



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/75/2020-21

OPEN TENDER NOTIFICATION

FOR

Rate Contract for Batter Bank & Battery Charger

Tender Enquiry No.: TPCODL/P&S/75/2020-21, Rev 1

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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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 Supply 24V and 48V DC Battery Bank and Battery Charger for 33/11KV sub stations. Estimated Quantity: 24V DC- 25 Nos 48V DC- 18 Nos	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.



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- 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 (In case any of these documents is not available with the bidder, same to be explicitly mentioned in the 'Schedule of Deviations')

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

1.5 Deviation from Tender

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

1.6 Right of Acceptance/ Rejection

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

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

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

1.7 Qualification Criteria

1. The bidder should have average annual turnover of Rs 2.50 Cr. In last 3 financial years. Copy of audited P&L Account to be submitted in this regard.
2. The bidder should have executed either 100% of the average order value in line with clause no. 1.7.1 above, during last three years; or single order of 50% of the above value during last three years; or 2 orders of 30% each of the above value during last 3 years. Copy of work order / completion certificate to be submitted in this regard.
3. The bidder should have successfully executed order of Battery Bank and Battery Charger set for at least one of the reputed power utility in India. Copy of work order / completion certificate to be submitted in this regard.
4. 100% Subsidiaries of global companies are also eligible to bid if the qualification requirements stated above are met independently or in combination with the parent company.
5. Indian companies in joint venture relationship with global OEM or authorized Indian channel partner/sales representative of global OEM are also eligible to bid if the qualification requirements stated above are met independently or in combination with the OEM.

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



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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 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



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SECOND PART: "TECHNICAL BID" shall contain the following documents:

- a) Documentary evidence in support of qualifying criteria as per 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.
- g) Quality Assurance Plan/Inspection Test Plan for supply items *(if applicable)*
- h) Mandatory documents as per 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 Supply Battery Bank and Battery Charger"

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

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accompanied by certified true copies of the resolutions, extracts of Articles of Association, special or general Power of Attorney etc. to show clearly the title, authority and designation of persons signing the Bid on behalf of the Company. Satisfactory evidence of authority of the person signing on behalf of the Bidder shall be furnished with the bid.

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

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

3.2 Contact Information

All the bidders are requested to 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.



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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.

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



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signed, and whether the Bids are generally in order. TPCODL may ask for submission of original documents in order to verify the documents submitted in support of qualification criteria.

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

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

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

4.4 Techno Commercial Clarifications

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

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.



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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)
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 Performance Bank Guarantee as per GCC within 30 days of issuance of rate contract. PBG applicable shall 5% of Rate Contract Value. PBG submitted, shall be released after completion of applicable guarantee period plus one month.
- Guarantee applicable shall be as per technical specifications.
- Defective, poor quality and damaged material, if received, same will be rejected and needs to be lifted by Associate within 7 days time period from the date of intimation. TPCODL will not be responsible for delivery of such materials to Associate and for loss of such materials beyond 7 days time period. Associate need to replace such material with good quality material.
- BA shall submit GTP / Drawing within 2 weeks from issuance of rate contract, if applicable. In case BA does not get necessary approvals for issuance of manufacturing clearances / CAT-A within mentioned / mutually agreed timelines , then TPCODL reserve the right to cancel issued rate contract / release order and also reserve the right to forfeit EMD / PBG.
- Delivery period shall be 60 days from date of receipt of release order / CAT-A issuance, whichever is later.
- TPCODL shall short close the issued Release Order / Rate contract, in case of any quality 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.
- TENDER SAMPLE: Bidder has to demonstrate the performance of offered item in their bid within 10 days of bid opening to Engineering Group.

7.2 Drawing Submission & Approval

To be complied as mentioned in clause no. 19 of technical specification for Battery Bank and clause no. 18 of technical specification for Battery , Annexure II.

7.3 Delivery Terms

The delivery of material shall be made as per special condition of contract mentioned in point 7.1.

7.4 Warranty Period

To be complied as mentioned in clause no. 11 of technical specification, Annexure II.



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7.5 Payment Terms

On delivery of the materials in good condition and certification of acceptance by certified official, Associate shall submit the Bills/ Invoices in original in the name of Tata Power Company Limited to Invoice Desk and same shall be paid within 45 days from date of receipt of material and quality clearance 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.
- 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 are 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	Qty (Q)	UoM	Ex. Work (in Rs.) A	GST (in Rs.) B	Unit Price with GST (in Rs.) A+B	Amount (in Rs.) Q x (A+B)
1	24V DC Battery Bank and Battery Charger for 33/11KV sub stations	25	EA				
2	48V DC Battery Bank and Battery Charger for 33/11KV sub stations	18	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 landed price for TPCODL at their Cuttack & Bhubaneshwar store.
- 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 Battery Charger along with DCDB

CONTENTS

1. SCOPE
2. APPLICABLE STANDARDS
3. CLIMATIC CONDITIONS OF INSTALLATION
4. GENERAL TECHNICAL REQUIREMENTS
5. GENERAL CONSTRUCTION
6. NAME PLATE AND MARKING
7. TESTS
8. TYPE TEST CERTIFICATES
9. PRE-DISPATCH INSPECTION
10. INSPECTION AFTER RECEIPT AT STORES
11. GUARANTEE
12. PACKING
13. TENDER SAMPLE
14. TRAINING
15. QUALITY CONTROL
16. MINIMUM TESTING FACILITIES
17. MANUFACTURING ACTIVITIES
18. SPARES, ACCESSORIES AND TOOLS
19. DRAWINGS AND DOCUMENTS
20. GUARANTEED TECHNICAL PARTICULARS
21. SCHEDULE OF DEVIATIONS



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1.0	SCOPE	<p>This specification provides for design, Engineering, manufacture, stage testing, inspection and testing before dispatch, packing, forwarding and delivery at site - SMPS based battery charger with DCDB suitable for indoor installation, complete with all fittings accessories and associated mandatory auxiliary equipment which are required for efficient and trouble free operation.</p> <p>The system is required for reliable and uninterrupted D.C. supply for supplying D.C. Power to closing and tripping coils of circuit breakers, relays, IEDs etc. in TATA Power-CODL 33kV & 33kV Substations.</p> <p>It is not the intent to specify completely herein all the details of tech design and construction of material. However, the material shall conform in all respects to high standards of engineering, design and workmanship and shall be capable of performing in continuous commercial operation in manner acceptable to TATA POWER - CODL, who will interpret the meanings of drawings and specification and shall have the power to reject any work or material which, in his judgment is not in accordance therewith. The offered material shall be complete with all components necessary for their effective and trouble free operation. Such components shall be deemed to be within the scope of Bidder's supply irrespective of whether those are specifically brought out in this specification and/or the commercial order or not.</p>
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2.0	APPLICABLE STANDARDS	<p>The material covered by this specification shall unless otherwise stated be designed, constructed and tested in accordance with latest revisions of relevant Indian Standard and shall conform to the regulations of local statutory authorities.</p> <table border="1" data-bbox="432 517 1334 1417"> <tr> <td>IS:3895/1966</td> <td>Specification for the rectifier equipment</td> </tr> <tr> <td>IS: 1248</td> <td>Specification for Indicating instrument.</td> </tr> <tr> <td>IS:375 /1963</td> <td>Specification for wiring</td> </tr> <tr> <td>IS: 4540/1968</td> <td>Specification for Mono crystalline semiconductor rectifier Assemblies</td> </tr> <tr> <td>IS:13947/ 1993</td> <td>Specification for Air Break Switch/Contactor</td> </tr> <tr> <td>IS: 8828/1993</td> <td>Specification for Miniature circuit breaker</td> </tr> <tr> <td>IS:6619</td> <td>Safety code for semiconductor rectifier Equipment</td> </tr> <tr> <td>IS:2147</td> <td>Degree of protection for cubicle</td> </tr> <tr> <td>IS 6619: 1972</td> <td>Safety Code for Semi-conductor Rectifier Equipment</td> </tr> <tr> <td>UL 1564</td> <td>UL Standard for Safety Industrial Battery Chargers</td> </tr> <tr> <td>IEC 61000-4-17</td> <td>Electromagnetic compatibility (EMC) – Part 4-17: Testing and measurement techniques – Ripple on DC input power port immunity test</td> </tr> </table> <p><i>In case of any conflict on any technical particular in the specification, the stricter requirement mentioned in the relevant standard shall be valid.</i></p>	IS:3895/1966	Specification for the rectifier equipment	IS: 1248	Specification for Indicating instrument.	IS:375 /1963	Specification for wiring	IS: 4540/1968	Specification for Mono crystalline semiconductor rectifier Assemblies	IS:13947/ 1993	Specification for Air Break Switch/Contactor	IS: 8828/1993	Specification for Miniature circuit breaker	IS:6619	Safety code for semiconductor rectifier Equipment	IS:2147	Degree of protection for cubicle	IS 6619: 1972	Safety Code for Semi-conductor Rectifier Equipment	UL 1564	UL Standard for Safety Industrial Battery Chargers	IEC 61000-4-17	Electromagnetic compatibility (EMC) – Part 4-17: Testing and measurement techniques – Ripple on DC input power port immunity test
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3.0	CLIMATE CONDITIONS OF THE INSTALLATION	<p>The service conditions shall be as follows:</p> <ol style="list-style-type: none"> 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 																						



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		<p>7. Average number of rainy days per annum 120</p> <p>8. Average annual rainfall 150cm</p> <p>9. Earthquakes of an intensity in horizontal direction - equivalent to seismic acceleration of 0.3g</p> <p>10. Earthquakes of an intensity in vertical direction - equivalent to seismic acceleration of 0.15g (g being acceleration due to gravity)</p> <p>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. Therefore, Outdoor material and equipment shall be designed and protected for use in exposed, heavily polluted, salty, corrosive and humid coastal atmosphere</p> <p>The design of equipment and accessories shall be suitable to withstand seismic forces corresponding to an acceleration of 0.1 g.</p>																																																										
4.0	GENERAL TECHNICAL REQUIREMENT	<table border="1"> <thead> <tr> <th>S. No.</th> <th>Description</th> <th>Units</th> <th>TATA Power-CODL Requirement</th> <th>TATA Power-CODL Requirement</th> <th>To be filled by Bidder</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td>48 V Battery Charger</td> <td>24 V battery Charger</td> <td></td> </tr> <tr> <td>1</td> <td>Manufacturer Name</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>Type & Designation if any</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td>System DC voltage</td> <td>V</td> <td>48</td> <td>24</td> <td></td> </tr> <tr> <td>4</td> <td>Input AC voltage</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>a</td> <td>FC</td> <td>V</td> <td>415V +-10% 3 phase, 4 wire, 50Hz + 5%</td> <td>415V +-10% 3 phase, 4 wire, 50Hz + 5%</td> <td></td> </tr> <tr> <td>b</td> <td>FCB</td> <td>V</td> <td>415V +-10% 3 phase, 4 wire, 50Hz + 5%</td> <td>415V +-10% 3 phase, 4 wire, 50Hz + 5%</td> <td></td> </tr> <tr> <td>5</td> <td>Frequency</td> <td>Hz</td> <td>50</td> <td>50</td> <td></td> </tr> </tbody> </table>	S. No.	Description	Units	TATA Power-CODL Requirement	TATA Power-CODL Requirement	To be filled by Bidder				48 V Battery Charger	24 V battery Charger		1	Manufacturer Name					2	Type & Designation if any					3	System DC voltage	V	48	24		4	Input AC voltage					a	FC	V	415V +-10% 3 phase, 4 wire, 50Hz + 5%	415V +-10% 3 phase, 4 wire, 50Hz + 5%		b	FCB	V	415V +-10% 3 phase, 4 wire, 50Hz + 5%	415V +-10% 3 phase, 4 wire, 50Hz + 5%		5	Frequency	Hz	50	50					
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	6	Ampere/hour capacity	Ah	to be noted by the bidder in line with the applicable battery	to be noted by the bidder in line with the applicable battery	
	7	Battery Charger Ratings				
	a	FC	A	40	40	
	b	FCB	A	40	40	
	8	No. of SMPS modules				
	a	FC		N+1	N+1	
	b	FCB		N+1	N+1	
	7	Number of cells	No. s	to be noted by the bidder in line with the applicable battery	to be noted by the bidder in line with the applicable battery	
	8	Nominal Voltage	V	48	24	
	9	Output Voltage adj.	V	to be provided by the bidder	to be provided by the bidder	
	10	Performance parameters				
	a	Voltage Ripple	mV	< 200 mV	< 200 mV	
	b	Efficiency		Better than 90%	Better than 90%	
	c	Operating Temp.		minus 5°C to plus 60°C	minus 5°C to plus 60°C	
	d	Power factor at 50% and 100% load		0.99 @ 50-100% load	0.99 @ 50-100% load	
	11	Soft Start time		to be provided by the bidder	to be provided by the bidder	
	12	Load Regulation (Voltage)`		±1%	±1%	



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		12	Regulation:				
		a	Output voltage over shoot/under shoot when charger is switched on		to be provided by the bidder	to be provided by the bidder	
		b	DC output voltage over shoot for a step change in AC voltage 165V to 260V single phase		to be provided by the bidder	to be provided by the bidder	
		c	DC output voltage for a step load change of 25% to 100%		to be provided by the bidder	to be provided by the bidder	
		13	Float Charger				
		a	Rating	A	to be provided by the bidder	to be provided by the bidder	
		b	Float voltage per cell	V	to be provided by the bidder	to be provided by the bidder	
		c	Float voltage (for Battery Bank)	V	As per application required (Ni-Cd Battery / Li-Ion Battery)	As per application required (Ni-Cd Battery / Li-Ion Battery)	
		d	Maximum Float charging current	A	to be provided by the bidder	to be provided by the bidder	
		14	Float cum Boost Charger				
		a	Rating	A	to be provided by the bidder	to be provided by the bidder	
		b	Boost voltage per cell	V	to be provided by the bidder	to be provided by the bidder	
c	Boost voltage (for Battery Bank)	V	As per application required (Ni-Cd Battery / Li-Ion Battery)	As per application required (Ni-Cd Battery / Li-Ion Battery)			



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	d	Maximum Boost charging current	A	to be provided by the bidder	to be provided by the bidder	
	16	Protection for Control circuit		Control circuit : MCB	Control circuit : MCB	
	17	Construction Details				
	a	Colour Shade		Shade RAL 7032	Shade RAL 7032	
	b	Paint Thickness	Micro n	80-100 micron	80-100 micron	
	c	Thickness of CR sheet steel	mm	3 mm for load bearing parts & 2 mm for others	3 mm for load bearing parts & 2 mm for others	
	d	Cable Entry		Bottom	Bottom	
	18	Degree of Protection		IP-42	IP-42	
	19	Recommended clearance on rear side		to be provided by the bidder	to be provided by the bidder	
	20	Recommended clearance on front side		to be provided by the bidder	to be provided by the bidder	
	21	Overall Maximum Dimensions (W X D X H)	mm	W X H X D 1800 X 1900 X 800 mm	W X H X D 1800 X 1900 X 800 mm	
	22	Mounting Type		Free standing floor mounting, Indoor	Free standing floor mounting, Indoor	
	23	DC Distribution Board				
	a	Feature of DCDB feeder ON/OFF status monitoring through controller display		Yes	Yes	
	b	Feature of DCDB earth fault monitoring through controller display		Yes	Yes	



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	c	I/C feeder comprising of copper busbar double pole DC MCCB - 300 A	Qty .	1 nos.	1 nos.	
	d	O/G feeder comprising of double pole 25A MCB	Qty .	12 nos.	12 nos.	
	e	Moving coil DC voltmeter of size 96sq.mm with HRC fuse 0-300V	Qty .	1 nos.	1 nos.	
	f	Moving coil DC ammeter of size 96sq.mm;0-150A	Qty .	1 nos.	1 nos.	
	g	24V/40A Copper bus bar (size to be mentioned by bidder)		Copper bus bar	Copper bus bar	
	24	Dropper Diode scheme		Yes	Yes	
	25	Surge Protection device (SPD) class		Type-1	Type-1	
	26	Earthing bus bar		25x3 sqmm tinned copper	25x3 sqmm tinned copper	
	27	Cooling		Speed regulated Fan cooled	Speed regulated Fan cooled	
	28	Digital leakage current Indicator		Yes	Yes	
	29	Lamp indication to be provided whether battery charger is running on Float mode or Boost Mode.		Yes	Yes	
	30	Alarm Annunciation				
		a) Load voltage high		Yes	Yes	



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	b) Over voltage, under voltage or output fail.	Yes	Yes	
	c) Mains out of range	Yes	Yes	
	d) System Over Load	Yes	Yes	
	e) Mains ON/Battery Discharge	Yes	Yes	
	f) Temp. Compensation fail	Yes	Yes	
	g) Battery Fail or No Battery	Yes	Yes	
	h) Battery Isolated from the load	Yes	Yes	
	i) DC Earth Leakage	Yes	Yes	
	j) I/P MCCB Trip/Off	Yes	Yes	
	k) FC & FCB O/P MCCB Trip/Off	Yes	Yes	
	l) DCDB Incomer MCCB Trip/Off	Yes	Yes	
	m) Rectifier Module fail	Yes	Yes	
3 1	Controller shall have display feature consisting of following features:			
	Float Voltage	Yes	Yes	
	Boost Voltage	Yes	Yes	
	Float Current	Yes	Yes	
	Boost Current	Yes	Yes	



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		Load Voltage	Yes	Yes												
		Load Current	Yes	Yes												
		Battery Voltage	Yes	Yes												
		Battery Current	Yes	Yes												
		DC Earth Leakage	Yes	Yes												
5.0	GENERAL CONSTRUCTION	<p>The battery chargers of 48V/40Amp and 24V/40 Amp in N+1 configuration with ultimate capacity 80 Amp shall be of SMPS type suitable for both Ni-Cd and Li-Ion Batteries. The system shall consist of a Distribution/Switching/Alarms arrangement (DSA) and Float /Boost Rectifier-cum-Chargers (FC/FCB) in a rack. It shall employ modular configuration for flexible provision of DC Power. It shall employ menu driven Micro Processor Controlled Techniques for DSA as well as module for control, monitoring and alarm to achieve better reliability of the system. The SMPS battery chargers shall be capable of continuous operation with float voltage for Ni-Cd Batteries & Li-Ion batteries while supplying the constant DC load.</p> <p>The SMPS battery chargers shall have constant voltage characteristics throughout the range (from zero to full load) at the floating value of the voltage so as to keep the batteries fully charged but without harmful overcharge.</p> <p>The system shall employ a modular configuration to provide flexibility in view the future load requirements of DC power. All factory wiring for the rack shall be for the ultimate capacity so that only plugging of FR/FC module shall enhance the DC power plant output. The modules shall be accommodated in a rack.</p> <p>Following are the major components which should be considered in float charger:</p>														
		<table border="1"> <thead> <tr> <th>S.No</th> <th>Component Name</th> <th>Float Charger</th> <th>Float Cum Boost Charger</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Triple pole ON/OFF AC Molded Case Circuit Breaker (MCCB 50 KA) for the AC incoming of the FC or FCB Charger with alarm contact for annunciation.</td> <td>1 No.</td> <td>1 No.</td> </tr> <tr> <td>2</td> <td>LED type pilot lamps with series resistors to indicate AC mains 'ON' condition</td> <td>3 Nos.</td> <td>3 Nos.</td> </tr> <tr> <td>3</td> <td>Double wound impregnated naturally air cooled three phase mains transformer necessary secondary tapes for achieving required control DC output voltage.</td> <td>1 No.</td> <td>1 No.</td> </tr> </tbody> </table>	S.No	Component Name	Float Charger	Float Cum Boost Charger	1	Triple pole ON/OFF AC Molded Case Circuit Breaker (MCCB 50 KA) for the AC incoming of the FC or FCB Charger with alarm contact for annunciation.	1 No.	1 No.	2	LED type pilot lamps with series resistors to indicate AC mains 'ON' condition	3 Nos.	3 Nos.	3	Double wound impregnated naturally air cooled three phase mains transformer necessary secondary tapes for achieving required control DC output voltage.
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2	LED type pilot lamps with series resistors to indicate AC mains 'ON' condition	3 Nos.	3 Nos.													
3	Double wound impregnated naturally air cooled three phase mains transformer necessary secondary tapes for achieving required control DC output voltage.	1 No.	1 No.													



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		4	Three phase, full wave, fully controlled rectifier bridge comprising of MOSFETs/IGBTs liberally rated, mounted on heat sinks and complete with resistor/condenser network for surge suppression, with rectifier MCBs & its trip alarm indication	1 No.	1 No.
		5	Filter circuit comprising of smoothing choke and condenser with MCBs for condenser & its trip alarm indication.	1 No.	1 No.
		6	Electronic controller to stabilize the DC output voltage of the float charger as per battery cell voltage for input voltage variation of +/-10% from 415V, frequency variation of +/-5% from 50 Hz and simultaneous DC load variation of 0-100% and also complete with load limiting circuit to droop the float charger output voltage upon overloads to enable the Battery to take over	1 No.	1 No.
		7	Dropper diode selector switch with minimum three positions along bypass scheme in case voltage reaches to one specified level.	as per battery design	as per battery design
		8	Auto/Manual selector switch for selecting the mode of operation of float charger	1 No.	1 No.
		9	Potentiometers for setting DC output voltage in the Auto Mode and for adjusting the voltage in the Manual Mode	1 set of two Nos.	1 set of two Nos.
		10	The float charger DC output current measurement.	1No.	1No.
		11	The float charger DC output voltage measurement.	1 No.	1 No.
		12	Double pole ON/OFF DC Molded Case Circuit Breaker (MCCB 10KA) for the float charger Output With alarm contact for annunciation	1 No	1 No
		13	Float Charger Blocker diode with suitable heat sink	1 set	1 set
		14	DC 'ON' indicating LED type pilot lamp	1 No.	1 No.
		15	Float charger DC under voltage Sensing	1 No.	1 No.



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		16	Float charger DC over voltage Sensing	1 No.	1 No.
		17	Auxiliary AC contactor to be interlocked with the DC contactor on the positive bus		1 No.
		18	Constant current/ Constant voltage selector switch to select the Boost/ Float mode of operation for the Float cum Boost charger		1 No.
		19	DC contactor with power ' NC' contact interlocked with the AC Auxiliary Contactor of the float cum boost charger so that whenever the float cum Boost charger operated in its constant current Mode, the contact of DC Contactor on the positive bus bar opens out thus preventing the reflection of the excessive boost charging voltage across the DC load terminals.	1 No.	1 No.
		20	Silicon blocking diode connected in series to the 84th cell of the Battery Bank to maintain continuity in the DC supply even during the second power failure during boost charging of the battery (required in case of Ni-cd Battery)	2 Nos.	2 Nos.
		21	The charge/ discharge current of Battery	1 No.	1 No.
		22	Double pole ON/OFF DC MCB with lock and key for connecting the discharge resistor for periodical 10Hr discharge	1 No.	1 No.
		23	The Battery voltage to be measure of MU1000C or equivalent for SCADA compatibility	1 No.	1 No.
		24	Earth fault sensing	1 No.	1 No.
		25	Battery DC Voltage low Sensing	1 No.	1 No.
		26	Battery DC Voltage high sensing	1 No.	1 No.
		27	Digital meters : - AC Moving iron Voltmeter of size 96 Sq. mm. with suitable selector switch & HRC fuses –	1 Set	1 Set



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		28	Digital meters :- AC Moving iron ammeter of size 96 Sq.mm. with suitable current transformer & selector Switch	1 Set	1 Set
		29	AC mains under/over voltage circuit solid state sensing type	1 No.	1 No.
		30	Space heater (80 W) with Thermostat with MCB	1 No.	1 No.
		31	Cubicle Lamp of LED type with an ON/OFF switch and a fuse	1 No.	1 No.
		32	3 pins 5 A sockets as convenience outlet with an On/Off switch and a fuse	1 No	1 No
		33	<p>Alarm Annunciation</p> <ul style="list-style-type: none"> a) Load voltage high b) Over voltage, under voltage or output fail. c) Mains out of range d) System Over Load e) Mains ON/Battery Discharge f) Temp. Compensation fail g) Battery Fail or No Battery h) Battery Isolated from the load i) DC Earth Leakage j) I/P MCCB Trip/Off k) FC & FCB O/P MCCB Trip/Off l) DCDB Incomer MCCB Trip/Off m) Rectifier Module fail <p>All alarm circuits shall be provided with suitable delay to ensure that they do not operate to transient. Every alarm, condition shall be accompanied with an audio alarm with audio cut off facility.</p> <p>Potential free contacts two (one for alarm and one redundant) shall be provided for extension of alarms to centralized display.</p>	1 No.	1 No.
		34	Microprocessor based Digital Controller form to suit SCADA Compatibility through Mod Bus or Supporting Protocol.	1 No.	1 No.



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	<p>Controller shall have display feature consisting of following features:</p> <p>Float Voltage</p> <p>Boost Voltage</p> <p>Float Current</p> <p>Boost Current</p> <p>Load Voltage</p> <p>Load Current</p> <p>Battery Voltage</p> <p>Battery Current</p> <p>DC Leakage</p> <p>Additionally analog meter dedicated for monitoring of DC leakage to be provided.</p>		
35	Digital leakage current Indicator	1 No.	1 No.
36	Lamp indication to be provided whether battery charger is running on Float mode or Boost Mode.	1 No.	1 No.
37	Any item not specifically mentioned, but required for efficient working of the equipment	As applicable	As applicable
<p>DC Distribution Board :</p> <p>The DCDB shall be floor mounting, integral to battery charger panel. Non compartmentalized, separate partition shall be provided between battery charger and DCDB. It shall have Moving coil DC voltmeter of size 96 sq.mm with HRC fuse 0-300V and Incoming Feeder 300A DC, Copper Bus-bar, MCCB: 1 No., Outgoing Feeder 25A DC MCB : 12 Nos. with Feeder 'ON' LED indication.</p> <p>Battery bank shall be connected to battery charger MCCB/CB, therefore MCCB/CB to be considered in Battery charger for battery bank connection for safe disconnection of battery bank in case of O&M activity.</p> <p>General Features :</p>			



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		<ol style="list-style-type: none">1. The Float charger, Float cum Boost charger with other Components and Integral DCDB shall be housed in a common cubicle with separate compartments for float & boost charger and for DCDB. The Chargers shall be indoor, floor mounted, self-supporting sheet metal enclosed cubicle type. The Bidder shall supply all necessary base frames, anchor bolts and hardware. The Charger shall be fabricated using cold rolled sheet steel shall not less than 1.6 mm and shall have folded type of construction. The panel frame shall be fabricated using cold rolled sheet steel of thickness not less than 3.0 mm (for load bearing members). Removable undrilled gland plates of at least 3.0 mm sheet steel and lugs for all cables shall be supplied by the Bidder. The lugs for cables shall be made of electrolytic copper with tin coat. The Charger shall have sufficient vermin proof. Ventilation louvers shall be backed with fine brass wire mesh.2. All the door mounted equipment as well as equipment mounted inside the cabinet shall be provided with individual riveted /life lasting adhered labels with equipment description engraved.3. All doors and covers shall be fitted with EPDM gaskets. The Chargers shall have hinged double leaf doors provided on front and/or backside for adequate access to the Charger internals. All the Charger cubicle doors shall be properly earthed. The degree of protection of Charger enclosure shall be at least IP-42.4. Battery Charger shall be provided with earth bus bar of tinned copper flat, having minimum cross section 25x3 Sq. mm flat securely fixed along with base and provision on both the sides of earth bus for connecting purchaser's earthing grid.5. Redundancy arrangement for input AC supply: Dual source provision to be considered in battery charger. MCCB for individual source to be considered6. Conformal coating on all electronics components to be considered.7. All indicating instruments, control & selector switches and indicating lamps shall be mounted on the front side of the Charger.8. Electronic equipment shall be of modular design consisting of plug in modules in standard 19 inches metallic racks with metallic card guides. The cards should be provided with proper handles. Card to card wiring should be preferably through a mother board. Unplanned jumpering and track modifications are not permitted. Mechanical interlocks to prevent wrong insertion of
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		<p>cards should be provided. Each card shall have its junction and test points identified. Maintenance aids such as extension printed wiring boards and jumper leads shall be provided.</p> <p>9. The layout of Charger components shall be such that their heat losses do not give rise to excessive temperature within the Charger panel surface. Operating temperature range shall be minus 5°C to plus 60°C. Location of the electronic modules will be such that temperature rise of the location, in no case, will exceed 10°C over ambient air temperature outside the Charger.</p> <p>10. The electronic control circuitry should have built in feature of soft start so that whenever the charger is switched on, the output voltage should increase gradually.</p> <p>11. The float section of the charger shall be compatible to operate in auto (fully automatic) as well as manual mode with a provision of selection through Auto/Manual switch and all related components & scheme</p> <p>12. Normally the float charger shall operate in parallel with the 24 V, battery set and the load. The float charger shall supply the DC loads of the sub-station and also provide the trickle charge for keeping the battery set floating totaling up to full capacity. For this condition, the float charger shall be designed to trickle charge all the cells between 21.7 V to 27 V and supply DC load of the sub-station, keeping the load bus-bar voltage approximately at rated voltage of DC load components by using dropper diodes.</p> <p>13. The boost charger and the float charger shall be so interlocked electrically that during boost charging of the battery, the float charger will supply the DC constant load without supplying to the battery, and at the same time will be in parallel with the battery through a reverse current blocking diode at a suitable tapping. One DC contactor may be incorporated which shall get engaged through N/C contact of the contactor on AC side of the boost charger. In case of failure of AC supply, this contactor shall connect the entire battery supply to the load through one of its N/O contacts automatically without any interruption of DC supply even of a momentary nature. Under no circumstances the voltage across lower tapped terminals shall exceed (+) 10% or fall below (-) 15% of the rated voltage.</p> <p>14. Suitable Surge protection Devices must be used for voltage surge protection.</p>
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		<p>15. Charger Output: Suitable ripple filtering circuits shall be provided to give a smooth DC output. The ripple content, without the battery connected shall be limited to less than 3% on resistive load. The DC output shall be free from switching surges, transients, etc.</p> <p>16. Locking facilities shall be provided as following:</p> <p>(a.) For locking Trickle/Boost selector switch in the trickle position only. This would be used for having key mechanical interlock between Trickle/Boost selector switch and isolator in D.C. distribution board which is being procured separately by the Owner.</p> <p>(b.) The Charger enclosure door locking requirements shall be met by the application of padlocks. Padlocking arrangement shall allow ready insertion of the padlock shackle but shall not permit excessive movement of the locked parts with the padlock in position.</p> <p>WIRING</p> <ul style="list-style-type: none">• Each Charger shall be furnished completely wired up to power cable lugs and terminal blocks ready for external connection. The power wiring shall be carried out with 1.1 KV grade PVC insulated copper cables conforming to IS:1554 (Part-I). The control wiring shall be of 1.1KV grade PVC insulated stranded copper conductors of 2.5sq.mm. Conforming to IS: 694. Control wiring terminating at electronic cards shall not be less than 1.0 sq. mm. Control terminal shall be suitable for connecting two wires with 2.5 sq.mm. Stranded copper conductors. All terminals shall be numbered for ease of connections and identification. At least 20% spare terminals shall be provided for circuits. The wiring shall have fire resistant (FRLSH) properties.• Power and control wiring within panels shall be kept separate. Any terminal or metal work which remains alive at greater than 415 V, when panel door is opened, shall be fully protected by shrouding. All hardware such as screws nuts, studs, washers shall be of brass and no ferrous parts shall be used in electrical circuitry control / power.• An air clearance of at least ten (10) mm shall be maintained throughout all circuits, except low voltage electronic circuits, right up to the terminal lugs. Whenever this clearance is not available, the live parts should be insulated or shrouded. <p>AC Terminations</p> <ul style="list-style-type: none">• The input terminal should be single phase or three phases as the case may be cleared marked as R Y B and N and for AC three phase, L and N for AC single phase.AC input termination shall be suitably protected against the accidental
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	<p>touch/contact with the working staff for their protection and shall also have clear and prominent be “Danger” marking.</p> <ul style="list-style-type: none">• Screening shall be provided between AC and DC components to prevent accidents. The AC input connection to the rectifier module shall be by means of locking type plug and socket arrangement.• All the connection between distribution and modules shall be through proper rated cables only. Fuses and circuit breakers for each modules shall be easily accessible and properly rated. <p>DC Terminations</p> <ul style="list-style-type: none">• The output of each rectifier in the negative load shall be taken through full rated ISI marked MCBs. All the AC, DC control & alarm cabling shall be supplied with the rack. All DC +ve and - ve leads shall be clearly marked. <p>Battery Temperature Compensation.</p> <ul style="list-style-type: none">• The charger shall be provided with the appropriate circuitry to interface with the temperature probe assembly. With the probe, the charger shall automatically compensate gassing and constant voltage setting inversely proportional to the probe’s temp/ battery ambient temp., so that over charging at high temperature and under charging at low temperature can be prevented. <p>MCB</p> <ul style="list-style-type: none">• Suitable rated MCBs are to be considered. MCB rating shall be chosen by the Bidder depending on the circuit requirement. All MCBs in the chargers shall be monitored. MCB OFF/failure annunciation shall be provided on the OFF/failure of any MCB.. <p>Blocking Arrangements</p> <ul style="list-style-type: none">• Blocking arrangement shall be provided in the positive pole of the output circuit of the charger to prevent current flow from the DC battery into the charger. <p>Radio Interference</p> <ul style="list-style-type: none">• The equipment shall be efficiently screened against interference to radio and also other communication equipment, which may be installed in the same building. All sources of noise shall be filtered if necessary with suppressors generally in accordant with relevant standards. <p><u>Additional Features Required:</u></p> <ul style="list-style-type: none">• The SMPS modules should be hot swappable modules.
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	<ul style="list-style-type: none">• The spare modules should be easily replaced without any shut downs & there should be no downtime of the system.• Despite a breakdown in the Monitoring unit or disturbances on bus, system stability should not affect.• Less voltage drop in the output. (as per voltage regulation)• Selective over voltage shut down• Provision for Battery Capacity Test.• No requirement of additional hardware for changing of parameters at site.• Settable Time delay & hysteresis for each alarm• Event history records (min. 100 records storage) with time stamp for fault analysis• Remote monitoring of parameters• DCDB feeder ON & OFF status monitoring through controller display feature should be available.• DCDB individual feeder earth fault monitoring through controller display feature to be added <p>Following are the minimum Mandatory signal Requirement for DCDB signals for ADMS (SCADA):</p> <p>Measurement signals :</p> <ol style="list-style-type: none">1. DC load voltage2. Load current3. Float Current4. Float cum Boost Current <p>Alarm signals :</p> <ol style="list-style-type: none">1. DC earth Leakage2. UV Alarm3. OV Alarm4. Main-1 Ac fail5. Main-2 AC fail
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		<p>6. FC Charger fail</p> <p>7. FCBC charger fail</p> <p>8. Major card/components failure</p> <p>Battery Charger with DCDB shall be integrated with TATA Power-CODL SCADA over Modbus-RTU or TCP/IP protocol. If any kind of software required for configuration, then same to be supplied by the bidder. Kindly note that voltage exact value to be mapped in SCADA. No calculation formula is acceptable.</p> <p>Vendor shall depute their service engineer during installation and commissioning stage for required checks and assist TATA Power-CODL in commissioning of Battery Charger.</p> <p>Service Level Agreement:</p> <ol style="list-style-type: none"> Bidder shall have all facilities necessary for testing, repairing & failure analysis of the system. Spare parts for repairs should be available ex-stock at bidder's works. Manufacturer Service person availability within 4 hrs from the issue reporting time. Issue shall be reported by TATA Power-CODL either via telephonically or email. Vendor shall provide detailed root cause analysis of the fault within 15 days from the date of occurrence of the fault/ failure. Any spare part replacement, testing and its commissioning to be done by the vendor only, without any price implication to the purchaser.
<p align="center">6.0</p>	<p align="center">NAME PLATE AND MARKING</p>	<p>Battery Charger shall be provided with durable and legible nameplates containing all technical parameters mounted on the front side of charger. Name plate for Battery Charger shall be embossed with "PO no. with date", "PROPERTY OF TATA POWER - CODL, BHUBANESHWAR", "MATERIAL CODE", along with the following information :</p> <ul style="list-style-type: none"> Name of manufacturer. Serial Number Rated voltage Rated normal current in Amps. Year & Month of Manufacture. Warrantee Period Applicable IS/IEC



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		<p>Following points needs to be painted on the front side and shall be visible. Background shall be in yellow color.</p> <p>(Front : Arial; size: 100; Polyurethane paint shall be used. Board formation shall be 100x200 mm)</p> <p>Equipment Description-</p> <p>Rating-</p> <p>Make-</p> <p>S.no-</p> <p>YOM-.....</p> <p>Equipment ID. -.....(It will written by TPCODL)</p> <p>Asset no- (It will written by TPCODL))</p>																		
7.0	TESTS	<p>All routine, acceptance & type tests shall be carried out in accordance with the relevant IS/IEC.</p> <p>All acceptance tests shall be witnessed by TATA Power-CODL's authorized representative.</p> <p>All the components shall be type tested as per the relevant standards.</p> <p><i>In case of any conflict on any technical particular in the specification, the stricter requirement mentioned in the relevant standard shall be valid.</i></p> <p>TYPE TESTS:</p> <table border="1"> <thead> <tr> <th rowspan="2">S.No.</th> <th rowspan="2">Test name</th> <th colspan="2">Specific value</th> </tr> <tr> <th>Clause No.</th> <th>Reference Standard</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Voltage regulation test</td> <td>cl. 6.8.7</td> <td>IS 4540</td> </tr> <tr> <td>2</td> <td>Power losses in rectifier assemblies</td> <td>cl. 6.8.2</td> <td>IS 4540</td> </tr> <tr> <td>3</td> <td>Measurement of Efficiency</td> <td>cl. 6.8.9</td> <td>IS 4540</td> </tr> </tbody> </table>	S.No.	Test name	Specific value		Clause No.	Reference Standard	1	Voltage regulation test	cl. 6.8.7	IS 4540	2	Power losses in rectifier assemblies	cl. 6.8.2	IS 4540	3	Measurement of Efficiency	cl. 6.8.9	IS 4540
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4	Temperature rise test	cl. 6.8.11	IS 4540
5	Degree of protection test	IP 42	IS 2147
6	HV Test	2.5kV for 1 min	IS 2071
7	Insulation resistance	cl. 6.8.12	IS 4540
8	Test for protection device		Test for protection device
9	Measurement of power Factor	cl. 6.8.10	IS 4540
10	Automatic Voltage regulator operation	cl. 6.8.8	IS 4540

ROUTINE & ACCEPTANCE TESTS:

S.No.	Test name	Specific value	
		Clause No.	Reference Standard
1	Visual inspection and dimensions	Cl 5.0	ENG-EHV- 1014
2	Checking of wiring & continuity of circuits	Cl 5.0	ENG-EHV- 1014 & Drg
3	Ripple content measurement	Cl 5.0	ENG-EHV- 1014
4	No load test	cl. 5.6	IS3895
5	Insulation resistance	cl. 6.8.12	IS 4540
6	Load test with voltage regulation	cl. 5.6	IS3895



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8.0	TYPE TEST CERTIFICATES	<p>The bidder shall furnish the type test certificates for the tests as mentioned above as per the corresponding standards. All the tests shall be conducted at CPRI / ERDA as per the relevant standards. Type test should have been conducted in certified Test Laboratories during the period not exceeding 5 years from the date of opening the bid. In the event of any discrepancy in the test reports i.e. any test report not acceptable, same shall be carried out without any cost implication to TATA POWER - CODL.</p>																				
9.0	PRE-DISPATCH INSPECTION	<p>Equipment shall be subject to inspection by a duly authorized representative of the Purchaser. Inspection may be made at any stage of manufacture at the option of the purchaser and the equipment if found unsatisfactory as to workmanship or material is liable to rejection. Bidder shall grant free access to the places of manufacture to Purchaser's representatives at all times when the work is in progress. Inspection by the Purchaser or its authorized representatives shall not relieve the bidder of his obligation of furnishing equipment in accordance with the specifications. Material shall be dispatched after specific MDCC (Material Dispatch Clearance Certificate) is issued by the Purchaser.</p> <p>Following documents shall be sent along with material:</p> <ol style="list-style-type: none"> 1) Test reports 2) MDCC issued by Purchaser 3) Invoice in duplicate 4) Packing list 5) Drawings & catalogue 6) Guarantee / Warrantee card 7) Delivery Challan 8) Other Documents (as applicable) 																				
10.	INSPECTION AFTER RECEIPT AT STORES	<p>The material received at Purchaser's store shall be inspected for acceptance and shall be liable for rejection, if found different from the reports of the pre-dispatch inspection and one copy of the report shall be sent to Project Engineering department.</p>																				



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11.	GUARANTEE	<p>Bidder shall stand guarantee towards design, materials, workmanship & quality of process/manufacturing of items under the contract for due and intended performance of the same, as an integrated product delivered under this contract. In the event any defect is found by the Company up to a period of 60 months from the date of commissioning or 66 months from the date of last supplies made under the contract, whichever is earlier, bidder shall be liable to undertake to replace/rectify such defects at his own costs, within mutually agreed timeframe, and to the entire satisfaction of the Company, failing which the Company will be at liberty to get it replaced/rectified at bidder's risks and costs and recover all such expenses plus the Company's own charges(@ 20% of expenses incurred), from the supplier or from the " Security cum Performance Deposit" as the case may be.</p> <p>Bidder 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.</p>
12.	PACKING	Supplier shall ensure that all equipment covered by this specification shall be prepared for rail/road transport (local equipment) and be packed in such a manner as to protect it from damage in transit
13.	TENDER SAMPLE	NA
14.	TRAINING	Bidder shall have to arrange necessary training for TATA Power-CODL staff for 5 Man days at manufacturer's works. Accommodation, Travel, food expenses shall be borne by TATA Power-CODL
15.	QUALITY CONTROL	The bidder shall submit with the offer Quality assurance plan indicating the various stages of inspection, the tests and checks which will be carried out on the material of construction, components during manufacture, bought out items and fully assembled component and equipment including drives. As part of the plan, a schedule for stage and final inspection within the parameters of the delivery schedule shall be furnished. The Purchaser's engineer or its nominated representative shall have free access to the manufacturer's/sub-supplier's works to carry out inspections.
16.	MINIMUM TESTING FACILITIES	Bidder shall have adequate in house testing facilities for carrying out all routine tests & acceptance tests as per relevant International / Indian standards.
17.	MANUFACTURING ACTIVITIES	The successful bidder will have to submit the bar chart for various manufacturing activities clearly elaborating each stage, with quantity. This bar chart should be in line with the Quality assurance plan submitted with the offer. This bar chart will have to be submitted within 15 days from the release of the order.



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18.	SPARES, ACCESSORIES & TOOLS	<p>Mandatory Spares:</p> <p>Following spares to be provided by the bidder without any extra price implications</p> <p>a) Surge Protection Device (SPD) – 1 nos. b) Indicating Lamps – 5 nos.</p> <p>One no. display Controller shall be supplied as spare whenever more than 4 no. of battery chargers procured in the same tender.</p> <p>Maintenance Spares:</p> <p>The bidder shall submit a list of spares recommended for maintenance for 3 years of smooth and trouble free operation along with item wise price.</p>
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19.	DRAWING & DOCUMENTS	S.No.	Description	For Apporval	For Review Information	Final Submission	
		1	Technical Parameters	√		√	
		2	GA drawings – Front view, Rear view, Top view, Side View, Internal front view, Internal rear view, Sectionalized side view	√		√	
		3	Foundation drawing showing cable cutouts and foundation bolt pockets.	√		√	
		4	Name Plate Details	√		√	
		5	Basis of Design Document (including Bill of Material)	√	√	√	
		6	Internal wiring Diagram including schematic drawing	√		√	
		7	Installation Instruction		√	√	
		8	Transport / Shipping dimension drawing		√	√	
			QA & QC Plan	√	√	√	
			Test Certificates	√	√	√	



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		<p>Following drawings and documents shall be prepared based on Purchaser's specifications and statutory requirements and shall be submitted with the bid:</p> <ul style="list-style-type: none">a. General description of the equipment and all Components including brochures.b. Basis of Design Documentc. SLDd. All sizing Calculationse. General arrangement drawingsf. Bill of materialg. Experience Listh. Type test certificates <p>After the award of the contract, four (4) copies of following drawings, drawn to scale, describing the equipment in detail shall be forwarded for approval. Bidder shall be subsequently provide four (4) complete sets of final drawings, one of which shall be auto positive suitable for reproduction, before the dispatch of the equipment. Soft copy (Compact Disk CD) of all the drawing, GTP, Test certificates shall be submitted after the final approval of the same to purchaser.</p> <p>All the documents & drawings shall be in English language. Instruction Manuals: Bidder shall furnish two softcopies (CD) and four (4) hard copies of nicely bound manuals (In English language) covering erection and maintenance instructions and all relevant information and drawings pertaining to the main equipment as well as auxiliary devices.</p>
20.	GUARANTEED TECHNICAL PARAMETERS	Bidder to submit clause wise compliance and submit with the technical bid



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21.	SCHEDULE OF DEVIATIONS	<p>The bidders shall set out all deviations from this specification, Clause by Clause in this schedule. Unless specifically mentioned in this schedule, the tender shall be deemed to confirm the purchaser's specifications.</p> <p style="text-align: center;"><u>SCHEDULE OF DEVIATIONS:</u></p> <p style="text-align: center;"><u>(TO BE ENCLOSED WITH TECHNICAL BID)</u></p> <p>All deviations from this specification shall be set out by the bidders, clause by Clause in this schedule. Unless specifically mentioned in this Schedule, the tender shall be deemed to confirm the purchaser's specifications:</p> <table border="1" data-bbox="432 846 1177 981"><thead><tr><th>S. No.</th><th>Clause No.</th><th>Details of deviation with justification</th></tr></thead><tbody><tr><td> </td><td> </td><td> </td></tr></tbody></table> <p>We confirm that there are no deviations apart from those detailed above.</p> <p>Seal of the Company</p> <p style="text-align: right;">Signature:</p> <p style="text-align: right;">Designation:</p>	S. No.	Clause No.	Details of deviation with justification			
S. No.	Clause No.	Details of deviation with justification						



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Annexure

Inspection Testing Plan

S.No.	Test name	Specific value	
		Clause No.	Reference Standard
1	Visual inspection and dimensions	Cl 5.0	ENG-EHV- 1014
2	Checking of wiring & continuity of circuits	Cl 5.0	ENG-EHV- 1014 & Drg
3	Ripple content measurement	Cl 5.0	ENG-EHV- 1014
4	No load test	cl. 5.6	IS3895
5	Insulation resistance	cl. 6.8.12	IS 4540
6	Load test with voltage regulation	cl. 5.6	IS3895
7	Efficiency tests	cl. 6.8.9	IS 4540
8	Operational tests for protection, alarm, indication	Cl 5.0	ENG-EHV- 1014 & Drg
9	Auto/Manual operation test	Cl 5.0	ENG-EHV- 1014 & Drg
10	Temperature rise test	cl. 6.8.11	IS 4540
11	HV test	2.5kV for 1 min	IS 2071



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TECHNICAL SPECIFICATION FOR LEAD ACID BATTERY 24/48V, 100AH

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- 20.0 SCHEDULE OF DEVIATIONS**



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1.0	SCOPE	<p>This specification covers the technical requirements of design, manufacture, testing at manufacturer's works, packing, forwarding, supply and unloading of lead acid 24/48V, 100 AH Battery at site/ stores complete with all accessories for efficient and trouble free-operation.</p> <p>It is not the intent to specify completely herein all the details of tech design and construction of material. However, the material shall conform in all respects to high standards of engineering, design and workmanship and shall be capable of performing in continuous commercial operation in manner acceptable to TATA POWER - CODL, who will interpret the meanings of drawings and specification and shall have the power to reject any work or material which, in his judgment is not in accordance therewith. The offered material shall be complete with all components necessary for their effective and trouble free operation. Such components shall be deemed to be within the scope of Bidder's supply irrespective of whether those are specifically brought out in this specification and/or the commercial order or not.</p>																						
2.0	APPLICABLE STANDARDS	<p>The equipment covered by this specification shall unless otherwise stated, be designed, manufactured and tested in accordance with the latest editions of the following Indian/International standards and shall conform to the regulations of the local statutory authorities.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">IS 266-1993</td> <td>Battery grade sulphuric acid</td> </tr> <tr> <td>IS 1146-1981</td> <td>Rubber and plastic container for lead acid storage batteries</td> </tr> <tr> <td>IS 1069-1993</td> <td>Water for storage batteries</td> </tr> <tr> <td>IS 694-1990</td> <td>PVC insulated cables</td> </tr> <tr> <td>IS 1651-1991</td> <td>Stationery cells and batteries lead acid type (with tubular positive plates)</td> </tr> <tr> <td>IS 9224-1991</td> <td>Stationery cells and batteries lead acid type (with plate positive plates)</td> </tr> <tr> <td>IS 3116-2002</td> <td>Low voltage fuses</td> </tr> <tr> <td>IS 4540-1968</td> <td>Sealing compound for lead acid batteries</td> </tr> <tr> <td>IS 3895-1966</td> <td>Semiconductor rectifier assemblies and equipment, mono-crystalline</td> </tr> <tr> <td>IS 6071-1986</td> <td>Semiconductor rectifier cells and stacks mono-crystalline</td> </tr> <tr> <td>IS 8320-2000</td> <td>General requirements and methods of tests for lead acid storage batteries</td> </tr> </table>	IS 266-1993	Battery grade sulphuric acid	IS 1146-1981	Rubber and plastic container for lead acid storage batteries	IS 1069-1993	Water for storage batteries	IS 694-1990	PVC insulated cables	IS 1651-1991	Stationery cells and batteries lead acid type (with tubular positive plates)	IS 9224-1991	Stationery cells and batteries lead acid type (with plate positive plates)	IS 3116-2002	Low voltage fuses	IS 4540-1968	Sealing compound for lead acid batteries	IS 3895-1966	Semiconductor rectifier assemblies and equipment, mono-crystalline	IS 6071-1986	Semiconductor rectifier cells and stacks mono-crystalline	IS 8320-2000	General requirements and methods of tests for lead acid storage batteries
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3.0	CLIMATIC CONDITIONS OF THE INSTALLATION	<p>The service conditions shall be as follows:</p> <ol style="list-style-type: none"> 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. Therefore, Outdoor material and equipment shall be designed and protected for use in exposed, heavily polluted, salty, corrosive and humid coastal atmosphere. <p>The design of equipment and accessories shall be suitable to withstand seismic forces corresponding to an acceleration of 0.1 g.</p>			
4.0	GENERAL TECHNICAL REQUIREMENTS	S. No.	Particular	Requirement	
				48V, Battery	100AH 24V, Battery 100AH
		1	Type of battery	Lead acid battery	Lead acid battery
		2	Container	Transparent	Transparent
		3	Nominal DC system voltage	48 V	24 V
		4	Number of batteries	One set	One set
		5	Number of cells	24	12



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	6	Cell type	Plante/tubular gel type	Plante/tubular gel type
	7	Cell voltage		
		a) Nominal	2 V	2 V
		b) End cell voltage	1.85 V	1.85 V
	8	Capacity of battery	100 AH	100 AH
		a) 10 hour rate of discharge		
	9	Float charging voltage	2.15 V to 2.25 V	2.15 V to 2.25 V
		Boost charging voltage	2.00 V to 2.75 V per cell	2.00 V to 2.75 V per cell
	10	Mounting arrangement	Double row, single tier	Double row, single tier
	5.0	GENERAL CONSTRUCTIONS: Each battery shall be of high rate performance, lead acid type with capacity as specified in data sheet to cater requirements of normal and emergency DC loads. The battery shall consist of series connected cells for a normal battery rating specified in data sheet.		
5.1	Cell elements	<p>The cells shall be lead acid type with i-lante or tubular type positive plates. The plates shall be designed for maximum durability conditions including high rate of discharge and rapid fluctuation of load. In case of tubular positive plates, porous, acid resistant tubes shall be adequately filled and packed with active material before their lower ends are closed by a common bar. Negative plates shall be of box type or pasted type. Pasted plates shall be so designed as to hold the active material securely in place and form contact with and during service. The insulation between the plates shall provide correct spacing and complete separation between the plates of opposite polarity internal short-circuits and permit free circulation of electrolyte under all conditions.</p> <p>The plante positive plates shall be of the pure lead lamelle type with plante formation. The negative plates shall be pasted construction and of good workmanship.</p>		
5.2	Cell lids	Lids used with sealed type cells, shall be of glass, plastic or ebonite. Terminals posts shall be suitably sealed at the lid by means of suitable devices, to prevent acid spray. Sealing compound shall conform to IS 3116.		
5.3	Electrolyte	<p>The electrolyte shall be of battery grade sulphuric acid and conforming to relevant standards. The battery shall be shipped uncharged with the electrolyte. Electrolyte for the first filling shall be supplied with 10% extra in non-returnable containers.</p> <p>Water for storage batteries conforming to r\relevant standards shall be used in the preparation of the electrolyte and also to bring the level of electrolyte to approximately</p>		



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		correct height during operation/testing. The Sulphuric acid and water used for preparing electrolyte for the cells shall conform to latest edition of IS 266 and IS 1069.
5.4	Containers	The cell element and electrolyte shall be assembled in heat resistant, shock absorbing, transparent, leak proof plastic containers. The surface of the container shall have a finish substantially free from blisters, rough spots, scales, blow holes and other imperfections or deformations. The cell plates shall be suspended without touching the bottom of the container. It shall provide sufficient sediment space so that the plates can shed their active material without shorting the plates in the cell during the expected life of the battery without cell cleaning. The plastic container shall conform to all the requirements as mentioned in IS 1146. The covers shall be furnished with acid spray proof vent plugs. The cell post polarity shall be marked on the cover. The electrolyte level lines for upper and lower limits shall be marked on all four sides of each container.
5.5	Terminals posts and connectors	<p>The cell terminal posts and the inter-cell, inter-row, inter-step, inter-tier and end cell connectors shall be of lead or lead coated copper or copper with adequate current carrying capacity. All connectors shall be furnished with acid resisting bolts and nuts with insulating covers. Terminals post shall be designed to accommodate external bolted connection conveniently. The junction between terminal posts and cover and between cover and container shall be so sealed as to prevent any seepage of electrolyte.</p> <p>Positive and negative terminals posts of cells shall be clearly and unmistakably identifiable. The positive terminals shall be marked with red color in addition to '+' marking and negative terminal shall be marked suitably. The terminals and connectors shall not be covered with grease instead anti oxidation jelly shall be used.</p>
5.6	Venting device	The venting device shall be of anti-splash type with more than one exit hole and shall gases to escape freely but shall effectively prevent acid particles or spray from coming out.
5.7	Fasteners	Bolts, nuts and washers for connecting the cells shall be effectively lead-coated to prevent corrosion. Where it is not possible to bolt the cell terminals directly to assemble a battery, separate lead-coated copper or aluminum connectors of suitable size shall be provided to join the cells.
5.8	Separators	The battery separator, when used, shall maintain the electrical insulation between the plates and shall allow the electrolyte to permeate freely. The separators shall be of wood or other acid resisting materials. Wooden separators, if, used, shall be of cedar or other suitable timber, free from knots, cracks or other imperfections, smooth on the face and edges and chemically treated. The separators shall conform to latest edition of IS 6071.
5.9	Stand and battery racks	The cells shall be supported on insulated rack fixed with pads and with adequate clearances between the adjacent cells. The battery racks shall be made of best quality, seasoned teak wood, with at least three (3) coating of anti-acid paint of approved shade. Racks shall be rigid, numbering tags for each cell shall be attached on the racks.



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6.0	NAME PLATE AND MARKINGS	<p>The unit shall be provided with a name plate clearly visible and effectively secured against removal. The name plate shall be indelibly and distinctly marked with all essential particulars as per relevant standards along with the following:</p> <ul style="list-style-type: none"> i) Manufacturer's name ii) Month and Year of manufacture iii) Serial number and Type designation iv) Lead acid chemistry type of the battery v) Nominal voltage of each cell vi) Ah capacity at 1C rate of the battery vii) Rated voltage viii) No. of cells in each module ix) No. of modules x) Installed battery capacity (kWh) xi) Input charge voltage xii) Charge current xiii) Discharge current xiv) Guarantee period. xv) Reference standard xvi) Property of TPCODL <p>Also, the danger plate should be shown on the front of the enclosure/ cabinet/ racks housing the battery bank.</p>
7.0	TESTS	<p>All routine, acceptance & type tests shall be carried out in accordance with the relevant standards mentioned in clause 2.0. All routine & acceptance tests shall be witnessed by the purchaser/his authorized representative. All the components shall also be type tested as per the relevant standards. Following tests shall be necessarily conducted on the metering cubical in addition to others specified in IS/IEC/IEEE/UL standards.</p>
7.1	Type Test	<p>All the type tests should be conducted as per the relevant standards:</p> <ul style="list-style-type: none"> 1. For battery: <ul style="list-style-type: none"> A. Type Test <ul style="list-style-type: none"> i) Verification of constructional requirements ii) Verification of marking iii) Verification of dimensions iv) Test on capacity v) Test on voltage during discharge vi) Ampere-hour and watt-hour efficiency tests vii) Test for loss of capacity on storage viii) Endurance test ix) High rate discharge at normal temperature B. Acceptance test <ul style="list-style-type: none"> i) Verification of marking ii) Verification of dimensions x) Verification of conformity of materials xi) Verification of packing xii) Test for capacity



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		xiii) Test for voltage during discharge 2. For plastic containers: A. Type Test i) Verification of constructional requirements ii) Verification of marking and packing iii) High voltage test iv) Izod impact test v) Drop bail test vi) Plastic yield test vii) Acid resistance test viii) Hydraulic endurance test ix) Air pressure test B. Routine test i) High voltage test C. Acceptance test i) Verification of constructional requirements ii) Verification of marking and packing iii) High voltage test
7.2	Routine tests	All the routine tests should be conducted as per the relevant standards
7.3	Acceptance Tests	All the acceptance tests should be conducted as per the relevant standards mentioned in clause 2.0 and shall be witnessed by TPCODL officials.
8.0	TYPE TEST CERTIFICATES	The bidder shall furnish the type test certificates for the tests as mentioned above as per the corresponding standards. All the tests shall be conducted at CPRI/ERDA or any NABL accredited laboratory, as per the relevant standards mentioned in clause 2.0. Type tests should have been conducted in certified Test laboratories during the period not exceeding 5 years from the date of opening the bid. In the event of any discrepancy in the test reports, i.e. any test report not acceptable, same shall be carried out without any cost implication to the purchaser.
9.0	PRE-DISPATCH INSPECTION	<p>The successful bidder shall submit one prototype samples for further testing and compliance as per specifications and getting approval before mass manufacturing.</p> <p>Equipment shall be subject to inspection by a duly authorized representative of the TATA POWER - CODL. Inspection may be made at any stage of manufacture at the option of the purchaser and the equipment if found unsatisfactory as to workmanship or material, the same is liable to rejection. Bidder shall grant free access to the places of manufacture to the TATA POWER - CODL representatives at all times when the work is in progress. Inspection by the TPCODL or its authorized representatives shall not relieve the supplier of his obligation of furnishing equipment in accordance with the specifications. Material shall be dispatched after specific MDCC (Material Dispatch Clearance Certificate) is issued by the Purchaser.</p> <p>Following documents shall be sent along with material :</p> <ul style="list-style-type: none"> a) Test reports b) MDCC issued by Purchaser c) Invoice in duplicate d) Packing list e) Drawings & catalogue



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		f) Guarantee / Warrantee card g) Delivery Challan h) Other Documents (as applicable)
10.0	INSPECTION AFTER RECEIPT AT STORE	The material received at Purchaser's store shall be inspected for acceptance and shall be liable for rejection, if found different from the reports of the pre-dispatch inspection and one copy of the report shall be sent to Engineering department.
11.0	GUARANTEE	<p>Bidder shall stand guarantee towards design, materials, workmanship & quality of process/manufacturing of items under the contract for due and intended performance of the same, as an integrated product delivered under this contract. In the event any defect is found by the Purchaser up to a period of 60 months from the date of commissioning or 66 months from the date of last supplies made under the contract, whichever is earlier. Bidder shall be liable to undertake to replace/rectify such defects at his own costs, within mutually agreed timeframe, and to the entire satisfaction of the Purchaser, failing which the Purchaser will be at liberty to get it replaced/rectified at Bidder's risks and costs and recover all such expenses plus the Purchaser's own charges (@ 20% of expenses incurred), from the Bidder or from the "Security cum performance Deposit" as the case may be. In case the battery bank, battery charger or/ and the BMS fails within the guarantee period, the purchaser will immediately inform the bidder who shall take back the failed/ faulty part within 15 days from the date of intimation at his own cost and replace/repair it within forty five days of date of intimation with a roll over guarantee.</p> <p>Bidder 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 Purchaser.</p>
12.0	PACKING	Bidder shall ensure that all the equipment covered under this specification shall be prepared for rail/road transport in a manner so as to protect the equipment from damage in transit. The material used for packing shall be environmentally friendly.
13.0	TENDER SAMPLE	Not Applicable.
14.0	QUALITY CONTROL	The bidder shall submit the offer Quality assurance plan indicating the various stages of inspection, the tests and checks which will be carried out on the material of construction, components during manufacture and bought out items and fully assembled component and equipment after finishing. As part of the plan, a schedule for stage and final inspection within the parameters of the delivery schedule shall be furnished. The Purchaser's engineer or its nominated representative shall have free access to the manufacturer's/sub-supplier's works to carry out inspections.
15.0	MINIMUM TESTING FACILITIES	Bidder shall have adequate in house testing facilities for carrying out all routine tests, acceptance tests as per Indian/International standards
16.0	MANUFACTURING ACTIVITIES	The successful bidder will have to submit the bar chart for various manufacturing activities clearly elaborating each stage, with quantity. This bar chart should be in line with the Quality



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		assurance plan submitted with the offer. This bar chart will have to be submitted within 15 days from the release of the order.																																			
17.0	SPARES, ACCESSORIES AND TOOLS	Recommended and mandatory spares to be supplied by the bidder, without any cost implication to TPCODL.																																			
18.0	DRAWING AND DOCUMENTS	<p>Following drawings and documents shall be prepared based on Purchaser specifications and statutory requirements and shall be submitted with the bid :</p> <ul style="list-style-type: none"> a) Completely filled in General Technical Particulars b) General arrangement DRAWING for battery bank, battery charger (with detailed circuit diagram) and battery management system. c) Experience List d) Type test certificates <p>After the award of the contract, four (4) copies of following drawings, drawn to scale, describing the equipment in detail shall be forwarded for approval.</p> <table border="1"> <thead> <tr> <th>Sr. No.</th> <th>Description</th> <th>For Approval</th> <th>For Review Information</th> <th>Final Submission</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Technical Parameters</td> <td align="center">✓</td> <td></td> <td align="center">✓</td> </tr> <tr> <td>2.</td> <td>GA Drawing</td> <td align="center">✓</td> <td></td> <td align="center">✓</td> </tr> <tr> <td>3.</td> <td>Installation Instruction</td> <td></td> <td></td> <td align="center">✓</td> </tr> <tr> <td>4.</td> <td>Transport/ Shipping dimension drawing</td> <td></td> <td align="center">✓</td> <td align="center">✓</td> </tr> <tr> <td>5.</td> <td>QA & QC Plan</td> <td align="center">✓</td> <td align="center">✓</td> <td align="center">✓</td> </tr> <tr> <td>6.</td> <td>Test Certificates</td> <td align="center">✓</td> <td align="center">✓</td> <td align="center">✓</td> </tr> </tbody> </table> <p>Bidder shall subsequently provide Four (4) complete sets of final drawings, one of which shall be auto positive suitable for reproduction, before the dispatch of the equipment. Soft copy (Compact Disk CD) of all the drawing, GTP, Test certificates shall be submitted after the final approval of the same to purchaser.</p> <p>All the documents & drawings shall be in English language.</p>	Sr. No.	Description	For Approval	For Review Information	Final Submission	1.	Technical Parameters	✓		✓	2.	GA Drawing	✓		✓	3.	Installation Instruction			✓	4.	Transport/ Shipping dimension drawing		✓	✓	5.	QA & QC Plan	✓	✓	✓	6.	Test Certificates	✓	✓	✓
Sr. No.	Description	For Approval	For Review Information	Final Submission																																	
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		Instruction Manual (in English language) covering erection and maintenance instructions and all relevant information and drawings pertaining to the main equipment as well as auxiliary devices.			
19.0	GUARANTEED TECHNICAL PARTICULARS	S. No.	Description	Units	24V/48V, 100AH Battery
		1	Type (lead acid)	Yes/no	
		2	In transparent container	V	
		3	Nominal DC system voltage		
		4	Ambient conditions	Deg C	
			a) maximum temperature	Deg C	
			b) minimum temperature	Deg C	
			c) Design ambient temperature	Nos.	
		5	Number of cells		
		6	Cell type		
		7	Cell voltage	V	
			a) nominal	V	
			b) end cell voltage	AH	
		8	Capacity of battery		
	a) 10 hour rate of discharge				
9	Float charging voltage	V			
10	Boost charging voltage	V			
11	Mounting arrangement	Nos.			
12	List of spares with unit rate furnished	Nos.			
13	Furnish the design calculations for adequacy of the system along with the bid				
14	Supply of 10% extra electrode type in non-returnable containers				



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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 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.



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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.



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11.4 Waiver of Inspections

TPC on its own discretion shall chose 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



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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



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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 at least 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



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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



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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.



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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.



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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.



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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.



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- 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



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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.



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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



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ANNEXURE-A

PROFORMA FOR BID SECURITY BANK GUARANTEE

TP Central Odisha Distribution Limited(TPCODL)
Bhubaneswar

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 (v) 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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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		



TP CENTRAL ODISHA DISTRIBUTION LIMITED

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Purchase Department

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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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