



TP CENTRAL ODISHA DISTRIBUTION LIMITED
(A Tata Power & Odisha Govt. joint venture)
1st Floor, Anuj Building, 29, Satya Nagar, Bhubaneswar-751007
NIT No.: TPCODL/P&S/1000002200/2024-25

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

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

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

Procedure to Participate in Tender

Tender Enquiry No - TPCODL/P&S/1000002200/24-25

Tender Enquiry No.	Work Description	EMD (Rs.) *	Tender Fee (Rs.) **	Last Date and Time for payment of Tender Fee
TPCODL/P&S/ 1000002200/24-25	Rate contract for DT repair/reconditioning for two years	2,00,000	5,000	13.03.2025

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

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

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

Procedure to Participate in Tender.

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

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

- Tender Enquiry number
- Name of authorized person
- Contact number of authorized person
- E-mail id of authorized person
- Name of Firm



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

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

Beneficiary Name – TP Central Odisha Distribution Ltd.

Bank Name – STATE BANK OF INDIA

Branch Name – IDCO Towers, Bhubaneshwar

Address – PO- Sahidnagar, Janapath, Bhubaneswar.

Branch Code – 7891

Account No – 10835304915

IFSC Code – SBIN0007891

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

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

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

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

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



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

-: Steps for E-tender submission: -

Step 1:

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

Step 2:

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

Step 3:

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

Step 4:

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

Step 5: Click **"Click Here"** to access this event.

Step 6:

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

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

Step 7:

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

Step 8:

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

Step 9:

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

Step 10:

Review and accept **"Bidder Agreement"**.

Step 11:

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



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Step 12:

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

Step 13:

Uploading of Price Bid

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

Step 14:

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

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

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



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OPEN TENDER NOTIFICATION

FOR

Rate contract for DT repair/reconditioning for two years

Tender Enquiry No.: TPCODL/P&S/1000002200/2024-25

Due Date for Bid Submission-26.03.2025 [15:00 Hrs.]

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

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1. Event Information

1.1 Scope of work

Open Tenders are invited in through e-tender bidding process from interested Bidders for entering into for **Rate contract for DT repair/reconditioning for two years** as defined below

Package no	Description	EMD Amount(Rs.)	Tender Fee Incl. GST(Rs.)
1	Rate contract for DT repair/reconditioning for two years	2,00,000	5,000

1.2 Availability of Tender Documents

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

Chief (CCG & Engineering)

Tata Power Central Odisha Distribution Limited

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

Tender documents may be downloaded by interested eligible bidders from TPCODL website www.tpcentralodisha.com with effect from 05.03.2025 In the event detailed tender documents are downloaded from TPCODL website or are received through email from TPCODL, the Tender Fee shall be compulsorily submitted either online through NEFT/ RTGS or demand draft/ Banker's cheque drawn in favour of "TP Central Odisha Distribution Limited", payable at Bhubaneswar only. Any such bid submitted without this Fee shall be rejected.

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

1.3 Calendar of Events

(a)	Date of sale/ availability of tender documents from TPCODL Website/ARIBA E-Tender Portal	From 05.03.2023
(b)	Last date and time of payment of Tender fees through RTGS/NEFT to get link for participation in E-Tender portal	13.03.2025
(c)	Last Date of receipt of Pre-Bid queries in MS – Excel format through e-mail, (if any) after which no queries will be entertained	17.03.2025
(d)	Date of pre-bid meeting	To be intimated later
(e)	Last Date of Posting Consolidated replies to all the Pre-Bid queries as received in the TPCODL website	21.03.2025

(f)	Last date and time of receipt of Bids through ARIBA E-Tender portal	26.03.2025 up to 15:00 Hours
(g)	Date & Time of opening of bids	To be intimated later

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

1.4 Mandatory documents required along with the Bid

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

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

1.5 Deviation from Tender

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

1.6 Right of Acceptance/Rejection

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

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

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

1.7 Qualification Criteria:

1. The bidder should have an average annual turnover of Rs.4 Cr in last 3 financial years and should be prior experience of Transformer manufacture and shall have a repair workshop. Copy of audited P&L Account along with work order/completion certificate to be submitted in this regard.

OR

The bidder should have repaired at least 200 Nos. of distribution transformers (3 Phase, 11/0.433 KV) of rating 10 KVA to 1000 KVA during the last 3 years or average 75 nos. of Distribution transformer per year, out of which 50% of the DTs repaired should be of rating 100KVA and more. Kindly note that preference will be given to bidder having more than 200 nos. of DT repair in last 3 years. Copy of work order/completion certificate to be submitted in this regard.

2. The bidder should have facilities to carry out following activities:
 - All routine and acceptance test as per TPCODL technical specification & IS 1180 part 1.
 - Bidder should have facility for carrying out temperature rise test.
 - All equipment / instruments to have valid calibration by NABL Accredited Laboratory. Bidder to give undertaking in this regard.
 - Bidder should have calibration of EOT crane slings as applicable.
 - Bidder should have in process quality checks for repairing of transformers.
 - Bidder should submit the undertaking in this regard. TPCODL Factory Inspection shall be carried out by TPCODL team to evaluate the same, and failing to meet the expectation of TPCODL Technical team as per above standards shall lead to disqualification.

Note: The above qualification criteria shall be relaxed in case of BA already empaneled for the same job with TPCODL and their performance found satisfactory.

1.8 Marketing Integrity

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

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

1.9 Supplier Confidentiality

All information contained in this tender is confidential and shall not be disclosed, published or advertised in any manner without written authorization from TPCODL. This includes all bidding information submitted to TPCODL. All tender documents remain the property of TPCODL and all suppliers are required to return these documents to TPCODL upon request.

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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 overall all-inclusive lowest cost on overall BoQ Basis as calculated in Schedule of Items [Annexure I]. TPCODL however, reserves 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 against each line item.
- Bidder has to mandatorily quote as per schedule of item [Annexure-I]. Failing to do so TPCODL may reject the bid.
- It is expected that the bidder shall quote same offer price for same material used for different ratings of the transformers. In case the difference noticed during evaluation, the lowest rate quoted for the item shall be considered as their offer price and shall be applicable to all ratings of the transformer.

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

2.1 **Price Variation Clause:** Prices will remain firm during the validity of rate contract for all material except transformer oil.

For Transformer Oil:

Price Variation for oil shall be applicable as per below given formula.

The % change as per IEEMA PVC for Transformer Oil for the month in which the DT will be allocated for repairs over the Base month shall be applicable for deriving the payable rate. TPCODL reserves the right to review, modify or withdraw the linkage of Transformer Oil Rates to IEEMA PVC at its discretion.

Please refer to the following illustration for more clarity:

Agreed Rate (as per the Rate Contract) # R0

IEEMA Base Rate for Transformer Oil(TOBS) in Jan 2023 # R1

IEEMA Base Rate for Transformer Oil(TOBS) in Month when DT will be allocated for Repairs # R2

Rate Payable (R) = $R0 \times R2/R1$

2.2 **Quantity variation Clause:** There will not be any guarantee on quantity of job. Job has to be carried out on as and when required basis order from TPCODL on the quantity as specified in release order.

3.0 Submission of Bid Documents

3.1 Bid Submission

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

Bids shall be submitted in 3 (Three) parts:

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

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

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

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

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

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

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

FOR BIDS INVITED THROUGH E-PROCUREMENT PORTAL:

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



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

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

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

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

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

EMD for Entire Package “Rate contract for DT repair/reconditioning for two years”

Please mention our Enquiry Number: - **TPCODL/P&S/1000002200/2024-25** on the Tender and drop the same at Tata Power Central Odisha Distribution Limited, 1st Floor, Anuj Building, 29, Satya Nagar, Bhubaneswar-751007.

The envelope shall be addressed to:

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

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

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

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

SIGNING OF BID DOCUMENTS:

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

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

The Bid submitted on behalf of companies registered with the Indian Companies Act, for the time being in force, shall be signed by persons duly authorized to submit the Bid on behalf of the Company and shall be accompanied by certified true copies of the resolutions, extracts of

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

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

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

3.2 Contact Information

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

Communication Details:

Contracts:-

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

Name : Sony Jha, HOG Procurement
Contact No: 9204752050
E-Mail ID: sony.jha@tpcentralodisha.com

Name: Mr. Vipin Chauhan, Head – CCG, C&MM (TPCODL)
Contact No.: 9717393121
E-Mail ID: vipin.chauhan@tpcentralodisha.com

3.3 Bid Prices

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

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

3.4 Bid Currencies

Prices shall be quoted in Indian Rupees Only.

3.5 Period of Validity of Bids

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

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

3.6 Alternative Bids

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

3.7 Modifications and Withdrawal of Bids

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

3.8 Earnest Money Deposit (EMD)

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

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

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

The EMD shall be forfeited in case of:

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

Or

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

3.9 Type Tests (if applicable)

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

4.0 Bid Opening & Evaluation process

4.1 Process to be confidential

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

4.2 Technical Bid Opening

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

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

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

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

4.3 Preliminary Examination of Bids/ Responsiveness

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

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

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

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

4.4 Techno Commercial Clarifications

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

4.5 Price Bid Opening

The bids shall be opened at TPCODL office in front of Techno-commercially and / or safety qualified bidders either physically or in virtual mode. A link shall be provided to the bidders to view the price-bid opening process online. Bidders shall also get mail intimation from TPCODL E-Tender system (Ariba) when their Price Bids are opened.

4.7 Reverse Auctions

TPCODL shall conduct the reverse auction for the products/ services being asked for in this 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.

Reverse Auction shall be conducted among all techno commercially qualified bidders.

5.0 Award Decision

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

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

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

6.0 Order of Preference/Contradiction:

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

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

7.0 Post Award Contract Administration

7.1 Special Conditions of Contract

1. Contract for 11KV shall be issued on successful bidder with a validity period of Two Years while the Contract for 33KV shall be issued on successful bidder with a validity period of One Year.

2. The invoice for scrap material (based on joint verification) shall be created by TPCODL through Credit/Debit Note and the payment shall be released after deduction of Scrap value from Invoice raised on Material supplied and repair services provided.
3. The total time for repair of transformers is 45 calendar days from date of lifting of DTR from TPCODL Store.
4. PBG Clause - The repairer shall furnish a Performance Bank Guarantee of 5% of RC value within 30 days of issue of Rate contract. Apart from PBG, as per Tender BA has to submit One Insurance policy for Rs.2.00 Lakhs in favour of TP Central Odisha Distribution Limited to protect the lifted DTs against theft or burglary and another Insurance Policy for Rs. 4.00 Lakhs in favour of TP Central Odisha Distribution Limited for protection against loss due to Fire hazard.
5. LD clause: Liquidated damages @1% of the total executed contract value per week or part thereof, for the period of delay in integrated completion, subject to maximum 10% of the value of the contract shall become leviable without prejudice to other rights of the TPCODL. This amount shall be recoverable from any amount due or becoming due to the Business Associates under this or any other contract. In specific cases, TPCODL reserves the right to apply LD only on the unexecuted portion of the supply and works for standalone use, provided full quantity is executed within a maximum 30% additional time. Deduction of LD shall be on landed cost i.e. contract value inclusive of taxes and in pursuant statutory compliance GST would be applicable at the stipulated rate and the same shall be borne by Business Associate. In case of LD deduction, a GST invoice shall be issued by TPCODL as a proof of deduction/recovery.
6. TPCODL may approve to carry out repair of DT marginally over the defined Economic limit, considering the useful life of DT after repair and if net repairing cost is found justified. For such scenario it is required to take approval from Chief Operations.
7. Inspection Test Plan (ITP) - ITP is an integral part of tender document as per the spec. BA needs to submit acceptance on ITP as a part of the technical bid. All tests mentioned in the specifications are to be carried out under ITP. TPCODL shall inspect 100% of the DTs and reserves the rights to select at random sample of DTs for Inspection.
8. Transportation line item in BoQ is from TPCODL store which is Choudwar Store / Bhubaneswar Store. Further, the Lot size of Transformers issued to BA will be determined by DT Management team of Operation Services department of TPCODL. TPCODL will try to provide full truck load of Transformer to BA where ever possible.
9. Lifting, loading and unloading of DTRs at and from TPCODL stores is responsibility of BA. However, TPCODL may facilitate unloading of DT at its store where TPCODL has Crane facility (With Driver & Helper) available at a flat rate of Rs. 2500 (all-inclusive) payable by BA to TPCODL which will be adjusted while final invoice processing. Further, for unloading, the BA needs to take confirmation from TPCODL Engineer-In-Charge who will get clearance from Store regarding availability of Crane, Man-Power and space.

10. RC Allocation Criteria :

RC Allocation will be done as per below criteria:

- Last 2 years Executed order value(DT repair RCs)
 - Delivery timeline
 - Turnover
11. The performance of BA against this contract shall be regularly monitored by TPCODL. TPCODL reserves the right to appropriately reduce/cancel the order quantity of DTs in case of unsatisfactory performance & undue delay.

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12. Any change in statutory taxes, duties and levies during the contract period shall be borne by TPCODL. However, in case of delay in work execution owing to reasons not attributable to TPCODL, any increase in total liability shall be passed on the Bidder, whereas any benefits arising owing to such statutory variation in taxes and duties shall be passed on TPCODL.

13. All the terms and conditions of TPCODL GCC – Composite shall be applicable.

7.2 Drawing Submission & Approval- As per technical specification

7.3 Delivery Terms: As specified in Special conditions of contract clause no 7.1.

7.4 Guarantee / Warranty Period: As per technical specification

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 through Sigitek. The payment shall be released within 30 days from the date of submission of certified bills/ invoices.

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

- i. TPCODL is an ethical organization and as a policy TPCODL lays emphasis on ethical practices across its entire domain. Bidder should ensure that they should abide by all the ethical norms and in no form either directly or indirectly be involved in unethical practice.
- ii. TPCODL work practices are governed by the Tata Code of Conduct which emphasizes on the following:
- iii. We shall select our suppliers and service providers fairly and transparently.
- iv. We seek to work with suppliers and service providers who can demonstrate that they share similar values. We expect them to adopt ethical standards comparable to our own.
- v. Our suppliers and service providers shall represent our company only with duly authorized written permission from our company. They are expected to abide by the Code in their interactions with, and on behalf of us, including respecting the confidentiality of information shared with them.
- vi. We shall ensure that any gifts or hospitality received from, or given to, our suppliers or service providers comply with our company's gifts and hospitality policy.
- vii. We respect our obligations on the use of third party intellectual property and data.
- viii. Bidder is advised to refer GCC attached at Annexure IX for more formation. Any ethical concerns with respect to this tender can be reported to the following e-mail ID: ethics@tpcentralodisha.com



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8.0 Specification and standards

As per Annexure II.

9.0 General Condition of Contract

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

10.0 Safety

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

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

ANNEXURE I
Schedule of Items

Annexure-1											
Schedule of Items for DTR Repairing FY 25-26(11KV)											
SL No	Schedules of Item Description	Quantity	Uo M	All Inclusive Total Unit 'Net Repair Cost' including GST (i.e A+B-C)*	All Inclusive Total Price including GST	C_Unit rate including GST	C_All inclusive total price	A+B_ Unit rate including GST	A+B_ All Inclusive total price(D)	Services(all inclusive Unit rate)	Services_All Inclusive total price€
1	10 KVA , 11 / 0.230 kV 1 Ph Al wound	2	EA	0	0	0	0	0	0	0	0
2	10 KVA , 11 / 0.230 kV 1 Ph Cu wound	2	EA	0	0	0	0	0	0	0	0
3	16 KVA , 11 / 0.230 kV 1 Ph Al wound	400	EA	0	0	0	0	0	0	0	0
4	16 KVA , 11 / 0.230 kV 1 Ph Cu wound	2	EA	0	0	0	0	0	0	0	0
7	16 KVA , 11/.4 Kv 3PH , AL Wound	5	EA	0	0	0	0	0	0	0	0
8	16 KVA , 11/.4 kV 3PH , CU Wound	2	EA	0	0	0	0	0	0	0	0
5	25 KVA , 11 / 0.230 kV 1 Ph Al wound	5	EA	0	0	0	0	0	0	0	0
6	25 KVA , 11 / 0.230 kV 1 Ph Cu wound	5	EA	0	0	0	0	0	0	0	0
9	25 KVA, 11/0.4 kV 3PH,Al wound	750	EA	0	0	0	0	0	0	0	0
10	25 KVA, 11/0.4 3PH,CU wound	5	EA	0	0	0	0	0	0	0	0
11	63 KVA, 11/0.4 3PH,Al wound	650	EA	0	0	0	0	0	0	0	0
12	63 KVA, 11/0.4 3PH,CU	5	EA	0	0	0	0	0	0	0	0

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11KV 2025-26 unit rates

New Materials	Same material same rate	Remark (Important Note)	ALL INCLUSIVE Unit Price (including GST)	
			AL	CU
HV leg coil complete with paper insulation only.	Same for All Trf (AL, Cu)			
LV leg coil complete with paper insulation only.				
HV leg coil complete with Super enamelled only.	Same for All Trf (AL, Cu)			
LV leg coil complete with Super enamelled only.				
New Conductor with New DPC	Same for All Trf (AL, Cu)			
Old conductor with new DPC	Same for All Trf (AL, Cu)			
LV ph / neutral copper / Al flats (LV termination internal)	Same for All Trf (AL, Cu)			
HV Bushing (11 KV) insulator Lightly Polluted	Upto 25 kVA			
HV Bushing (11 KV) insulator Heavily Polluted	Above 63 kVA Trf	As per IS 8603 (Part I) 17.5 KV(Heavily Polluted)		
LV Bushing(0.433 KV) Insulator	10-160	As per IS 3347 (Part I) 1 KV		
	200-400			
	500-630			
	700-1000			
Metal parts for HV Bushing (Rod, nut, bolts etc.)-Full tinned brass as per IS 3347(part-I):1979	Same for All Trf	Bushing rods and nuts shall be made of tinned brass material		
Metal parts for LV Bushing (Rod, nut, bolts etc.)-Full tinned brass as per IS 3347(part-I):1979	10 to 25	Bushing rod shall be made of tinned copper material Note-Oil seal should be Neoprene		
	63 to 100			
	200-400			
	500-630			
	700-1000			
Set of gaskets	10-160	As per IS 4353 Part		

	200-400	II		
	500-630			
	700-1000			
Silica gel breather	10-100 (500 gm)	Acrylic/ Polycarbonate with UV protected , As per IS 3401-1992		
	200-1000 (1 kg)			
Oil level gauge	10kva-25	The oil level gauge shall be prismatic type		
	63-100			
	200-400			
	500-630			
	700-1000			
Tapping switch with handle	10-200	+5.0 % to -10 % in steps of 2.5 %		
	Same for All Trf above 200 kVA (250-1000)			
Oil drain/Filter valve	Same for All Trf	MS with Gate type Valve		
Pair of Arching Horns	Same for All Trf	Hot Dip Galvanized		
Fresh Transformer oil as per IS 335	Same for All Trf	Indian Oil- No reconditioned Oil Electrical and chemical Test report/certificate to be furnished		
Sundry items	10kva-25	Flat Washer, Nut bolt with spring washer, etc.Shall be hot dip Galvanizing		
	63-160			
	200-400			
	500-630			
	700-1000			
Dial type Thermometer of min.10mm with max. temp. Ind.	Same for All Trf 250 and above	Stainless Steel Dial, range 0-120°C, accuracy +/-2°C		
New Radiator	Same for All Trf			
Conservator tank,EVP,tank top cover etc	Same for All Trf			
Transportation-11KV FY25			All inclusive unit rates(GST Inclusive)	

			AL	CU
Labour charges for repair/reconditioing of transformers	EA	10-63KVA		
		100KVA		
		200-250KVA		
		500 KVA		
		1000KVA		
Painting charges (external & internal)	EA	10-25KVA		
		63KVA		
		100KVA		
		200KVA		
		250KVA		
		500KVA		
		1000KVA		
Freight & Insu. (From TPCODL Store to Repairer Factory)	EA	10-25,1PH		
		25,3PH		
		63KVA		
		100KVA		
		200KVA		
		250KVA		
		500KVA		
		1000KVA		
Freight & Insu. (From Repairer Works to TPCODL Store)	EA	10-25,1PH		
		25,3PH		
		63KVA		
		100KVA		
		200KVA		
		250KVA		
		500KVA		
		1000KVA		
Scarp Materials(Same for all KVA)			AL	CU
HV & LV leg coil complete with paper insulation only.	Kg	10 to 1000KVA		
Metal parts for HV & LV Bushing (Rod,nut,bolts etc) connectors etc	Kg			
Old LV phase and neutral copper/ Al flats (LV termination internal)	Kg			
Silica gel breather	EA			
Radiator	Kg			
Conservator tank,EVP,tank top cover and other iron parts	Kg			

Transformer oil				
Tapping switch with handle	EA			
Dial type thermometer	EA			
Unit rates for new materials			AL	CU
HV leg coil complete with paper insulation only	Kg	For all Transformers		
LV leg coil complete with paper insulation only	Kg			
HV leg coil complete with super enamell	Kg			
LV leg coil complete with super enamell	Kg			
HV leg coil complete with Old Conductor with New DPC insulation	Kg			
LV leg coil complete with Old Conductor with New DPC insulation	Kg			
New line items for services			AL	CU
Labour Charges for Conservator Tank Repair	EA	16KVA 1PH		
		16KVA 3ph		
		25KVA 1PH		
		25KVA 3PH		
		63KVA 3ph		
		100KVA 3PH		
		200KVA 3ph		
		250KVA 3ph		
		500KVA 3ph		
		1000KVA 3ph		
Labour Charges for Amorphous/shell Type Transformer Repairing	EA	16KVA 1PH		
		16KVA 3ph		
		25KVA 1PH		
		25KVA 3PH		
		63KVA 3ph		
		100KVA 3PH		
		200KVA 3ph		
		250KVA 3ph		
		500KVA 3ph		
		1000KVA 3ph		

Annexure-1A

S.No.	Item Description	UOM	Unit price for Bill of Material for 1 no. Transformer for each rating for evaluation purpose											
			10 KVA , 11 / 0.230 kV			10 KVA , 11 / 0.230 kV			16 KVA , 11 / 0.230 kV			16 KVA , 11 / 0.230 kV		
			1 Ph Al wound			1 Ph Cu wound			1 Ph Al wound			1 Ph Cu wound		
			Bill of Material	Unit price with GST	All Inclusive Price per DTR	Bill of Material	Unit price with GST	All Inclusive Price per DTR	Bill of Material	Unit price with GST	All Inclusive Price per DTR	Bill of Material	Unit price with GST	All Inclusive Price per DTR
			X	Y	X*Y	X	Y	X*Y	X	Y	X*Y	X	Y	X*Y
A	New Materials													
1	HV Coil Total													
1A	New Paper Insulated winding	Kg	8		0	10		0	20		0	22		0
1B	New Super Enameled Winding	Kg	0		0	0		0	0		0	0		0
2	LV Coil Total													
2A	New LV coil with paper insulation	Kg	7		0	10		0	10		0	14		0
2B	Old Conductor with New DPC insulation	Kg	0		0	0		0	0		0	0		0
3	LV internal termination (Phase & Neutral)	Kg	0		0	0		0	0		0	0		0
4	HV Bushing insulator	EA	2		0	2		0	2		0	2		0
5	LV Bushing Insulator	EA	2		0	2		0	2		0	2		0
6	Metal parts for HV Bushing (Rod, nut, bolts etc.)	EA	2		0	2		0	2		0	2		0
7	Metal parts for LV Bushing (Rod, nut, bolts etc.)	EA	2		0	2		0	2		0	2		0
8	Set of gaskets	Set	1		0	1		0	1		0	1		0
9	Silica gel breather	EA	0		0	0		0	0		0	0		0

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23	HV & LV leg coil complete with paper insulation only.	Kg	15		0	20		0	30		0	36		0
24	HV & LV leg coil complete with super enameled only.	Kg	15		0	20		0	30		0	36		0
25	Metal parts for HV & LV Bushing(Rod,nut,bolts etc) connectors etc	Kg	0		0	0		0	0		0	0		0
26	LV Internal termination Parts	Kg	2		0	2		0	2		0	2		0
27	Silica gel breather	EA	0		0	0		0	0		0	0		0
28	Radiator	Kg	0		0	0		0	0		0	0		0
29	Conservator tank,EVP,tank top cover and other iron parts	Kg	0		0	0		0	0		0	0		0
30	Transformer oil	Ltr	35		0	35		0	42		0	42		0
31	Tapping switch with handle	EA	0		0	0		0	0		0	0		0
32	Dial type thermometer	EA	0		0	0		0	0		0	0		0
TOTAL of Scrap Materials (C)					0			0			0			0
Total All Inclusive Unit Price, i.e., Material + Transport - Scrap (A+B-C)					0			0			0			0
Quantity			2			2			400			2		
Total All Inclusive Value (Unit Price * Quantity)			0			0			0			0		
Total All Inclusive Value for complete BOQ			0											

Annexure-1B

S.No.	Item Description	UOM	Unit price for Bill of Material for 1 no. Transformer for each rating for evaluation purpose					
			16 KVA , 11 / 0.415 kV			16 KVA , 11 / 0.415 kV		
			3 Ph Al wound			3 Ph Cu wound		
			Bill of Material	Unit price with GST	All Inclusive Price per DTR	Bill of Material	Unit price with GST	All Inclusive Price per DTR
			x	y	x*y	x	y	x*y
A	New Materials							
1	HV Coil Total							
1A	New Paper Insulated winding	Kg	28		0	34		0
1B	New Super Enameled Winding	Kg	0		0	0		0
2	LV Coil Total							
2A	New LV coil with paper insulation	Kg	13		0	16		0
2B	Old Conductor with New DPC insulation	Kg	0		0	0		0
3	LV internal termination (Phase & Neutral)	Kg	0		0	0		0
4	HV Bushing insulator	EA	3		0	3		0
5	LV Bushing Insulator	EA	4		0	4		0
6	Metal parts for HV Bushing (Rod, nut, bolts etc.)	EA	3		0	3		0
7	Metal parts for LV Bushing (Rod, nut, bolts etc.)	EA	4		0	4		0
8	Set of gaskets	Set	1		0	1		0
9	Silica gel breather	EA	1		0	1		0
10	Prismatic Oil level gauge	EA	1		0	1		0
11	Tapping switch with handle	EA	0		0	0		0
12	Oil drain/Filter valve	EA	2		0	2		0
13	Pair of Arching Horns	EA	3		0	3		0

14	Fresh Transformer oil as per latest latest IS 335	Litre	80		0	80		0
15	Sundry items	Set	1		0	1		0
16	Dial type Thermometer of min.10mm with max. temp. Ind.	EA	0		0	0		0
17	New Radiator	Kg	10		0	10		0
18	Conservator tank,EVP,tank top cover etc	Kg	5		0	5		0
TOTAL of New material (A)					0			0
B	Transportation & labor							
19	Labour charges for repair/reconditioing of transformers	EA	1		0	1		0
20	Painting charges (external & internal)	EA	1		0	1		0
21	Freight & Transit Insurance (From TPCODL Store to Repairer Factory)	EA	1		0	1		0
22	Freight & Transit Insurance (From Repairer Works to TPCODL Store)	EA	1		0	1		0
TOTAL of Transportation & labor (B)					0			0
C	Scrap Materials							
23	HV & LV leg coil complete with paper insulation only.	Kg	41		0	50		0
24	HV & LV leg coil complete with super enameled only.	Kg	41		0	50		0
25	Metal parts for HV & LV Bushing(Rod,nut,bolts etc) connectors etc	Kg	0		0	0		0
26	LV Internal termination Parts	Kg	4.6		0	4.6		0
27	Silica gel breather	EA	1		0	1		0
28	Radiator	Kg	10		0	10		0

29	Conservator tank,EVP,tank top cover and other iron parts	Kg	5		0	5		0
30	Transformer oil	Ltr	63		0	63		0
31	Tapping switch with handle	EA	0		0	0		0
32	Dial type thermometer	EA	0		0	0		0
TOTAL of Scrap Materials (C)					0			0
Total All Inclusive Unit Price, i.e., Material + Transport - Scrap (A+B-C)					0			0
Quantity			5			2		
Total All Inclusive Value (Unit Price * Quantity)			0			0		
Total All Inclusive Value for complete BOQ			0					

Annexure-1C

S.N o.	Item Description	UO M	Unit price for Bill of Material for 1 no. Transformer for each rating for evaluation purpose											
			25 KVA , 11 / 0.230 kV			25 KVA , 11 / 0.230 kV			25 KVA , 11 / 0.415 kV			25 KVA , 11 / 0.415 kV		
			(2) 1 Ph Al wound			(2) 1 Ph Cu wound			3 Ph Al wound			3 Ph Cu wound		
			Bill of Mater ial	Uni t pri ce wit h GS T	All Inclus ive Price per DTR	Bill of Mater ial	Uni t pri ce wit h GS T	All Inclus ive Price per DTR	Bill of Mater ial	Uni t pri ce wit h GS T	All Inclus ive Price per DTR	Bill of Mater ial	Uni t pri ce wit h GS T	All Inclus ive Price per DTR
			x	y	x*y	x	y	x*y	x	y	x*y	x	y	x*y
A	New Materials													
1	HV Coil Total													
1A	New Paper Insulated winding	Kg	23		0	24		0	30		0	36		0
1C	New Super Enameled Winding	Kg	0		0	0		0	0		0	0		0
2	LV Coil Total													
2A	New LV coil with paper insulation	Kg	10		0	14		0	15		0	18		0
2B	Old Conductor with New DPC insulation	Kg	0		0	0		0	0		0	0		0
3	LV internal termination (Phase & Neutral)	Kg	0		0	0		0	0		0	0		0
4	HV Bushing insulator	EA	2		0	2		0	3		0	3		0
5	LV Bushing Insulator	EA	2		0	2		0	4		0	4		0
6	Metal parts for HV Bushing (Rod, nut, bolts etc.)	EA	2		0	2		0	3		0	3		0
7	Metal parts for LV Bushing (Rod, nut, bolts etc.)	EA	2		0	2		0	4		0	4		0

8	Set of gaskets	Set	1		0	1		0	1		0	1		0
9	Silica gel breather	EA	0		0	0		0	1		0	1		0
10	Prismatic Oil level gauge	EA	1		0	1		0	1		0	1		0
11	Tapping switch with handle	EA	0		0	0		0	0		0	0		0
12	Oil drain/Filter valve	EA	1		0	1		0	2		0	2		0
13	Pair of Arching Horns	EA	2		0	2		0	3		0	3		0
14	Fresh Transformer oil as per latest latest IS 335	Litre	65		0	65		0	90		0	90		0
15	Sundry items	Set	1		0	1		0	1		0	1		0
16	Dial type Thermometer of min.10mm with max. temp. Ind.	EA	0		0	0		0	0		0	0		0
17	New Radiator	Kg	0		0	0		0	10		0	10		0
18	Conservator tank,EVP,tank top cover etc	Kg	0		0	0		0	5		0	5		0
TOTAL of New material (A)					0			0			0			0
B	Transportation & labor													
19	Labour charges for repair/reconditioning of transformers	EA	1		0	1		0	1		0	1		0
20	Painting charges (external & internal)	EA	1		0	1		0	1		0	1		0
21	Freight & Transit Insurance (From TPCODL Store to Repairer Factory)	EA	1		0	1		0	1		0	1		0
22	Freight & Transit Insurance	EA	1		0	1		0	1		0	1		0

	(From Repairer Works to TPCODL Store)													
TOTAL of Transportation & labor (B)					0			0			0			0
C	Scrap Materials													
23	HV & LV leg coil complete with paper insulation only.	Kg	33		0	38		0	45		0	54		0
24	HV & LV leg coil complete with super enameled only.	Kg	33		0	38		0	45		0	54		0
25	Metal parts for HV & LV Bushing(Rod, nut, bolts etc) connectors etc	Kg	0		0	0		0	0		0	0		0
26	LV Internal termination Parts	Kg	2		0	2		0	4.6		0	4.6		0
27	Silica gel breather	EA	0		0	0		0	1		0	1		0
28	Radiator	Kg	0		0	0		0	10		0	10		0
29	Conservator tank, EVP, tank top cover and other iron parts	Kg	0		0	0		0	5		0	5		0
30	Transformer oil	Ltr	45.5		0	45.5		0	63		0	63		0
31	Tapping switch with handle	EA	0		0	0		0	0		0	0		0
32	Dial type thermometer	EA	0		0	0		0	0		0	0		0
TOTAL of Scrap Materials (C)					0			0			0			0
Total All Inclusive Unit Price, i.e., Material + Transport - Scrap (A+B-C)					0			0			0			0
Quantity			5			5			750			5		
Total All Inclusive Value (Unit Price * Quantity)			0			0			0			0		
Total All Inclusive Value for complete BOQ			0											

Annexure-1D

S.N o.	Item Description	UO M	Unit price for Bill of Material for 1 no. Transformer for each rating for evaluation purpose											
			63 KVA , 11 / 0.415 kV			63 KVA , 11 / 0.415 kV			100 KVA , 11 / 0.415 kV			100 KVA , 11 / 0.415 kV		
			3 Ph Al wound			3 Ph CU wound			3 Ph Al wound			3 Ph CU wound		
			Bill of Material	Uni t pri ce wit h GS T	All Inclus ive Price per DTR	Bill of Material	Uni t pri ce wit h GS T	All Inclus ive Price per DTR	Bill of Material	Uni t pri ce wit h GS T	All Inclus ive Price per DTR	Bill of Material	Uni t pri ce wit h GS T	All Inclus ive Price per DTR
			x	y	x*y	x	y	x*y	x	y	x*y	x	y	x*y
A	New Materials													
1	HV Coil Total													
1A	New Paper Insulated winding	Kg	31		0	40		0	50		0	54		0
1C	New Super Enameled Winding	Kg	0		0	0		0	0		0	0		0
2	LV Coil Total													
2A	New LV coil with paper insulation	Kg	20		0	28		0	30		0	40		0
2B	Old Conductor with New DPC insulation	Kg	0		0	0		0	0		0	0		0
3	LV internal termination (Phase & Neutral)	Kg	0		0	0		0	0		0	0		0
4	HV Bushing insulator	EA	3		0	3		0	3		0	3		0
5	LV Bushing Insulator	EA	4		0	4		0	4		0	4		0
6	Metal parts for HV Bushing (Rod, nut, bolts etc.)	EA	3		0	3		0	3		0	3		0
7	Metal parts for LV Bushing (Rod, nut, bolts etc.)	EA	4		0	4		0	4		0	4		0

8	Set of gaskets	Set	1		0	1		0	1		0	1		0
9	Silica gel breather	EA	1		0	1		0	1		0	1		0
10	Prismatic Oil level gauge	EA	1		0	1		0	1		0	1		0
11	Tapping switch with handle	EA	0		0	0		0	0		0	0		0
12	Oil drain/Filter valve	EA	2		0	2		0	2		0	2		0
13	Pair of Arching Horns	EA	3		0	3		0	3		0	3		0
14	Fresh Transformer oil as per latest latest IS 335	Litre	120		0	120		0	210		0	210		0
15	Sundry items	Set	1		0	1		0	1		0	1		0
16	Dial type Thermometer of min.10mm with max. temp. Ind.	EA	0		0	0		0	0		0	0		0
17	New Radiator	Kg	10		0	10		0	10		0	10		0
18	Conservator tank,EVP,tank top cover etc	Kg	5		0	5		0	5		0	5		0
TOTAL of New material (A)					0			0			0			0
B	Transportation & labor													
19	Labour charges for repair/reconditioning of transformers	EA	1		0	1		0	1		0	1		0
20	Painting charges (external & internal)	EA	1		0	1		0	1		0	1		0
21	Freight & Transit Insurance (From TPCODL Store to Repairer Factory)	EA	1		0	1		0	1		0	1		0
22	Freight & Transit Insurance (From Repairer Works to TPCODL Store)	EA	1		0	1		0	1		0	1		0
TOTAL of Transportation & labor (B)					0			0			0			0

C	Scrap Materials													
23	HV & LV leg coil complete with paper insulation only.	Kg	50		0	80		0	80		0	80		0
24	HV & LV leg coil complete with super enameled only.	Kg	50		0	80		0	80		0	80		0
25	Metal parts for HV & LV Bushing(Rod, nut, bolts etc) connectors etc	Kg	0		0	0		0	0		0	0		0
26	LV Internal termination Parts	Kg	4.6		0	4.6		0	4.6		0	4.6		0
27	Silica gel breather	EA	1		0	1		0	1		0	1		0
28	Radiator	Kg	10		0	10		0	10		0	10		0
29	Conservator tank,EVP,tank top cover and other iron parts	Kg	5		0	5		0	5		0	5		0
30	Transformer oil	Ltr	84		0	147		0	147		0	147		0
31	Tapping switch with handle	EA	0		0	0		0	0		0	0		0
32	Dial type thermometer	EA	0		0	0		0	0		0	0		0
TOTAL of Scrap Materials (C)					0			0			0			0
Total All Inclusive Unit Price, i.e., Material + Transport - Scrap (A+B-C)					0			0			0			0
Quantity			650			5			550			2		
Total All Inclusive Value (Unit Price * Quantity)			0			0			0			0		
Total All Inclusive Value for complete BOQ			0											

Annexure-1E

S. No.	Item Description	U O M	Unit price for Bill of Material for 1 no. Transformer for each rating for evaluation purpose																	
			200 KVA , 11 / 0.415 kV			200 KVA , 11 / 0.415 kV			250 KVA , 11 / 0.415 kV			250 KVA , 11 / 0.415 kV			500 KVA , 11 / 0.415 kV			1000 KVA , 11 / 0.415 kV		
			3 Ph Al wound			3 Ph Cu wound			3 Ph Al wound			3 Ph CU wound			3 Ph CU wound			3 Ph Cu wound		
			Bill of Material	Unit price with GST	All Inclusive Price per DT R	Bill of Material	Unit price with GST	All Inclusive Price per DT R	Bill of Material	Unit price with GST	All Inclusive Price per DT R	Bill of Material	Unit price with GST	All Inclusive Price per DT R	Bill of Material	Unit price with GST	All Inclusive Price per DT R	Bill of Material	Unit price with GST	All Inclusive Price per DT R
			x	y	x*y	x	y	x*y	x	y	x*y	x	y	x*y	x	y	x*y	x	y	x*y
A	New Materials																			
1	HV Coil Total																			
1 A	New Paper Insulated winding	K g	90		0	100		0	100		0	130		0	200		0	320		0
1 B	Old Conductor with New DPC insulation	K g	0		0	0		0	0		0	0		0	0		0	0		0
1 C	New Super Enameled Winding	K g	0		0	0		0	0		0	0		0	0		0	0		0
2	LV Coil Total																			
2 A	New Conductor with New DPC	K g	60		0	75		0	50		0	80		0	140		0	210		0

22	Freight & Transit Insurance (From Repairer Works to TPCOD L Store)	EA	1		0	1		0	1		0	1		0	1		0	1		0
TOTAL of Transportation & labor (B)					0			0			0			0			0			0
C	Scrap Materials																			
23	HV & LV leg coil complete with paper insulation only.	Kg	150		0	240		0	160		0	230		0	390		0	638		0
24	HV & LV leg coil complete with super enameled only.	Kg	150		0	240		0	160		0	230		0	390		0	638		0
25	Metal parts for HV & LV Bushing(Rod,nut, bolts etc) connectors etc	Kg	3		0	3		0	4		0	4		0	5		0	7		0
26	LV Internal termination Parts	Kg	4.6		0	4.6		0	5.15		0	5.15		0	5		0	11		0
27	Silica gel breather	EA	1		0	1		0	1		0	1		0	1		0	1		0
28	Radiator	Kg	15		0	15		0	15		0	15		0	50		0	50		0
29	Conservator tank,EVP,tank top cover and other iron	Kg	7		0	7		0	7		0	7		0	10		0	10		0

	parts																			
30	Transformer oil	Ltr	252		0	252		0	301		0	301		0	392		0	630		0
31	Tapping switch with handle	E A	0		0	0		0	1		0	1		0	1		0	1		0
32	Dial type thermometer	E A	0		0	0		0	0		0	0		0	1		0	1		0
TOTAL of Scrap Materials (C)					0			0			0			0			0			0
Total All Inclusive Unit Price, i.e., Material + Transport - Scrap (A+B-C)					0			0			0			0			0			0
Quantity			15			2			130			5			60			3		
Total All Inclusive Value (Unit Price * Quantity)			0			0			0			0			0			0		
Total All Inclusive Value for complete BOQ			0																	

For 11KV 2025-26(New Material)

New Materials	Same material same rate	Transformer Qty	ALL INCLUSIVE Unit Price (including GST)		Total all incl value (including GST)	
			AL	CU	AL	CU
HV leg coil complete with paper insulation only	Same for All Trf (AL, Cu)	20			0	0
LV leg coil complete with paper insulation only		20			0	0
HV leg coil complete with super enamell		20			0	0
LV leg coil complete with super enamell		20			0	0
HV leg coil complete with Old Conductor with New DPC insulation		20			0	0
LV leg coil complete with Old Conductor with New DPC insulation		20			0	0
					0	0
			All inclusive Total price		0	

For 11KV 2025-26					
S.No.	Item Description	UOM	Unit price for Bill of Material		
			16 KVA , 11 / 0.230 kV		
			1 Ph Al wound		
			Bill of Material	Unit price with GST	All Inclusive Price per DTR
			X	Y	X*Y
	Services				
1	Labour Charges for Conservator Tank Repair	EA	1		0
2	Labour Charges for Amorphous/shell Type Transformer Repairing	EA	1		0
TOTAL of Services					0
Quantity			400		
Total All Inclusive Value (Unit Price * Quantity)			0		
Total All Inclusive Value for complete BOQ			0		

For 11KV 2025-2026					
S.No.	Item Description	UOM	Unit price for Bill of Material		
			16 KVA , 11 / 0.415 kV		
			3 Ph Al wound		
			Bill of Material	Unit price with GST	All Inclusive Price per DTR
			x	y	x*y
	Services				
1	Labour Charges for Conservator Tank Repair	EA	1		0
2	Labour Charges for Amorphous/shell Type Transformer Repairing	EA	1		0
TOTAL of Services					0
Quantity			2		
Total All Inclusive Value (Unit Price * Quantity)			0		
Total All Inclusive Value for complete BOQ			0		

For 11KV 2025-2026								
S.No.	Item Description	UOM	Unit price for Bill of Material					
			25 KVA , 11 / 0.230 kV			25 KVA , 11 / 0.415 kV		
			(2) 1 Ph Al wound			3 Ph Al wound		
			Bill of Material	Unit price with GST	All Inclusive Price per DTR	Bill of Material	Unit price with GST	All Inclusive Price per DTR
			x	y	x*y	x	y	x*y
	Services							
1	Labour Charges for Conservator Tank Repair	EA	1		0	1		0
2	Labour Charges for Amorphous/shell Type Transformer Repairing	EA	1		0	1		0
TOTAL of Services					0			0
Quantity			5			750		
Total All Inclusive Value (Unit Price * Quantity)			0			0		
Total All Inclusive Value for complete BOQ			0					

For 11KV 2025-2026								
S.No.	Item Description	UOM	Unit price for Bill of Material					
			63 KVA , 11 / 0.415 kV			100 KVA , 11 / 0.415 kV		
			3 Ph Al wound			3 Ph Al wound		
			Bill of Material	Unit price with GST	All Inclusive Price per DTR	Bill of Material	Unit price with GST	All Inclusive Price per DTR
			x	y	x*y	x	y	x*y
	Services							
1	Labour Charges for Conservator Tank Repair	EA	1		0	1		0
2	Labour Charges for Amorphous/shell Type Transformer Repairing	EA	1		0	1		0

TOTAL of Services			0			0
Quantity	650			550		
Total All Inclusive Value (Unit Price * Quantity)	0			0		
Total All Inclusive Value for complete BOQ	0					

For 11KV 2025-2026														
S.N o.	Item Description	UO M	Unit price for Bill of Material											
			200 KVA , 11 / 0.415 kV			250 KVA , 11 / 0.415 kV			500 KVA , 11 / 0.415 kV			1000 KVA , 11 / 0.415 kV		
			3 Ph Al wound			3 Ph Al wound			3 Ph CU wound			3 Ph Cu wound		
			Bill of Mate rial	Uni t pri ce wit h GS T	All Inclus ive Price per DTR	Bill of Mate rial	Uni t pri ce wit h GS T	All Inclus ive Price per DTR	Bill of Mate rial	Uni t pri ce wit h GS T	All Inclus ive Price per DTR	Bill of Mate rial	Uni t pri ce wit h GS T	All Inclus ive Price per DTR
			x	y	x*y	x	y	x*y	x	y	x*y	x	y	x*y
	Services													
1	Labour Charges for Conservator Tank Repair	EA	1		0	1		0	1		0	1		0
2	Labour Charges for Amorphous /shell Type Transformer Repairing	EA	1		0	1		0	1		0	1		0
TOTAL of Services					0			0			0			0
Quantity			15			130			60			3		
Total All Inclusive Value (Unit Price * Quantity)			0			0			0			0		
Total All Inclusive Value for complete BOQ			0											

Unit rate for scrap-SE(11KV 2025-26)

Scrap	Same material same rate	Qty IN KG		ALL INCLUSIVE Unit Price (including GST) per KG		Total all incl value (including GST)	
		AL	CU	AL	CU	AL	CU
HV & LV leg coil complete with super enameled only	Same for All Trf (AL, Cu)	604	2016				
				All inclusive Total price			

Annexure-2

**Schedule of Items for DTR Repairing
FY 26-27(11KV)**

SL No	Schedules of Item Description	Quantity	Uo M	All Inclusive Total Unit 'Net Repair Cost' including GST (i.e A+B-C)*	All Inclusive Total Price including GST	C_Unit rate including GST	C_All inclusive total price	A+B_Unit rate including GST	A+B_All Inclusive total price(D)	Services (all inclusive Unit rate)	Services _All Inclusive total price€
1	10 KVA , 11 / 0.230 kV 1 Ph Al wound	1	EA	0	0	0	0	0	0	0	0
2	10 KVA , 11 / 0.230 kV 1 Ph Cu wound	1	EA	0	0	0	0	0	0	0	0
3	16 KVA , 11 / 0.230 kV 1 Ph Al wound	380	EA	0	0	0	0	0	0	0	0
4	16 KVA , 11 / 0.230 kV 1 Ph Cu wound	1	EA	0	0	0	0	0	0	0	0
7	16 KVA , 11/.4 Kv 3PH , AL Wound	1	EA	0	0	0	0	0	0	0	0
8	16 KVA , 11/.4 kV 3PH , CU Wound	1	EA	0	0	0	0	0	0	0	0
5	25 KVA , 11 / 0.230 kV 1 Ph	1	EA	0	0	0	0	0	0	0	0

[illegible]

11KV 2026-27

New Materials	Same material same rate	Remark (Important Note)	ALL INCLUSIVE Unit Price (including GST)	
			AL	CU
HV leg coil complete with paper insulation only.	Same for All Trf (AL, Cu)			
LV leg coil complete with paper insulation only.				
HV leg coil complete with Super enamelled only.	Same for All Trf (AL, Cu)			
LV leg coil complete with Super enamelled only.				
New Conductor with New DPC	Same for All Trf (AL, Cu)			
Old conductor with new DPC	Same for All Trf (AL, Cu)			
LV ph / neutral copper / Al flats (LV termination internal)	Same for All Trf (AL, Cu)			
HV Bushing (11 KV) insulator Lightly Polluted	Upto 25 kVA			
HV Bushing (11 KV) insulator Heavily Polluted	Above 63 kVA Trf	As per IS 8603 (Part I) 17.5 KV(Heavily Polluted)		
LV Bushing(0.433 KV) Insulator	10-160	As per IS 3347 (Part I) 1 KV		
	200-400			
	500-630			
	700-1000			
Metal parts for HV Bushing (Rod, nut, bolts etc.)-Full tinned brass as per IS 3347(part-I):1979	Same for All Trf	Bushing rods and nuts shall be made of tinned brass material		
Metal parts for LV Bushing (Rod, nut, bolts etc.)-Full tinned brass as per IS 3347(part-I):1979	10 to 25	Bushing rod shall be made of tinned copper material Note-Oil seal should be Neoprene		
	63 to 100			
	200-400			
	500-630			
	700-1000			
Set of gaskets	10-160	As per IS 4353 Part II		
	200-400			

	500-630			
	700-1000			
Silica gel breather	10-100 (500 gm)	Acrylic/ Polycarbonate with UV protected , As per IS 3401-1992		
	200-1000 (1 kg)			
Oil level gauge	10kva-25	The oil level gauge shall be prismatic type		
	63-100			
	200-400			
	500-630			
	700-1000			
Tapping switch with handle	10-200	+5.0 % to -10 % in steps of 2.5 %		
	Same for All Trf above 200 kVA (250-1000)			
Oil drain/Filter valve	Same for All Trf	MS with Gate type Valve		
Pair of Arching Horns	Same for All Trf	Hot Dip Galvanized		
Fresh Transformer oil as per IS 335	Same for All Trf	Indian Oil- No reconditioned Oil Electrical and chemical Test report/certificate to be furnished		
Sundry items	10kva-25	Flat Washer, Nut bolt with spring washer, etc.Shall be hot dip Galvanizing		
	63-160			
	200-400			
	500-630			
	700-1000			
Dial type Thermometer of min.10mm with max. temp. Ind.	Same for All Trf 250 and above	Stainless Steel Dial, range 0-120 °C, accuracy +/-2°C		
New Radiator	Same for All Trf			
Conservator tank,EVP,tank top cover etc	Same for All Trf			
Transportation-11KV FY25			All inclusive unit rates(GST Inclusive)	
			AL	CU

Labour charges for repair/reconditioing of transformers	EA	10-63KVA		
		100KVA		
		200-250KVA		
		500 KVA		
		1000KVA		
Painting charges (external & internal)	EA	10-25KVA		
		63KVA		
		100KVA		
		200KVA		
		250KVA		
		500KVA		
		1000KVA		
Freight & Insu. (From TPCODL Store to Repairer Factory)	EA	10-25,1PH		
		25,3PH		
		63KVA		
		100KVA		
		200KVA		
		250KVA		
		500KVA		
		1000KVA		
Freight & Insu. (From Repairer Works to TPCODL Store)	EA	10-25,1PH		
		25,3PH		
		63KVA		
		100KVA		
		200KVA		
		250KVA		
		500KVA		
		1000KVA		
Scarp Materials(Same for all KVA)			AL	CU
HV & LV leg coil complete with paper insulation only.	Kg	10 to 1000KVA		
Metal parts for HV & LV Bushing (Rod,nut,bolts etc) connectors etc	Kg			
Old LV phase and neutral copper/ Al flats (LV termination internal)	Kg			
Silica gel breather	EA			
Radiator	Kg			
Conservator tank,EVP,tank top cover and other iron parts	Kg			
Transformer oil				

Tapping switch with handle	EA			
Dial type thermometer	EA			
Unit rates for new materials			AL	CU
HV leg coil complete with paper insulation only	Kg	For all Transformers		
LV leg coil complete with paper insulation only	Kg			
HV leg coil complete with super enamell	Kg			
LV leg coil complete with super enamell	Kg			
HV leg coil complete with Old Conductor with New DPC insulation	Kg			
LV leg coil complete with Old Conductor with New DPC insulation	Kg			
New line items for services			AL	CU
Labour Charges for Conservator Tank Repair	EA	16KVA 1PH		
		16KVA 3ph		
		25KVA 1PH		
		25KVA 3PH		
		63KVA 3ph		
		100KVA 3PH		
		200KVA 3ph		
		250KVA 3ph		
		500KVA 3ph		
		1000KVA 3ph		
Labour Charges for Amorphous/shell Type Transformer Repairing	EA	16KVA 1PH		
		16KVA 3ph		
		25KVA 1PH		
		25KVA 3PH		
		63KVA 3ph		
		100KVA 3PH		
		200KVA 3ph		
		250KVA 3ph		
		500KVA 3ph		
		1000KVA 3ph		

Annexure-2A

S.N o.	Item Description	UO M	Unit price for Bill of Material for 1 no. Transformer for each rating for evaluation purpose											
			10 KVA , 11 / 0.230 kV			10 KVA , 11 / 0.230 kV			16 KVA , 11 / 0.230 kV			16 KVA , 11 / 0.230 kV		
			1 Ph Al wound			1 Ph Cu wound			1 Ph Al wound			1 Ph Cu wound		
			Bill of Mater ial	Uni t pri ce wit h GS T	All Inclus ive Price per DTR	Bill of Mater ial	Uni t pri ce wit h GS T	All Inclus ive Price per DTR	Bill of Mater ial	Uni t pri ce wit h GS T	All Inclus ive Price per DTR	Bill of Mater ial	Uni t pri ce wit h GS T	All Inclus ive Price per DTR
			X	Y	X*Y	X	Y	X*Y	X	Y	X*Y	X	Y	X*Y
A	New Materials													
1	HV Coil Total													
1A	New Paper Insulated winding	Kg	8		0	10		0	20		0	22		0
1B	New Super Enameled Winding	Kg	0		0	0		0	0		0	0		0
2	LV Coil Total													
2A	New LV coil with paper insulation	Kg	7		0	10		0	10		0	14		0
2B	Old Conductor with New DPC insulation	Kg	0		0	0		0	0		0	0		0
3	LV internal termination (Phase & Neutral)	Kg	0		0	0		0	0		0	0		0
4	HV Bushing insulator	EA	2		0	2		0	2		0	2		0
5	LV Bushing Insulator	EA	2		0	2		0	2		0	2		0
6	Metal parts for HV Bushing (Rod, nut, bolts etc.)	EA	2		0	2		0	2		0	2		0
7	Metal parts for LV Bushing (Rod, nut, bolts etc.)	EA	2		0	2		0	2		0	2		0
8	Set of gaskets	Set	1		0	1		0	1		0	1		0
9	Silica gel breather	EA	0		0	0		0	0		0	0		0
10	Prismatic Oil level gauge	EA	1		0	1		0	1		0	1		0

11	Tapping switch with handle	EA	0		0	0		0	0		0	0		0
12	Oil drain/Filter valve	EA	1		0	1		0	1		0	1		0
13	Pair of Arching Horns	EA	2		0	2		0	2		0	2		0
14	Fresh Transformer oil as per latest IS 335	Litre	50		0	50		0	60		0	60		0
15	Sundry items	Set	1		0	1		0	1		0	1		0
16	Dial type Thermometer of min.10mm with max. temp. Ind.	EA	0		0	0		0	0		0	0		0
17	New Radiator	Kg	0		0	0		0	0		0	0		0
18	Conservator tank,EVP,tank top cover etc	Kg	0		0	0		0	0		0	0		0
TOTAL of New material (A)					0			0			0			0
B	Transportation & labor													
19	Labour charges for repair/reconditioning of transformers	EA	1		0	1		0	1		0	1		0
20	Painting charges (external & internal)	EA	1		0	1		0	1		0	1		0
21	Freight & Transit Insurance (From TPCODL Store to Repairer Factory)	EA	1		0	1		0	1		0	1		0
22	Freight & Transit Insurance (From Repairer Works to TPCODL Store)	EA	1		0	1		0	1		0	1		0
TOTAL of Transportation & labor (B)					0			0			0			0
C	Scrap Materials													
23	HV & LV leg coil complete with paper insulation only.	Kg	15		0	20		0	30		0	36		0

24	HV & LV leg coil complete with super enameled only.	Kg	15		0	20		0	30		0	36		0
25	Metal parts for HV & LV Bushing(Rod, nut, bolts etc) connectors etc	Kg	0		0	0		0	0		0	0		0
26	LV Internal termination Parts	Kg	2		0	2		0	2		0	2		0
27	Silica gel breather	EA	0		0	0		0	0		0	0		0
28	Radiator	Kg	0		0	0		0	0		0	0		0
29	Conservator tank, EVP, tank top cover and other iron parts	Kg	0		0	0		0	0		0	0		0
30	Transformer oil	Ltr	35		0	35		0	42		0	42		0
31	Tapping switch with handle	EA	0		0	0		0	0		0	0		0
32	Dial type thermometer	EA	0		0	0		0	0		0	0		0
TOTAL of Scrap Materials (C)					0			0			0			0
Total All Inclusive Unit Price, i.e., Material + Transport - Scrap (A+B-C)					0			0			0			0
Quantity			1			1			380			1		
Total All Inclusive Value (Unit Price * Quantity)			0			0			0			0		
Total All Inclusive Value for complete BOQ			0											

Annexure-2B

S.No.	Item Description	UOM	Unit price for Bill of Material for 1 no. Transformer for each rating for evaluation purpose					
			16 KVA , 11 / 0.415 kV			16 KVA , 11 / 0.415 kV		
			3 Ph Al wound			3 Ph Cu wound		
			Bill of Material	Unit price with GST	All Inclusive Price per DTR	Bill of Material	Unit price with GST	All Inclusive Price per DTR
			x	y	x*y	x	y	x*y
A	New Materials							
1	HV Coil Total							
1A	New Paper Insulated winding	Kg	28		0	34		0
1B	New Super Enameled Winding	Kg	0		0	0		0
2	LV Coil Total							
2A	New LV coil with paper insulation	Kg	13		0	16		0
2B	Old Conductor with New DPC insulation	Kg	0		0	0		0
3	LV internal termination (Phase & Neutral)	Kg	0		0	0		0
4	HV Bushing insulator	EA	3		0	3		0
5	LV Bushing Insulator	EA	4		0	4		0
6	Metal parts for HV Bushing (Rod, nut, bolts etc.)	EA	3		0	3		0
7	Metal parts for LV Bushing (Rod, nut, bolts etc.)	EA	4		0	4		0
8	Set of gaskets	Set	1		0	1		0
9	Silica gel breather	EA	1		0	1		0
10	Prismatic Oil level gauge	EA	1		0	1		0
11	Tapping switch with handle	EA	0		0	0		0
12	Oil drain/Filter valve	EA	2		0	2		0
13	Pair of Arching Horns	EA	3		0	3		0
14	Fresh Transformer oil as per latest latest IS 335	Litre	80		0	80		0

15	Sundry items	Set	1		0	1		0
16	Dial type Thermometer of min.10mm with max. temp. Ind.	EA	0		0	0		0
17	New Radiator	Kg	10		0	10		0
18	Conservator tank,EVP,tank top cover etc	Kg	5		0	5		0
TOTAL of New material (A)					0			0
B	Transportation & labor							
19	Labour charges for repair/reconditioing of transformers	EA	1		0	1		0
20	Painting charges (external & internal)	EA	1		0	1		0
21	Freight & Transit Insurance (From TPCODL Store to Repairer Factory)	EA	1		0	1		0
22	Freight & Transit Insurance (From Repairer Works to TPCODL Store)	EA	1		0	1		0
TOTAL of Transportation & labor (B)					0			0
C	Scrap Materials							
23	HV & LV leg coil complete with paper insulation only.	Kg	41		0	50		0
24	HV & LV leg coil complete with super enameled only.	Kg	41		0	50		0
25	Metal parts for HV & LV Bushing(Rod,nut,bolts etc) connectors etc	Kg	0		0	0		0
26	LV Internal termination Parts	Kg	4.6		0	4.6		0
27	Silica gel breather	EA	1		0	1		0
28	Radiator	Kg	10		0	10		0
29	Conservator tank,EVP,tank top cover and other iron parts	Kg	5		0	5		0

30	Transformer oil	Ltr	63		0	63		0
31	Tapping switch with handle	EA	0		0	0		0
32	Dial type thermometer	EA	0		0	0		0
TOTAL of Scrap Materials (C)					0			0
Total All Inclusive Unit Price, i.e., Material + Transport - Scrap (A+B-C)					0			0
Quantity			1			1		
Total All Inclusive Value (Unit Price * Quantity)			0			0		
Total All Inclusive Value for complete BOQ			0					

Annexure-2C

S.N o.	Item Description	UO M	Unit price for Bill of Material for 1 no. Transformer for each rating for evaluation purpose											
			25 KVA , 11 / 0.230 kV			25 KVA , 11 / 0.230 kV			25 KVA , 11 / 0.415 kV			25 KVA , 11 / 0.415 kV		
			(2) 1 Ph Al wound			(2) 1 Ph Cu wound			3 Ph Al wound			3 Ph Cu wound		
			Bill of Material	Unit price with GST	All Inclusive Price per DTR	Bill of Material	Unit price with GST	All Inclusive Price per DTR	Bill of Material	Unit price with GST	All Inclusive Price per DTR	Bill of Material	Unit price with GST	All Inclusive Price per DTR
			x	y	x*y	x	y	x*y	x	y	x*y	x	y	x*y
A	New Materials													
1	HV Coil Total													
1A	New Paper Insulated winding	Kg	23		0	24		0	30		0	36		0
1C	New Super Enameled Winding	Kg	0		0	0		0	0		0	0		0
2	LV Coil Total													
2A	New LV coil with paper insulation	Kg	10		0	14		0	15		0	18		0

2B	Old Conductor with New DPC insulation	Kg	0		0	0		0	0		0	0		0
3	LV internal termination (Phase & Neutral)	Kg	0		0	0		0	0		0	0		0
4	HV Bushing insulator	EA	2		0	2		0	3		0	3		0
5	LV Bushing Insulator	EA	2		0	2		0	4		0	4		0
6	Metal parts for HV Bushing (Rod, nut, bolts etc.)	EA	2		0	2		0	3		0	3		0
7	Metal parts for LV Bushing (Rod, nut, bolts etc.)	EA	2		0	2		0	4		0	4		0
8	Set of gaskets	Set	1		0	1		0	1		0	1		0
9	Silica gel breather	EA	0		0	0		0	1		0	1		0
10	Prismatic Oil level gauge	EA	1		0	1		0	1		0	1		0
11	Tapping switch with handle	EA	0		0	0		0	0		0	0		0
12	Oil drain/Filter valve	EA	1		0	1		0	2		0	2		0
13	Pair of Arching Horns	EA	2		0	2		0	3		0	3		0
14	Fresh Transformer oil as per latest latest IS 335	Litre	65		0	65		0	90		0	90		0
15	Sundry items	Set	1		0	1		0	1		0	1		0
16	Dial type Thermometer of min.10mm with max. temp. Ind.	EA	0		0	0		0	0		0	0		0
17	New Radiator	Kg	0		0	0		0	10		0	10		0
18	Conservator tank,EVP,tank top cover etc	Kg	0		0	0		0	5		0	5		0
TOTAL of New material (A)					0			0			0			0

B	Transportation & labor												
19	Labour charges for repair/reconditioning of transformers	EA	1		0	1		0	1		0	1	0
20	Painting charges (external & internal)	EA	1		0	1		0	1		0	1	0
21	Freight & Transit Insurance (From TPCODL Store to Repairer Factory)	EA	1		0	1		0	1		0	1	0
22	Freight & Transit Insurance (From Repairer Works to TPCODL Store)	EA	1		0	1		0	1		0	1	0
TOTAL of Transportation & labor (B)					0			0			0		0
C	Scrap Materials												
23	HV & LV leg coil complete with paper insulation only.	Kg	33		0	38		0	45		0	54	0
24	HV & LV leg coil complete with super enameled only.	Kg	33		0	38		0	45		0	54	0
25	Metal parts for HV & LV Bushing(Rod,nut,bolts etc) connectors etc	Kg	0		0	0		0	0		0	0	0
26	LV Internal termination Parts	Kg	2		0	2		0	4.6		0	4.6	0
27	Silica gel breather	EA	0		0	0		0	1		0	1	0
28	Radiator	Kg	0		0	0		0	10		0	10	0
29	Conservator tank,EVP,tank top cover and other iron parts	Kg	0		0	0		0	5		0	5	0
30	Transformer oil	Ltr	45.5		0	45.5		0	63		0	63	0
31	Tapping switch with handle	EA	0		0	0		0	0		0	0	0
32	Dial type thermometer	EA	0		0	0		0	0		0	0	0
TOTAL of Scrap Materials (C)					0			0			0		0

Total All Inclusive Unit Price, i.e., Material + Transport - Scrap (A+B-C)		0		0		0		0
Quantity	1		1		710		1	
Total All Inclusive Value (Unit Price * Quantity)	0		0		0		0	
Total All Inclusive Value for complete BOQ	0							

Annexure-2D

S.N o.	Item Description	UO M	Unit price for Bill of Material for 1 no. Transformer for each rating for evaluation purpose											
			63 KVA , 11 / 0.415 kV			63 KVA , 11 / 0.415 kV			100 KVA , 11 / 0.415 kV			100 KVA , 11 / 0.415 kV		
			3 Ph Al wound			3 Ph CU wound			3 Ph Al wound			3 Ph CU wound		
			Bill of Material	Unit price with GST	All Inclusive Price per DTR	Bill of Material	Unit price with GST	All Inclusive Price per DTR	Bill of Material	Unit price with GST	All Inclusive Price per DTR	Bill of Material	Unit price with GST	All Inclusive Price per DTR
			x	y	x*y	x	y	x*y	x	y	x*y	x	y	x*y
A	New Materials													
1	HV Coil Total													
1A	New Paper Insulated winding	Kg	31		0	40		0	50		0	54		0
1C	New Super Enameled Winding	Kg	0		0	0		0	0		0	0		0
2	LV Coil Total													
2A	New LV coil with paper insulation	Kg	20		0	28		0	30		0	40		0
2B	Old Conductor with New DPC insulation	Kg	0		0	0		0	0		0	0		0
3	LV internal termination (Phase & Neutral)	Kg	0		0	0		0	0		0	0		0
4	HV Bushing insulator	EA	3		0	3		0	3		0	3		0

5	LV Bushing Insulator	EA	4		0	4		0	4		0	4		0
6	Metal parts for HV Bushing (Rod, nut, bolts etc.)	EA	3		0	3		0	3		0	3		0
7	Metal parts for LV Bushing (Rod, nut, bolts etc.)	EA	4		0	4		0	4		0	4		0
8	Set of gaskets	Set	1		0	1		0	1		0	1		0
9	Silica gel breather	EA	1		0	1		0	1		0	1		0
10	Prismatic Oil level gauge	EA	1		0	1		0	1		0	1		0
11	Tapping switch with handle	EA	0		0	0		0	0		0	0		0
12	Oil drain/Filter valve	EA	2		0	2		0	2		0	2		0
13	Pair of Arching Horns	EA	3		0	3		0	3		0	3		0
14	Fresh Transformer oil as per latest IS 335	Litre	120		0	120		0	210		0	210		0
15	Sundry items	Set	1		0	1		0	1		0	1		0
16	Dial type Thermometer of min.10mm with max. temp. Ind.	EA	0		0	0		0	0		0	0		0
17	New Radiator	Kg	10		0	10		0	10		0	10		0
18	Conservator tank,EVP,tank top cover etc	Kg	5		0	5		0	5		0	5		0
TOTAL of New material (A)					0			0			0			0
B	Transportation & labor													
19	Labour charges for repair/reconditioning of transformers	EA	1		0	1		0	1		0	1		0
20	Painting charges (external & internal)	EA	1		0	1		0	1		0	1		0
21	Freight & Transit Insurance (From TPCODL Store to	EA	1		0	1		0	1		0	1		0

	Repairer Factory)													
22	Freight & Transit Insurance (From Repairer Works to TPCODL Store)	EA	1		0	1		0	1		0	1		0
TOTAL of Transportation & labor (B)					0			0			0			0
C	Scrap Materials													
23	HV & LV leg coil complete with paper insulation only.	Kg	50		0	80		0	80		0	80		0
24	HV & LV leg coil complete with super enameled only.	Kg	50		0	80		0	80		0	80		0
25	Metal parts for HV & LV Bushing(Rod,nu t,bolts etc) connectors etc	Kg	0		0	0		0	0		0	0		0
26	LV Internal termination Parts	Kg	4.6		0	4.6		0	4.6		0	4.6		0
27	Silica gel breather	EA	1		0	1		0	1		0	1		0
28	Radiator	Kg	10		0	10		0	10		0	10		0
29	Conservator tank,EVP,tank top cover and other iron parts	Kg	5		0	5		0	5		0	5		0
30	Transformer oil	Ltr	84		0	147		0	147		0	147		0
31	Tapping switch with handle	EA	0		0	0		0	0		0	0		0
32	Dial type thermometer	EA	0		0	0		0	0		0	0		0
TOTAL of Scrap Materials (C)					0			0			0			0
Total All Inclusive Unit Price, i.e., Material + Transport - Scrap (A+B-C)					0			0			0			0
Quantity			650			1			550			1		
Total All Inclusive Value (Unit Price * Quantity)			0			0			0			0		
Total All Inclusive Value for complete BOQ			0											

Annexure-2E

S. N o.	Item Description	U O M	Unit price for Bill of Material for 1 no. Transformer for each rating for evaluation purpose																	
			200 KVA , 11 / 0.415 kV			200 KVA , 11 / 0.415 kV			250 KVA , 11 / 0.415 kV			250 KVA , 11 / 0.415 kV			500 KVA , 11 / 0.415 kV			1000 KVA , 11 / 0.415 kV		
			3 Ph Al wound			3 Ph Cu wound			3 Ph Al wound			3 Ph CU wound			3 Ph CU wound			3 Ph Cu wound		
			Bill of Material	Unit price with GST	All Inclusive Price per DT R	Bill of Material	Unit price with GST	All Inclusive Price per DT R	Bill of Material	Unit price with GST	All Inclusive Price per DT R	Bill of Material	Unit price with GST	All Inclusive Price per DT R	Bill of Material	Unit price with GST	All Inclusive Price per DT R	Bill of Material	Unit price with GST	All Inclusive Price per DT R
			x	y	x*y	x	y	x*y	x	y	x*y	x	y	x*y	x	y	x*y	x	y	x*y
A	New Materials																			
1	HV Coil Total																			
1 A	New Paper Insulated winding	K g	90		0	100		0	100		0	130		0	200		0	320		0
1 B	Old Conductor with New DPC insulation	K g	0		0	0		0	0		0	0		0	0		0	0		0
1 C	New Super Enameled Winding	K g	0		0	0		0	0		0	0		0	0		0	0		0
2	LV Coil Total																			
2 A	New Conductor with New DPC	K g	60		0	75		0	50		0	80		0	140		0	210		0

22	Freight & Transit Insurance (From Repairer Works to TPCOD L Store)	E A	1		0	1		0	1		0	1		0	1		0	1		0
TOTAL of Transportation & labor (B)					0			0			0			0			0			0
C	Scrap Materials																			
23	HV & LV leg coil complete with paper insulation only.	K g	150		0	240		0	160		0	230		0	390		0	638		0
25	Metal parts for HV & LV Bushing(Rod,nut, bolts etc) connectors etc	K g	3		0	3		0	4		0	4		0	5		0	7		0
26	LV Internal termination Parts	K g	4.6		0	4.6		0	5.15		0	5.15		0	5		0	11		0
27	Silica gel breather	E A	1		0	1		0	1		0	1		0	1		0	1		0
28	Radiator	K g	15		0	15		0	15		0	15		0	50		0	50		0
29	Conservator tank,EV P,tank top cover and other iron parts	K g	7		0	7		0	7		0	7		0	10		0	10		0
30	Transformer oil	Lt r	252		0	252		0	301		0	301		0	392		0	630		0
31	Tapping switch	E A	0		0	0		0	1		0	1		0	1		0	1		0

	with handle																			
32	Dial type thermometer	E A	0		0	0		0	0		0	0		0	1		0	1		0
TOTAL of Scrap Materials (C)					0			0			0			0			0			0
Total All Inclusive Unit Price, i.e., Material + Transport - Scrap (A+B-C)					0			0	0			0				0			0	
Quantity			15			1			125			2			55			2		
Total All Inclusive Value (Unit Price * Quantity)			0			0			0			0			0			0		
Total All Inclusive Value for complete BOQ			0																	

11KV 2026-27(New material)						
New Materials	Same material same rate	Transformer Qty	ALL INCLUSIVE Unit Price (including GST)		Total all incl value (including GST)	
			AL	CU	AL	CU
HV leg coil complete with paper insulation only	Same for All Trf (AL, Cu)	25			0	0
LV leg coil complete with paper insulation only		25			0	0
HV leg coil complete with super enamell		25			0	0
LV leg coil complete with super enamell		25			0	0
HV leg coil complete with Old Conductor with New DPC insulation		25			0	0

LV leg coil complete with Old Conductor with New DPC insulation		25			0	0
					0	0
			All inclusive Total price		0	

11KV 2026-27(Services)					
S.No.	Item Description	UOM	Unit price for Bill of Material		
			16 KVA , 11 / 0.230 kV		
			1 Ph Al wound		
			Bill of Material	Unit price with GST	All Inclusive Price per DTR
			X	Y	X*Y
	Services				
1	Labour Charges for Conservator Tank Repair	EA	1		0
2	Labour Charges for Amorphous/shell Type Transformer Repairing	EA	1		0
TOTAL of Services					0
Quantity			380		
Total All Inclusive Value (Unit Price * Quantity)			0		
Total All Inclusive Value for complete BOQ			0		

11KV 2026-27					
S.No.	Item Description	UOM	Unit price for Bill of Material		
			16 KVA , 11 / 0.415 kV		
			3 Ph Al wound		
			Bill of Material	Unit price with GST	All Inclusive Price per DTR
			x	y	x*y
	Services				
1	Labour Charges for Conservator Tank Repair	EA	1		0
2	Labour Charges for Amorphous/shell Type Transformer Repairing	EA	1		0
TOTAL of Services					0
Quantity			1		
Total All Inclusive Value (Unit Price * Quantity)			0		
Total All Inclusive Value for complete BOQ			0		

11KV 2026-27								
S.No.	Item Description	UOM	Unit price for Bill of Material					
			25 KVA , 11 / 0.230 kV			25 KVA , 11 / 0.415 kV		
			(2) 1 Ph Al wound			3 Ph Al wound		
			Bill of Material	Unit price with GST	All Inclusive Price per DTR	Bill of Material	Unit price with GST	All Inclusive Price per DTR
			x	y	x*y	x	y	x*y
	Services							
1	Labour Charges for Conservator Tank Repair	EA	1		0	1		0
2	Labour Charges for Amorphous/shell Type Transformer Repairing	EA	1		0	1		0
TOTAL of Services					0			0
Quantity			1			710		
Total All Inclusive Value (Unit Price * Quantity)			0			0		
Total All Inclusive Value for complete BOQ			0					

11KV 2026-27								
S.No.	Item Description	UOM	Unit price for Bill of Material					
			63 KVA , 11 / 0.415 kV			100 KVA , 11 / 0.415 kV		
			3 Ph Al wound			3 Ph Al wound		
			Bill of Material	Unit price with GST	All Inclusive Price per DTR	Bill of Material	Unit price with GST	All Inclusive Price per DTR
			x	y	x*y	x	y	x*y
	Services							
1	Labour Charges for Conservator Tank Repair	EA	1		0	1		0
2	Labour Charges for Amorphous/shell Type Transformer Repairing	EA	1		0	1		0
TOTAL of Services					0			0
Quantity			650			550		
Total All Inclusive Value (Unit Price * Quantity)			0			0		
Total All Inclusive Value for complete BOQ			0					

11KV 2026-27

S. No.	Item Description	U O M	Unit price for Bill of Material											
			200 KVA , 11 / 0.415 kV			250 KVA , 11 / 0.415 kV			500 KVA , 11 / 0.415 kV			1000 KVA , 11 / 0.415 kV		
			3 Ph Al wound			3 Ph Al wound			3 Ph CU wound			3 Ph Cu wound		
			Bill of Material	Unit price with GST	All Inclusive Price per DTR	Bill of Material	Unit price with GST	All Inclusive Price per DTR	Bill of Material	Unit price with GST	All Inclusive Price per DTR	Bill of Material	Unit price with GST	All Inclusive Price per DTR
			x	y	x*y	x	y	x*y	x	y	x*y	x	y	x*y
	Services													
1	Labour Charges for Conservator Tank Repair	EA	1		0	1		0	1		0	1		0
2	Labour Charges for Amorphous/shell Type Transformer Repairing	EA	1		0	1		0	1		0	1		0
TOTAL of Services					0			0			0			0
Quantity			15			125			55			2		
Total All Inclusive Value (Unit Price * Quantity)			0			0			0			0		
Total All Inclusive Value for complete BOQ			0											

Unit rates for Scrap SE-11KV 2026-27

Scrap	Same material same rate	Qty IN KG		ALL INCLUSIVE Unit Price (including GST) per KG		Total all incl value (including GST)	
		AL	CU	AL	CU	AL	CU
HV & LV leg coil complete with super enameled only	Same for All Trf (AL, Cu)	604	2016				
				All inclusive Total price			

**Schedule of Items for DTR Repairing
33KV(FY 25-26)**

SL No	Schedules of Item Description	Quantity	Uo M	All Inclusive Total Unit 'Net Repair Cost' including GST (i.e A+B-C)*	All Inclusive Total Price including GST	C_Unit rate including GST	C_All inclusive total price	A+B_Unit rate including GST	A+B_all inclusive total price(D)	Services(all inclusive Unit rate)	Services_All Inclusive total price
1	100 KVA , 33/0.415 kV,3 Ph CU wound	10	EA	0	0	0	0	0	0	0	0
2	250 KVA , 33/0.415 kV,3 Ph CU wound	2	EA	0	0	0	0	0	0	0	0
3	500 KVA , 33 / 0.415 kV,3 Ph CU wound	2	EA	0	0	0	0	0	0	0	0
4	750 KVA , 33 / 0.415 kV,3 Ph CU wound	1	EA	0	0	0	0	0	0	0	0
5	1000 KVA , 33 / 0.415 kV,3 Ph CU wound	1	EA	0	0	0	0	0	0	0	0
Total		16		0	0	0	0	0	0	0	0
6	Unit price for material(Total all incl)(F)								-		
	Total price(D+E+F)- (A+B+unit rates of new material+new service line item)								-		
	Unit price for SE scrap									-	
	Total all inclusive scrap value										-
	Total all inclusive((A+B+unit rates of new material+new service line item)-C(Scrap)-11KV FY24									-	

New Materials-33KV FY24			All inclusive unit rates	
			AL	CU
HV leg coil complete with paper insulation only.	KG	Same for All Trf (AL, Cu)		
LV leg coil complete with paper insulation only.	KG			
HV leg coil complete with Super enammel only.	KG			
LV leg coil complete with Super enammel only.	KG			
New Conductor with New DPC	KG			
Old Conductor with New DPC insulation	KG			
LV ph / neutral copper / Al flats (LV termination internal)	KG	Same for All Trf (AL, Cu)		
HV Bushing (33 KV) insulator Heavily Polluted	EA	Same for All Trf (AL, Cu)		
LV Bushing(0.433 KV) Insulator	EA	100		
		250		
		500		
		750		
		1000		
Metal parts for HV Bushing (Rod, nut, bolts etc.)-Full tinned brass as per IS 3347(part-I):1979	EA	100		
		250		
		500-1000		
Metal parts for LV Bushing (Rod, nut, bolts etc.)-Full tinned brass as per IS 3347(part-I):1979	EA	100		
		250		
		500		
		750		
		1000		
Set of gaskets	SET	100		
		250		
		500		
		750		
		1000		
Silica gel breather	EA	100		
		250-1000		
Oil level gauge	EA	100		
		250		
		500		
		750		
		1000		
Tapping switch with handle	EA	100-500		
		750-1000		

Oil drain/Filter valve	EA	Same for All Trf above 200 kVA (250-1000)		
Pair of Arching Horns	EA	Same for All Trf		
Fresh Transformer oil as per IS 335	Litre	Same for All Trf		
Sundry items	SET	100		
		250		
		500		
		750		
		1000		
Dial type Thermometer of min.10mm with max. temp. Ind.	EA	700-1000		
New Radiator	KG	Same for All Trf		
Conservator tank,EVP,tank top cover etc	KG	Same for All Trf		
Transportation-33kv FY24			All inclusive unit rates(GST Inclusive)	
			AL	CU
Labour charges for repair/reconditioing of transformers	EA	100KVA		
		250KVA		
		500KVA		
		750KVA		
		1000KVA		
Painting charges (external & internal)	EA	100KVA		
		250KVA		
		500KVA		
		750KVA		
		1000KVA		
Freight & Insu. (From TPCODL Store to Repairer Factory)	EA	100KVA		
		250KVA		
		500KVA		
		750KVA		
		1000KVA		
Freight & Insu. (From Repairer Works to TPCODL Store)	EA	100KVA		
		250KVA		
		500KVA		
		750KVA		
		1000KVA		
Scarp Materials(Same for all KVA) Both 11KVA and 33KVA(FY24)			All inclusive unit rates(GST Inclusive)	

			AL	CU
HV & LV leg coil complete with paper insulation only.	Kg			
Metal parts for HV & LV Bushing (Rod,nut,bolts etc) connectors etc	Kg			
Old LV phase and neutral copper/ Al flats (LV termination internal)	Kg			
Silica gel breather	EA			
Radiator	Kg			
Conservator tank,EVP,tank top cover and other iron parts	Kg			
Transformer oil				
Tapping switch with handle	EA			
Dial type thermometer	EA			
Unit rates for new materials-FY24			All inclusive unit rates(GST Inclusive)	
			AL	CU
HV leg coil complete with paper insulation only	Kg			
LV leg coil complete with paper insulation only	Kg			
HV leg coil complete with super enamell	Kg			
LV leg coil complete with super enamell	Kg			
HV leg coil complete with Old Conductor with New DPC insulation	Kg			
LV leg coil complete with Old Conductor with New DPC insulation	Kg			
New line items for services-33KV FY24			All inclusive unit rates(GST Inclusive)	
			AL	CU
Labour Charges for Conservator Tank Repair		100KVA 3PH		
		250KVA 3ph		
		500KVA 3ph		
		750KVA 3ph		
		1000KVA 3ph		
Labour Charges for Amorphous/shell Type Transformer Repairing		100KVA 3PH		
		250KVA 3ph		
		500KVA 3ph		
		750KVA 3ph		
		1000KVA 3ph		

S. No .	Item Descripti on	U O M	Unit price for Bill of Material for 1 no. Transformer for each rating for evaluation purpose														
			100 KVA , 33 / 0.415 kV			250 KVA , 33 / 0.415 kV			500 KVA , 33 / 0.415 kV			750 KVA , 33 / 0.415 kV			1000 KVA , 33 / 0.415 kV		
			3 Ph CU wound			3 Ph CU wound			3 Ph CU wound			3 Ph Cu wound			3 Ph Cu wound		
			Bill of Mat erial	Un it pri ce wi th G ST	All Inclu sive Pric e per DTR	Bill of Mat erial	Un it pri ce wi th G ST	All Inclu sive Pric e per DTR	Bill of Mat erial	Un it pri ce wi th G ST	All Inclu sive Pric e per DTR	Bill of Mat erial	Un it pri ce wi th G ST	All Inclu sive Pric e per DTR	Bill of Mat erial	Un it pri ce wi th G ST	All Inclu sive Pric e per DTR
			x	y	x*y	x	y	x*y	x	y	x*y	x	y	x*y	x	y	x*y
A	New Materials																
1	HV Coil Total																
1A	New Conductor with New DPC Insulation	Kg	72		0	140.4		0	242		0	300		0	390		0
1B	Old Conductor with New DPC insulation	Kg	0		0	0		0	0		0	0		0	0		0
1C	New Super Enameled Winding	Kg	0		0	0		0	0		0	0		0	0		0
2	LV Coil Total																
2A	New Conductor with New DPC	Kg	50		0	108		0	150		0	200		0	250		0
2B	Old Conductor with New DPC insulation	Kg	0		0	0		0	0		0	0		0	0		0
3	LV internal termination (Phase & Neutral)	Kg	0		0	4		0	5		0	6		0	7		0
4	HV Bushing insulator	EA	3		0	3		0	3		0	3		0	3		0
5	LV Bushing Insulator	EA	4		0	4		0	4		0	4		0	4		0

6	Metal parts for HV Bushing (Rod, nut, bolts etc.)	EA	3		0	3		0	3		0	3		0	3		0
7	Metal parts for LV Bushing (Rod, nut, bolts etc.)	EA	4		0	4		0	4		0	4		0	4		0
8	Set of gaskets	Set	1		0	1		0	1		0	1		0	1		0
9	Silica gel breather	EA	1		0	1		0	1		0	1		0	1		0
10	Prismatic Oil level gauge	EA	1		0	1		0	1		0	1		0	1		0
11	Tapping switch with handle	EA	0		0	1		0	1		0	1		0	1		0
12	Oil drain/Filter valve	EA	2		0	2		0	2		0	2		0	2		0
13	Pair of Arching Horns	EA	3		0	3		0	3		0	3		0	3		0
14	Fresh Transformer oil as per latest IS 335	Litre	226.8		0	464.4		0	604.8		0	756		0	972		0
15	Sundry items	Set	1		0	1		0	1		0	1		0	1		0
16	Dial type Thermometer of min.10mm with max. temp. Ind.	EA	1		0	1		0	1		0	1		0	1		0
20	New Radiator	Kg	10		0	20		0	30		0	40		0	50		0
21	Conservator tank,EVP,tank top cover etc	Kg	5		0	10		0	10		0	15		0	15		0
TOTAL of New material (A)					0			0			0			0			0
B	Transportation & labor																
23	Labour charges for repair/reconditioning of transformers	EA	1		0	1		0	1		0	1		0	1		0
24	Painting charges (external &	EA	1		0	1		0	1		0	1		0	1		0

	internal)																
25	Freight & Transit Insurance (From TPCODL Store to Repairer Factory)	EA	1		0	1		0	1		0	1		0	1		0
26	Freight & Transit Insurance (From Repairer Works to TPCODL Store)	EA	1		0	1		0	1		0	1		0	1		0
TOTAL of Transportation & labor (B)					0			0			0			0			0
C	Scrap Materials																
27	HV & LV leg coil complete with paper insulation only.	Kg	86.4		0	248.4		0	504		0	580		0	689		0
28	HV & LV leg coil complete with Super enamel only.	Kg	86.4		0	248.4		0	504		0	580		0	689		0
29	Metal parts for HV & LV Bushing(Rod,nut,bolts etc) connectors etc	Kg	0		0	4		0	5		0	6		0	7		0
30	LV Internal termination Parts	Kg	4.6		0	5.15		0	5		0	11		0	11		0
31	Silica gel breather	EA	1		0	1		0	1		0	1		0	1		0
32	Core laminations	Kg	0		0	0		0	10		0	10		0	10		0
33	Radiator	Kg	10		0	20		0	30		0	40		0	50		0
34	Conservator tank,EVP,tank top cover and other iron parts	Kg	5		0	10		0	10		0	15		0	15		0
35	Transformer oil	Ltr	158.7		0	325		0	423.3		0	529.2		0	680.4		0

36	Tapping switch with handle	EA	0		0	1		0	1		0	1		0	1		0
37	Dial type thermometer	EA	0		0	0		0	1		0	1		0	1		0
TOTAL of Scrap Materials (C)					0			0			0			0			0
Total All Inclusive Unit Price, i.e., Material + Transport - Scrap (A+B-C)			0			0			0			0			0		
Quantity			10			2			2			1			1		
Total All Inclusive Value (Unit Price * Quantity)			0			0			0			0			0		
Total All Inclusive Value for complete BOQ of Annex 1A(a)			0														

Unit rates for 33KV 2025-26(New Material)						
New Materials	Same material same rate	Transformer Qty	ALL INCLUSIVE Unit Price (including GST)		Total all incl value (including GST)	
			AL	CU	AL	CU
HV leg coil complete with paper insulation only	Same for All Trf (AL, Cu)	1			0	0
LV leg coil complete with paper insulation only		1			0	0
HV leg coil complete with super enamell		1			0	0
LV leg coil complete with super enamell		1			0	0
HV leg coil complete with Old Conductor with New DPC insulation		1			0	0
LV leg coil complete with Old Conductor with New DPC insulation		1			0	0
					0	0
			All inclusive Total price		0	

[illegible]

Unit rates for Scrap SE-33kv

Scrap	Same material same rate	Qty IN KG	ALL INCLUSIVE Unit Price (including GST) per KG		Total all incl value (including GST)	
			AL	CU	AL	CU
HV & LV leg coil complete with super enameled only	Same for All Trf (AL, Cu)	2107.8				
			All inclusive Total price			

NOTE:

- The bidders are advised to quote prices strictly in the above format and for all the line items as mentioned above. 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.
- **Bidder needs to quote mandatorily for each line item of the BoQ**
- The Quantity mentioned above is tentative and for evaluation purpose. The actual quantity may vary.

ANNEXURE II
Technical specifications

Attached.

ANNEXURE III

Schedule of Deviations

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

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

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

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

Seal of the Bidder:

Signature:

Name:

ANNEXURE IV

Schedule of Commercial Specifications

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

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

Seal of the Bidder:

Signature:

Name:

ANNEXURE V

Checklist of all the documents to be submitted with the Bid

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

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

Annexure VI

ACCEPTANCE FORM FOR PARTICIPATION IN REVERSE AUCTION EVENT

(To be signed and stamped by the bidder)

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

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

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

Signature & Seal of the Bidder

ANNEXURE VII

SCOPE OF WORK

Attached

Annexure-VIIa

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

1) Tender Fees

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

2) Earnest Money Deposit (EMD)

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

3) Qualification Requirement for Open Tenders

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

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

4) Reservation for MSME

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

5) Performance Bank Guarantees

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

Annexure VIII

GENERAL CONDITIONS OF CONTRACT

General Conditions of Contract Attached as Annexure to this document.

ANNEXURE IX

Safety Terms and conditions

Not applicable

ANNEXURE X
Contractor's Safety Code of Conduct

Not applicable

ANNEXURE XI

Attached

Annexure XII

Vendor Evaluation Score Card

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

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

Pre-Order Evaluation contains following parameters

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

Post-Order Evaluation contains following parameters

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

CONTENTS

- 1. SCOPE**
- 2. APPLICABLE STANDARDS**
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- 16. TESTING FACILITIES**
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- 18. SPARES, ACCESSORIES AND TOOLS**
- 19. DRAWINGS AND DOCUMENTS**
- 20. SCHEDULE "A" GUARANTEED TECHNICAL PARTICULARS**
- 21. SCHEDULE "B" DEVIATIONS**

1. SCOPE

This specification covers scope of the work of repair BA (Repairing Business Associate) to repair/reconditioning and testing of various types of three phase/ single phase oil filled type, naturally cooled distribution transformers of 10 kVA to 25 kVA 11/0.250 kV and 16 kVA to 1000 kVA 11/0.433 kV and 100 to 1000 kVA 33/0.433 kV. Scope of work includes loading, unloading, transportation, transit insurance all both sides, repairing, testing & inspection of distribution transformers.

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 authorities.

2. APPLICABLE STANDARDS

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 with latest amendment from time to time, thereof and shall conform to the regulations of the local authorities:

Indian Standards (IS)	Title
IS 5 : 2007	Specification for Colors for ready mixed paints and enamels
IS 104: 1979	Specification for ready mixed paint, brushing, zinc chrome, priming
IS 191 : 2007	Copper
IS 335: 1993	Specification for New insulating oils
IS 649: 1997	Testing for steel sheets and strips and magnetic circuits.
IS 1180 : 2014	Outdoor Type Oil Immersed Distribution Transformers Upto and Including 2500 KVA, 33 kV-Specification
IS 1576: 1992	Solid Pressboard for Electrical Purposes -Specification
IS 1897: 2008	Copper strip for electrical purpose
IS 2099:1986	Specification for bushings for alternating voltages above 1000 volts
IS 2362:1993	Determination of water content in oil by Karl in oil Fischer Method — Test Method.
IS 3024 : 2006	Grain oriented electrical steel sheets and strips
IS 3347(Part I): 1979	Dimensions for Porcelain Transformer Bushings for Use in Normal and Lightly Polluted Atmospheres - Part 1 : Up to and including 1 kV
IS 3401: 1992	Specification of silica Gel
IS 4253:Part II :1980	Specification for cork composition sheets- Part II : Cork and Rubber
IS 4257:Part I: 1981	Dimensions for Clamping Arrangements for Porcelain transformer Bushings - Part I: For 12 kV to 36 kV Bushings
IS 5082:1998	Wrought Aluminum and Aluminum Alloy bars, Rods , Tubes, Sections, Plates and Sheets for Electrical Applications
IS 5561 : 1970	Specification for Electric Power Connectors

IS 6103 : 1971	Specification for Testing of specific resistance of electrical insulating liquids
IS 6262: 1971	Method of test for power factor and dielectric constant of electrical insulating liquids
IS 6600:1972	Guide for loading of Oil-immersed transformer
IS 6792:1992	Method for Determination of Electric Strength of Insulating Oil
IS 7404 (Part-1): 1991	Paper Covered conductors: Round Conductors
IS 7421: 1988	Specification for porcelain bushings for alternating voltages up to and including 1000 kV
IS 8603 (PART-1) 2008 REAFFIRMED 2006)	Dimensions for Porcelain Transformer Bushings for Use in Heavily Polluted Atmospheres - Part I: 12 kV, 17.5 kV, 24 kV and 36 kV Bushing
IS 9335 (REAFFIRMED 2001)	Specification for Cellulosic Papers for Electrical Purposes
IS 10028: 1981 (REAFFIRMED 2001)	Code of Practice for Selection, Installation and Maintenance of Transformers
IS 11149 : 1984	Specification for rubber gasket
IS 12444 : 1988	Specification for continuously cast and rolled electrolytic copper wire rods for electrical conductors
IS 1394 : 1994	Methods of measurement of transformer and reactor sound levels

3. CLIMATIC CONDITIONS OF THE INSTALLATION:

1	Maximum ambient temperature	50 deg C
2	Max. Daily average ambient temp	35 deg C
3	Min Ambient Temperature	8 deg C
4	Maximum Humidity	95%
5	Average Annual Rainfall	150 cm
6	Average No. of rainy days per annum	120
7	Altitude above MSL	90 m
8	Wind Velocity	250 km/hr
9	Earthquakes of an intensity in horizontal direction	equivalent to seismic acceleration of 0.3 g
10	Earthquakes of an intensity in vertical direction	equivalent to seismic acceleration of 0.15 g (g being acceleration due to gravity)

TPCODL service area has heavy saline conditions along the coast and high cyclonic Intensity winds with speed up to 250 km ph. The atmosphere is generally laden with mild acid and dust in suspension during the dry months and is subjected to fog in cold months.

4. GENERAL TECHNICAL REQUIREMENTS:

4.1 TECHNICAL PARAMETER

TABLE -1

11 kV Distribution Transformers												
1	Continuous Rated Capacity (kVA)	10 kVA	16 kVA	25 kVA	16 kVA	25 kVA	63 kVA	100 kVA	200 kVA	250 kVA	500 kVA	1 MVA
2	Application	Outdoor	Outdoor	Outdoor	Outdoor	Outdoor	Outdoor	Outdoor	Outdoor	Outdoor	Outdoor	Outdoor
3	System voltage (max.)	12 kV	12 kV	12 kV	12 kV	12 kV	12 kV	12 kV	12 kV	12 kV	12 kV	12 kV
4	Rated voltage HV	11 kV	11 kV	11 kV	11 kV	11 kV	11 kV	11 kV	11 kV	11 kV	11 kV	11 kV
5	Rated voltage LV (V)	250	250	250	433-250	433-250	433-250	433-250	433-250	433-250	433-250	433-250
6	Line current HV (A)	0.9 A	1.45 A	2.27 A	0.83 A	1.312 A	3.306 A	5.25 A	13.12 A	13.12 A	26.25 A	52.48 A
7	Line current LV (A)	40 A	64 A	100 A	21.33 A	33.33 A	84.10 A	133.34 A	333.34 A	333.34 A	666.68 A	1333.4 A
8	Frequency (Hz)	50 Hz	50 Hz	50 Hz	50 Hz	50 Hz	50 Hz	50 Hz	50 Hz	50 Hz	50 Hz	50 Hz
9	No. of Phases	Single	Single	Single	Three	Three	Three	Three	Three	Three	Three	Three
10	Connection HV	2 phase	2 phase	2 phase	Delta	Delta	Delta	Delta	Delta	Delta	Delta	Delta
11	Connection LV	Single phase (P - N)			Star (Neutral Brought out)							
12	Vector group	-	-	-	Dyn11	Dyn11	Dyn11	Dyn11	Dyn11	Dyn11	Dyn11	Dyn11
13	Type of cooling	ONAN	ONAN	ONAN	ONAN	ONAN	ONAN	ONAN	ONAN	ONAN	ONAN	ONAN
14	Tap changing arrangement (off load)	NA	NA	NA	NA	NA	NA	NA	+5.0% to -10% in steps of 2.5%			
15	No. of tap positions	NA	NA	NA	NA	NA	NA	NA	7	7	7	7
16	Noise level at rated voltage and frequency	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
17	Permissible temperature rise over ambient:											
17.1	Of top oil	35 °C	35 °C	35 °C	35 °C	35 °C	35 °C	35 °C	40 °C	40 °C	40 °C	40 °C
17.2	Of winding	40 °C	40 °C	40 °C	40 °C	40 °C	40 °C	40 °C	45 °C	45 °C	45 °C	45 °C
18	Max. Total Losses at 50% loading at 75°C (watts)	Refer Clause 4.2										
19	Max. Total Losses at 100% loading) at 75°C (Watts).	Refer Clause 4.2										
20	Short circuit impedance voltage at 75°C (±10% tolerance)	4%	4%	4%	4.50%	4.50%	4.50%	4.50%	4.50%	As per Nameplate or 5.0%	As per Nameplate or 5.0%	As per Nameplate or 5.0%

[illegible]

TABLE -2

S. No.	Description	33 kV Distribution Transformers Requirements						
No.								
1	Continuous Rated Capacity (kVA)	100 kVA	250 kVA	315 kVA	400 kVA	500 kVA	750 kVA	1 MVA
2	Application	Outdoor	Outdoor	Outdoor	Outdoor	Outdoor	Outdoor	Outdoor
750	System voltage (max.)	36 kV	36 kV	36 kV	36 kV	36 kV	36 kV	36 kV
4	Rated voltage HV	33kV	33kV	33kV	33kV	33kV	33 kV	33kV
5	Rated voltage LV (V)	433	433	433	433	433	433	433
6	Line current HV (A)	1.75	4.4	5.5	7.0	8.7	13.12	17.5
7	Line current LV (A)	133.34	333.33	420.02	533.36	666.68	1000.03	1333.4
8	Frequency (Hz)	50 Hz	50 Hz	50 Hz	50 Hz	50 Hz	50 Hz	50Hz
9	No. of Phases	Three	Three	Three	Three	Three	Three	Three
10	Connection HV	Delta	Delta	Delta	Delta	Delta	Delta	Delta
11	Connection LV	Star	Star	Star	Star	Star	Star	Star
		Neutral Brought Out						
12	Vector group	Dyn-11	Dyn-11	Dyn-11	Dyn-11	Dyn-11	Dyn-11	Dyn-11
13	Type of cooling	ONAN	ONAN	ONAN	ONAN	ONAN	ONAN	ONAN
14	Tap changing arrangement (off load)	NA	+5.0% to –10% in steps of 2.5%		+5.0% to –10% in steps of 2.5%			
15.	No. of tap positions	NA	7	7	7			7
16	Noise level at rated voltage and frequency	NA	NA	NA	NA	NA	NA	NA
17	Permissible temperature rise over ambient:							
17.1	of top oil	35 °C	40 °C	40 °C	40 °C	40 °C	40 °C	40 °C
17.2	of winding	40 °C	45 °C	45 °C	45 °C	45 °C	45 °C	45 °C
18	Max. Total Losses at 50% loading at 75°C (watts)	Refer Cl. No. 4.2						
19	Max. Total Losses at 100% loading) at 75°C (Watts).	Refer Cl. No. 4.2						
20	Short circuit impedance voltage at 75°C (±10% tolerance)	4.5%	As per Nameplate or 5.0%	As per Nameplate or 5.0%	As per Nameplate or 5.0%	As per Nameplate or 5.0%	As per Nameplate or 5.0%	As per Nameplate or 5.0%
21	Insulation Class	A	A	A	A	A	A	A
21.A	HV Bushing	36 kV						
21.B	LV Bushing	1.1 kV						
21.C	Neutral Bushing at LV side	1.1 kV						

21.D	Winding	Copper						
22	Normal Flux Density (at rated voltage and frequency)	1.6 T	1.6 T	1.6 T	1.6 T	1.6 T	1.6 T	1.6T
23	Maximum current density (A/mm²)	2.5	2.5	2.5	2.5	2.5	2.5	2.5
24	Impulse withstand voltage kVp	170	170	170	170	170	170	170
25	Power frequency withstand voltage kV	70	70	70	70	70	70	70
26	Max. flux density (Increase of +12.5 % combined voltage & frequency variation from rated voltage & frequency)	1.9 T (Max.)						
27	Voltage fluctuations permissible	+12.5% to	+12.5% to	+12.5% to	+12.5% to	+12.5% to	+12.5% to	+12.5% to
		-12.5%	-12.5%	-12.5%	-12.5%	-12.5%	-12.5%	-12.5%
28	Metering CT for LV side	NA						
29	Neutral terminal	Two separate neutral brought out from main neutral bus bar, one for taking out the neutral for 4 wire system and other additional neutral for solid earthing.						
30	Minimum clearances in air (mm) :							
30.1	HV phase to phase/ phase to earth	350/320	350/320	350/320	350/320	350/320	350/320	350/320
30.2	LV phase to phase/ phase to earth	75 / 40	75 / 40	75 / 40	75 / 40	75 / 40	75 / 40	75 / 40
31	Minimum clearances in Cable Box (mm) :							
31.1	HV phase to phase/ phase to earth	350/220	350/220	350/220	350/220	350/220	350/220	350/220
31.2	LV phase to phase / phase to earth	45 / 20	45 / 20	45 / 20	45 / 20	45 / 20	45 / 20	45 / 20
32	Wheels	NA. These are pole mounted. DTs. To be mounted on ISMC	The transformer shall be provided with four uni-directional rollers with locking arrangement suitable for rail gauges in both the axis for movement of transformer in either direction. Distance between wheels shall be center to center 820mm					

4.2 Transformer Losses

Parameters	11/0.433 kV DTR										
	Single phase			Three phase							
	10 kVA	16 kVA	25 kVA	16 kVA	25 kVA	63 kVA	100 kVA	200 kVA	250 kVA	500 kVA	1 MVA
DT MANUFACTURE in 2015 to 2020 - follow IS 1180, 2014 level 1 loss											
Total Losses at 100% load	190	292	340	480	765	1375	1980	2970	3465	5225	9000
DT MANUFACTURE before 2015 - follow the table below											
Total Losses at 100% load	281	396	425	666	942	1557	2222	4257	4752	8360	14080

Parameters	33/0.433 KV DTR (3 phase)						
	100 KVA	250 kVA	315 kVA	400 kVA	500 kVA	750 kVA	1 MVA
DT MANUFACTURE in 2015 to 2020 - follow IS 1180, 2014 level 1 loss							
Total Losses at 100% load	2129	3725	3521	4166	5717	7187	10643
DT MANUFACTURE before 2015 - follow the table below							
Total Losses at 100% load	2628	5619	4401	5207	9886	8985	16650

4.3 Earthing Connections:-

The provision for earthing connection shall be provided for 50x6 mm GI strip. The bolts shall be located on the lower sider of the transformer and be of M12 size for Body earthing. LV neutral bushing provided shall be used for neutral earthing. Transformer top cover shall be connected at two diagonal places with the tank by tinned copper strip.

4.4 Scope of winding repairs / replacement of shall be as detailed as given below:

Type of Existing Winding	DTR Rating (KVA)									
	10	16	25	63	100	200	250	500	750	1000
	Scope of work for High Voltage Winding									
Super enamelled Winding	To be replaced with new super enamelled winding for any winding damage									
DPC insulated Winding	Replace all windings					1. Replace 1 winding if 1 winding is damaged. 2. Replace all the 3 windings if more than 1 windings are damaged. 3. Carry out re-insulation of all windings if there is no damage in windings.				
	Scope of work for Low Voltage Winding									
Super enamelled Winding	To be replaced with new super enamelled winding for any winding damage									
DPC insulated Winding	1. Replace 1 winding if 1 winding is damaged. 2. Replace all the 3 windings if more than 1 windings are damaged. 3. Carry out re-insulation of all windings if there is no damage in windings.					1. Replace 1 winding if 1 winding is damaged. 2. Replace 2 windings if 2 windings are damaged. 3. Replace 3 windings if 3 windings are damaged. 4. Carry out Re-insulation of all windings if there is no damage in windings.				

Note:- If BA has to repair single winding(Part Winding Replacement), then the DT will be accepted with high losses and BA has to give warrantee only for that repaired single winding.

4.5 Raw material shall be used as per technical specification & “Approved Make list” as per Table given below. In case, if the same material/ equipment is not available, the BA will seek TPCODL approval before using the different make material/equipment. However, the BA has to provide all test certificates from original manufacturers & relevant sourcing documents.

APPROVED MAKE OF MAJOR COMPONENTS & RAW MATERIALS

SN	Raw Material/Equipment	Make
a)	Aluminium	M/S Sterlite, M/S Hindustan Aluminium, M/S Hindalco
b)	Core	M/S AK Steels, POSCO, Kawasaki/ JFE, Nippon Steel
c)	Insulation paper	Raman Boards- Mysore, ITC paper, ABB Senapathy Whiteley Bangalore
d)	Transformer Oil	Savita, Apar, Gandhar or equivalent
e)	Gaskets & Corks	Nu Cork, Anchor Corks or equivalent
f)	Copper	M/S Sterlite, M/S Hindustan Copper, M/S Hindalco.
g)	Bushings HV & LV	GE, Rashtriya Electricals, Hindustan Chemicals, LAMCO
h)	OTI	AEI, Heatex, SCPTL
i)	Dehydrating Breather	Yogya, Anushree Electrical engineers

4.6 TPCODL reserves the right of testing of any material used in the process of repairing of distribution transformer from a reputed independent test lab such as ERDA, CPRI or any other Govt. lab. In case if a deviation is found in the results, BA will arrange necessary corrective actions under intimation to TPCODL.

4.7 BA shall provide anti-theft arrangement for various valves fitted on the DT.

4.8 Fitting

The following standard fittings shall be provided in case of damage:

- 1 Non-detachable Rating & terminal marking plates.
- 2 Separate plate for guarantee period & date of dispatch.
- 3 Earthing terminals
- 4 Lifting lugs for main tank & top cover.
- 5 Thermometer pocket with cap
- 6 Air release device / Explosion Vent
- 7 Set of HV bushings & set of LV bushings
- 8 Pulling lugs
- 9 Stiffener angle (As per the actual condition of transformer)

- 10 Radiators.(As per Joint Verification report)
- 11 Arcing horns
- 12 Oil filling hole having p. 1-1/4 "thread with plug and drain plug on conservator.
- 13 Top filter valve
- 14 Silica gel Breather
- 15 Prismatic Oil level gauge indicating the positions of oil on tank marked as follows:
 - a. Min : (-5 °C)
 - b. Normal : (30 °C)
 - c. Max : (98 °C)
- 16 Drain cum sampling valve and filter with locking arrangement
- 17 Base channel
- 18 Inspection Cover
- 19 Conservator (as per Joint verification report)
- 20 Stainless steel nut bolt to be used. Old nuts & bolts shall be scrapped.

5. GENERAL CONDITIONS:

5.1 Repair BAs to follow the following steps for repairing of faulty transformers at their works:

5.1.1 The BA shall lift the failed (damaged /faulty/burnt/selected) transformer from the TPCODL stores after completing all the formalities as per the RC/RO terms & conditions / Order & after getting the written instruction from the TPCODL, for lifting of the transformer. Necessary photographs to be taken before lifting. Complete list of distribution transformer accessories & other major equipment's/parts to be made before lifting and is to be jointly signed by TPCODL & BA's authorized representative. During lifting of Transformers from stores, the condition of the damaged transformer with respect to availability of parts, fittings accessories, oil etc. shall be ascertained by the BA jointly with TPCODL stores representative and recorded in a suitable format. Oil level will be marked on tank with red colour wherever visible, all accessories shall have to be taken to BA's works for the purpose of checking, repairs, overhauling & facilitating transformer final testing.

The scope of work includes lifting, loading, unloading, transportation, insurance, packing the transformer from TPCODL premises to BA's factory and vice versa. Trailer used for transportation should be fit to transport given mass. If crane is used for lifting the transformer, its capacity should be twice the total mass of transformer and crane should have fitness certificate to perform the task.

5.1.2 Joint Inspection/Verification of the transformer shall take place at BA's works after dismantling of DT's top cover, core & coils etc. in presence of TPCODL representative. During joint inspection the scope of repair activities for each DT will be ascertained jointly by BA and TPCODL representatives. A Joint Verification Report (JVR) duly signed by TPCODL and BA representative stipulating the scope of work will be prepared including

photographs of the Transformer. All the transformers of a particular batch should be offered for joint inspection at the same time.

Following activities to be carried out during the Joint Verification:

- a) TPCODL inspector shall check the physical status of all the transformers offered for joint inspection and match the same with gate pass/photos/challan prepared by TPCODL stores personnel sent along with the faulty Distribution Transformers.
- b) TPCODL inspector shall check the status of Top cover, Radiators, Conservators, Tank, HV/LV bushings, HV/LV connectors, flexible jumpers, Gaskets, silica gel breather, oil level gauge, oil drain valve & filter valve, Tapping switch, Arching horn etc. and shall prepare a list of damaged/missing items.
- c) As per the damaged/missing items list prepared, TPCODL inspector shall recommend the replacement of damaged/missing items.
- d) Oil quantity in the distribution transformers to be verified-as per the rating plate. In case rating plate is not available, oil quantity shall be decided as per tank capacity of the transformer/ fill level (including conservator) of the transformer in presence of TPCODL Inspector.
- e) Check of insulation of all the three phases of HV/LV coils.
- f) Changes in measurement of Winding Scrap:
Deducting the weight of oil in old windings while calculating the weight of scrap during joint inspection are mentioned below:

SI No	Description	% Deduction
1	% deduction of oil weight of Paper Insulated Winding during JVR	8%
2	% deduction of oil weight of Super-enamelled Winding during JVR	4%

5.1.3 After Joint verification, the BA shall prepare and submit the design/ redesigns (if any) for repairs, BoM with estimated rates for repair of transformer, Guaranteed Technical Particulars (GTP) and detailed calculations of distribution transformer to DT Management Team of TPCODL for its approval as per JVR/ Inspection team recommendations. In case, if the distribution transformer is declared as non-repairable for any reason after JVR at BA's works, the BA shall return such DT to TPCODL.

5.1.4 After getting the approval of estimates & clear instructions from TPCODL for going ahead with repairing activity, the BA shall start DT repairs as per the scope defined in the approval & JVR. The repairing/ reconditioning work of distribution transformer shall be carried out as per the scope mutually agreed in JVR and its final confirmation from the DT Management

5.1.5 Following activities to be carried out by the BA before stage inspection:

- a. Cleaning of core, tank and other accessories, De-tanking of the Core and Winding and Baking of the insulation
- b. Cleaning of all parts and washing of the core and coil with fresh transformer hot oil
- c. Re-tightening of the core bolts and other M.S. frame parts
- d. Processing of the core in the vacuum oven to remove the moisture
- e. Painting of the Radiators, Plugging Leads in radiator
- f. Painting of Main MS tank, Conservator and other M.S. Parts from inside with heat resistive paint and outside with epoxy primer paint.
- g. Fixing of LV bushing stud on Main Tank.

5.1.6 **Stage inspection:-**

- a. Stage inspection of the transformer shall be offered by the BA in advance as per timelines mentioned in Table-A (5.17). Stage inspection shall be carried out for mutually agreed points in the presence of TPCODL representative, after repairs of winding for confirmation of its weight and other agreed points as per JVR. Tank Cleanliness, Insulation, accessories and fittings, quality and procurement documents for bought out items also to be offered in the inspection.

The winding shall be designed for better voltage regulation and mechanical strength. The coil shall be circular in shape and its construction shall be such that there is no possibility of any distortion under service conditions. Inter layer insulation both for HV and LV windings shall be Epoxy dotted Kraft/Kraft paper and pressboard of standard make or any other superior material subject to approval of TPCODL shall be used. All spacers axial wedges/runners used in windings shall be made of pre-compressed solid press board. In case of cross- over coil winding of HV, all spacers shall be properly sheared and dovetail punched to ensure proper locking.

All axial wedges/runners shall be properly milled to dovetail shape so that they pass through the designed spacers freely. Insulation shearing, milling and punching operations shall be carried out in such a way, that there should not be any burr and dimensional variations. Proper bonding of inter layer insulation with the conductor shall be ensured. All turns of windings shall be adequately supported to prevent movement. The core/coil assembly shall be securely held in position to avoid any movement under short circuit conditions. The joints in the winding shall be avoided but if it is necessary then, these shall be properly brazed and the resistance of the joints shall be less than that of parent conductor.

- b. Current density of HV/LV winding to be measured at the time of stage-inspection and acceptance criterion shall be as follows:

- i. In case Current density is more than the specified limit, the DT shall be rejected by the TPCODL inspector and in such case the repair BA shall re-offer the said DT. In case of re-insulation cases, the current density of repaired winding shall be same as that original winding recorded in JVR. For new winding, BA shall maintain max. current density as per specifications.
- ii. In certain cases, where the current density of copper conductor cannot be maintained to $\leq 2.5 \text{ A /sq.mm}$ due to original design constraints observed during JVR, then Higher current density shall be allowable for that DT, subject to approval of DT management team of TPCODL.
- iii. Further, in certain cases where current density of aluminium conductor cannot be maintained to $\leq 1.6 \text{ A /sq.mm}$ due to original design constraints observed during JVR, then Higher current density shall be allowable for that DT, subject to approval of DT management team of TPCODL.
- c. In respect of raw material such as core stampings, winding conductors, insulating paper and transformer oil, BA shall use materials manufactured/ supplied by standard manufacturers and furnish the manufacturers' test certificate as well as the proof of purchase from these manufacturers (gate pass) for information of the TPCODL. The Repairer BA shall furnish following documents during stage inspection in respect of the raw materials:
 - i. Invoice of supplier
 - ii. Mill's certificate
 - iii. Packing List
 - iv. Bill of lading

5.1.7 After stage inspection and after getting the go ahead for the final repair of the transformer, following activities to be carried out:

- i. Assembly of the windings, insulation completion, top yoke assembly & frame parts etc.
- ii. Drying out of the core coil assembly in the oven & tightening to affect shrinkage etc.
- iii. Final painting inside and outside of tank to be completed as per IS 2026 and TPCODL specifications for new distribution transformer.

5.1.8 Coordination:

The BA shall co-ordinate for various activities such as collection of transformer, joint inspection for finalizing quantities of material to be used for repair, stage inspection, final inspection & testing, delivery to TPCODL site, acceptance of performance bank guarantee and monitoring the performance/failures etc. with Engineering & Contracts.

5.1.9 Stipulated Time Frame for Activities of Repair Process

Bidder should be capable to complete repairing a lot of minimum ten distribution transformers of various ratings at a time. Stipulated time frame as per calendar days is as below in Table-A.

Table-A

Step	Activity	Time Frame (Reconditioning)	Time Frame (Repair)
1	Lifting of Transformers	Within 2 days of issue of lifting order by TPCODL.	Within 2 days of issue of lifting order by TPCODL
2	Call for joint inspection with TPCODL	No inspection required for reconditioning	Within 2 days from the date of lifting the transformers
3	Joint Inspection shall be carried out by TPCODL representative	No inspection required for reconditioning	Within 2 days from the date of joint inspection call from BA
4	Submission of Design, Drawings to TPCODL	Within 3 days from lifting of transformer	Within 6 days from date of Joint Inspection at BA's work
5	Submission of Estimates for Approval (based on Joint Inspection)	Within 3 days from lifting of transformer	Within 3 days of carrying out Joint Inspection with TPCODL
6	Approval of Estimates	Within 2 Days from the date of submission of Estimates	Within 2 Days from the date of submission of Estimates.
7	Call for stage inspection	Within 8 Days from the date of joint inspection on the basis of provisional estimates approval	Within 15 Days from the date of joint inspection on the basis of provisional estimates approval
8	Stage inspection carried out by TPCODL representative	Within 2 days from the date of stage inspection call from BA	Within 2 days from the date of proposed stage inspection call from BA
9	Submission of Final Estimates based on Stage inspection	Same day from the date of stage inspection carried out by TPCODL.	Same day from the date of stage inspection carried out by TPCODL.
10	Amendment to Release order (if required) issued by TPCODL based on Stage inspection	Same day from the date of submission of final estimates based on Stage inspection report	Same day from the date of submission of final estimates based on Stage inspection report
11	Call for final Inspection & Testing	Within 5 days of issue of awarded Release Order by TPCODL.	Within 6 days of issue of awarded Release Order by TPCODL.
12	Final inspection carried out by TPCODL	Within 2 days for from the date of Final inspection call from BA	Within 2 days for from the date of proposed Final inspection call from BA
13	Compliance of punch points of inspection and request for MDCC	Within 2 days from the date of Final Inspection	Within 2 days from the date of Final Inspection
14	Issuance of MDCC from TPCODL.	Within 2 days from the date of request submitted by BA	Within 2 days from the date of request submitted by BA
15	Delivery of Repaired Transformers	Within 2 days of issue of MDCC j	Within 2 days of issue of MDCC

However, the total time frame for delivery of repaired distribution transformer from date of lifting shall be 45 days & for reconditioning 30 Days.

5.1.10 Disposal of scrap:

The scrap material shall be disposed-off only at authorized MOEF suppliers. The BA has to retain all scrap till the finalization of repair/ non repair of transformer & same shall be returned if transformer declared as non-repairable.

Scrap material will be considered as per JVR.

5.2 Economic Limit:

Cost of replacement of Winding & other minor repair can be up to 40% of total cost of a new DT of the same rating. In case core found damaged it is advised to declare it non repairable and DT will be returned to TPCODL stores.

Thus, the Economic limit has been kept equal to or less than 40% cost of new DT of similar size. It should be ensured that economical limit shall not exceed total value more than final repair cost which is equal to value of (material + services- scrap).

Sr no.	Description	Economic Limits for Repair including Transportation , GST etc.
11/.4 KV		
1	10 KVA 11/.25kV 1 Ph Transformer , Al	19,536
2	10 KVA , 11/.25kV 1 Ph Cu	22,000
3	16 KVA 11/.25kV Transformer , Al	26,989
4	16 KVA , 11/.25kV 1 Ph, Cu	29,189
5	25 KVA 11/.25 kV 1 Ph Transformer , Al	26,989
6	25 KVA 11/.25 kV 1 Ph Transformer , Cu	29,189
7	16 KVA 11/.4 kV Transformer Al	28,406
8	16 KVA 11/.4 kV Transformer , CU	40,700
9	25 KVA 11/.4kV 3 Ph Transformer , Al	28,406
10	25 KVA 11/.4kV 3 Ph Transformer , Cu	40,700
11	63 KVA 11/.4kV 3 Ph Transformer, Al	45,672
12	63 KVA 11/.4kV Transformer, AMDT/CRGO, Cu	63,412
13	100 KVA 11/.4kV 3 Ph Transformer, Al	61,776
14	100 KVA 11/.4kV Transformer, AMDT/CRGO, Cu	80,155
15	200 KVA 11/.4kV 3 Ph Transformer, Al	1,17,600
16	200 KVA 11/.4kV 3 Ph Transformer, Cu	1,50,000
17	250 KVA 11/.4kV 3 Ph Transformer, Al	1,27,782
18	250 KVA 11/.4kV 3 Ph Transformer, Cu	1,65,000
19	500 KVA 11/.4kV 3 Ph Transformer, Cu	2,76,080
20	1000 / 990 KVA, 11/.4 kV 3 Ph, Cu	5,25,000

33/.4 KV		
21	100 KVA 33/.4kV Transformer , Cu	1,42,419
22	250 KVA 33/.4kV Transformer , Cu	1,99,920
23	500 KVA 33/.4kV Transformer, Cu	3,61,760
24	750 KVA 33/.4kV Transformer, Cu	4,47,440
25	1000 KVA 33/.4kV Transformer, CU	6,18,800

6. MARKING:

A. BA has to provide the SS material name plate on each and every repaired/reconditioned transformer containing the following details engraved on the name plate:

- a. Guarantee period
- b. Name of repairing BA
- c. Date of Dispatch
- d. Old Sr. No./make/YOM
- e. Job No. and Current RC No. against which DTs are being repaired
- f. Original kVA & voltage rating of the transformer
- g. Actual NLL, Load losses and Total Loss after repair design
- h. Total Weight with oil after repair & Total oil Volume after repair
- i. Phase marking (R,Y,B)

B. In addition, BA shall mention the following details on conservator or on Top of the DTRS by weatherproof painting in Black Letters written on Yellow paint background, (visible from a distance) to identify repaired DTRs at the stores.

kVA Rating-

Voltage ratio-.....

DTR Sr. No.....

Equipment ID(It will be written by TPCODL).

*Front: Arial; Size 70; Polyurethane paint shall be used.

BA to provide a nut bolts recommended torque chart plate based on the bolts used and location of the bolt.

7. TESTS:

All routine & acceptance tests shall be carried out in accordance with the IS :1180 and IS: 2026. All acceptance tests shall be witnessed by the TPCODL/his authorized representative. Following tests shall be necessarily conducted on the Distribution Transformers in addition to other specified in IS/IEC standards.

ROUTINE/ACCEPTANCE TESTS:

- a) Measurement of Winding Resistance on each tap.
- b) Measurement of voltage ratio, check of voltage displacement, polarity, phase sequence and vector group
- c) Measurement of short circuit impedance (principal tapping, when applicable) and load loss at 50% and 100% load

- d) Measurement of no load losses and magnetizing current at rated frequency and 90%, 100% and 112.5% of rated voltage
- e) Measurement of insulation resistance
- f) Induced over voltage withstand test
- g) Separate Source voltage withstand test
- h) Oil leakage test
- i) BDV and moisture content of oil in transformer (Type-2 oil)
- j) Unbalance current or Neutral current measurement: The value of the zero sequence current in the neutral of the star winding shall not be more than 2% of the full load current.
- k) Oil leakage test for acceptance shall be conducted at pressure of 0.35kg/sq.cm for one hour. (IS 1180 (Part 1) clause 21.5.1.3)
- l) The painted surface shall pass the Cross Adhesion Test (IS1180 part 1 clause no. 21.4.d).
- m) Calibration of OTI (as applicable)
- n) Magnetic Balance Test.
- o) OEM test reports for breather for air pressure test.

- p) Checking of weight, dimensions, fitting and accessories, tank sheet thickness, oil quantity, material finish and workmanship, physical verification of core coil assembly and measurement of flux density on one unit of each rating of the offered lot with reference to the GTP and contract drawings.
- q) Oil BDV of all offered lot.
- r) Device trials & test for 1MVA & above (Buchholz trip, Buchholz alarm, PRV trip, and OTI alarm).

- s) Magnetic Balance Test on HV & LV side, with magnetizing current HV and LV side as per CBIP manual publication no. 317.

8. TYPE TEST CERTIFICATES:

Not Applicable

9. FINAL / PRE DISPATCH INSPECTION:

- 9.1 Final inspection of the repaired DTs shall be offered by the BA in advance as per timelines specified in this document.
- 9.2 All tests and inspection of repaired DTs shall be carried out at the place of repair/manufacture unless otherwise specifically agreed upon by the BA and TPCODL at the time of purchase/tender.
- 9.3 Final inspection repaired DTs shall be carried out by authorized representatives of the TPCODL. Inspection may be made at any stage of repairing at the option of the TPCODL and the repaired DT, if found unsatisfactory as to workmanship or material, the same is liable to rejection.

- 9.4 BA shall grant free access to the places of repair/ manufacture of DT to TPCODL's representatives at all times when the work is in progress. The repairer BA shall offer all reasonable facilities to the inspectors/representatives representing the TPCODL, without any charges.
- 9.5 Inspection by TPCODL or its authorized representatives shall not relieve the BA of his/her obligation of furnishing repaired DT/equipment in accordance with the specifications.
- 9.6 On completion of Final Inspection by TPCODL's representatives and based on Minutes of Meeting between TPCODL's representatives and BA representatives, the BA shall submit following to the TPCODL DS-DT Management Team :
- i. Successful Test reports of repaired DT
 - ii. Final Inspection Report.
 - iii. Compliance to the final inspection observations, if any.

Based on above documents, DS-DT Management group will allow to BA for delivery of DTs, which will also indicate the delivery location of stores where the repaired transformer shall be delivered.

- 9.7 Following documents shall be sent along with repaired DTs /material:
- i. Test reports
 - ii. Invoice in duplicate
 - iii. Packing list
 - iv. Drawings & catalogue
 - v. Guarantee / Warrantee card
 - vi. Delivery Challan
 - vii. Other Documents (as applicable)
- 9.8 To ascertain the quality of the transformer oil, the original oil manufacturer's tests report shall be submitted at the time of inspection. Arrangements shall also be made for sample testing of repaired transformer oil in the presence of TPCODL's representative.
- 9.9 In case of any defect/ defective workmanship observed at any stage by the TPCODL's Inspecting representative, the same shall be pointed out to the BA in writing for taking remedial measures. Further processing shall be initiated only after clearance from the TPCODL representatives/Inspector.

10. GENERAL CONSTRUCTION:

a) Bushings & Metal parts:

For HV, 17.5kV bushings shall be of porcelain material as per IS 3347 Part I & Bushing rods, nuts and other fittings shall be made of tinned brass material. For LV, 1.1KV bushings shall be of porcelain material as per IS 3347(Part1) & Bushing rods nuts and other fittings shall be made of tinned brass material. Bushings shall be tested as per IS 7421& IS 2099 along with their latest amendments. Bushings and studs shall be of reputed

make supplied by those manufactures who are having manufacturing and test facilities of insulators.

HV Bushing of 10KVA to 25KVA rating should be 12KV (Lightly Polluted) rated Bushing and HV Bushing of 63KVA to 1MVA rating should be replaced by 17.5 KV (Highly Polluted) Bushing.

Dimension Particular	LV Studs				HV Stud
	10 - 160 KVA	200 - 400 KVA	500 - 750 KVA	1000 KVA	10 - 1000KVA
Diameter	12 MM	20 MM	30 MM	42 MM	12 MM
Rod Length(min)	205 MM	260 MM	290 MM	310 MM	134 MM

b) Dehydrating Breather:

The volume of breather shall be suitable for 500gm of silica gel (Regenerative) up to 100 kVA and 1 Kg for 200 kVA and above ratings conforming to IS 3401. The silica gel shall be blue colored and shall be as per IS: 3401 – 1992. The body of the breather shall be unbreakable, transparent, UV stabilized seamless polycarbonate tube of minimum thickness 3mm. The top cover shall be of pressure die cast aluminum and powder coated. All tie rods and all hardware should be of stainless steel material. Oil cup shall be made of Acrylic/Polycarbonate followed by UV protected test certificate. The air inlet in the oil cup shall be properly sealed with tape consisting removal instruction on it. Permanent oil level indicator shall be marked on the Oil cup. While fixing of breather on transformer Teflon tape should be used to make it air tight & water tight. This shall be checked during inspection and after receipt at our stores on each transformer. Test certificates for silica gel used shall be provided by repair BA at the time of inspection.

c) Gaskets:

Gaskets provided with the transformers shall be suitable for making oil tight joints, and there shall be no deleterious effects on either gaskets or oil when the gaskets are continuously in contact with hot oil. The gasket provided in between top cover plate and tank shall be rubberized oil resistant cork sheets conforming to type C as per IS:4253, Part III to maintain the seal at extremes of operating temperature. Exterior gaskets shall be weatherproof and shall not be affected by strong sunlight (Gaskets sample verification to be done from TPCODL inspection team).

d) Terminal Marking:

All Transformers shall have the primary and secondary terminal marking with color coding on the transformers adjacent to the relevant terminal. HV phase windings shall be marked with capital letters 1U, 1V, 1W and LV winding for the same phase to be marked by corresponding small letter 2u, 2v, 2w. Neutral point shall be indicated by -2n.

e) **Painting:**

All paints, when applied in a normal full coat, shall be free from runs, sags, wrinkles, patchiness, brush marks or other defects. All metal primers shall be well marked into the surface, particularly in areas where painting is evident and the first priming coat shall be applied as soon as possible after cleaning. Heat resistant (Hot oil proof) paint shall be used for the inside surface and whereas for external surface one coat of thermosetting powder paint or one coat of epoxy primer (zinc chromate) followed by two coats of synthetic enamel. The two coats shall be of oil and weather-resistant nature with final coat as glossy and non-fading paint of shade 631 as per IS 5 or RAL 7032.

The requirements for thickness of paint and the materials to be used shall be as given below:

S No.	Paint type	Area to be painted	No. of Coats	Minimum thickness(microns)
1.	Heat resistance paint	Inside	1	35
2.	Epoxy primer	Outside	1	30
3.	Enamel paint	Outside	2	25 each

The painted surface shall be tested for paint thickness. The painted surface shall pass the cross hatch adhesion test and impact test as acceptance tests and salt spray test and Hardness test as type test as per relevant ASTM standards. The supplier shall provide the painting performance requirement for a period of not less than 3 years.

11. INSPECTION AFTER RECEIPT AT STORES:

- a) The repaired DTs received at TPCODL's store shall be inspected for acceptance and shall be liable for rejection, if found different/non-compliance from the pre-dispatch inspection reports.
- b) TPCODL reserves the right to conduct all tests on Transformer after arrival at stores and the repairer BA shall guarantee test certificate figures under actual service conditions.
- c) Test at TPCODL store: after receipt of transformers at TPCODL stores, following minimum tests will be carried out.
 - i. Total weight of the transformer. (It should be as per original specifications of the transformer, subjected to tolerance as per approved drawings & GTPs)
 - ii. Oil level in the transformer & oil leakage
 - iii. Verifications of all the fittings
 - iv. Physical verification of all the transformers for any damages, damage and quality of painting etc.

12. GUARANTEE:

The repaired/reconditioned transformers shall be guaranteed for a period of 24 months from the date of commissioning or 36 months from the date of receipt of transformers at TPCODL stores whichever is later. For any failure of repaired/ reconditioned transformer during the guarantee period as a consequence of bad design, repair, or workmanship on the part of repair BA, shall be rectified free of cost by the repair BA. The failed transformer in Guarantee Period shall be lifted by the BA within one week of intimation of failure by TPCODL and returned after repairs/ reconditioning within 45 days of date of lifting. No transportation cost or any other expenses also shall be paid or reimbursed by TPCODL to BA for repairs of transformers failed in guarantee period.

In case BA fails to carry out for repairs/ reconditioning within stipulated time frame, TPCODL will be entitled to carry out the DT repairs/ reconditioning at BA's risks. In this case TPCODL will claim cost of repairs/ reconditioning to the BA & also additionally deduct Rs. 10000.00 per DT from Bank Guarantee as compensatory charges.

In case of rejection of transformers in final/stage inspection, the re-inspection cost shall be in BA's scope and the BA shall be responsible for all the arrangement to carry out the re-inspection.

13. PACKING:

- a) The BA shall ensure that the repaired DTs will be transported/delivered to TPCODL stores are complete in all respect with all fittings /equipment installed on DTs.
- b) BA shall ensure that all the DTs /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.
- c) The packing may be in accordance with the BA's standard practice but BA should give full particulars of packing to TPCODL. Special arrangement should be made to facilitate handling and to protect the projecting connections from damage in transit.
- d) The repaired transformer shall be shipped filled with oil.
- e) Boxes and crates shall be marked with the Name, contract number and shall have a packing list enclosed showing the parts contained therein.
- f) BA shall load & unload DTRs from and to the across TPCODL store locations

Note: Single use plastic shall not to be used for packing of the material.

14. TENDER SAMPLE:

Not Applicable.

15. QUALITY CONTROL:

Engineering and Quality group will issue "Inspection Test Plan (ITP)" to BA after receipt of JVR Report. (BA needs to submit acceptance on ITP as a part of the technical bid. TPCODL shall inspect 100% of the DTs and reserves the rights to select at random sample of DTs for Inspection). BA to arrange Inspection and testing accordingly.

BA shall comply with Inspection and testing schedule submitted to TPCODL.

The Repair BA shall provide all services to establish and maintain quality of workmanship in his works and to ensure the mechanical/ electrical performance of components, compliance with drawings, identification and acceptability of all materials, parts and equipment as per latest quality standards of ISO 9000. TPCODL reserves the right to verify original Bills /challans/invoice of spare parts, oil, silica gel etc. for traceability of OEM.

In case of any defect/ defective workmanship observed at any stage by the TPCODL Inspecting officer, the same shall be pointed out to the repair BA in writing for taking remedial measures. Further processing shall only be done after clearance from the inspecting officer/TPCODL.

TPCODL reserves right to issue DTRs in suitable lots against individual ROs. Subsequent lots of DTRs may be issued to the BA for repair after analyzing BA's work performance, adherence to repair stipulated time & quality of repaired transformers.

TPCODL reserves the rights to cancel the RO for DT repair/reconditioning and also reserves the rights to withdraw the DTRs for non-compliance of delivery timelines or quality of the repaired transformer.

16. TESTING FACILITIES:

Bidder shall have adequate in-house testing facilities for carrying out all routine tests, acceptance tests and pre-dispatch inspection as per relevant International / Indian standards and as stated in this specification document.

17. MANUFACTURING ACTIVITIES:

After getting the approval of estimates & clear instructions from TPCODL for going ahead, BA shall start repairing/reconditioning the DTs as per the scope defined in the approved JVR (Joint Verification Report).

18. SPARES, ACCESSORIES AND TOOLS

Not Applicable.

19. DRAWINGS AND DOCUMENTS

A] During Bid Submission:

- a) Completely filled in clause wise of the specifications
- b) Signed stamp copy of tender documents, GCC & SCC
- c) Any other documents as per tender documents
- d) Declaration by Bidder about non-engagement of subcontractors for the jobs

B] List of Calculations to be submitted to TPCODL after JVR:

- a) All the calculations shall be step by step showing the use of formulas and other practical considerations. Concise calculations in table or excel sheet shall not be accepted. Also, the reference (only standard sources as IS, IEC or any such

standard is acceptable) of the formulas shall be mentioned.

- b) Resistance Calculation (75 deg. C)
- c) Load Losses Calculation (at 75 deg. C)
- d) No load Loss Calculation
- e) Efficiency & Regulation Calculation Sheet
- f) Weight of Copper (Bare and with Insulation also).
- g) Weight of Core.
- h) Current Density Calculations

20. SCHEDULE- "A" GUARANTEED TECHNICAL PARTICULARS

Complete clause wise compliance of this specification shall be submitted along with the tender bid documents.

21. SCHEDULE "B" DEVIATIONS:

(TO BE ENCLOSED WITH TECHNICAL BID)

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:

SL. No	Clause No.	Details of deviation with justifications

We confirm that there are no deviations apart from those detailed above.

Seal of the Company:

Signature

Designation

Date:

	TP CENTRAL ODISHA DISTRIBUTION LIMITED	
	WORK INSTRUCTION /OPERATING GUIDELINES	
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1.0 ORGANIZATIONAL VALUES

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

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

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

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

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

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

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

2.0 ETHICS

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

The main objective of the Ethics Management Team is to:

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

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

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3.0 CONTRACT PARAMETERS

3.1 Issue/ Award of Contract

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

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

3.2 Contract Commencement Date

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

3.3 Contract Completion Date

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

3.4 Contract Period/Time

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

3.5 Contract Execution Completion Date

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

3.6 Contract Execution Period/Time

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

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

3.7 Contract Price /Value

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

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

3.8 Contract Document

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

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

3.9 Contract Language

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

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

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

3.10 Reverse Auction

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

4.0 SCOPE OF WORK

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

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

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

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

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

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

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

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

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

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

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

4.1 Indemnity

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

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

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

4.2 Display of Notice Boards at Work Sites

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

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

4.3 Disposal of Waste at Site

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

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

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

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

4.4 Deployment of Work Force

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

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

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

4.5 Damages of Properties

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

4.6 Issuance of Materials

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

4.7 Company's Right To Use Works

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

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

4.8 Rights of TPCODL to vary the scope work

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

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

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

4.9 Technical Evaluation

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

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

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S. No.	Evaluation Parameter	Max. Score
	score assigned by TPCODL based on the above visits shall be final and binding on the bidder (Vendor Evaluation form attached as annex L). Safety Score achieved against BA Safety Management System Questionnaire	20
B.2.	Client Referrals At least 3 nos. Customer References for similar services in last 3 years. All customer references shall be either of the following: - Govt. Organizations/ PSUs/ Power Distribution Utilities. - Private Organizations with an annual turnover of ≥ 500 cr. PO copies or Completion Certificates will be admissible. Each reference: 10 marks	30
B.3.	Blacklisting Information Not blacklisted by any reputed organization/utility in last 2 years: 20 marks else 'Zero' marks	20

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

5.0 PRICES/RATES/TAXES

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

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

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

5.1 Changes in Statutory Tax Structure

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

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

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6.0 TERMS OF PAYMENT

6.1 Pre-Requisites for Payment

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

6.2 Bills & Invoices

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

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

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

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

6.3 Payment & Statutory Deductions

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

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

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6.3.1 Statutory Deductions

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

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

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

6.4 Guidelines for Raising Running/ Final Bills

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

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

6.5 Quantity Variation

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

6.6 Full and Final Payment

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

7.0 MODE OF PAYMENT

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

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

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8.0 SECURITY CUM PERFORMANCE DEPOSIT

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

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

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

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

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

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

9.0 STATUTORY COMPLIANCE

9.1 Compliance to Various Acts

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

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

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

9.2 SA 8000

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

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

9.3 Affirmative Action

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

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

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

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

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

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

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

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

9.4 Compliance to Labour Laws

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

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

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

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

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

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10.0 QUALITY

10.1 Knowledge of Requirements

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

10.2 Adherence to Rules & Regulations

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

10.3 Specifications and Standards

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

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

11.0 SAFETY

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

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

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

12.0 GUARANTEE

12.1 Guarantee of Performance

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

12.2 Guarantee Period

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

12.3 Failure in Guarantee Period (GP)

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

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

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

12.4 Cost of repairs on failure in GP

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

12.5 Guarantee period for Goods Outsourced

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

12.6 Latent Defect

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

13.0 LIQUIDATED DAMAGES

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

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

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

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

13.1 LD Waiver Request

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

13.2 Material Recovery

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

14.0 ASSIGNMENT OR SUBCONTRACTING

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

In such cases where outsourcing is done by the Associate

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

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

15.0 UNLAWFUL ACTIVITIES

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

16.0 CONFIDENTIALITY

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

16.1 Documents

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

16.2 Geographical Data

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

16.3 Associate's Processes

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

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

16.4 Exclusions

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

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

16.5 Violation

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

17.0 INTELLECTUAL PROPERTY RIGHTS

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

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

18.0 INDEMNITY

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

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

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

19.0 LIABILITY & LIMITATIONS

19.1 Liability

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

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

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

19.2 Limitation of Liability

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

20.0 FORCE MAJEURE

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

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

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

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

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

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

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

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

21.0 SUSPENSION OF CONTRACT

21.1 Suspension for Convenience

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

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

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

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

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

21.2 Suspension for Breach of Contract conditions

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

21.3 Compensation in lieu of Suspension

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

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

22.0 TERMINATION OF CONTRACTS

22.1 Termination for Default/Breach of Contract

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

22.2 Termination for convenience of Associate

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

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

22.3 Termination for Convenience of TPCODL

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

23.0 DISPUTE RESOLUTION & ARBITRATION

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

24.0 Governing laws and jurisdiction

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

25.0 ATTRIBUTES OF GCC

25.1 Cancellation

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

25.2 Severability

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

25.3 Order of Priority

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

26.0 INSURANCE

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

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

27.0 ERRORS AND OMISSIONS

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

28.0 TRANSFER OF TITLES

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

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

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

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

29.0 SUGGESTIONS & FEEDBACK

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

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

30.0 CONTACT POINTS

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

31.0 LIST OF ANNEXURES

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

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ANNEXURE-A

PROFORMA FOR BID SECURITY BANK GUARANTEE

TP Central Odisha Distribution Limited

Bhubaneswar

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

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

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

The CONDITIONS of this obligation are:

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

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

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

DATE.....

SIGNATURE OF THE BANK.....

WITNESS.....

SEAL.....

(Signature, Name & Address)

(At least 2 witnesses)

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ANNEXURE- B

PROFORMA FOR PERFORMANCE BANK GUARANTEE (CP cum EP)

(On Rs.100/- Stamp Paper)

Note:

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

TP Central Odisha Distribution Limited

Bhubaneswar

CP cum EP BG No.....

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

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

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

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

Dated at _____ this _____ day of _____ 200__

Witness

1. _____

Bank's rubber stamp

Banks full address

2. _____

Designation of Signatory

Bank official number

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ANNEXURE-C

PROFORMA FOR “NO DEMAND CERTIFICATE” BY ASSOCIATE

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

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

(Certificate No. CCP/002)

Name of the Project

Order/ Contract No.

Dated

Name of the Associate

Scheme No. / Job No.

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

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

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

Dated

Signature

Place

Name

Designation

(Company Seal)

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ANNEXURE – D

PROFORMA FOR “INDEMNIFICATION ON STATUTORY COMPLIANCES”

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

(Certificate No. CCP/001)

Name of the Project

Letter of Award / Contract No.

Dated

Name of the Associate

Scheme No. / Job No.

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

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

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

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

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

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

Dated

Signature

Place

Name Designation

(Company Seal)

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ANNEXURE-E

PROFORMA FOR APPLICATION FOR ISSUANCE OF CONSOLIDATED TDS CERTIFICATE

To be printed on the letterhead

To,

TP Central Odisha Distribution Limited,

Bhubaneswar

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

Dear Sir,

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

For and on behalf of

Signature

Name

Address

Contact No. (Land Line)

(Mobile)

PAN #

Assessing authority

ATTACH THE COPY OF PAN CARD

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ANNEXURE - F

SERVICE LEVEL AGREEMENT

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

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

Shall Abide by TPCODL Core Values:

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

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

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

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

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

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

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

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

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

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

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

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

7.0 Requirements during execution of work:

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

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

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

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

Enclosure:

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

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FORM (A)

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

A. Details of the Agency

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

B. Details of Work

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

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If yes, furnish details:

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

Name of Insurance Company

.....

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

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

C. Details of workers to be engaged

No. of Workers

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

*** Number to be indicated**

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

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

Date:

(Signature of the Business Associate

or his Authorized Representative)

This Business Associate is / will be engaged in TPCODL.

(Signature and seal of

Officer I/c of the Work)

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Form X

Undertaking

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

(_____)

Date:

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Form XI

Undertaking

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

I _____ on behalf of

M/s _____ hereby undertake:

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

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

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

Date:

()
Authorized Signatory

For M/s _____

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FORM- VI A

Notice for Commencement /Completion of contract work

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

Signature of Contractor

With Office Seal

The Inspector

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FORM XXIV

[See Rule 82(1)]

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

Half -Yearly Ending _____

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

Men	Women	Children	Total

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

8. No. of man days worked by

Men	Women	Children	Total

9. Amount of wages paid

Men	Women	Children	Total

10. Amount of deductions from wages, if any

Men	Women	Children	Total

Whether the following have been provided –

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(i) Canteen : _____

(ii) Rest rooms : _____

(iii) Drinking water : _____

(iv) Crèches : _____

(v) First Aid : _____

Signature of contractor

Place _____

Date _____

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ANNEXURE – G

UNDERTAKING FOR COMPETENCE OF WORKMEN

Name of Associate :

Tender No. :

Item :

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

Date:

 ()

Authorized Signatory

For M/s

Seal

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ANNEXURE-H

BUSINESS ASSOCIATE FEEDBACK FORM

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

You are associated with us as

☐ OEMs ☐ Service Contractor ☐ Material Suppliers ☐ Material & Manpower Supplier

You are associated with us for

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

Your office is located at

☐ Bhubaneswar ☐ Within 200 kms from Bhubaneswar ☐ More than 200 kms from Bhubaneswar

Your nearly turnover with TPCODL

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

Additional information

Your Name	
Your Designation	
Your Organization	
Contact Nos.	
Email	

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

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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	TPCODL demonstrate willingness to be flexible in administration of Contract / Purchase Order						
7	We provide timely responses / clarifications to your queries						
8	TPCODL representative you interact / coordinate with is adequately empowered to support you in meeting contractual obligations						
9	TPCODL provide you all necessary infrastructure support for timely and quality completion of work (including AMC)						

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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	
10	TPCODL Engineer-in-Charge timely certifies the jobs executed/ material supplied						
11	TPCODL Engineer-in-Charge efficiently supervises the job execution for timely completion of job						
12	BIRD (Bill Inward Receipt Desk) initiative has improved payment disbursement process						
13	Our approach for Inspection and Quality Assurance effective to expedite project completion?						
14	TPCODL never defaults on contractual terms						
15	In TPCODL Contracts closure is done within set time limit						
16	Our material receiving procedures are well defined and efficiently deployed to reduce mutual inconvenience						
17	Bank Guarantees are released in time bound manner						
18	Our processes related to payment / account settlement are effective.						
19	You get payments on time						
20	TPCODL Employees follow Ethical behavior						

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SECTION - B

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

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

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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	Probably YES	Certainly YES	Remarks/ Suggestion
1	Based on your experience with TPCODL, would you like to continue your relationship with TPCODL?					
2	If someone asks you about TPCODL, would you talk “positively” about TPCODL?					
3	Would you refer TPCODL name to others in your community, fraternity and society as a professional & dynamic organization?					

SECTION - D

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

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

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SECTION – E

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

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

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

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

We thank you for your time and courtesy!!

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ANNEXURE - I

ACCEPTANCE FORM FOR PARTICIPATION IN REVERSE AUCTION EVENT

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

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

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

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

Signature & Seal of the Bidder

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ANNEXURE - J

To,

DGM (Finance)

TP Central Odisha Distribution Limited
Bhubaneswar

Sub: **e-Payments through National Electronic Fund Transfer (NEFT) OR Real Time Gross Settlement System (RTGS)**

Dear Sir,

We request and authorize you to affect e-payment through NEFT/RTGS to our Bank Account as per the details given below:-

Vendor Code :

Title of Account in the Bank :

Account Type :

(Please mention here whether account is Savings/Current/Cash Credit)

Bank Account Number :

[illegible]

Name & Address of Bank

Bank Contact Person's Names :

Bank Tele Numbers with STD Code :

Bank Branch MICR Code :

[illegible]

(Please enclose a Xerox a copy of a cheque.
This cheque should not be a payable at par
cheque)

Bank Branch IFSC Code :

[illegible]

(You can obtain this from branch where you have your account)

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:

Email Address of accounts person (to
send payment information)

Name of the Authorized Signatory :

Contact Person's Name :

Official Correspondence Address :

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

Thanking you,

For _____

(Authorised Signatory)

(Signature with Rubber Stamp)

Certification from Bank:

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

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

(Manager's/ Officers Signature under Bank Stamp)

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ANNEXURE - K

CONTRACTOR SAFETY MANAGEMENT SYSTEM

1. OBJECTIVE

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

2. SCOPE

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

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

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

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

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

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

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

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

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

- 4.1 Maintenance of Distribution Network – *Annexure 3.1*
- 4.2 Distribution Projects – *Annexure 3.2*
- 4.3 EHV Projects – *Annexure 3.3*
- 4.4 Maintenance of Sub transmission network – *Annexure 3.4*
- 4.5 Civil / Generation Projects – *Annexure 3.5*
- 4.6 Meter Management Group (MMG), Revenue Recovery Group (RRG), Energy Auditing Group, AMI, MRG, etc. – *Annex 3.6*
- 4.7 Maintenance and Operation of Street Light. – *Annexure 3.7*

1. Please note that hydra cranes used by any dept should be ACE Model No. FX 150 ACE SX 150, Escorts Model No. TRX 1550 or contemporary. Use of old generation hydra cranes like ACE 14XW or ACE 12 XW, etc are prohibited.

(Details as per Annexure attached)

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

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

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

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

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

5. QUALIFICATION AND EXPERIENCE OF THE SAFETY AND SITE PERSONNEL

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

6. REWARD AND PUNITIVE MEASURES

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

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

6.2 Measures of Reward and Punitive Measures

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

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

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

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Consequence of Safety Violation Observed (Not related to Incident/ Accident)		Violation				
S.No.	Safety Violation	1st	2nd	3rd	4th	Subsequent Violations
1	Working without PPE (Helmet/Gloves/Safety Harness/ Safety Shoes etc.)	B	C	D	D	Will attract the same penalty as applicable in the 4th violation.
2	Improper Working at Height	B	C	D	D	
3	Working without proper tools and tackles	A	B	C	D	
4	Poor condition of Crane/Hydra/ Vehicle/Incompetent driver/ Helper	B	C	D	E	
5	Violation of SOP/ WI	C	D	E		
6	Working without adherence to PTW process or authorization/ Safety Zone	C	D	E		
Legend	Action to be taken	Responsibility		Penalty Amount (in Rs.)		The number of violations are to be calculated cumulatively over the contract period and not on monthly basis.
A	Levy of Penalty	Engineer Incharge		5,000		
B	Memo to BA & Levy of Penalty	Engineer Incharge		10,000		
C	Memo to BA & Levy of Penalty	Head of Group		25,000		
D	Memo to BA & Levy of Penalty	Head of Department		50,000		
E	Memo to BA, Levy of Penalty and termination of Contract	Head of Department		1,00,000		
Figure 6.3 (1b)-Penalty Matrix for Safety violation (Applicable for Major Contracts)						

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

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

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

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Consequence Of an Incident / Accident (In case of <u>MAJOR</u> contract)		Incident / Accident				Action Required
Sl. No	Type of the injury	1st	2nd	3rd	4th	
1	Slight injury (First Aid Case)	F (Strengthening of process through continuous improvement in the work procedure)				Take risk reduction measures
2	Minor injury (No or Hospitalization less then 48 Hrs)	F	G	G	H	
3	Major injury (Bone injury or burn or Hospitalization more then 48 Hrs)	G	G	H	I	
4	Single fatality	J	K			Intolerable
5	Multiple fatalities (Two or more fatalities during one event)	K				
Legend	Action to be taken	Responsibility		Penalty (in Rs.)		The number of violations are to be calculated cumulatively over the contract period and not on monthly basis.
F	Memo to BA and levy of penalty	Engineer Incharge		5,000/-		
G	Memo to BA and levy of penalty	Head of Group		20,000/-		
H	Memo to BA and levy of penalty	Head of Group		50,000/-		
I	Memo to BA and levy of penalty	Head of Department		2,00,000/-		
J	Memo to BA and levy of penalty	Head of Department		5,00,000/-		
K	Memo to BA, levy of penalty, termination of contract and black listing of BA	Functional Head		10,00,000/-		
Figure 6.3 (2) - Penalty Matrix for Incident / Accident in Major Contracts						

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

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

Consequence Of an Incident / Accident (In case of <u>MINOR</u> contract)		Incident / Accident				Action Required
Sl. No	Type of the injury	1st	2nd	3rd	4th	
1	Slight injury (First Aid Case)	L (Strengthening of process through continuous improvement in the work procedure)				Take risk reduction measures
2	Minor injury (No or Hospitalization less than 48 Hrs)	L	M	M	N	
3	Major injury (Bone injury or burn or Hospitalization more than 48 Hrs)	M	M	N	O	
4	Single fatality	P	Q			Intolerable
5	Multiple fatalities (Two or more fatalities during one event)	Q				
Legend	Action to be taken	Responsibility		Penalty (in Rs.)	The number of violations are to be calculated cumulatively over the contract period and not on monthly basis.	
L	Memo to BA and levy of penalty	Engineer Incharge		5,000/-		
M	Memo to BA and levy of penalty	Engineer Incharge		10,000/-		
N	Memo to BA and levy of penalty	Head of Group		25,000/-		
O	Memo to BA and levy of penalty	Head of Department		1,00,000/-		
P	Memo to BA and levy of penalty	Head of Department		3,00,000/-		
Q	Memo to BA, levy of penalty, termination of contract and black listing of the BA	Functional Head		5,00,000/-		
Figure 6.3 (3) - Penalty Matrix for Incident / Accident in Minor Contracts						

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

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

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

6.3.2 COMPENSATION FOR BA PERSONNEL

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

I. For Death or Permanent / Total Disablement

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

II. For Permanent Partial Disablement and Temporary Total Disablement

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

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

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

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

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

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

Abbreviations Used in the Document

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

- END -

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Annexure 1 (Refer Para 3.1)

Business Associate Safety Management System Questionnaire

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

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

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Certification				
- Is there a procedure by which employees can report hazards at workplaces? - If yes provide details if No please refer Note 1.	1			
<i>Safety Monitoring</i>				
- Is there an officer / supervisor responsible for monitoring workplace / worksite safety? - If yes provide details	1			
<i>Safety Performance Monitoring</i>				
- Are employees regularly provided with information on company health and safety performance? - If yes provide details	1			
- Has the company ever been convicted of an occupational health and safety offence? - If yes provide details	NO Marks (Negative mark ONE for each case)			
- Has there been any major accident of employee at TPCODL site in past	NO Marks (Negative mark ONE for each case)			
- Has there been any fatal accident of employee at TPCODL site in past. - (Note: Bid evaluation committee has to take cognizance of the incident and shall evaluate the bid only after formal approval of competent authority i.e. CTO. - In case of yes please refer Note 4.	NO Mark (Negative mark FIVE for each case)			

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

Note

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

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

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

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

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

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

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Annexure 2 (Refer Para 3.2 and 5.8)

Risk Assessment Form

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

Specific Task/Activity	Potential Hazards/Consequences	Class of Risk	Control Measures
Working at Height	Fall from height	2	1. Mandatory usage of JSA checklist prior to start of work 2. Use appropriate ladder 3. Use full body safety harness having double lanyard. 4. Use Electrical Safety Shoes if working on electrical network otherwise use safety shoes. 5. Use Safety helmet. 6. Use PPE as per the annexure 7 of this CSM document 7. Refer Work instruction related to Working at Height for other details 8. Use of metal scaffold to be ensured in height work (cup lock type) 9. Deploy competent workforce who are medically fit
Working on electrical equipment / network	Electric flash / electrocution	3	1. Mandatory usage of JSA checklist prior to start of work 2. Use Electrical Safety Shoes while working on electrical network. 3. Use Electrical Safety gloves of appropriate voltage rating. 4. Use face shield / visor attached with helmet. 5. Use Safety helmet. 6. Use PPE as per the annexure 7 of this CSM document 7. Mandatory usage of Insulated tools & tackles on electrical system 8. Mandatory compliance for Lock Out & Tag out system. Refer Work instruction related to Working on electrical equipment / network for other details

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Specific Task/Activity	Potential Hazards/Consequences	Class of Risk	Control Measures
Excavation / Civil work	Collapse of soil, Fall in excavated pit leading to Injury	2	1. Use safety shoes. 2. Use Safety helmet. 3. Use PPE as per the annexure 7 of this CSM document 4. Hard Barricading of the worksite. 5. Refer Work instruction related to excavation / civil work for other details
Material lifting & Mechanical Erection work	Fall of material/object, Topple of crane,	2	1. Mandatory compliance of crane checklist 2. Visual condition check of lifting tools and tackles such as wire rope sling, belt sling, chain, pulley block, D-shackles, etc. shall be ensured. 3. The operator's physical fitness and alertness should be judged by sup. / EIC. 4. Use PPE as per the annexure 7 of this CSM document 5. Refer Work instruction related to Material lifting & Mechanical Erection work
Road Safety	Road Accidents	3	1. Mandatory compliance of TPCODL Road Safety policy W07(COR-P-12)

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

Guidelines for filling the Risk Assessment Form

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

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

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

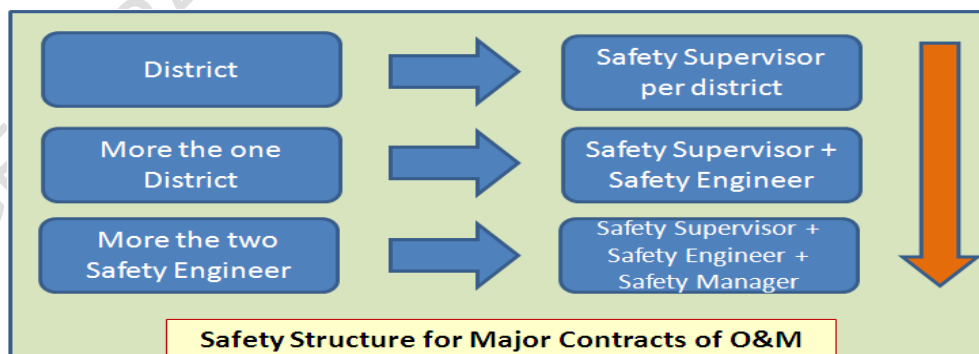
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Annexure 3.1 (Refer Para 4.0)

General Safety Conditions for the Maintenance of Distribution Network Contracts:

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

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



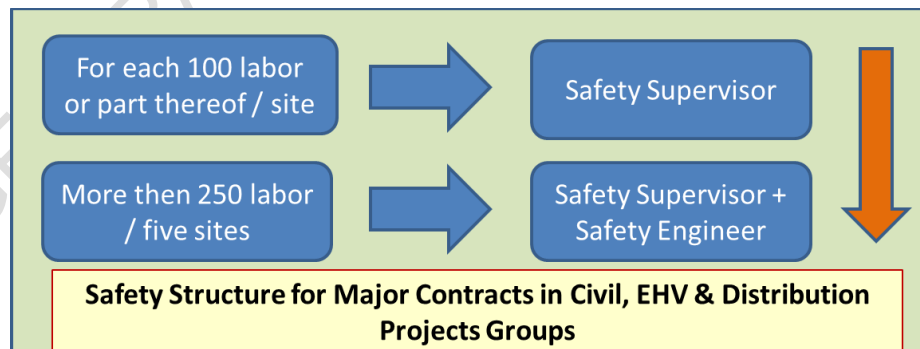
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Annexure 3.2 (Refer Para 4.0)

General Safety Conditions for the Distribution Projects Major Contracts:

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

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



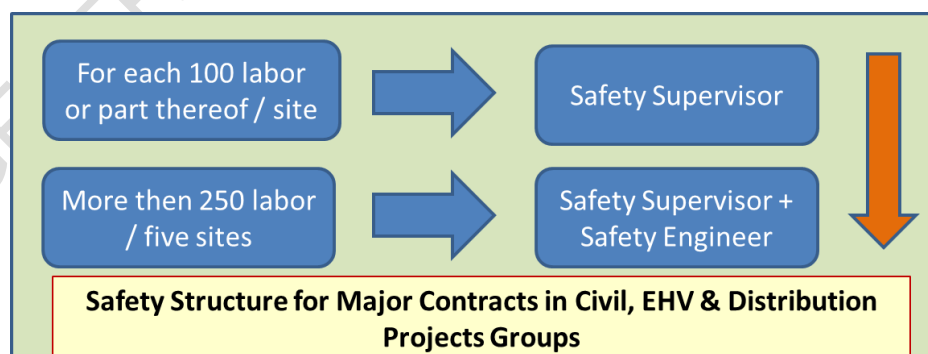
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Annexure 3.3 (Refer Para 4.0)

General Safety Conditions for the major EHV Projects Contracts:

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

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



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Annexure 3.4 (Refer Para 4.0)

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

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

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



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Annexure 3.5 (Refer Para 4.0)

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

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

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



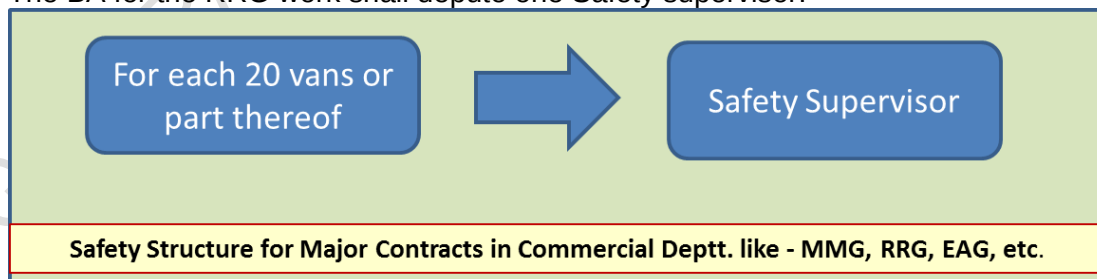
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Annexure 3.6 (Refer Para 4.0)

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

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

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



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Annexure 3.7 (Refer Para 4.0)

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

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

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



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Annexure 4 (Refer Para 3.3)

Safety Undertaking by way of Affidavit

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

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

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

DEPONENT

VERIFICATION

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

DEPONENT

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Annexure 5 (Refer Para 5.4)

SKILL / QUALIFICATION REQUIRED FOR ELECTRICIAN AND ELECTRICAL SUPERVISOR

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

1. Formal education in ITI – Wireman/ Electrician trade.
- OR
2. Working experience of minimum three years of practical wiring.
- OR
3. Have completed three years apprenticeship course through Apprenticeship Advisor, Govt. of NCT of Odisha / other state Govt. in the trade of Lineman / Wireman / Electrician.
 4. A candidate must have attained the age of Eighteen years.

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

1. Have at least five years' experience of practical wiring after passing the certificate of competency class-II i.e. electrician.
- OR
2. Recognized Degree or Diploma or equivalent qualification in Electrical Engineering from any Technical institute / College or University recognized by the Board.
- AND
- Must have completed the training/job in rectifying the common defects in electrical line and power installation for a period of one and three years after passing Degree or Diploma respectively
- OR
3. Possessing the valid certificate of certificate of competency class – 1 (Electrical Supervisor)

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Annexure 6 (Refer Para 5.6)

Training Module for BAs Worker & Supervisor

Training for BA Supervisor

Duration – 02 Hrs / Month

Methodology: Lecture and Practical Demonstration of Safety Zone Creation

Session: 1

Topic: Electrical Safety Aspects

Sub Topics:

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

Session: 2

Topic: Use of Electrical Testing Equipment

Methodology: Lecture and Practical Demonstration

Sub Topics:

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

Session: 3

Topic: Awareness of Electrical Safety Aspects

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

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

Session: 4

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

Session: 5

Topic: Practical demonstration of Safety Zone creation

FREQUENCY

Regular Safety Training Program

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

One Day Induction Safety Training Programs:

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

Duration / Periodicity:

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

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Annexure 7 (Refer Para 5.7)

LIST OF PERSONAL PROTECTIVE EQUIPMENT AND TESTING FREQUENCY

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

Note:

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

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

Pictures of PPE for reference purpose.

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

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

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

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

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

Note:

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

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Annexure 9 (Refer Para 5.9)

PERFORMANCE REPORT – SAFETY

FOR THE MONTH OF

Name of BA :

Name of the Project and Purchase order No:

Date of commencement of work:

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

Cumulative Man Hour worked:

Total Number of

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

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

Detail of the Incident / Sub Standard Acts and Condition

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

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

Detail of the Accident / Near Miss Incidents:

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

Details of the Safety Violations:

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Date and Location	Brief Description	Name of employee involved	Action Taken

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

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

Detail of the Safety Meeting

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

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

Date	Area / Location	Major Observations	Recommendations	Action Taken

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

Date	Location	Activity	Level of Participation	Number of participation

Signature of the BA Safety Representative
HoG

Signature of ZM /

Name, E. No. and Date

Name, E. No. Date.

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

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

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ANNEXURE-L
VENDOR APPRAISAL FORM

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

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

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

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

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

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

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

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

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