para	Pattamundai	2x5	10	SU	2	2	5	-	✓	-
184	Paradeep	KED-I Kendra para	Patrapur	1x5	5	R	1	1	1	-	✓	-
185	Paradeep	KED-I Kendra para	Gogua	1x5	5	R	1	1	2	-	✓	-
186	Paradeep	KED-I Kendra para	Dandisahi	2x3.15	6.3	R	2	1	2	-	-	✓
187	Paradeep	KED-I Kendra para	Adhajori	1x5+1x3.15	8.15	R	2	1	4	-	✓	-
188	Paradeep	KED-I Kendra para	Rajnagar	2x5	10	R	2	1	5	-	✓	-
189	Paradeep	KED-I Kendra para	Kandira	1x5	5	RGVY (R)	1	1	4	-	✓	-
190	Paradeep	KED-I Kendra para	Rajkanika	2x3.15+1x5	11.3	R	3	3	5	-	✓	-
191	Paradeep	KED-I Kendra para	Aul	2x3.15+1x5	11.3	R	3	3	5	-	✓	-
192	Paradeep	KED-I Kendra para	Duhuria	1x5	5	RGVY (U)	1	1	4	-	✓	-
193	Paradeep	KED-I Kendra para	Olaver	1x5	5	RGVY (R)	1	1	4	-	✓	-
194	Paradeep	KED-I Kendra para	Sahupada	1x5	5	RGVY (R)	1	1	3	-	✓	-
195	Paradeep	KED-I Kendra para	Chhagharia	2x3.15	6.3	CAPEX (R)	2	4	6	-	-	✓
196	Paradeep	KED-I Kendra para	Chaudakulata	2x5	10	ODSSP (R)	2	-	-	-	-	-
197	Paradeep	KED-I Kendra para	Chhata	1x5	5	RGVY (R)	1	1	3	-	✓	-
198	Paradeep	KED-II, Marshaghai	Marshaghai	2x5	10	R	2	1	2	-	✓	-

199	Paradeep	KED-II, Marshaghai	Pakhada	2x3.15	6.3	R	2	1	2	-	-	✓
200	Paradeep	KED-II, Marshaghai	Korua	2x3.15+1x5	11.3	R	3	2	5	-	✓	-
201	Paradeep	KED-II, Marshaghai	Mahakalapara	2x3.15+1x5	11.3	R	3	2	3	-	✓	-
202	Paradeep	KED-II, Marshaghai	Luna	3x5+1x1.6	16.6	R	4	3	6	-	✓	-
203	Paradeep	KED-II, Marshaghai	Chhapali	1x5	5	RGVY (R)	1	1	3	-	✓	-
204	Paradeep	KED-II, Marshaghai	Badhi	2x3.15	6.3	CAPEX (R)	2	3	5	-	-	✓
205	Paradeep	JED, Jagatsingh pur	Jagatsinghpur	1x8+1x7.5+2x5	25.5	U	4	1	5	✓	-	-
206	Paradeep	JED, Jagatsingh pur	Jogadhari	2x5	10	R	2	1	2	-	✓	-
207	Paradeep	JED, Jagatsingh pur	Biridi	2x5+1x3.15	13.15	R	3	2	3	-	✓	-
208	Paradeep	JED, Jagatsingh pur	Raghunathpur	2x5	10	R	2	1	2	-	✓	-
209	Paradeep	JED, Jagatsingh pur	Balikuda	1x5+1x8	13	R	2	1	5	✓	-	-
210	Paradeep	JED, Jagatsingh pur	Sova	1x5+1x3.15	8.15	R	2	1	2	-	✓	-
211	Paradeep	JED, Jagatsingh pur	Nabapatna	2x5	10	R	2	2	2	-	✓	-
212	Paradeep	JED, Jagatsingh pur	Naugaon	2x5	10	RGVY (R)	2	2	6	-	✓	-
213	Paradeep	JED, Jagatsingh pur	22Mouza	1x5	5	RGVY (R)	1	1	3	-	✓	-
214	Paradeep	JED, Jagatsingh pur	Nuapada	2x5	10	CAPEX (R)	2	4	6	-	✓	-
215	Paradeep	JED, Jagatsingh pur	Bhatapada	2x5	10	ODSSP (R)	2	-	-	-	-	-
216	Paradeep	JED, Jagatsingh pur	Balia (Adhanga)	2x5	10	ODSSP (R)	2	-	-	-	-	-
217	Paradeep	JED, Jagatsingh pur	Sasanpada	2x3.15	6.3	CAPEX (R)	2	3	6	-	-	✓
218	Paradeep	PED, Paradeep	Paradeep	1x8+1x7.5+1x5	20.5	U	3	3	7	✓	-	-
219	Paradeep	PED, Paradeep	Kujanga	2x5+1x8	18	R	3	3	5	✓	-	-
220	Paradeep	PED, Paradeep	Tirtol	3x5	15	R	3	4	3	-	✓	-
221	Paradeep	PED, Paradeep	Krishnandapur	2x5	10	ODSSP (R)	2	-	-	-	-	-
222	Paradeep	PED, Paradeep	Ersama	2x3.15+1x5	11.3	R	3	3	5	-	✓	-

223	Paradeep	PED, Paradeep	Rahama	2x5	10	R	2	4	7	-	✓	-
224	Paradeep	PED, Paradeep	Bijayachandrapur	2x5	10	ODSSP (R)	2	-	-	-	-	-
225	Paradeep	PED, Paradeep	Jagannathpur	2x8	16	ODSSP (R)	2	-	-	-	-	-
226	Paradeep	PED, Paradeep	Paruna	1X5	5	RGGVY (R)	1	1	3	-	✓	-
227	Paradeep	PED, Paradeep	Kanakpur	2x8	16	ODSSP (R)	2	-	-	-	-	-
228	Cuttack	CDD-I, Cuttack	Jobra	2x12.5	25	U	2	4	9	✓	-	-
229	Cuttack	CDD-I, Cuttack	Medical	1x8+1x12.5	20.5	U	2	5	9	✓	-	-
230	Cuttack	CDD-I, Cuttack	Shisubhavan	2x12.5	25	U	2	4	6	✓	-	-
231	Cuttack	CDD-I, Cuttack	OLD Jail	2x5	10	U	2	4	2	-	✓	-
232	Cuttack	CDD-I, Cuttack	Kalinga	3x12.5	37.5	U	3	7	18	✓	-	-
233	Cuttack	CDD-I, Cuttack	Sector-VI	2x8	16	U	2	4	7	✓	-	-
234	Cuttack	CDD-I, Cuttack	Sector-III	2x8	16	U	2	4	9	✓	-	-
235	Cuttack	CDD-I, Cuttack	DRDA	2x8	16	CAPEX (U)	2	5	7	✓	-	-
236	Cuttack	CDD-I, Cuttack	Matamatha	2x8	16	CAPEX (U)	2	3	7	✓	-	-
237	Cuttack	CDD-I, Cuttack	Satichoura	1x5+1x8	13	ODSSP (U)	2	-	-	-	-	-
238	Cuttack	CDD-I, Cuttack	Sector-10&11	2x8	16	ODSSP (U)	2	-	-	-	-	-
239	Cuttack	CDD-I, Cuttack	Sector-13	2x8	16	ODSSP (U)	2	-	-	-	-	-
240	Cuttack	CDD-II, Cuttack	Badambadi	2x12.5	25	U	2	4	7	✓	-	-
241	Cuttack	CDD-II, Cuttack	OGP	2x8	16	I	2	2	7	✓	-	-
242	Cuttack	CDD-II, Cuttack	Chauliaganj	2x12.5	25	U	2	6	10	✓	-	-
243	Cuttack	CDD-II, Cuttack	CRRI	2x8	16	U	2	4	7	✓	-	-
244	Cuttack	CDD-II, Cuttack	Jagatpur	3x8+1x5	29	I	4	4	4	✓	-	-
245	Cuttack	CDD-II, Cuttack	Jagatpur (Ipicol)	2x8	16	ODSSP (I)	2	-	-	-	-	-
246	Cuttack	CDD-II, Cuttack	Mahanadivihar	2x8	16	ODSSP (U)	2	-	-	-	-	-
247	Cuttack	CDD-II, Cuttack	Kandarpur	2x5	10	R	2	3	2	-	✓	-
248	Cuttack	CDD-II, Cuttack	Bentakar	1x5+1x8	13	R	2	2	7	✓	-	-
249	Cuttack	CDD-II, Cuttack	Matagajpur	2x5	10	CAPEX (R)	2	3	6	-	✓	-
250	Cuttack	CDD-II, Cuttack	Sompur	2x5	10	ODSSP (R)	2	-	-	-	-	-
251	Cuttack	CDD-II, Cuttack	Kisannagar	2x3.15+1x5	11.3	R	3	3	3	-	✓	-
252	Cuttack	CED, Cuttack	Gopalpur	2x8	16	R	2	3	5	✓	-	-
253	Cuttack	CED, Cuttack	Adaspur	1x3.15+2x5	13.15	R	3	4	5	-	✓	-
254	Cuttack	CED, Cuttack	Niali	1x3.15+1x5+1x8	16.15	R	3	3	5	✓	-	-
255	Cuttack	CED, Cuttack	Kasarda	2x3.15	6.3	CAPEX (R)	2	3	6	-	-	✓
256	Cuttack	CED, Cuttack	Govindpur	2x5	10	ODSSP (R)	2	-	-	-	-	-
257	Cuttack	CED, Cuttack	Damodarpur	1x3.15+1x8	11.15	R	2	2	4	✓	-	-
258	Cuttack	CED, Cuttack	Tangi	3x5+1x3.15	18.15	R	4	3	6	-	✓	-
259	Cuttack	CED, Cuttack	Sankarpur	2x5	10	ODSSP (R)	2	-	-	-	-	-

260	Cuttack	CED, Cuttack	Choudwar I.E.	1x8+1x5	13	I	2	6	9	✓	-	-
261	Cuttack	CED, Cuttack	Chhatia	2x5+1x3.15	13.15	R	3	2	3	-	✓	-
262	Cuttack	CED, Cuttack	Badachana	1x3.15+2x5	13.15	R	3	4	3	-	✓	-
263	Cuttack	CED, Cuttack	Balichandrapur	1x8+1x5+2x3.15	19.3	R	4	2	6	✓	-	-
264	Cuttack	CED, Cuttack	Choudwar	1x8+1x12.5	20.5	SU	2	3	7	✓	-	-
265	Cuttack	AED, Athagarh	Narangabasta	1x5+1x3.15	8.15	R	2	1	2	-	✓	-
266	Cuttack	AED, Athagarh	Khuntuni	2x5	10	R	2	0	2	-	✓	-
267	Cuttack	AED, Athagarh	Athagarh	2x8+1x5	21	SU	3	4	8	✓	-	-
268	Cuttack	AED, Athagarh	Sarpeswar	2x5	10	CAPEX (R)	2	3	6	-	✓	-
269	Cuttack	AED, Athagarh	Tigiria	2x5+1x8	18	R	3	2	4	✓	-	-
270	Cuttack	AED, Athagarh	Nuapatna	2x5	10	R	2	3	9	-	✓	-
271	Cuttack	AED, Athagarh	Badamba	3x5	15	R	3	3	5	-	✓	-
272	Cuttack	AED, Athagarh	Kanpur	2x3.15+1x5	11.3	R	3	1	6	-	✓	-
273	Cuttack	AED, Athagarh	Narsinghpur	3x3.15+1x5	14.45	R	4	1	6	-	✓	-
274	Cuttack	AED, Athagarh	Mardamukha	2x5	10	ODSSP (R)	2	-	-	-	-	-
275	Cuttack	AED, Athagarh	Gurudijhatia	1x5	5	RGGVY (R)	1	1	3	-	✓	-
276	Cuttack	AED, Athagarh	Khuntakata	1x8	8	RGGVY (R)	1	1	3	✓	-	-
277	Cuttack	SED, Salipur	Bahugram-I	2x5	10	R	2	1	2	-	✓	-
278	Cuttack	SED, Salipur	Salipur	2x5	10	SU	2	2	2	-	✓	-
279	Cuttack	SED, Salipur	Mahanga	1x3.15+1x5	8.15	R	2	3	4	-	✓	-
280	Cuttack	SED, Salipur	Kotapada	1x5+1x1.6	6.6	RGGVY (R)	2	1	4	-	✓	-
281	Cuttack	SED, Salipur	Nischintkoili	2x5+1x3.15	13.15	R	3	4	5	-	✓	-
282	Cuttack	SED, Salipur	Paldhuapara	1x5	5	RGGVY-II (R)	1	1	1	-	✓	-
283	Cuttack	SED, Salipur	Bahugram-II	2x5	10	RGGVY (R)	2	2	6	-	✓	-
284	Cuttack	SED, Salipur	Raisunguda	2x5	10	ODSSP (R)	2	-	-	-	-	-
285	Cuttack	SED, Salipur	Orikanta	2x5	10	CAPEX (R)	2	3	6	-	✓	-
							644	590	1155			

Sl No	Circle	Division	Name of 33/11KV S/S	SubStation Capacity (In MVA)	No of PTx	Total Installed Capacity in MVA	Remarks
1	BBSR2	KED, Khurda	Jatni	1x12.5+2x8	3	28.5	SU
2	BBSR2	KED, Khurda	Janla	3x5+1x8	4	23	R
3	BBSR2	KED, Khurda	Khurda I.E.	2X12.5	2	25	I
16	BBSR2	KED, Khurda	Khurda town	1X8+1x12.5	2	20.5	U
26	BBSR2	NED, Nayagarh	Nayagarh	2x8	2	16	U
27	BBSR2	NED, Nayagarh	Itamati	2x8	2	16	R
30	BBSR2	NED, Nayagarh	Sarankul	1x5+1x8	2	13	R
31	BBSR2	NED, Nayagarh	Odagaon	1x5+1x8	2	13	R
32	BBSR2	NED, Nayagarh	Khandapada	1x5+1x8	2	13	R
44	BBSR2	PED, Puri	Delang	1x5+1x8	2	13	R
46	BBSR2	PED, Puri	Sakhigopal	2x5+1x8	3	18	R
47	BBSR2	PED, Puri	Chandanpur	1x5+1x8	2	13	R
48	BBSR2	PED, Puri	Talabania	2x12.5+1x8	3	33	U
49	BBSR2	PED, Puri	Sriramnagar	2x8	2	16	U
51	BBSR2	PED, Puri	Attharanala	2x8	2	16	CAPEX (U)
54	BBSR2	PED, Puri	Brahmagiri	1x5+1x8	2	13	R
56	BBSR2	PED, Puri	Baliapanda	3X8	3	24	U
58	BBSR2	PED, Puri	Kacheri	2x8	2	16	U
59	BBSR2	BaED, Balugaon	Balugaon	2x8+1x5	3	21	SU
64	BBSR2	BaED, Balugaon	Tangi	2x8+1x3.15	3	19.15	R
70	Dhenkanal	DED, Dhenkanal	College Str	2x8+1x5+1x3.15	4	24.15	U
72	Dhenkanal	DED, Dhenkanal	Gundichapada	3x8	3	24	U
75	Dhenkanal	DED, Dhenkanal	Hindol Road	1x8+1x5+1x3.15	3	16.15	R
89	Dhenkanal	DED, Dhenkanal	Dakhinakali	2x8	2	16	CAPEX (U)
91	Dhenkanal	AnED, Angul	New RCMS	3x12.5	3	37.5	CAPEX (U)
92	Dhenkanal	AnED, Angul	Industrial Estate	1x5+1X7.5	2	12.5	I
102	Dhenkanal	AnED, Angul	Hemsarpada	2x8	2	16	CAPEX (U)
104	Dhenkanal	TED, Chainpal	Banarpal	3x8	3	24	R
107	Dhenkanal	TED, Chainpal	Talcher-1	3X8	3	24	U
110	Dhenkanal	TED, Chainpal	Kaniha	2x8+1x1.6	3	17.6	R
123	BBSR1	BCDD-I, BBSR	Unit-VIII	3x12.5	3	37.5	U

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124	BBSR1	BCDD-I, BBSR	Unit-VI	1x12.5+1x5	2	17.5	U
125	BBSR1	BCDD-I, BBSR	Unit-III	1x12.5+1x8	2	20.5	U
128	BBSR1	BCDD-I, BBSR	Satyanagar	2x8	2	16	U
129	BBSR1	BCDD-I, BBSR	Sahid Nagar	2x12.5	2	25	U
130	BBSR1	BCDD-I, BBSR	Board Colony	2x12.5	2	25	U
131	BBSR1	BCDD-I, BBSR	Airport	2x12.5	2	25	CAPEX (U)
132	BBSR1	BCDD-I, BBSR	Delta	2x8	2	16	CAPEX (U)
133	BBSR1	BCDD-II, BBSR	Nayapalli	2x12.5+1x8	3	33	U
134	BBSR1	BCDD-II, BBSR	Baramunda	2x8	2	16	U
135	BBSR1	BCDD-II, BBSR	SainikSchool	2x8	2	16	U
136	BBSR1	BCDD-II, BBSR	Xavier	2x12.5	2	25	U
137	BBSR1	BCDD-II, BBSR	CS Pur-I	2x8+1x5	3	21	U
138	BBSR1	BCDD-II, BBSR	CS Pur-II	3x8+1x12.5	4	36.5	U
139	BBSR1	BCDD-II, BBSR	Infocity	1x8+2x7.5	3	23	I
141	BBSR1	BCDD-II, BBSR	Bharatpur	2x8+1x5	3	21	U
142	BBSR1	BCDD-II, BBSR	Kalinganagar	2x12.5+1x8	3	33	U
143	BBSR1	BCDD-II, BBSR	New Baranga	2x8	2	16	
144	BBSR1	BCDD-II, BBSR	Kalarahanga	1x8	1	8	SI (U)
145	BBSR1	BCDD-II, BBSR	Kanan Vihar	1x8+1x12.5	2	20.5	CAPEX (U)
146	BBSR1	BCDD-II, BBSR	Khandagiri	1x12.5+1x8	2	20.5	CAPEX (U)
155	BBSR1	BED, BBSR	Baragada	3x12.5+1x10	4	47.5	U
156	BBSR1	BED, BBSR	Bhimtangi	2x12.5+2x8	4	41	U
157	BBSR1	BED, BBSR	Rasulgarh	1x8+2x12.5	3	33	U
158	BBSR1	BED, BBSR	Mancheswar	1x8+2x12.5	3	33	I
160	BBSR1	BED, BBSR	Laxmisagar	3x12.5	3	37.5	U
161	BBSR1	BED, BBSR	Naharkanta	2x8	2	16	U
167	BBSR1	BED, BBSR	Uttara	2X8	2	16	U
168	BBSR1	NED, Nimapara	Nimapara	3x8+2x5	5	34	SU
169	BBSR1	NED, Nimapara	Kakatpur	2x5+1x8	3	18	R
174	BBSR1	NED, Nimapara	Pipili	3x8	3	24	SU
177	BBSR1	NED, Nimapara	Balipatana	2x5+1x8	3	18	R

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180	Paradeep	KED-I Kendra para	Kendrapara	2x8+2x5+1x3.15	5	29.15	U
205	Paradeep	JED, Jagatsingh pur	Jagatsinghpur	1x8+1x7.5+2x5	4	25.5	U
209	Paradeep	JED, Jagatsingh pur	Balikuda	1x5+1x8	2	13	R
218	Paradeep	PED, Paradeep	Paradeep	1x8+1x7.5+1x5	3	20.5	U
219	Paradeep	PED, Paradeep	Kujanga	2x5+1x8	3	18	R
228	Cuttack	CDD-I, Cuttack	Jobra	2x12.5	2	25	U
229	Cuttack	CDD-I, Cuttack	Medical	1x8+1x12.5	2	20.5	U
230	Cuttack	CDD-I, Cuttack	Shisubhavan	2x12.5	2	25	U
232	Cuttack	CDD-I, Cuttack	Kalinga	3x12.5	3	37.5	U
233	Cuttack	CDD-I, Cuttack	Sector-VI	2x8	2	16	U
234	Cuttack	CDD-I, Cuttack	Sector-III	2x8	2	16	U
235	Cuttack	CDD-I, Cuttack	DRDA	2x8	2	16	CAPEX (U)
236	Cuttack	CDD-I, Cuttack	Matamatha	2x8	2	16	CAPEX (U)
240	Cuttack	CDD-II, Cuttack	Badambadi	2x12.5	2	25	U
241	Cuttack	CDD-II, Cuttack	OGP	2x8	2	16	I
242	Cuttack	CDD-II, Cuttack	Chauliaganj	2x12.5	2	25	U
243	Cuttack	CDD-II, Cuttack	CRRRI	2x8	2	16	U
244	Cuttack	CDD-II, Cuttack	Jagatpur	3x8+1x5	4	29	I
248	Cuttack	CDD-II, Cuttack	Bentakar	1x5+1x8	2	13	R
252	Cuttack	CED, Cuttack	Gopalpur	2x8	2	16	R
254	Cuttack	CED, Cuttack	Niali	1x3.15+1x5+1x8	3	16.15	R
257	Cuttack	CED, Cuttack	Damodarpur	1x3.15+1x8	2	11.15	R
260	Cuttack	CED, Cuttack	Choudwar I.E.	1x8+1x5	2	13	I
263	Cuttack	CED, Cuttack	Balichandrapur	1x8+1x5+2x3.15	4	19.3	R
264	Cuttack	CED, Cuttack	Choudwar	1x8+1x12.5	2	20.5	SU
267	Cuttack	AED, Athagarh	Athagarh	2x8+1x5	3	21	SU
269	Cuttack	AED, Athagarh	Tigiria	2x5+1x8	3	18	R
276	Cuttack	AED, Athagarh	Khuntakata	1x8	1	8	RGVY (R)

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4	BBSR2	KED, Khurda	Tirumala	2x5	2	10	R
6	BBSR2	KED, Khurda	Baghamari	2x3.15+1x5	3	11.3	R
7	BBSR2	KED, Khurda	Jankia	2x3.15+1x5	3	11.3	R
9	BBSR2	KED, Khurda	Dadhimachhagadia	2x5	2	10	CAPEX (R)
10	BBSR2	KED, Khurda	Narangarh	2x5	2	10	R
11	BBSR2	KED, Khurda	Sunadeimundia	3x5	3	15	R
12	BBSR2	KED, Khurda	Jatamundia	1x1.6+1x5+1x3.15	3	9.75	R
15	BBSR2	KED, Khurda	Harirajpur	2x5+1x3.15	3	13.15	R
17	BBSR2	KED, Khurda	Gurujanga	2x5	2	10	R
18	BBSR2	KED, Khurda	Rajsunakhala	4x5	4	20	R
19	BBSR2	KED, Khurda	Parichal	1x3.15+1x5	2	8.15	R
20	BBSR2	KED, Khurda	Malipada	2x5	2	10	R
29	BBSR2	NED, Nayagarh	Bolagarh	2x5	2	10	R
33	BBSR2	NED, Nayagarh	Fategarh	1x5+2x1.6	3	8.2	R
36	BBSR2	NED, Nayagarh	Daspalla	3x5	3	15	SU
37	BBSR2	NED, Nayagarh	Mahipur	2x1.6+1x5	3	8.2	R
38	BBSR2	NED, Nayagarh	Nuagaon	1x1.6+1x3.15+1x5	3	9.75	R
45	BBSR2	PED, Puri	Kanasa	3x5	3	15	R
52	BBSR2	PED, Puri	Satasankha	1x5+1x3.15	2	8.15	R
53	BBSR2	PED, Puri	Sunamuhi	1x3.15+1x5	2	8.15	R
60	BBSR2	BaED, Balugaon	Nachuni	2x5+1x1.6	3	11.6	R
61	BBSR2	BaED, Balugaon	Ankulpadar	2x5	2	10	RGVY (R)
65	BBSR2	BaED, Balugaon	Kuhudi	1x5	1	5	RGVY (R)
68	BBSR2	BaED, Balugaon	Darpanarayanpur	2x5	2	10	CAPEX (R)
69	BBSR2	BaED, Balugaon	Ranapur	2x5+1x3.15	3	13.15	R
71	Dhenkanal	DED, Dhenkanal	Bhapur	1x3.15+1x5	2	8.15	R
73	Dhenkanal	DED, Dhenkanal	Gondia	3x5+1x3	4	18	R
77	Dhenkanal	DED, Dhenkanal	Hindol	2x5	2	10	R
78	Dhenkanal	DED, Dhenkanal	Kamakshyanagar	1x3.15+3x5	4	18.15	SU
80	Dhenkanal	DED, Dhenkanal	Badasuanlo	1x5	1	5	R
85	Dhenkanal	DED, Dhenkanal	Bhuban	1x3.15+2x5	3	13.15	SU
86	Dhenkanal	DED, Dhenkanal	Joranda	2x5	2	10	R
94	Dhenkanal	AnED, Angul	Jarapada	2x5+1x3.15	3	13.15	R
95	Dhenkanal	AnED, Angul	Chhendipada	3x5	3	15	R
98	Dhenkanal	AnED, Angul	Athamallik	1x3.15+1x5	2	8.15	SU
100	Dhenkanal	AnED, Angul	Bamur	1x3.15+1x5	2	8.15	R
106	Dhenkanal	TED, Chainpal	Parjanga	3x5	3	15	R

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108	Dhenkanal	TED, Chainpal	South Balanda	1x3.15+1x5	2	8.15	I
112	Dhenkanal	TED, Chainpal	Khamar	1x3.15+1x5	2	8.15	R
113	Dhenkanal	TED, Chainpal	Pallahara	1X5+1X3.15	2	8.15	SU
118	Dhenkanal	TED, Chainpal	Talcher-II	1x5	1	5	NTPC (U)
119	Dhenkanal	TED, Chainpal	Chainpal	2x5	2	10	NTPC (R)
126	BBSR1	BCDD-I, BBSR	Unit-IV	2x5	2	10	U
140	BBSR1	BCDD-II, BBSR	Baranga	2x5	2	10	R
159	BBSR1	BED, BBSR	Phulnakhara	3x5	3	15	R
165	BBSR1	BED, BBSR	Kesura	1x5	1	5	U
170	BBSR1	NED, Nimapara	Konark	2x5+1x3.15	3	13.15	SU
172	BBSR1	NED, Nimapara	Chhaitana	1x5+1x3.15	2	8.15	R
175	BBSR1	NED, Nimapara	Astaranga	2x3.15+1x5	3	11.3	R
176	BBSR1	NED, Nimapara	Gop (Bayakuda)	2x5	2	10	CAPEX (R)
179	BBSR1	NED, Nimapara	Balakati	1x3.15+1x5	2	8.15	R
181	Paradeep	KED-I Kendra para	Danpur	2x5	2	10	R
183	Paradeep	KED-I Kendra para	Pattamundai	2x5	2	10	SU
184	Paradeep	KED-I Kendra para	Patrapur	1x5	1	5	R
185	Paradeep	KED-I Kendra para	Gogua	1x5	1	5	R
187	Paradeep	KED-I Kendra para	Adhajori	1x5+1x3.15	2	8.15	R
188	Paradeep	KED-I Kendra para	Rajnagar	2x5	2	10	R
189	Paradeep	KED-I Kendra para	Kandira	1x5	1	5	RGVY (R)
190	Paradeep	KED-I Kendra para	Rajkanika	2x3.15+1x5	3	11.3	R
191	Paradeep	KED-I Kendra para	Aul	2x3.15+1x5	3	11.3	R
192	Paradeep	KED-I Kendra para	Duhuria	1x5	1	5	RGVY (U)
193	Paradeep	KED-I Kendra para	Olaver	1x5	1	5	RGVY (R)
194	Paradeep	KED-I Kendra para	Sahupada	1x5	1	5	RGVY (R)
197	Paradeep	KED-I Kendra para	Chhata	1x5	1	5	RGVY (R)
198	Paradeep	KED-II, Marshaghai	Marshaghai	2x5	2	10	R
200	Paradeep	KED-II, Marshaghai	Korua	2x3.15+1x5	3	11.3	R
201	Paradeep	KED-II, Marshaghai	Mahakalapara	2x3.15+1x5	3	11.3	R
202	Paradeep	KED-II, Marshaghai	Luna	3x5+1x1.6	4	16.6	R
203	Paradeep	KED-II, Marshaghai	Chhapali	1x5	1	5	RGVY (R)
206	Paradeep	JED, Jagatsingh pur	Jogadhari	2x5	2	10	R
207	Paradeep	JED, Jagatsingh pur	Biridi	2x5+1x3.15	3	13.15	R
208	Paradeep	JED, Jagatsingh pur	Raghunathpur	2x5	2	10	R
210	Paradeep	JED, Jagatsingh pur	Sova	1x5+1x3.15	2	8.15	R
211	Paradeep	JED, Jagatsingh pur	Nabapatna	2x5	2	10	R

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212	Paradeep	JED, Jagatsingh pur	Naugaon	2x5	2	10	RGVY (R)
213	Paradeep	JED, Jagatsingh pur	22Mouza	1x5	1	5	RGVY (R)
214	Paradeep	JED, Jagatsingh pur	Nuapada	2x5	2	10	CAPEX (R)
220	Paradeep	PED, Paradeep	Tirtol	3x5	3	15	R
222	Paradeep	PED, Paradeep	Ersama	2x3.15+1x5	3	11.3	R
223	Paradeep	PED, Paradeep	Rahama	2x5	2	10	R
226	Paradeep	PED, Paradeep	Paruna	1X5	1	5	RGVY (R)
231	Cuttack	CDD-I, Cuttack	OLD Jail	2x5	2	10	U
247	Cuttack	CDD-II, Cuttack	Kandarpur	2x5	2	10	R
249	Cuttack	CDD-II, Cuttack	Matagajpur	2x5	2	10	CAPEX (R)
251	Cuttack	CDD-II, Cuttack	Kisannagar	2x3.15+1x5	3	11.3	R
253	Cuttack	CED, Cuttack	Adaspur	1x3.15+2x5	3	13.15	R
258	Cuttack	CED, Cuttack	Tangi	3x5+1x3.15	4	18.15	R
261	Cuttack	CED, Cuttack	Chhatia	2x5+1x3.15	3	13.15	R
262	Cuttack	CED, Cuttack	Badachana	1x3.15+2x5	3	13.15	R
265	Cuttack	AED, Athagarh	Narangabasta	1x5+1x3.15	2	8.15	R
266	Cuttack	AED, Athagarh	Khuntuni	2x5	2	10	R
268	Cuttack	AED, Athagarh	Sarpeswar	2x5	2	10	CAPEX (R)
270	Cuttack	AED, Athagarh	Nuapatna	2x5	2	10	R
271	Cuttack	AED, Athagarh	Badamba	3x5	3	15	R
272	Cuttack	AED, Athagarh	Kanpur	2x3.15+1x5	3	11.3	R
273	Cuttack	AED, Athagarh	Narsinghpur	3x3.15+1x5	4	14.45	R
275	Cuttack	AED, Athagarh	Gurudijhatia	1x5	1	5	RGVY (R)
277	Cuttack	SED, Salipur	Bahugram-I	2x5	2	10	R
278	Cuttack	SED, Salipur	Salipur	2x5	2	10	SU
279	Cuttack	SED, Salipur	Mahanga	1x3.15+1x5	2	8.15	R
280	Cuttack	SED, Salipur	Kotapada	1x5+1x1.6	2	6.6	RGVY (R)
281	Cuttack	SED, Salipur	Nischintkoili	2x5+1x3.15	3	13.15	R
282	Cuttack	SED, Salipur	Paldhuapara	1x5	1	5	RGVY-II (R)
283	Cuttack	SED, Salipur	Bahugram-II	2x5	2	10	RGVY (R)
285	Cuttack	SED, Salipur	Orikanta	2x5	2	10	CAPEX (R)

Sl No	Circle	Division	Name of 33/11KV S/S	SubStation Capacity (In MVA)	No of PTx	Total Installed Capacity in MVA	Remarks
13	BBSR2	KED, Khurda	Tulasipur	1x1.6	1	1.6	R
14	BBSR2	KED, Khurda	Chakapada	1x1.6	1	1.6	R
21	BBSR2	KED, Khurda	Kalapathar	2x3.15	2	6.3	R
23	BBSR2	KED, Khurda	Begunia	2x3.15	2	6.3	R
35	BBSR2	NED, Nayagarh	Kantilo	2x3.15	2	6.3	R
39	BBSR2	NED, Nayagarh	Gania	1x1.6+1x3.15	2	4.75	R
50	BBSR2	PED, Puri	Charinala	2x3.15	2	6.3	R
55	BBSR2	PED, Puri	Basudeipur	2x3.15	2	6.3	CAPEX (R)
57	BBSR2	PED, Puri	Khajuria	2x1.6	2	3.2	CAPEX (R)
62	BBSR2	BaED, Balugaon	INS Chilika	2x1.6	2	3.2	R
63	BBSR2	BaED, Balugaon	Bhusandapur	2x3.15	2	6.3	CAPEX (R)
67	BBSR2	BaED, Balugaon	Chandpur	2x3.15	2	6.3	R
74	Dhenkanal	DED, Dhenkanal	Nihalprasad	2x3.15	2	6.3	CAPEX (R)
76	Dhenkanal	DED, Dhenkanal	Khajuriakata	3x3.15	3	9.45	R
81	Dhenkanal	DED, Dhenkanal	Mathakargola	2x3.15	2	6.3	R
83	Dhenkanal	DED, Dhenkanal	Dahanbil	1x3.15	1	3.15	R
84	Dhenkanal	DED, Dhenkanal	Goda	1x3.15	1	3.15	R
87	Dhenkanal	DED, Dhenkanal	Kankadahada	2x3.15	2	6.3	RGGVY (R)
90	Dhenkanal	DED, Dhenkanal	Kaliapani	1x3.15	1	3.15	I
93	Dhenkanal	AnED, Angul	Bantala	2x3.15+1x1.6	3	7.9	R
96	Dhenkanal	AnED, Angul	Boinda	1x1.6+2x3.15	3	7.9	R
97	Dhenkanal	AnED, Angul	Anandpur	1x3.15+1x1.6	2	4.75	R
99	Dhenkanal	AnED, Angul	Madhapur	1x3.15	1	3.15	R
105	Dhenkanal	TED, Chainpal	Saranga	1x1.6	1	1.6	R
109	Dhenkanal	TED, Chainpal	Samal	2x1.6	2	3.2	R
111	Dhenkanal	TED, Chainpal	Parabil	2x1.6	2	3.2	R
115	Dhenkanal	TED, Chainpal	Baruan	2x1.6	2	3.2	NTPC (R)
116	Dhenkanal	TED, Chainpal	Rengali	1x3.15	1	3.15	R
151	BBSR1	BCDD-II, BBSR	ESIC	2X1.6	2	3.2	Deposit
182	Paradeep	KED-I Kendra para	Indupur	1x3.15+1x1.6	2	4.75	R
186	Paradeep	KED-I Kendra para	Dandisahi	2x3.15	2	6.3	R
195	Paradeep	KED-I Kendra para	Chhagharia	2x3.15	2	6.3	CAPEX (R)
199	Paradeep	KED-II, Marshaghai	Pakhada	2x3.15	2	6.3	R
204	Paradeep	KED-II, Marshaghai	Badhi	2x3.15	2	6.3	CAPEX (R)
217	Paradeep	JED, Jagatsingh pur	Sasanpada	2x3.15	2	6.3	CAPEX (R)
255	Cuttack	CED, Cuttack	Kasarda	2x3.15	2	6.3	CAPEX (R)

Equipment	Testing Equipment to be used	Mandatory Requirement	Other Conditions
1. Checking/Testing of Power Transformers,			
• IR Value and PI	5 KV Insulation Resistance Tester	Valid calibration certificate	
• Oil BDV	Motorised test set	Valid calibration certificate	
• Magnetisation Current			
• Magnetic Balance			
• Winding Resistance at all taps	Winding resistance measurement kit 10A of reputed make	Valid calibration certificate	
• Transformer turns ratio at each tap	Transformer turns ratio tester kit of reputed make	Valid calibration certificate	
• C tan Delta	Capacitance and tan delta test set 10 KV	Valid calibration certificate	
• Check functioning of buchholz, OSR, winding, temperature, oil temperature alarm and trip signals.			
• Check functioning of off load and load tap changer (mechanical, local electrical, and remote) Check availability of manual/drawings			
• Check availability of manual/drawings (as above)			
• Physical inspection, observations including size, and status of power cables, palm connectors, silica gel, breather, MOG, Oil level etc. fire fighting equipment, BOT, fire fighting arrangements			
2. Checking/Testing of 33 and 11KV Circuit Breakers,			
• IR Value	5 KV Insulation Resistance Tester	Valid calibration certificate	
• Contact Resistance	Contact Resistance Measurement Kit 100A	Valid calibration certificate	
• Breaker Timings	Breaker Timer kit	Valid calibration certificate	
• Breaker operation from manual, local, and remote			
• Spring Charging/Closing/Tripping of circuit breakers			Under control supply voltage 70% to 120%
• Indication circuits			
• Working of heaters/thermostat			
• Vermin proofing of outdoor and indoor breakers			

Equipment	Testing Equipment to be used	Mandatory Requirement	Other Conditions
<ul style="list-style-type: none"> • Check availability of manual/drawings (as above) 			
<ul style="list-style-type: none"> • Physical inspection and observations 			
3. Checking/Testing of 33KV Current Transformers,			
<ul style="list-style-type: none"> • IR Value 	5 KV Insulation Resistance Tester	Valid calibration certificate	
<ul style="list-style-type: none"> • Check all parameters with CT analyser 	CT VT analyser of reputed make	Valid calibration certificate	Knee point voltage to be measured by conventional method
<ul style="list-style-type: none"> • Accuracy testing of metering core in case of boundary line CTs 			Only for metering core for boundary line meters
<ul style="list-style-type: none"> • Physical inspection and observations 			
4. Checking/Testing of 33KV Voltage Transformers,			
<ul style="list-style-type: none"> • IR Value 	5 KV Insulation Resistance Tester	Valid calibration certificate	
<ul style="list-style-type: none"> • Check all parameters with CT-VT analyser 	CT VT analyser of reputed make		
<ul style="list-style-type: none"> • Accuracy testing of metering core in case of boundary line PTs 			Only for metering core for boundary line meters
<ul style="list-style-type: none"> • Physical inspection and observations 			
5. Checking/Testing of Lightning Arresters,			
<ul style="list-style-type: none"> • IR Value 	5 KV Insulation Resistance Tester	Valid calibration certificate	
<ul style="list-style-type: none"> • Physical inspection, observations including type, power connector, and availability of surge counter 			
<ul style="list-style-type: none"> • LA counter value if available 			
6. Checking/Testing of Battery and Charger,			
<ul style="list-style-type: none"> • Working of float charger 			
<ul style="list-style-type: none"> • Working of boost charger 			
<ul style="list-style-type: none"> • Working of indicators and annunciation 			
<ul style="list-style-type: none"> • Earth leakage and its magnitude 			
<ul style="list-style-type: none"> • Physical inspection, vermin proofing and general observations 			

Equipment	Testing Equipment to be used	Mandatory Requirement	Other Conditions
7. Checking/Testing of auxiliary transformer,			
• IR Value / PI	5 KV Insulation Resistance Tester	Valid calibration certificate	
• Oil Dielectric Strength	Motorised test set	Valid calibration certificate	
• Physical inspection and observations, Primary & Secondary side protection arrangements			
8. Checking/Testing of Control and Relay Panels			
• Secondary Injection to check the functioning of all relays	Secondary injection kit with timer facility	Valid calibration certificate	Differential relay to be tested with 3 phase double current source kit. All protection features of the relay to be tested, which will be discussed during detailed engineering
• Physical inspection, vermin proofing and general observations			
9. Earthing system			
• Earth Resistance value - Mesh			
• Earth Resistance value - Neutral of power and station auxiliary supply transformers			
10. General observation on substation protection system			