



NIT No.: TPNODL/OT/2021-22/023 Dtd.07.07.21

Open Tender Notification

For

**RATE CONTRACT FOR SUPPLY OF 11kV RING MAIN UNIT in
TPNODL Area**

Tender Enquiry No.: TPNODL/OT/2021-22/023 Dt. 07.07.2021

Due Date for Tender Fee: 16.07.2021 [15:00 Hrs.]

Due Date for Bid Submission: 09.08.2021 [15:00 Hrs.]

CONFIDENTIAL

**TP NORTHERN ODISHA DISTRIBUTION LIMITED
(A TATA Power and Odisha Government Joint Venture)
Contracts & Material Management Department,
Corporate Office, Januganj, Balasore-756019**

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Procedure to Participate in Tender

Tender Enquiry No- TPNODL/OT/2021-22/023

| Tender Enquiry No. | Item Sequence | Work Description | EMD (Rs.) | Tender Fee (Rs.) | Last Date and Time for payment of Tender Fee |
|-----------------------|---------------|--|---------------|------------------|--|
| TPNODL/OT/2021-22/023 | A. | RATE CONTRACT FOR SUPPLY OF 11kV 4-Way RMU in TPNODL Area | 7,00,000.00/- | 5,000 | 16.07.2021, 15:00 Hrs |
| | B. | RATE CONTRACT FOR SUPPLY OF 11kV 3-Way (2LBS) RMU in TPNODL Area | | | 16.07.2021, 15:00 Hrs |
| | C. | RATE CONTRACT FOR SUPPLY OF 11kV 3-Way (1LBS) RMU in TPNODL Area | | | 16.07.2021, 15:00 Hrs |

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

Procedure to Participate in Tender.

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

1. Eligible and Interested Bidders to submit duly signed and stamped letter on Bidder's letter head indicating
 - a. Tender Enquiry number
 - b. Name of authorized person
 - c. Contact number
 - d. E-mail id
 - e. Details of submission of Tender Fee
 - f. GST Registration No
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 Northern Odisha Distribution Limited
Bank Name – Union Bank of India
Branch Name – Balasore Branch
Account No – 500601010280332
IFSC Code – UBIN0550060

E-mail with necessary attachment to be sent to chandan.bhatnagar@tpnodl.com with copy to vipin.Chauhan@tpnodl.com before last date and time for payment of Tender Fee.



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Interested bidders to submit Tender Fee and Authorization Letter before Last date and time as indicated above, after which link from TPNODL 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 only through TPNODL E-Tender system (Ariba). User manual to guide the bidders to submit the bid through E-Tender system (Ariba) is also enclosed.

No e-mail or verbal correspondence will be responded. 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 TPNODL 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.

Any payment of Tender Fee / EMD by Bidder who have not done the prerequisite will not be refunded.

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



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**TP NORTHERN ODISHA DISTRIBUTION LIMITED
(A Tata Power and Odisha Government Joint Venture)
Contracts & Material Management Department
Corporate office: Januganj, Balasore, Odisha-756019**

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1.0 Event Information

1.1 Scope of work

Supply of 11kV RMUs at TP Northern Odisha Distribution Ltd. It is included, loading, unloading transportation from OEM factory to TPNODL site/ Store. The detailed scope of work is mentioned in BOQ and TPNODL specification. Open Tenders are invited in e-tender bidding process from interested bidders for entering into a Rate Contract valid for a period of 12 Months as defined below:

| Group No. | Description | EMD Amount (Rs.) | Tender Fee (Rs.) |
|-----------|--|------------------|------------------|
| 1. | RATE CONTRACT FOR SUPPLY OF 11kV 4 WAY-RING MAIN UNIT in TPNODL Area- 75Nos. | 7,00,000.00/- | 5,000 |
| | RATE CONTRACT FOR SUPPLY OF 11kV 3 WAY(2LBS)-RING MAIN UNIT in TPNODL Area- 50Nos. | | |
| | RATE CONTRACT FOR SUPPLY OF 11kV 3 WAY(1LBS)-RING MAIN UNIT in TPNODL Area- 25Nos. | | |

1.2 Availability of Tender Documents

Please refer "Procedure to participate in the e-tender".

1.3 Calendar of Events

| | | |
|-----|--|--|
| (a) | Last Date of receipt of Tender Fee | 16.07.2021 ; 15:00 Hrs |
| (b) | Date & Time of Pre-Bid Meeting (If any) | Not Applicable due to COVID-19, Queries to be answered through e-mail/TPNODL Tender website. |
| (c) | Last Date of receipt of pre-bid queries, if any | 20.07.2021 up to 15:00 Hrs |
| (d) | Last Date of Posting Consolidated replies to all the pre-bid queries as received | 31.07.2021 up to 18:00 Hrs |
| (e) | Last date and time of receipt of Bids | 09.08.2021 up to 15:00 Hrs |
| (f) | Date & Time of opening technical bids & EMD | 09.08.2021 up to 15:30 Hrs |
| (g) | Date & Time of opening of Price of qualified bids | Will be notified to the successful bidders through our website / e-mail. |

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 TPNODL, the last date of submission of bids and date of opening of bids will be the following working day at appointed times.

Pre bid meeting shall be scheduled at TPNODL Corporate Office or Online. Same shall be communicated to the interested bidders post receipt of their Tender Fee.

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 along with a sample of each item as specified at Annexure I (as applicable)
- 1.4.5 Duly signed and stamped 'Schedule of Deviations' as per Annexure III on bidder's letter head.
- 1.4.6 Duly signed and stamped 'Schedule of Commercial Specifications' as per Annexure IV on bidder's letter head.
- 1.4.7 Proper authorization letter/ Power of Attorney to sign the tender on the behalf of bidder.
- 1.4.8 Copy of PAN, GST, PF, ESI Registration and valid Labour License (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

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

1.7 Qualification Criteria

- 1.7.1 The bidder should have average Annual Turnover of Rs. 5.00 Cr. In last 3 financial years. Copy of audited P&L account to be submitted in this regard.
- 1.7.2 The bidder should have executed either 100% of the average Order value in line with Clause No.1.7.1 above, during last three years; or single Order of 50% of above value during last three years; or 2 Orders of 30% each of the above value during last 3 Years. Copy of Work Order / Completion Certificate to be submitted in this regard.



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- 1.7.3 The bidder should have successfully executed Order of RMUs for at least one of the reputed power utilities in India. Copy of Work Order / Completion Certificate to be submitted in this regard.
- 1.7.4 The bidder should procure equipment & services from the Manufacturers Approved /authorized by TPNODL. Also the bidder is supposed to have agreement with Manufacturer/ Service provider to provide support to TPNODL for any service & spares related issues during relevant guarantee/ warranty period as stipulated in the TPDDL specifications. Copy of self-undertaking shall be submitted in this regard.
- 1.7.5 Bidder should have the In-house testing facilities for acceptance test as per TPNODL specifications. Self-undertaking to be submitted in this regard. TPNODL reserves the right to inspect the said manufacturing facility as a proof of compliance to this parameter.
- 1.7.6 100% subsidiaries of Global Companies are also eligible to bid if the qualification requirements stated above are met independently or in combination with the parent Company.
- 1.7.7 Indian Companies in joint venture relationship with global OEM or authorized Indian Channel partner / Sales representatives of Global OEM are also eligible to bid if the qualification requirements stated above are met independently or in combination with the OEM.

1.8 Marketing Integrity

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

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

1.9 BAs Confidentiality

All information contained in this tender is confidential and shall not be disclosed, published or advertised in any manner without written authorization from TPNODL. This includes all bidding information submitted to TPNODL. All tender documents remain the property of TPNODL and all BAs are required to return these documents to TPNODL upon request. BAs 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.
- If Qualified technically, the bids will be evaluated commercially on the overall item wise lowest cost as calculated in Schedule of Items [ANNEXURE I]. TPNODL however, reserves the right to split the order line item wise and / or quantity wise, among more than one Bidder. Hence all bidders are advised to quote their most competitive rates.
- Bidder has to mandatorily quote as per Schedule of Items [Annexure-I]. Failing to do so TPNODL may reject the bid.



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NOTE: In case of a new bidder not registered, existing sites shall be visited by TPNODL officials for confirming overall performance of the BA. However TPNODL reserves the right to carry out sites inspection and evaluation for any bidder prior to technical qualification. In case a bidder is found as Disqualified in the sites visit evaluation, their bid shall not be evaluated any further and shall be summarily rejected. The decision of TPNODL shall be final and binding on the bidder in this regard.

2.1 Price Variation Clause: The year wise prices as finalized shall remain firm during the entire contract period.

3.0 Submission of Bid Documents

3.1 Bid Submission

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

Bids shall be submitted in 3 (Three) parts:

FIRST PART: "EMD" of Rs. 7,00,000.00/- (Rupees Seven Lacks only). The EMD shall be valid for 210 days from the due date of bid submission in the form of BG/ Bankers Pay Order favoring "TP Northern Odisha Distribution Limited", payable at Balasore only. The EMD has to be strictly in the format as mentioned in General Condition of Contract, failing which it shall not be accepted and the bid as submitted shall be liable for rejection. 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.

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

Beneficiary Name – TP Northern Odisha Distribution Limited
Bank Name – Union Bank of India
Branch Name – Balasore Branch
Account No – 500601010280332
IFSC Code – UBIN0550060

*In case the EMD is in the form of BG, **EMD Original Hard Copy** shall be delivered at the following address in Envelope clearly indicating Tender Reference Number, Name of Tender and Bidder Name before opening of the Bid.*

The Envelop shall be addresses to:

H.O.D. (Contracts)
TP NORTHERN ODISHA DISTRIBUTION LIMITED
(A Tata Power and Odisha Government Joint Venture)
Corporate office: Januganj, Balasore, Odisha-756019

The envelop shall also bear the Name & Address of the bidder along with our Tender No. and subject.

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

- Documentary evidence in support of qualifying criteria
- Technical literature/GTP/Type test report etc. *(if applicable)*

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- 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/ Contract period, payment terms etc. as per the Annexure IV – Schedule of Commercial Specifications.
- g) Quality Assurance Plan/Inspection Test Plan for supply items *(if applicable)*
- h) Acceptance of Annexure II-Scope of work and service level agreement.

The technical bid shall be properly indexed and is to be submitted through TPNODL E-tender platform (Ariba) only. Hard copy of Technical Bids need not be submitted.

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. Price Bid is to be submitted in soft copy through TPNODL E-Tendering system (Ariba) only. Hard copy of Price Bid not be submitted.

SIGNING OF BID DOCUMENTS:

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

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

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

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

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

3.2 Contact Information

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

Communication Details:

Package Owner - Contracts

Name: Mr. Chandan Bhatnagar

Contact No.: 7455022602

E-Mail ID: chandan.bhatnagar@tpnodl.com

HOD Contracts

Name: Mr. Vipin Chauhan

Contact No: 9717393121

E-Mail ID: vipin.chauhan@tpnodl.com

Bidders are strictly advised to communicate with Package Owner through TPNODL E-tender System (Ariba) only. They need to pay Tender Participation Fee to receive the Ariba log-in.

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 rate for each item & total price with taxes, duties & freight up to destination at various sites of TPNODL. 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/ SLA mentioned in the tender, shall be deemed to be included in prices quoted.

Applicable GST to be specified clearly.

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/ SLA 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 TPNODL 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 TPNODL against the risk of bidder's conduct which would warrant forfeiture.

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

- Banker's Cheque/ Demand Draft/ Pay order drawn in favor of "TP Northern Odisha Distribution Limited", payable at Balasore only
- 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 TPNODL 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 TPNODL.

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 TPNODL's processing of Bids or award decisions may result in the rejection of the Bidder's Bid.

4.2 Technical Bid Opening

Bids shall be opened as per the schedule mentioned in Calendar of Events. In case of limited tenders, the bids shall be opened internally by TPNODL. Owing to COVID Scenario, in case of Open Tenders also, the bids shall be opened internally by TPNODL. Technical bid must not contain any cost information whatsoever.

First the "EMD" will be checked. 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 TPNODL.

4.3 Preliminary Examination of Bids/ Responsiveness

TPNODL 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. TPNODL 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, TPNODL 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 TPNODL and/or the TPNODL 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, TPNODL may, at its discretion, ask the Bidder for a clarification on its Bid for any deviations with respect to the TPNODL 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 TPNODL. 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 TPNODL website.

4.5 Price Bid Opening

Price bids will be opened at the stipulated date and time. 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 TPNODL without any further correspondence in this regard.

4.6 Reverse Auctions

TPNODL 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 and reserves the rights to conduct the manual negotiation with the BA who is declared L1 after Reverse Auction. The terms and conditions for such reverse auction events shall be as per the Acceptance Form attached as Annexure VI of this document. The bidders along with the tender document shall mandatorily submit a duly signed copy of the Acceptance Form attached as Annexure VI as a token of acceptance for the same.

5.0 Award Decision

TPNODL 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 award of contract order/LOI solely depends on TPNODL on the cost competitiveness across multiple lots, quality, delivery and bidder's capacity, in addition to other factors that TPNODL may deem relevant.

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

In case any BAs is found unsatisfactory during the Contract period, the award will be cancelled and TPNODL reserves the right to award other BAs 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)-If any
5. Technical Specifications (Annexure II)
6. Inspection Test Plan (Annexure VIII)-If any
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

- After finalization of tender, Rate Contract shall be issued on successful bidder with a validity period of **12 Months**. Prices shall remain firm till validity of issued rate contract. Within the validity of rate contract and as per requirement of material, release order shall be issued time to time. TPNODL reserves the right to extend this RC according to the performance, quality of the material for **06 Months**.
- Post award of rate contract, Business Associate (BA) shall submit applicable Performance Bank Guarantee as per GCC within 15 days. PBG applicable shall 5% of Rate Contract Value. PBG submitted, shall be released after completion of applicable minimum 18months or guarantee period plus one month.
- Guarantee period shall be as per technical specifications.
- **Within 15 days of Rate Contract issuance by TPNODL, it is the responsibility of BA to get manufacturing clearance and CAT-A issued from TPNODL.** In case BA does not get necessary approvals for issuance of CAT-A within mentioned timelines, then TPNODL reserve the right to cancel issued rate contract / release order and also reserve the right to forfeit EMD / PBG.
- BA will ensure & co-ordinate with TPNODL team for approval of CAT-A / drawing / GTP within 15days from issue of RC.
- Delivery period shall be 10-12 weeks from the approval of GTPs and drawings. BA needs to submit drawings within 10 Days from award.
- **Ratings of RMUs will be informed in RO.**
- TPNODL reserves the rights to short close the issued Release Order / Rate contract, in case of any quality issues.
- Any change in statutory taxes, duties and levies shall be borne by TPNODL.
- All other terms and conditions of TPNODL GCC shall be applicable.

7.2 Drawing Submission & Approval

The relevant drawings and GTPs need to be submitted as per special condition of contract mentioned in point no. 7.1.

7.3 Delivery Terms

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

7.4 Warranty Period

Guarantee/Warranty Period of the supplied material shall be of 18 Months from the date of supply of material at TPNODL/as per technical specification attached separately with this tender.

7.5 Payment Terms

On delivery of the materials in good condition and certification of acceptance by certified official, Associate shall submit the Bills/ Invoices in original in the name of TP NORTHERN ODISHA DISTRIBUTION LIMITED to AGM (Elect.) / Executive Engineer (Elect.), ESD, TPNODL, Balasore. The payment shall be released within 45 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

- TPNODL is an ethical organization and as a policy TPNODL 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.
- TPNODL work practices are governed by the Tata Code of Conduct which emphasizes on the following:
 - We shall select our suppliers and service providers fairly and transparently.
 - We seek to work with suppliers and service providers who can demonstrate that they share similar values. We expect them to adopt ethical standards comparable to our own.
 - Our suppliers and service providers shall represent our company only with duly authorized written permission from our company. They are expected to abide by the Code in their interactions with, and on behalf of us, including respecting the confidentiality of information shared with them.
 - We shall ensure that any gifts or hospitality received from, or given to, our suppliers or service providers comply with our company's gifts and hospitality policy.
 - We respect our obligations on the use of third party intellectual property and data.

Bidder is advised to refer GCC attached at Annexure IX for more information.

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

8.0 Specification and standards

Attached separately with tender.

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 IX.

10.0 Safety

Safety related requirements as mentioned in our safety Manual put in the Company's website which can be accessed by:

[http:// www.tpnodl.com](http://www.tpnodl.com)

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

All jobs are this tender have to be executed strictly in compliance to the Safety terms and Conditions of TP Northern Odisha Distribution Limited. Please refer attached Safety terms and conditions, Annexure-X, for details. Violation of Safety norms will result in Penalty as mentioned in the above document.

CONFIDENTIAL

ANNEXURE-I**Schedule for Items**

| Sr. No. | Description | HSN Code | UoM | Qty. | Unit Price (Rs.) | GST (Rs.) | Unit Price with GST (Rs.) | Amount (Rs.) |
|---------------------|--|----------|------|------|------------------|-----------|---------------------------|--------------|
| 1 | RATE CONTRACT FOR Supply of 11kV-4Way RMU Outdoor Type in TPNODL Area | | Nos. | 75 | | | | |
| 2 | RATE CONTRACT FOR Supply of 11kV-3Way(2LBS+1Breaker) RMU Outdoor Type in TPNODL Area | | Nos. | 50 | | | | |
| 3 | RATE CONTRACT FOR Supply of 11kV-3Way(1LBS+2Breaker) RMU Outdoor Type in TPNODL Area | | Nos. | 25 | | | | |
| TOTAL AMOUNT | | | | | | | | |

NOTE:

- The quantity mentioned above is for evaluation purpose only and may vary during the execution. Release Orders against this Rate Contract shall be issued by TPNODL as per actual requirement.
- The overall period of the rate contract shall be for a period of **12 Months** and price shall be firm till the validity of contract. Extendable to **6 Months** (Optional).
- The unit price with GST in column no. 7, is landed price FOR TPNODL Odisha Locations. Exact delivery location shall be specified in the Release Order.
- The bidders are advised to quote prices strictly in the above format. Failing to do so, bids are liable for rejection.
- The bidder must fill each and every column of the above format. ***Mentioning “extra/inclusive” in any of the column may lead for rejection of the price bid.***
- No cutting/ overwriting in the prices is permissible.
- In case of a new bidder not registered with TPNODL, factory inspection and evaluation shall be carried out to ascertain bidder's manufacturing capability and quality procedures. However TPNODL 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 TPNODL shall be final and binding on the bidder in this regard.

Annexure II
Technical Specifications

NA

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 TPNODL'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 Excise Duty | Yes / No (If Yes, indicate % rate) |
| 1d. | GST applicable at concessional rate | Yes / No (If Yes, indicate % rate) |
| 1e. | Octroi payable extra | Yes / No (If Yes, indicate % rate) |
| 1f. | Inclusive of transit insurance | Yes / No |
| 2. | Delivery | Weeks / months |
| 3. | Guarantee clause acceptable | Yes / No |
| 4. | Terms of payment acceptable | Yes / No |
| 5. | Performance Bank Guarantee acceptable (For 3or5% of order value for guarantee period) | Yes / No |
| 6. | Liquidated damages clause acceptable | Yes / No |
| 7. | Validity (180 days) (From the date of opening of technical bid) | Yes / No |
| 8. | Inspection during stage of manufacture | Yes / No |
| 9. | Rebate for increased quantity | Yes / No (If Yes, indicate value) |
| 10. | Change in price for reduced quantity | Yes / No (If Yes, indicate value) |
| 11. | Covered under Small Scale and Ancillary Industrial Undertaking Act 1992 | Yes / No (If Yes, indicate, SSI Reg'n No.) |

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 | |

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, TPNODL intends to use the reverse auctions as an integral part of the entire tendering process. All the bidders who are found as technically qualified based on the tender requirements shall be eligible to participate in the reverse auction event.

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

1. TPNODL 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. TPNODL will make every effort to make the bid process transparent. However, the award decision by TPNODL would be final and binding on the supplier.
3. The bidder agrees to non-disclosure of trade information regarding the purchase, identity of TPNODL, 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 TPNODL.
6. In case of intranet medium, TPNODL shall provide the infrastructure to bidders. Further, TPNODL 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 TPNODL.
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 TPNODL 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 TPNODL.
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

General Conditions of Contract

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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 TPNODL, 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 TPNODL and through printed declarations in all concerned documents where external stakeholders are involved.
3. Ensure proper framework of policies as preventive measures against any ethics violation recorded by them.
4. Prepare and submit MIS of all issues and concerns, corrective and preventive actions on monthly basis to the top management for their information.

All Associates and Stakeholders are requested to register any grievance on ethics violation on reported to the following e-mail ID: ceooffice@tpnodl.com

3.0 CONTRACT PARAMETERS

3.1 Issue/ Award of Contract

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

3.2 Contract Commencement Date

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

3.3 Contract Completion Date

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

3.4 Contract Period/Time

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

3.5 Contract Execution Completion Date

The stipulated date for completing the supply as per schedule of quantities shall be deemed as the Contract Execution Completion Date.

3.6 Contract Price /Value

The total all inclusive price/value mentioned in the PO/RC is the Contract Price/Value and is based on the quantity, unit rates and prices quoted and awarded and shall be subject to adjustment based on actual quantities supplied and accepted and certified by the authorized representative of the company unless otherwise specified in schedule of quantities or in contract documents.

3.7 Contract Document

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

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

3.8 Contract Language

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

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

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

3.9 Reverse Auction

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

4.0 Scope of Work

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

The associate shall satisfy himself and undertake fully the technical/commercial requirements of items to be supplied as listed in the Schedule of Quantities together with the tests to be performed /test reports to be furnished before dispatch, arrangement of stage and final inspections during manufacturing as per terms and conditions of contract, technical parameters & delivery terms and conditions including transit insurance to be met in order to fully meet TPNODL's requirements.

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

TPNODL 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



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fifteen days of receipt of such request from the TPNODL, provide Purchaser with a reasonably detailed estimate of the cost of the change outlined in the request.

In the event, TPNODL 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 TPNODL.

4.1 Bid Evaluation- Commercial & Technical

TPNODL reserves the right to evaluate the bid on below parameters as per the requirement:

Commercial Evaluation: The bid shall be evaluated on the basis of Qualifying Requirement parameters and other commercial parameters as mentioned in tender.

Technical Evaluation: The bid shall be evaluated on the parameters and not limited to Bidder Experience, Bidder Performance with other utility/company, internal performance feedback, Technical Specification, General Technical Parameters (GTP), Layout, Drawings etc.

TPNODL reserves the right to carry out Factory Evaluation of Manufacturer along with the Visit to executed Sites for further evaluation to ascertain bidder's manufacturing capability, quality procedures & Performance of executed works.

5.0 PRICES/RATES/TAXES

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

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

The prices/rates shall remain firm till actual completion of entire supply of goods/material/equipment as per contract is achieved and shall remain valid till the completion of the contract.

The prices shall remain unchanged irrespective of TPNODL 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 TPNODL 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 TPNODL.

6.0 TERMS OF PAYMENT

On delivery of the materials in good condition and certification of acceptance by TPNODL official, Associate shall submit the Bills/Invoices in original in the name of "TP Northern Odisha Distribution Ltd" to invoice desk, complete with all required documents as under:

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

Bills/ invoices shall mention Supplier's GST Number. TPNODL will make 100% payment within 45 days of submission of the Bill/Invoice complete in all respects and along with all the requisite documents mentioned above, subject to condition that Associate has furnished the requisite Security-cum-Performance Guarantee as stipulated in the contract.

6.1 Quantity Variation

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

6.2 Full and Final Payment

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

7.0 MODE OF PAYMENT

Payment shall be made RTGS / NEFT whichever of the two modes chosen by the Associate, in favour of Associate's Bank Account on TPNODL records, on whose name Contract has been issued. Those Associates opting for the RTGS mode shall submit the details of Bank Account and other details as per annexure G. Further, for any payments made, TPNODL is

not responsible for any consequences/disputes Associate have among the owners channel partners, sub-Associates and all such dispute/concerns shall be settled solely by the Associate.

8.0 SECURITY CUM PERFORMANCE DEPOSIT

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

- 5% of the RC value as per prevailing Govt. Orders however same can be change or enhanced in case of any change in Govt. direction. BA is supposed to pay the difference of PBG amount as and when demanded by TPNODL.

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 TPNODL 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 TPNODL. Alternatively, Associate may extend the validity of original SPBG only till the requisite period, i.e. Guarantee Period plus one month.

9.0 STATUTORY COMPLIANCE

9.1 Compliance to Various Acts

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

9.2 SA 8000

As TPNODL is SA 8000 compliant, it expects its Associates to follow guidelines of SA 8000:2014 on the following aspects

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

9.3 Affirmative Action

TPNODL 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**

TPNODL 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 TPNODL 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 BAs under SC/ST shall be governed under following guidelines:

- Proprietorship/ Single Ownership Firm: Proprietor of the firm should be from SC/ST community. Governing document shall be duly audited balance Sheet for the last FY bearing the name of proprietor.
- Partnership Firm: Only such firms shall qualify which have SC/ST partners holding equal to or more than 50% of the total ownership pattern of the firm. Governing document shall be Partnership Deed and audited balance sheet/ ITR for last FY.
- Private limited company: Only such firms shall qualify which have SC/ST directors holding equal to or more than 50% of the total ownership pattern of the firm. Governing

document shall be Memorandum of Understanding (MoU) and/or Article of Association (AoA).

Governing document shall be Memorandum of Understanding (MoU) and/or Article of Association (AoA).

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

9.4 ISO 14001

The vendor to confirm whether their organization is ISO 14001 certified. If not, the Vendor must certify that the handling, use and disposal of their product/ by-products conform to practices consistent with sound environment management and local statutes. The Vendor shall ensure that all the wastes are disposal in environmental friendly way with strict compliance to applicable laws including adherence to MoEF guidelines with respect to the disposal of batteries, lead waste, copper cables, ash, waste oil, e-waste etc. which shall be disposed through MoEF approved parties only. The vendor shall also dispose-off the e-waste generated at the end of the product life cycle at its own costs and risk as per the MoEF guidelines/ Orders

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 TPNODL/Consultants shall not in any way relieve the Associate from his responsibility and executing the works in accordance with the terms of contract.

10.2 Material/Equipment/Works Quality

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

10.3 Adherence to Rules & Regulations

The Associate shall procure and/or fabricate/erect all materials and equipment in accordance with all requirements of Central and State enactment, rules and regulations governing such work in India and at site. This shall not be construed as relieving the

Associate from complying with any requirement of TPNODL 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 TPNODL. It is the sole responsibility of the Associate, however, to determine that such variance exists. Wherever required by rules and regulations, the Associate shall also obtain the statutory authorities' approval for the plant, machinery and equipment to be supplied by the Associate.

10.4 Specifications and Standards

The Associate shall follow all codes and standards referred in the Contract Document. Codes and standards of other may be followed by the Associate with the prior written approval of TPNODL, 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 TPNODL. All such products and equipment shall be used or installed in strict accordance with original manufacturer's recommendations, unless otherwise directed by the TPNODL. In any circumstances the codes, specimen and standards prescribed by any government agency should not be violated.

11.0 INSPECTION/PARTICIPATION

11.1 Right to Carry Out Inspection

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

- During basic design and detail engineering of material/ Equipment carried out by Associate /Outsourced Agencies.
- During manufacturing stages of the product at Associate's/Associate's Outsourced Agency's Plant/Facility.
- During Pre-dispatch Inspection and Testing of finished/manufactured product at Associate's/Associate's outsourced Agency's Plant/Facility.
- During Installation & Commissioning Activities/Stages.
- Prior to Clearing of the completed installation for commissioning.
- Any other stage as find appropriate by TPNODL during contract execution time.

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

MDCC request shall be submitted by BA to TPNODL at least 7 days before inspection date.

11.2 Facilitating Inspection

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

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

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

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

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

11.3 Third Party Nomination

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

11.4 Waiver of Inspections

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

11.5 Incorrect Inspection Call

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

12.0 MDCC & DELIVERY OF MATERIALS

12.1 Material Dispatch Clearance Certificate

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

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

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

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

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

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

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

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

Timelines for inspection and MDCC is as below:

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

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

12.2 Right to Rejection on Receipt

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

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

12.3 Consignee

Unless otherwise specified in the Contract Document, Materials/Goods/Equipment shall be consigned to “SDO (Elect.), Central Store, TPNODL, Sovarampur, Balasore, Odisha-756001”

12.4 Submission of mandatory documents on Delivery

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

| S. No. | Documents | Requisite |
|--------|--|--|
| 1 | Invoice copy in original | With all consignments |
| 2 | LR copy | Wherever required |
| 3 | Packing list | With all consignments |
| 4 | MDCC | With all consignments |
| 5 | Purchase order / Release order | Signed copy |
| 6 | Test certificates | With all consignments |
| 7 | Inspection/JVR report | In case pre-dispatch inspection is conducted |
| 8 | Device data in CD as per template for metering items | Wherever applicable |

12.5 Dispatch and Delivery Instructions

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

13.0 GUARANTEE

13.1 Guarantee of Performance

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

13.2 Guarantee Period

The Guarantee Period will be equipment/service/work specific and shall be as specified in the Standard Specifications of TPNODL 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 48 Months from the Date of Commissioning or 60 months from the date of delivery of final lot of supplies made, whichever is earlier.

13.3 Failure in Guarantee Period (GP)

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

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

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

13.4 Cost of repairs on failure in GP

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

13.5 Guarantee period for Goods Outsourced

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

13.6 Latent Defect

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

13.7 Support beyond the Guarantee Period

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

14.0 LIQUIDATED DAMAGES

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

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

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

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

14.1 LD Waiver Request

Any request of LD waiver shall be submitted within thirty (30) days of deducting LD. Request submitted beyond the timeline shall not be entertained. The TPNODL management will review on the LD Waiver Request on the facts and will decide about the LD Waiver which may be part or the % of the LD imposed, however the TPNODL's management decision will be full and final.

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

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 TPNODL shall not be published or disclosed to the third parties or taken out of the country without prior written approval of the TPNODL and upon execution of confidentiality agreements satisfactory to the TPNODL 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. TPNODL 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 TPNODL. 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 TPNODL under the Contract shall be passed on to the TPNODL. The TPNODL shall have the right to use these for construction, erection, start-up, Trial Run, operation, maintenance, modifications and/or expansion of the works including for the manufacture of spare parts.

16.4 Exclusions

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

- Which at the time of disclosure are in the public domain which later on become part of public domain through no fault of the party concerned, or
- Which were in the possession of the party concerned prior to disclosure to him by the other party, or

- Which were received by the party concerned after the time of disclosure without restriction on disclosure or use, from a third party who did not acquire such information directly or indirectly from the other party or has no obligation of confidentiality for such information.

16.5 Violation

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

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

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

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

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

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

19.2 Limitation of Liability

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

20.0 FORCE MAJEURE

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

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

- Act of war (whether declared or undeclared), invasion, armed conflict or act of foreign enemy, embargo, blockade, revolution, riot, bombs, religious strife or civil commotion 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 Connivance

TPNODL 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 executed by Associate under the contract by providing to the Associate at least two business days written notice for contracts having contract completion period less than sixty days and at least seven business days' notice for all other contracts.

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

- Immediately discontinue further supply of material/goods specified in the suspension notice for supply contracts
- Immediately discontinue further service/work and supply of materials of those services/materials/work specified in the suspension notice for service /composite contract
- Promptly make every reasonable effort to obtain suspension, upon terms satisfactory to TPNODL, 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 TPNODL, 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.

TPNODL shall suspend execution of whole/or part thereof the contract till such time Associate complies with the conditions stipulated under section clause 22.1 for breach/default of contract conditions.

21.3 Compensation in lieu of Suspension

If the suspension of the contract in whole or in part is for convenience of TPNODL and not due to any breach of contract conditions by the associate, TPNODL 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 TPNODL.

If the suspension of contract in whole or part thereof is due to breach of contract conditions (refer clause 22.1) by the Associate, Associate shall not be entitled for any compensation for any cost incurred in lieu of suspension of whole or part of contract and also shall be liable for compensating all the losses arising to TPNODL in lieu of suspension of contract. Resumption notice shall be subject to the Associate taking corrective action for the breach of contract conditions within the time frame and as per the terms specified in the suspension notice.

22 TERMINATION OF CONTRACT

22.1 Termination for Default/Breach of Contract

The contract / PO /RC shall be subject to termination by TPNODL 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 TPNODL and within the timeframe as specified in the contract document or refusal or neglect to execute the services/work in terms of the agreed standards of quantity or quality and/or within the timeframe specified in the contract/PO.

- c. Failure in any respect to perform any portion of the Work contracted with promptness, diligence, or in accordance with the terms of the contract.
- d. Failure to furnish guarantees as specified and /or failure to comply with the terms thereof.
- e. Failure to furnish such relevant documents or information within the time specified which may be necessary for due execution / completion of the works and documentation.
- f. Liquidation, bankruptcy either voluntary or involuntary OR entering into any composition or compromise with its creditors, or Insolvency.
- g. In case any reasonable information has been received by TPNODL 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 TPNODL.

If the default or breach as specified under clause 22 (except sub clause g thereof) be committed by the associate for the first time, TPNODL 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 TPNODL then TPNODL may terminate the entire or part of contract at its discretion by issuing termination notice without incurring any liability on this ground.

In case the contract is terminated for any breach of the nature specified in clause 22 g stated above, TPNODL shall have the right to terminate all the contracts TPNODL is having with the Associate by issuing termination notice which shall be without prejudice to the other rights of TPNODL available to it under law.

Without prejudice to its right to terminate for breach of contract, TPNODL 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 TPNODL having preceded with termination of the contract the associate shall comply and proceed further in the following manner:

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

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

- 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 TPNODL 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 TPNODL 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 TPNODL 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 TPNODL 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 TPNODL 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, TPNODL 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 TPNODL 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 TPNODL 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 TPNODL against the amount recoverable from him on this ground. The same shall be without prejudice to other rights available to TPNODL 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, TPNODL shall be entitled to bar the associates its agents, affiliates from undertaking any negotiation / tendering, bidding, participation activities concerning TPNODL for a period of two years from date of such termination. The same shall be without prejudice to other rights available to TPNODL.

22.2 Termination for Convenience of Associate

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

22.3 Termination for Convenience of TPNODL

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

23.1 Governing Laws and Jurisdiction

The parties shall be subject to the jurisdiction of the courts of law in Balasore & the writ jurisdiction of Hon'ble High Court of Odisha at Cuttack and any matter arising here from shall be subject to applicable law in force in India.

24.0 ATTRIBUTES OF GCC

24.1 Cancellation

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

24.2 Severability

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

24.3 Order of Priority

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

25.0 ERRORS AND OMISSIONS

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

26.0 TRANSFER OF TITLES

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

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

27.0 INSURANCE

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

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



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- f) The policy shall ensure that the TPNODL's decision regarding replacement of goods damaged, lost or rendered unusable shall be final.

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

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

28.0 SUGGESTIONS & FEEDBACK

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

You may send your feedback by filling up our Business Associate Feedback Form enclosed herewith as *Annexure-I*. You can also provide your feedback to E-Mail at sunil.bhattar@tpnodl.com

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

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

29.0 CONTACT POINTS

In case Business Associate needs information with respect to payments or has any grievances, same may be E-Mail to Chandan.bhatnagar@tpnodl.com

30.0 LIST OF ANNEXURES

| S. No. | Subject | Annexure |
|--------|---|----------|
| 1. | Performa for Bid Security Bank Guarantee | A |
| 2. | Performa for Performance Bank Guarantee (CP cum EP) | B |
| 3. | Performa for No Demand Certificate by Associate | C |
| 4. | Performa For Application For Issuance of Consolidated TDS Certificate | D |
| 5. | Business Associate Feedback Form | E |
| 6. | Acceptance Form For Participation In Reverse Auction Event | F |
| 7. | Form for RTGS Payment | G |
| 8. | Vendor Appraisal Form | H |
| 9. | Manufacturer Authorization Form | I |
| 10. | Tata Code of Conduct | J |



ANNEXURE-A

PROFORMA FOR BID SECURITY BANK GUARANTEE

TP Northern Odisha Distribution Limited

Balasore

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 Northern Odisha Distribution Limited (TPNODL) in the sum of for which payment well and truly to be made to the TPNODL 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 Performa of Bid

Or

ii) If the Bidder having been notified of the acceptance of his Bid by the TPNODL 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 TPNODL up to the above amount upon receipt of its first written demand, provided that in its demand the TPNODL 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 up to 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) |

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 Northern Odisha Distribution Limited

Balasore

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 3% 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

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

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 Balasore branch and claim will also be payable at Balasore Branch (to be confirmed by Balasore Branch by a letter to that effect in case BG is from the branch outside Balasore)
9. Notwithstanding anything herein contained, our liability under this guarantee is limited to Rs. _____ (Rupees _____) only and the guarantee will remain in force up to 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 TPNODL 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 TPNODL, in respect of our aforesaid Order No _____ dated _____ including amendments, if any, issued by TPNODL to our entire satisfaction and we further confirm that we have no claim whatsoever pending with TPNODL 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 TPNODL, 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 APPLICATION FOR ISSUANCE OF CONSOLIDATED TDS
CERTIFICATE**

To be printed on the letterhead

To,

TP Northern Odisha Distribution Limited,

Balasore

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

Dear Sir,

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

For and on behalf of

Signature

Name

Address

Contact No. (Land Line)

(Mobile)

PAN #

Assessing authority

ATTACH THE COPY OF PAN CARD



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ANNEXURE-E

BUSINESS ASSOCIATE FEEDBACK FORM

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

You are associated with us as

| | | | | | | | |
|------|--|--------------------|--|---------------------|--|------------------------------|--|
| OEMs | | Service Contractor | | Material Contractor | | Material & Manpower Supplier | |
|------|--|--------------------|--|---------------------|--|------------------------------|--|

You are associated with us for

| | | | | | |
|------------------|--|---|--|----------------------|--|
| Less than 1 Year | | More than 1 Year but less than 18 Monthss | | More than 18 Monthss | |
|------------------|--|---|--|----------------------|--|

Your office is located at

| | | | | | |
|----------|--|------------------------------|--|---------------------------------|--|
| Balasure | | Within 200 Kms from Balasure | | More than 200 Kms from Balasure | |
|----------|--|------------------------------|--|---------------------------------|--|

Your nearly turnover with TPNODL

| | | | | | |
|-------------------|--|--------------------|--|-------------------|--|
| Less than 25 Lacs | | 25 Lacs to 1 Crore | | More than 1 Crore | |
|-------------------|--|--------------------|--|-------------------|--|

Additional information

| | |
|--------------------------|--|
| Your Name | |
| Your Designation | |
| Your Organization | |
| Contact Nos. | |
| Email | |

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

SECTION - A

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

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

| S. No. | Parameters | 1 | 2 | 3 | 4 | 5 | Remarks/ Suggestion |
|--------|--|--------------|-----------------------|-------------------|---------------------|-------------|------------------------|
| | | Do Not Agree | Slightly in Agreement | In Fair Agreement | Mostly in Agreement | Fully Agree | |
| | support for timely and quality completion of work (including AMC) | | | | | | |
| 10 | TPNODL Engineer-in-Charge timely certifies the jobs executed/ material supplied | | | | | | |
| 11 | TPNODL Engineer-in-Charge efficiently supervises the job execution for timely completion of job | | | | | | |
| 12 | Are you satisfied with the overall payment release mechanism of TPNODL | | | | | | |
| 13 | Our approach for Inspection and Quality Assurance effective to expedite project completion? | | | | | | |
| 14 | TPNODL never defaults on contractual terms | | | | | | |
| 15 | In TPNODL 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 | TPNODL Employees follow Ethical behavior | | | | | | |

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 TPNODL employees you interact with from following team? | | | | | | |
| 1.1 | Project Engineering | | | | | | |
| 1.2 | Circle / Division | | | | | | |
| 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 TPNODL in comparison to your other clients in terms of fairness of treatment and transparency with its Business Associates? | | | | | | |
| 3 | How would you rate TPNODL in comparison to your other clients in terms of processes and systems to manage partnership with its Business Associates | | | | | | |
| 4 | How would you rate TPNODL in comparison to your other clients in terms of building long term & mutually relationship with its Business Associates | | | | | | |

SECTION - C

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

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

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

SECTION – E

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

Please spare your thoughts for TPNODL'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 TPNODL to adopt. Please give your valuable salient recommendations.

Please spare your thoughts for TPNODL'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 TPNODL) | <i>Timely payment</i> | |
| 1 | <i>Flexibility in Contracts/PO</i> | |
| | <i>Clarity in PO,s & Contracts</i> | |
| 2 | <i>Timely response to quarries</i> | |
| | <i>Timely certification of works executed</i> | |
| 3 | <i>Clarity in Specs, drawings, other docs etc.</i> | |
| | <i>Adequate information provided on website for tender notification, parties qualified etc.</i> | |
| 4 | <i>Timely receipt of material at site for execution</i> | |
| | <i>Performance Guarantee/EMD released in time</i> | |
| 5 | <i>Inspection & quality assurance support for timely job completion</i> | |

We thank you for your time and courtesy!!



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ANNEXURE - F

ACCEPTANCE FORM FOR PARTICIPATION IN REVERSE AUCTION EVENT

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

In a bid to make our entire procurement process more fair and transparent, TPNODL 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. TPNODL 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. TPNODL will make every effort to make the bid process transparent. However, the award decision by TPNODL would be final and binding on the supplier.
3. The bidder agrees to non-disclosure of trade information regarding the purchase, identity of TPNODL, 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 TPNODL.
6. In case of intranet medium, TPNODL shall provide the infrastructure to bidders. Further, TPNODL 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 TPNODL.
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 TPNODL 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 TPNODL.
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 - G

To,
 Drawing & Disbursing Officer
 TP Northern Odisha Distribution Limited
 Balasore

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 :

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|

Name & Address of Bank :

Bank Contact Person's Names :

Bank Tele Numbers with STD Code :

Bank Branch MICR Code :

| | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|

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

Bank Branch IFSC Code :

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|

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

Email Address of accounts person (to send payment information) :



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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 TPNODL well in time at our own. Further, we kept TPNODL indemnified for any loss incurred due to wrong furnishing of above information.

Thanking you,

For _____

(Authorised Signatory)

(Signature with Rubber Stamp)

Certification from Bank:

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

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

(Manager's/ Officers Signature under Bank Stamp)

ANNEXURE-H
VENDOR APPRAISAL FORM

| | | | |
|--|--|---|---|
| TO BE SUBMITTED BY VENDOR (To be filled as applicable) | | | |
| Part A | | | |
| 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 | |
| | 1.5 | CONTACT DETAIL OF BA's REPRESENTATIVE NAME E-MAIL ID CELL NO. | |
| | 1.6 | LOCATION OF MANUFACTURING UNITS | : |
| | | i) UNITS 1 | : |
| | | ii) OTHER UNITS | : |
| 2.0 | PRODUCTS / SERVICES BEING OFFERED | | |
| 3.0 | TURNOVER DURING THE LAST 18 MonthsS (TO BE VERIFIED WITH THE LATEST PROFIT & LOSS STATEMENT). | | |
| 4.0 | AVALABILITY OF STATUTORY DOCUMENTS I.E. COPY OF PAN CARD | | |
| 5.0 | AVALABILITY OF STATUTORY DOCUMENTS I.E. COPY OF GST REGISTRATION | | |
| 6.0 | BA BELONGS TO AA COMMUNITY (SC/ST) | | |
| 7.0 | DOCUMENTS VERIFYING ADDRESS PROOF (SUPPORTED BY ANY GOVT. ISSUED DOCUMENT) | | |
| 8.0 | TECHNICAL | | |
| | 8.1 | NO.OF DESIGN ENGINEERS (INDICATE NO.OF YEARS EXPERIENCE IN RELATED FIELDS) | : |
| | 8.2 | NO.OF DRAUGHTSMEN | : |
| | 8.3 | COLLABORATION DETAILS (IF ANY) | : |
| | | 8.3.1 DATE OF COLLABORATION | : |

| | | | |
|-------------|---------------------------------------|---|---|
| | | 8.3.2 NAME OF COLLABORATOR | : |
| | | 8.3.3 RBI APPROVAL DETAILS | : |
| | | 8.3.4 EXPERIENCE LIST OF COLLABORATOR | : |
| | | 8.3.5 DURATION OF AGREEMENT | : |
| | 8.4 | AVAILABILITY OF STANDARDS / DESIGN PROCEDURES / COLLABORATOR'S / DOCUMENTS (CHECK WHETHER THESE ARE LATEST/CURRENT | : |
| | 8.5 | TECHNICAL SUPPORT, BACK-UP GUARANTEE, SUPERVISION, QUALITY CONTROL BY COLLABORATOR (WHEREVER ESSENTIAL). (THIS CLAUSE IS RELEVANT WHEN VENDOR'S EXPERIENCE IS INADEQUATE) | : |
| | 8.6 | QUALITY OF DRAWINGS | : |
| 9.0 | MANUFACTURE | | |
| | 9.1 | SHOP SPACE, LAYOUT LIGHTING, VENTILATION, ETC. | : |
| | 9.2 | POWER (KVA) | : |
| | | MAINS INSTALLED | : |
| | | UTILISED | : |
| | | STANDBY POWER SOURCE | : |
| | 9.3 | MANUFACTURING FACILITIES (ATTACH LIST OF EQUIPMENTS AS APPLICABLE) | : |
| | | 10.3.1 MATERIAL HANDLING | : |
| | | 10.3.2 MACHINING | : |
| | | 10.3.3 FABRICATION | : |
| | | 10.3.4 HEAT TREATMENT | : |
| | | 10.3.5 BALANCING FACILITY | : |
| | | 10.3.6 SURFACE TREATMENT PRIOR TO PAINTING/ COATING, POLISHING, PICKLING, PASSIVATION, PAINTING, ETC. | : |
| | 9.4 | SUPERVISORY STAFF | : |
| | 9.5 | ADEQUACY OF SKILLED LABOURS (MACHINISTS, WELDERS, ETC.) | : |
| | 9.6 | NO. OF SHIFTS | : |
| | 9.7 | TYPE OF MATERIAL HANDLED (SUCH AS CS, SS, ETC.) | : |
| | 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 RECOGNISED LABORATORIES | : |
| | i) FURNISH LIST OF TESTS CARRIED OUT AND THE NAME OF THE LABORATORY WHERE THE TESTS WERE CONDUCTED | : |
| | ii) CHECK AVAILABILITY OF CERTIFICATES AND REVIEW THESE WHEREVER POSSIBLE | : |
| 11.0 | EXPERIENCE (INCLUDING CONSTRUCTION / ERECTION / COMMISSIONING) TO BE FURNISHED IN THE FORMAT INDICATED IN APPENDIX) | : |
| 12.0 | SALES, SERVICE AND SITE ORGANISATIONAL 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 | : |
| Part C Supporting Documents | | |

| | | |
|------|--|--|
| 18.0 | <p>DOCUMENTS TO BE ENCLOSED:</p> <ol style="list-style-type: none"> 1. Factory License 2. ISO Certificate 3. Registration of Central Excise 4. Income Tax Clearance. 5. PF Registration 6. ESI Registration 7. Insurance for Workman Compensation Act No. 8. Electrical Contract LIC No. 9. PAN No. 10. GST Registration 11. WC Tax Registration 12. Organogram of Co. having organogram of Design, safety, quality, production and other teams. 13. Details of subscription of BIS, IEC, IEE, ASTM or other. 14. Details of the team in Design, Quality, Safety, Production. 15. List of manufacturing equipment as per Part C. 16. List of calibrated equipment as per Part C. 17. List of clients and order executed in past two years. 18. Complaint escalation matrix. 19. Performance Certificates of same product from Minimum two utilities. 20. e-Payment Form as per enclosed Annexure-G | |
|------|--|--|

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

- **Proprietorship/ Single Ownership Firm:** Proprietor of the firm should be from SC/ST community. Governing document shall be Proprietorship Deed.
- **Partnership Firm:** Only such firms shall qualify which have SC/ST partners holding equal to or more than 50% of the total ownership pattern of the firm. Governing document shall be Partnership Deed.
- **Private Limited Company:** Only such firms shall qualify which have SC/ST directors holding equal to or more than 50% of the total ownership pattern of the firm. Governing document shall be Memorandum of Understanding (MoU) and/or Article of Association (AoA).
- The relaxation available for BAs under SC / STs shall be as per GCC for Tender Fees, EMD, PBG and Turnover criteria.

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

Annexure-G (e-Payment detail form) must be filled by Associate along with this form.



NIT No.: TPNODL/OT/2021-22/023 Dtd.07.07.21

ANNEXURE-I

MANUFACTURER AUTHORIZATION FORM

(To be submitted on OEM's Letter Head)

Date:

Tender Enquiry No.:

To,
H.O.D (Contracts)
TP Northern Odisha Distribution Ltd,
Balasore, Odisha

Sir,

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

..... and to subsequently negotiate and sign the Contract.

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

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

Yours Sincerely,

For

Authorized Signatory

Annexure-J

TATA CODE OF CONDUCT (TCoC)

Introducing Tata Code of Conduct (TCoC) in GCC, the following clause is proposed for inclusion as per suggestions from Chief Ethics Counsellor -

“TCoC is the overarching policy framework that applies to all TATA Group companies including TPNODL. TCoC provides for stakeholder-wise approach in each of the seven chapters.

The chapter “Our Value Chain Partners” states the policy as follows:

1. We shall select our suppliers and service providers fairly and transparently.
2. 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.
3. 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.
4. 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.
5. We respect our obligations on the use of third party intellectual property and data.

To effectively implement TCoC, there shall be a 3-tier framework comprising of Ethics Management Apex Team headed by the CEO, who is also the Principal Ethics Officer (PEO), TPNODL; Locational Ethics Counsellors (LECs) who cover various locations/offices of TPNODL; and LECs are assisted by 4-5 Ethics Champions (ECs).

In case any Ethical Concern is faced during the course of your business dealings with TPNODL, one may e mail at: ceooffice@tpnodl.com

TPNODL is committed to follow Core Values and Core Principles mentioned in TCoC, cited below, in carrying out various activities as well as in discharge of bi-lateral and multi-lateral obligations involving other entities/organizations:

Core Values:

All six core values are already mentioned in GCC.

Core Principles:

1. **Zero tolerance to bribery or corruption** in any form.
2. Committed to **good corporate citizenship**
3. Contribute to the **economic development of the communities** of the countries & regions we operate in.
4. No compromise on **Safety**
5. Our conduct shall be **fair & transparent**

6. Respect the **human rights & dignity** of our stakeholders
7. **No unfair discrimination** of any kind
8. Statements made to stakeholders shall be **truthful** & made in **good faith**
9. Not engage in any restrictive or **unfair trade practice**
10. Provide avenues for our stakeholders to **raise concerns in good faith**
11. Environment **free from fear** of retribution to deal with concerns that are raised
12. Expect the leaders to be **role model**
13. **Comply with the laws** of the countries in which we operate

Gift Policy:

Principles for acceptance of gifts/benefits –

A gift or benefit may be accepted only if it complies with all of the following principles:

- ✓ it does not influence,
- ✓ does not have the potential to influence, an employee in such a way as to compromise or appear to compromise integrity and impartiality
- ✓ does not create a conflict of interest or perception of conflict of interest;

Principles for non-acceptance of gifts/benefits -

The gift or benefit may not be accepted or given if any of the following principles apply:

- ✓ causes the recipient or donor **to act in partial manner** in the course of duty
- ✓ apprehension of the recipient becoming **obligated to the donor**
- ✓ it is **not offered openly**
- ✓ if is an **offer of money** or something readily convertible to money (e.g. Shares)

Violation –

1. Not abiding with this policy would constitute violation of “Our Employees” Stakeholder group Clause “Gifts and Hospitality” of the Tata Code of Conduct (TCoC) 2015. Prompt action will be taken against violations.
2. Any deviation from this policy must be supported by appropriate rationale and must be duly approved by CEO who is also the Principal Ethics Officer. In any case, in dealing with such deviations, the spirit of the TCoC should in no case be compromised.
3. If it is determined that an employee / associate has violated this policy, appropriate action including termination of the employee’s / associate’s employment or association with TPNODL may be decided upon.



NIT No.: TPNODL/OT/2021-22/023 Dtd.07.07.21

Annexure VIII

Inspection Test Plan

NA

ANNEXURE IX
TATA CODE OF CONDUCT

The Owner abides by the Tata Code of Conduct in all its dealing with stake holders and the same shall be binding on the Owner and the Contractor for dealings under this Order/ Contract. A copy of the Tata Code of Conduct is available a tour website:

<https://www.tatapower.com/pdf/aboutus/Tata-Code-of-Conduct.pdf>

The Contractor is requested to bring any concerns regarding this to the notice of our Chief-Contracts & Material Management e-mail sunil.bhattar@tpnodl.com.

ANNEXURE X ENVIRONMENT & SUSTAINABILITY POLICY



CORPORATE ENVIRONMENT POLICY

Tata Power is committed to a clean, safe and healthy environment, and we shall operate our facilities in an environmentally sensitive and responsible manner. Our commitment to environmental protection and stewardship will be achieved by:

- Complying with the requirements and spirit of applicable environmental laws and striving to exceed required levels of compliance wherever feasible
- Ensuring that our employees are trained to acquire the necessary skills to meet environmental standards
- Conserving natural resources by improving efficiency and reducing wastage
- Making business decisions that aim towards sustainable development
- Engaging with stakeholders to create awareness on sustainability

(Praveer Sinha)
CEO & Managing Director

Date: 15th June, 2018

TATA POWER
Lighting up Lives!





CORPORATE SUSTAINABILITY POLICY

At Tata Power, our Sustainability Policy integrates economic progress, social responsibility and environmental concerns with the objective of improving quality of life. We believe in integrating our business values and operations to meet the expectations of our customers, employees, partners, investors, communities and public at large

- We will uphold the values of honesty, partnership and fairness in our relationship with stakeholders
- We shall provide and maintain a clean, healthy and safe working environment for employees, customers, partners and the community
- We will strive to consistently enhance our value proposition to the customers and adhere to our promised standards of service delivery
- We will respect the universal declaration of human rights, International Labour Organization's fundamental conventions on core labour standards and operate as an equal opportunities employer
- We shall encourage and support our partners to adopt responsible business policies, Business Ethics and our Code of Conduct Standards
- We will continue to serve our communities:
 - By implementing sustainable Community Development Programmes including through public/private partnerships in and around our area of operations
 - By constantly protecting ecology, maintaining and renewing bio-diversity and wherever necessary conserving and protecting wild life, particularly endangered species
 - By encouraging our employees to serve communities by volunteering and by sharing their skills and expertise
 - By striving to deploy sustainable technologies and processes in all our operations and use scarce natural resources efficiently in our facilities
 - We will also help communities that are affected by natural calamities or untoward incidence, or that are physically challenged in line with the Tata Group's efforts

The management will commit all the necessary resources required to meet the goals of Corporate Sustainability.

(Praveer Sinha)
CEO & Managing Director

Date: 15th June, 2018

TATA POWER
Lighting up Lives!



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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 TPNODL, 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 TPNODL and through printed declarations in all concerned documents where external stakeholders are involved.
3. Ensure proper framework of policies as preventive measures against any ethics violation recorded by them.
4. Prepare and submit MIS of all issues and concerns, corrective and preventive actions on monthly basis to the top management for their information.

All Associates and Stakeholders are Requested to register any grievance on ethics violation on our website www.tpnodl.com

| | | |
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3.0 CONTRACT PARAMETERS

3.1 Issue/Award of Contract

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

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

3.2 Contract Commencement Date

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

3.3 Contract Completion Date

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

3.4 Contract Period/Time

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

3.5 Contract Execution Completion Date

The stipulated date for completing the supply as per schedule of quantities shall be deemed as the Contract Execution Completion Date.


3.6 Contract Price /Value

The total all inclusive price/value mentioned in the PO/RC is the Contract Price/Value and is based on the quantity, unit rates and prices quoted and awarded and shall be subject to adjustment based on actual quantities supplied and accepted and certified by the authorized representative of the company unless otherwise specified in schedule of quantities or in contract documents.

3.7 Contract Document

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

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

| | | |
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- Minutes of Meeting (MoM)

3.8 Contract Language

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

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

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

3.9 Reverse Auction

TPNODL reserves the right to conduct the reverse auction (instead of public opening of price bids) for the products / services being asked for in the tender. The terms and conditions for such reverse auction events shall be as per the Acceptance Form attached in Annexure F.


4.0 SCOPE OF WORK

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

The associate shall satisfy himself and undertake fully the technical/commercial requirements of items to be supplied as listed in the Schedule of Quantities together with the tests to be performed /test reports to be furnished before dispatch, arrangement of stage and final inspections during manufacturing as per terms and conditions of contract, technical parameters & delivery terms and conditions including transit insurance to be met in order to fully meet TPNODL's requirements.

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

TPNODL 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 TPNODL, provide Purchaser with a reasonably detailed estimate of the cost of the change outlined in the request.

| | | |
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In

the event, TPNODL 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 TPNODL.

5.0 PRICES/RATES/TAXES

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

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

The prices/rates shall remain firm till actual completion of entire supply of goods/material/equipment as per contract is achieved and shall remain valid till the completion of the contract.

The prices shall remain unchanged irrespective of TPNODL 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 TPNODL 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 TPNODL.

6.0 TERMS OF PAYMENT

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

- Test Reports (4 sets).
- MDCC issued by TPNODL.
- Packing List.
- Drawing and Catalogue.

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- Guarantee/Warrantee Card.
- Delivery Challan.
- O&M Manual.
- Copy of Order.
- Minutes of Meeting.

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

6.1 Quantity Variation

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

6.2 Full and Final Payment

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

7.0 MODE OF PAYMENT

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

8.0 SECURITY CUM PERFORMANCE DEPOSIT


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

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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 TPNODL. Alternatively, Associate may extend the validity of original SPBG only till the requisite period, i.e. Guarantee Period plus one month.

9.0 STATUTORY COMPLIANCE

9.1 Compliance to Various Acts

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


9.2 SA 8000

TPNODL 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

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

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

TPNODL 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 TPNODL 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 BAs under SC/ST shall be governed under following guidelines:

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


Governing document shall be Memorandum of Understanding (MoU) and/or Article of Association (AoA).

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

10.0 QUALITY

10.1 Knowledge of Requirements

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

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10.2 Material/Equipment/Works Quality

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

10.3 Adherence to Rules & Regulations

The Associate shall procure and/or fabricate/erect all materials and equipment in accordance with all requirements of Central and State enactment, rules and regulations governing such work in India and at site. This shall not be construed as relieving the Associate from complying with any requirement of TPNODL 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 TPNODL. It is the sole responsibility of the Associate, however, to determine that such variance exists. Wherever required by rules and regulations, the Associate shall also obtain the statutory authorities' approval for the plant, machinery and equipment to be supplied by the Associate.

10.4 Specifications and Standards


The Associate shall follow all codes and standards referred in the Contract Document. Codes and standards of other may be followed by the Associate with the prior written approval of TPNODL, 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 TPNODL. All such products and equipment shall be used or installed in strict accordance with original manufacturer's recommendations, unless otherwise directed by the TPNODL. In any circumstances the codes, specimen and standards prescribed by any government agency should not be violated.

11.0 INSPECTION/PARTICIPATION

11.1 Right to Carry Out Inspection

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

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- During basic design and detail engineering of material/ Equipment carried out by Associate /Outsourced Agencies.
- During manufacturing stages of the product at Associate's/Associate's Outsourced Agency's Plant/Facility.
- During Pre-dispatch Inspection and Testing of finished/manufactured product at Associate's/Associate's outsourced Agency's Plant/Facility.
- During Installation & Commissioning Activities/Stages.
- Prior to Clearing of the completed installation for commissioning.
- Any other stage as find appropriate by TPNODL during contract execution time.

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

11.2 Facilitating Inspection


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

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

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

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

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

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11.3 Third Party Nomination

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

11.4 Waiver of Inspections

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

11.5 Incorrect Inspection Call

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

12.0 MDCC & DELIVERY OF MATERIALS

12.1 Material Dispatch Clearance Certificate

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

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

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

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

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

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

In

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

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

Timelines for inspection and MDCC is as below:

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

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

12.2 Right to Rejection on Receipt

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

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

12.3 Consignee

Unless otherwise specified in the Contract Document/ Purchase Order/ Release Order, Materials/ Goods/ Equipment shall be consigned to "Stores-In-Charge", TPNODL, Balasore

12.4 Submission of mandatory documents on Delivery

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

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

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


12.5 Dispatch and Delivery Instructions

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

13.0 GUARANTEE

13.1 Guarantee of Performance

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

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equipment/material is new and unused except for the usage required for the tests and checks required as part of quality assurance.

13.2 Guarantee Period

The Guarantee Period will be equipment/service/work specific and shall be as specified in the Standard Specifications of TPNODL 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 48 Months from the Date of Commissioning or 60 months from the date of delivery of final lot of supplies made, whichever is earlier.

13.3 Failure in Guarantee Period (GP)


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

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

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

13.4 Cost of repairs on failure in GP

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

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Associate has to ensure that the interruption in the usage of intended purpose of the equipment is minimized to the maximum extent In lieu of the time taken for repairs/rectification/replacement.

13.5 Guarantee period for Goods Outsourced

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

13.6 Latent Defect

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

13.7 Support beyond the Guarantee Period

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


14.0 LIQUIDATED DAMAGES

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

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

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

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

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14.1 LD Waiver Request

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

15.0 UNLAWFUL ACTIVITIES

The Associate shall have to ensure that none of its employees are engaged in any unlawful activities (whether covered under the scope of the present GCC or not) subversive of the TPNODL's interest failing which appropriate action (legal or otherwise) may be taken against the Associate by the TPNODL, 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 TPNODL in connection with the performance of the contract shall be held confidential by the Associate and shall remain the property of the TPNODL 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 TPNODL.

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

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

16.4 Exclusions

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

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

16.5 Violation

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


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

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 TPNODL shall arise in this respect, and any costs, damages, expenses, compensation payable by TPNODL 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 TPNODL 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 TPNODL is held liable for

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any court judgement. In this connection, the TPNODL shall pass on all claims made against him to the Associate for settlement.

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

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

TPNODL 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.

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20.0 FORCE MAJEURE

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

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

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

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

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

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


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

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

21.0 SUSPENSION OF CONTRACT

21.1 Suspension for Convenience

TPNODL 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 executed by Associate under the contract by providing to the Associate at least two business days written notice for contracts having contract

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completion period less than sixty days and at least seven business days' notice for all other contracts.

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

- Immediately discontinue further supply of material/goods specified in the suspension notice for supply contracts
- Immediately discontinue further service/work and supply of materials of those services/materials/work specified in the suspension notice for service /composite contract
- Promptly make every reasonable effort to obtain suspension, upon terms satisfactory to TPNODL, 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 TPNODL, 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.

TPNODL shall suspend execution of whole/or part thereof the contract till such time Associate complies with the conditions stipulated under section clause 22.1 for breach/default of contract conditions.

21.3 Compensation in lieu of Suspension

If the suspension of the contract in whole or in part is for convenience of TPNODL and not due to any breach of contract conditions by the associate, TPNODL 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 TPNODL.

If the suspension of contract in whole or part thereof is due to breach of contract conditions (refer clause 22.1) by the Associate, Associate shall not be entitled for any compensation for any cost incurred in lieu of suspension of whole or part of contract and also shall be liable for compensating all the losses arising to TPNODL 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.

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22 TERMINATION OF CONTRACT

22.1 Termination for Default/Breach of Contract

The contract / PO /RC shall be subject to termination by TPNODL 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 TPNODL and within the timeframe as specified in the contract document or refusal or neglect to execute the services/work in terms of the agreed standards of quantity or quality and/or within the timeframe specified in the contract/PO.
- c. Failure in any respect to perform any portion of the Work contracted with promptness, diligence, or in accordance with the terms of the contract.
- d. Failure to furnish guarantees as specified and /or failure to comply with the terms thereof.
- e. Failure to furnish such relevant documents or information within the time specified which may be necessary for due execution / completion of the works and documentation.
- f. Liquidation, bankruptcy either voluntary or involuntary OR entering into any composition or compromise with its creditors, or Insolvency.
- g. In case any reasonable information has been received by TPNODL 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 TPNODL.

If the default or breach as specified under clause 22 (except sub clause g thereof) be committed by the associate for the first time, TPNODL 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 TPNODL then TPNODL may terminate the entire or part of contract at its discretion by issuing termination notice without incurring any liability on this ground.

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case the contract is terminated for any breach of the nature specified in clause 22 g stated above, TPNODL shall have the right to terminate all the contracts TPNODL is having with the Associate by issuing termination notice which shall be without prejudice to the other rights of TPNODL available to it under law.


Without prejudice to its right to terminate for breach of contract, TPNODL 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 TPNODL having proceeded with termination of the contract the associate shall comply and proceed further in the following manner:

- a) Associate shall discontinue the supply, on the expiry of the said period of two weeks.
- b) Associate shall ensure that no further steps are being taken towards discharge of the obligations, terms and conditions as contained in the contract/PO. This shall include initiation of actions not limited to discontinuation of other allied and associated arrangements which the associate might have entered into with third parties for due discharge of its obligations under the contract with TPNODL.
- 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 TPNODL 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 TPNODL 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 TPNODL 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 TPNODL 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 TPNODL 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.

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the event of such termination, TPNODL 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 TPNODL 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 TPNODL 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 TPNODL against the amount recoverable from him on this ground. The same shall be without prejudice to other rights available to TPNODL 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 , TPNODL shall be entitled to bar the associates its agents , affiliates from undertaking any negotiation / tendering, bidding , participation activities concerning TPNODL for a period of two years from date of such termination. The same shall be without prejudice to other rights available to TPNODL.

22.2 Termination for Convenience of Associate

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

22.3 Termination for Convenience of TPNODL


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

23.1 Governing Laws and Jurisdiction

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

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24.0 ATTRIBUTES OF GCC

24.1 Cancellation

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

24.2 Severability

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

24.3 Order of Priority

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

25.0 ERRORS AND OMISSIONS

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

26.0 TRANSFER OF TITLES


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

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

27.0 INSURANCE

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

- a) The value of the policy shall cover the total value of all the items till they are handed over to TPNODL.
- b) TPNODL shall be the principal holder of the policy. The Associate shall be the loss payee under the policy. Associate / Sub-contractor of the Associate shall not be holders or beneficiaries in the policy nor shall they be named in the policy. TPNODL reserves the exclusive right to assign the policy.

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- c) While the payment of premium may be phased in agreement with the insurance company, at no time shall goods and services required to be provided by the associate shall remain uninsured in accordance with (a) above.
- d) A copy of the Insurance policy shall be made available to TPNODL prior to first dispatch lot of any Equipment and policy shall be kept alive and valid at all times up to the stage of final acceptance.
- e) TPNODL reserves the right to take out whatever policy that is deemed necessary by him if the associate fails to keep the said policy alive and valid at all times and/or causes lapses in payment of premium thereby jeopardizing the said policy. The cost of such policy(s) shall be recovered / deducted from the amount payable to the associate.
- f) The policy shall ensure that the TPNODL's decision regarding replacement of goods damaged, lost or rendered unusable shall be final.

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

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

28.0 SUGGESTIONS & FEEDBACK

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

You may send your feedback by filling up our Business Associate Feedback Form enclosed herewith as *Annexure-E*. You can also log on to our website www.tpnodl.com to provide your feedback.

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

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


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29.0

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.tpnodl.com

30.0 LIST OF ANNEXURES

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

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ANNEXURE-A

PROFORMA FOR BID SECURITY BANK GUARANTEE

**The TP Northern Odisha Distribution Limited
Balasore**

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

KNOW ALL men by these presents we (Name of the Bank) _____ of (Name of the Country) _____ having our registered office at _____ (hereinafter called "the BANK) are bound unto The TP Northern Odisha Distribution Limited (TPNODL) in the sum of _____ for which payment well and truly to be made to the TPNODL 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 TPNODL 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 TPNODL up to the above amount upon receipt of its first written demand, provided that in its demand the TPNODL 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 up to 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

**The TP Northern Odisha Distribution
Limited Balasore**

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

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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 Balasore branch and claim will also be payable at Balasore Branch (to be confirmed by Balasore Branch by a letter to that effect in case BG is from the branch outside Balasore).
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 _____ 20____

Bank's rubber stamp

1. Banks full address

Designation of Signatory

2. Bank official number

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ANNEXURE-C

PROFORMA FOR “NO DEMAND CERTIFICATE” BY ASSOCIATE

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

(To be submitted by the Associate to TPNODL 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 TPNODL, in respect of our aforesaid Order No _____ dated _____ including amendments, if any, issued by TPNODL to our entire satisfaction and we further confirm that we have no claim whatsoever pending with TPNODL 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 TPNODL, with full knowledge and with our free consent without any undue influence, misrepresentation, coercion etc.

Place

Name

(Company Seal)

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ANNEXURE-D

PROFORMA FOR APPLICATION FOR ISSUANCE OF CONSOLIDATED TDS CERTIFICATE

To be printed on the letterhead

To,

The TP Northern Odisha Distribution Limited,

Balasore

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

ANNEXURE-E

BUSINESS ASSOCIATE FEEDBACK FORM

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

- Balasore Within 200 kms from Balasore More than 200 kms from Balasore

Your nearly turnover with TPNODL

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

Additional Information

| | |
|--------------------------|--|
| Your Name | |
| Your Designation | |
| Your Organization | |
| Contact Nos. | |
| Email | |

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

SECTION – A

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

| S. No. | Parameters | 1 | 2 | 3 | 4 | 5 | Remarks/ Suggestion |
|--------|--|--------------|-----------------------|-------------------|---------------------|-------------|------------------------|
| | | Do Not Agree | Slightly in Agreement | In Fair Agreement | Mostly in Agreement | Fully Agree | |
| 1 | You receive all relevant queries / tenders from us in timely manner. | | | | | | |
| 2 | We provide you enough lead time to respond to our queries / tenders. | | | | | | |
| 3 | We provide you adequate support (drawings, documents, clarifications, briefing etc.) to enable you meet our requirements. | | | | | | |
| 4 | All following elements of our contract / purchase order are rational : | | | | | | |
| 4.1 | Scope of Work | | | | | | |
| 4.2 | Delivery / Execution Schedule | | | | | | |
| 4.3 | Payment Terms | | | | | | |
| 4.4 | Liquidated Damages | | | | | | |
| 4.5 | Performance Guarantee | | | | | | |
| 5 | Our purchase orders / contracts are simple, specific & easy to understand | | | | | | |
| 6 | TPNODL demonstrate willingness to be flexible in administration of Contract / Purchase Order | | | | | | |
| 7 | We provide timely responses / clarifications to your queries | | | | | | |
| 8 | TPNODL representative you interact / coordinate with is adequately empowered to support you in meeting contractual obligations | | | | | | |
| 9 | TPNODL provide you all necessary infrastructure support for timely and quality completion of work (including AMC) | | | | | | |
| 10 | TPNODL Engineer-in-Charge timely certifies the jobs executed/ material supplied | | | | | | |
| 11 | TPNODL 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* (under development) | | | | | | |

| S. No. | Parameters | 1 | 2 | 3 | 4 | 5 | Remarks/ Suggestion |
|--------|--|--------------|-----------------------|-------------------|---------------------|-------------|------------------------|
| | | Do Not Agree | Slightly in Agreement | In Fair Agreement | Mostly in Agreement | Fully Agree | |
| 13 | Our approach for Inspection and Quality Assurance effective to expedite project completion? | | | | | | |
| 14 | TPNODL never defaults on contractual terms | | | | | | |
| 15 | In TPNODL 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 | TPNODL Employees follow Ethical behaviour | | | | | | |

SECTION - B

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

| S. No. | Parameters | 1 | 2 | 3 | 4 | 5 | Remarks/ Suggestion |
|--------|---|---|---|---|---|---|------------------------|
| 1 | How do you rate courtesy/ empathy/ attitude level and warmth of TPNODL 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 TPNODL in comparison | | | | | | |

| | | | | | | | |
|---|--|--|--|--|--|--|--|
| | to your other clients in terms of fairness of treatment and transparency with its Business Associates? | | | | | | |
| 3 | How would you rate TPNODL in comparison to your other clients in terms of processes and systems to manage partnership with its Business Associates | | | | | | |
| 4 | How would you rate TPNODL in comparison to your other clients in terms of building long term & mutually relationship with its Business Associates | | | | | | |

SECTION – C

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

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

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

SECTION – E

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

| | | |
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Please spare your thoughts for TPNODL'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 TPNODL to adopt. Please give your valuable salient recommendations.

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

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

We thank you for your time and courtesy!!

| | | |
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ANNEXURE-F

ACCEPTANCE FORM FOR PARTICIPATION IN REVERSE AUCTION EVENT

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

In a bid to make our entire procurement process more fair and transparent, TPNODL 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. TPNODL 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. TPNODL will make every effort to make the bid process transparent. However, the award decision by TPNODL would be final and binding on the supplier.
3. The bidder agrees to non-disclosure of trade information regarding the purchase, identity of TPNODL, 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 TPNODL.
6. In case of intranet medium, TPNODL shall provide the infrastructure to bidders. Further, TPNODL has sole discretion to extend or restart the auction event in case of any glitches in infrastructure observed which has restricted the bidders to submit the bids to ensure fair & transparent competitive bidding. In case an auction event is restarted, the best bid as already available in the system shall become the start price for the new auction.
7. In case the bidder fails to participate in the auction event due any reason whatsoever, it shall be presumed that the bidder has no further discounts to offer and the initial bid as submitted by the bidder as a part of the tender shall be considered as the bidder's final no regret offer. Any offline price bids received from a bidder in lieu of non-participation in the auction event shall be out rightly rejected by TPNODL.
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 TPNODL 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 TPNODL.
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-G

To,

DGM (Finance)
The TP Northern Odisha Distribution Limited
Balasore

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 :

| | | | | | | | | | | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| | | | | | | | | | | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|

Name & Address of Bank :

Bank Contact Person's Names :

Bank Tele Numbers with STD Code :

Bank Branch MICR Code :

| | | | | | | | | | | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| | | | | | | | | | | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|

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

Bank Branch IFSC Code :

| | | | | | | | | | | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| | | | | | | | | | | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|

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

Email Address of accounts person: (to send payment information) :

| | | |
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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 TPNODL well in time at our own. Further, we kept TPNODL indemnified for any loss incurred due to wrong furnishing of above information.

Thanking you,

For _____

(Authorised Signatory)

(Signature with Rubber Stamp)

Certification from Bank:

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

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

(Manager's/ Officers Signature under Bank Stamp)

| | | |
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ANNEXURE-H
VENDOR APPRAISAL FORM

| TO BE SUBMITTED BY VENDOR (To be filled as applicable) | | | |
|---|---|--|---|
| VENDOR: | | | |
| 1.0 | DETAILS OF THE FIRM | | |
| | 1.1 | NAME (IN CAPITAL LETTERS) | : |
| | 1.2 | TYPE OF CONCERN (PROPRIETARY) Partnership, Pvt. Ltd., Public Ltd. etc. | : |
| | 1.3 | YEAR OF ESTABLISHMENT | : |
| | 1.4 | LOCATION OF OFFICE POSTAL ADDRESS TELEGRAPHIC ADDRESSES, TELEX NO. FAX NO. | : |
| | 1.5 | LOCATION OF MANUFACTURING UNITS | : |
| | | i) UNITS 1 | : |
| | | ii) OTHER UNITS | : |
| 2.0 | PRODUCTS MANUFACTURED | | |
| 3.0 | TURNOVER DURING THE LAST 3 YEARS (TO BE VERIFIED WITH THE LATEST PROFIT & LOSS STATEMENT). | | |
| 4.0 | VALUE OF FIXED ASSETS | | |
| 5.0 | NAME & ADDRESS OF THE BANKERS | | |
| 6.0 | BANK GUARANTEE LIMIT | | |
| 7.0 | CREDIT LIMIT | | |
| 8.0 | TECHNICAL | | |
| | 8.1 | NO. OF DESIGN ENGINEERS (INDICATE NO. OF YEARS EXPERIENCE IN RELATED FIELDS) | : |
| | 8.2 | NO. OF DRAUGHTS MEN | : |
| | 8.3 | COLLABORATION DETAILS (IF ANY) | : |
| | | 8.3.1 DATE OF COLLABORATION | : |
| | | 8.3.2 NAME OF COLLABORATOR | : |
| | | 8.3.3 RBI APPROVAL DETAILS | : |
| | | 8.3.4 EXPERIENCE LIST OF COLLABORATOR | : |
| | | 8.3.5 DURATION OF AGREEMENT | : |
| | 8.4 | AVAILABILITY OF STANDARDS / DESIGN PROCEDURES / COLLABORATOR'S / | : |

| | | |
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| | | | |
|-------------|---------------------------------------|---|---|
| | | DOCUMENTS (CHECK WHETHER THESE ARE LATEST/CURRENT | |
| | 8.5 | TECHNICAL SUPPORT, BACK-UP GUARANTEE, SUPERVISION, QUALITY CONTROL BY COLLABORATOR (WHEREVER ESSENTIAL). (THIS CLAUSE IS RELEVANT WHEN VENDOR'S EXPERIENCE IS INADEQUATE) | : |
| | 8.6 | QUALITY OF DRAWINGS | : |
| 9.0 | MANUFACTURE | | |
| | 9.1 | SHOP SPACE, LAYOUT LIGHTING, VENTILATION, ETC. | : |
| | 9.2 | POWER (KVA) | : |
| | | MAINS INSTALLED | : |
| | | UTILIZED | : |
| | | STANDBY POWER SOURCE | : |
| | 9.3 | MANUFACTURING FACILITIES (ATTACH LIST OF EQUIPMENT AS APPLICABLE) | : |
| | | 9.3.1 MATERIAL HANDLING | : |
| | | 9.3.2 MACHINING | : |
| | | 9.3.3 FABRICATION | : |
| | | 9.3.4 HEAT TREATMENT | : |
| | | 9.3.5 BALANCING FACILITY | : |
| | | 9.3.6 SURFACE TREATMENT PRIOR TO PAINTING/ COATING, POLISHING, PICKLING, PASSIVATION, PAINTING, ETC. | : |
| | 9.4 | SUPERVISORY STAFF | : |
| | 9.5 | ADEQUACY OF SKILLED LABOURS (MACHINISTS, WELDERS, ETC.) | : |
| | 9.6 | NO. OF SHIFTS | : |
| | 9.7 | TYPE OF MATERIAL HANDLED (SUCH AS CS, SS, ETC.) | : |
| | 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 | : |

| | | |
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|---------------|-------|--|---|
| | 10.3 | AVAILABILITY OF PROCEDURAL WRITE UP/QUALITY PLAN | : |
| | 10.4 | INCOMING MATERIAL CONTROL AND DOCUMENTATION | : |
| | 10.5 | RELIABILITY/REPUTATION OF SUPPLY SOURCES | : |
| | 10.6 | STAGE INSPECTION AND DOCUMENTATION | : |
| | 10.7 | SUB-ASSEMBLY & DOCUMENTATION | : |
| | 10.8 | FINAL INSPECTION AND DOCUMENTATION | : |
| | 10.9 | PREPARATION OF FINAL DOCUMENTATION PACKAGE | : |
| | 10.10 | TYPE TEST FACILITIES | : |
| | 10.11 | ACCEPTANCE TEST FACILITIES | : |
| | 10.12 | CALIBRATION OF INSTRUMENTS AND GAUGES (WITH TRACEABILITY TO NATIONAL STANDARDS) (ATTACH LIST) | : |
| | 10.13 | STATUTORY APPROVALS LIKE BIS, IBR, ETC.(AS APPLICABLE) | : |
| | 10.14 | SUB-VENDOR APPROVAL SYSTEM AND QUALITY CONTROL | : |
| | 10.15 | DETAILS OF TESTS CARRIED OUT AT INDEPENDENT RECOGNIZED LABORATORIES | : |
| | | i) FURNISH LIST OF TESTS CARRIED OUT AND THE NAME OF THE LABORATORY WHERE THE TESTS WERE CONDUCTED | : |
| | | ii) CHECK AVAILABILITY OF CERTIFICATES AND REVIEW THESE WHEREVER POSSIBLE | : |
| 11.0 | | EXPERIENCE (INCLUDING CONSTRUCTION / ERECTION / COMMISSIONING) TO BE FURNISHED IN THE FORMAT INDICATED IN APPENDIX) | : |
| 12.0 | | SALES, SERVICE AND SITE ORGANIZATIONAL DETAILS | : |
| 13.0 | | CERTIFICATE FROM CUSTOMERS (ATTACH COPIES OF DOCUMENTS) | : |
| 14.0 | | POWER SITUATION | : |
| 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: | : |

| | | |
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| | | |
|--|--|--|
| | <ol style="list-style-type: none"> 1. FACTORY LICENSE 2. ANNUAL REPORT FOR LAST THREE YEARS 3. TYPE TEST REPORT FOR THE ITEM 4. PAST EXPERIENCE REPORTS 5. ISO CERTIFICATE –QMS, EMS, OHAS, SA 6. REGISTRATION OF SALES TAX 7. COPY OF TIN NO. 8. COPY OF SERVICE TAX NO. 9. REGISTRATION OF CENTRAL EXCISE 10. COPY OF INCOME TAX CLEARANCE. 11. COPY OF PF REGISTRATION 12. COPY OF ESI REGISTRATION 13. COPY OF INSURANCE FOR WORK MAN COMPENSATION ACT NO 14. COPY OF ELECTRICAL CONTRACT LIC NO 15. COPY OF PAN NO 16. COPY OF WC TAX REGISTRATION 17. DOCUMENTS IN SUPPORT OF SC/ST RELAXATION AT S.NO.16.0 18. GSTN CERTIFICATE | |
|--|--|--|

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

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

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

| | | |
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ANNEXURE-I
MANUFACTURER AUTHORIZATION FORM

(To be submitted on OEM's Letter Head)

Date:

Tender Enquiry No.:

To,
Chief (Contracts & Stores)
The TP Northern Odisha Distribution Limited,
Balasore.

Sir,

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

.....and to subsequently negotiate and sign the Contract.

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

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

Yours Sincerely,

For

Authorized Signatory

| | | | |
|----------------|---|--------------|------------|
| Document Title | SPECIFICATION OF 11kV RING MAIN UNITS - 3W, 4W and 5 WAY | | |
| Document No. | | Eff. Date: | |
| Revision No. | 00 | Page 1 of 41 | |
| Prepared by: | Reviewed By: | Approved By: | Issued By: |

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

ANNEXURES- 1&2

| | | |
|-----|--------------|---|
| 1.0 | Scope | <p>This specification covers the technical requirements of design, manufacture, testing at manufacturer's works, packing, forwarding, supply and unloading at site/store and performance of 11kV Ring Main Units with various configurations in Non-motorized, Motorised and Smart RMU along with all accessories and necessary training for trouble free & efficient performance.</p> <p>It is not the intent to specify completely herein all the details of tech design and construction of material. However, the material shall conform in all respects to high standards of engineering, design and workmanship and shall be capable of performing in continuous commercial operation in manner acceptable to the TPNODL, who will interpret the meanings of drawings and specification and shall have the power to reject any work or material which, in his judgment is not in accordance therewith. The offered material shall be complete with all components necessary for their effective and trouble free operation.</p> |
|-----|--------------|---|

| | | | |
|----------------|---|--------------|------------|
| Document Title | SPECIFICATION OF 11kV RING MAIN UNITS - 3W, 4W and 5 WAY | | |
| Document No. | | Eff. Date: | |
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| Prepared by: | Reviewed By: | Approved By: | Issued By: |

| | | Such components shall be deemed to be within the scope of Bidder's supply irrespective of whether those are specifically brought out in this specification and/or the commercial order or not. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|---|---|-----------|---------|----------------|--|---------------|---|---------------|--------------------------------------|--------|---|-----------|--|---------------|---|-----------|--|-----------|--|-----------|--|---------------------|---|-------------|--|-------------|---|-----------------------|----------------------|-----------|---|----------------------|----------------------|---------------|--|------------|--|
| 2.0 | APPLICABLE STANDARDS | <p>The equipment covered by this specification shall unless otherwise stated, be designed, manufactured and tested in accordance with latest editions of the following Standards /IEC and shall conform to the regulations of local statutory authorities.</p> <table border="1"> <thead> <tr> <th>Standards</th> <th>Details</th> </tr> </thead> <tbody> <tr> <td>IS9920: Part 1</td> <td>High Voltage Switches, Part 1: Switches for Rated Voltages Above 1kV and Less Than 52 Kv</td> </tr> <tr> <td>IEC 62271-200</td> <td>HV switchgear and control gear-AC Metal Enclosed switchgear and control gear for voltages above 1kV and up to and including 52Kv.</td> </tr> <tr> <td>IEC 62271-100</td> <td>Alternating-current circuit-breakers</td> </tr> <tr> <td>IS 513</td> <td>Cold Rolled Low Carbon Steel Sheets and Strips.</td> </tr> <tr> <td>IEC 60694</td> <td>Common specifications for high voltage switchgear and control gear standards</td> </tr> <tr> <td>IEC 62271-102</td> <td>HV switchgear and control gear-Alternating current disconnecter and earthing switches</td> </tr> <tr> <td>IEC 60529</td> <td>Degrees of protection provided by enclosures (IP Code)</td> </tr> <tr> <td>IEC 62262</td> <td>Degrees of protection provided by enclosures for electrical equipment against mechanical impacts (IK Code)</td> </tr> <tr> <td>IEC 60060</td> <td>High-voltage test techniques part-1 to 3</td> </tr> <tr> <td>IEC 60947 /IS 13947</td> <td>Low voltage switchgear and control gear</td> </tr> <tr> <td>IEC 60439-1</td> <td>Low-voltage switchgear and control gear assemblies- Type tested and partially type tested assemblies</td> </tr> <tr> <td>IEC 60255-3</td> <td>Electrical relays – Part 3: Single input energizing quantity measuring relays with dependent or independent time.</td> </tr> <tr> <td>IEC 61869-2 / IS 2705</td> <td>Current Transformers</td> </tr> <tr> <td>IEC 60376</td> <td>Specification of technical grade sulphur hexafluoride (SF6) for use in electrical equipment</td> </tr> <tr> <td>IEC 61869-3/ IS 3156</td> <td>Voltage Transformers</td> </tr> <tr> <td>IEC 62271-206</td> <td>High-voltage prefabricated switchgear and control gear assemblies – Voltage presence indicating systems.</td> </tr> <tr> <td>IS 13573-2</td> <td>Cable accessories for extruded power cable for Working Voltages from 3.3 kV up to and Including 33 Kv.</td> </tr> </tbody> </table> <p>Note- In case of any conflict on any technical particular in the specification, the stricter requirement mentioned in the relevant standard shall be valid.</p> | Standards | Details | IS9920: Part 1 | High Voltage Switches, Part 1: Switches for Rated Voltages Above 1kV and Less Than 52 Kv | IEC 62271-200 | HV switchgear and control gear-AC Metal Enclosed switchgear and control gear for voltages above 1kV and up to and including 52Kv. | IEC 62271-100 | Alternating-current circuit-breakers | IS 513 | Cold Rolled Low Carbon Steel Sheets and Strips. | IEC 60694 | Common specifications for high voltage switchgear and control gear standards | IEC 62271-102 | HV switchgear and control gear-Alternating current disconnecter and earthing switches | IEC 60529 | Degrees of protection provided by enclosures (IP Code) | IEC 62262 | Degrees of protection provided by enclosures for electrical equipment against mechanical impacts (IK Code) | IEC 60060 | High-voltage test techniques part-1 to 3 | IEC 60947 /IS 13947 | Low voltage switchgear and control gear | IEC 60439-1 | Low-voltage switchgear and control gear assemblies- Type tested and partially type tested assemblies | IEC 60255-3 | Electrical relays – Part 3: Single input energizing quantity measuring relays with dependent or independent time. | IEC 61869-2 / IS 2705 | Current Transformers | IEC 60376 | Specification of technical grade sulphur hexafluoride (SF6) for use in electrical equipment | IEC 61869-3/ IS 3156 | Voltage Transformers | IEC 62271-206 | High-voltage prefabricated switchgear and control gear assemblies – Voltage presence indicating systems. | IS 13573-2 | Cable accessories for extruded power cable for Working Voltages from 3.3 kV up to and Including 33 Kv. |
| Standards | Details | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| IS9920: Part 1 | High Voltage Switches, Part 1: Switches for Rated Voltages Above 1kV and Less Than 52 Kv | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| IEC 60529 | Degrees of protection provided by enclosures (IP Code) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| IEC 62262 | Degrees of protection provided by enclosures for electrical equipment against mechanical impacts (IK Code) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| IEC 60060 | High-voltage test techniques part-1 to 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| IEC 60947 /IS 13947 | Low voltage switchgear and control gear | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| IEC 60439-1 | Low-voltage switchgear and control gear assemblies- Type tested and partially type tested assemblies | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| IEC 60255-3 | Electrical relays – Part 3: Single input energizing quantity measuring relays with dependent or independent time. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| IEC 61869-2 / IS 2705 | Current Transformers | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| IEC 60376 | Specification of technical grade sulphur hexafluoride (SF6) for use in electrical equipment | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| IEC 61869-3/ IS 3156 | Voltage Transformers | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| IEC 62271-206 | High-voltage prefabricated switchgear and control gear assemblies – Voltage presence indicating systems. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| IS 13573-2 | Cable accessories for extruded power cable for Working Voltages from 3.3 kV up to and Including 33 Kv. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.0 | CLIMATIC CONDITIONS | The material shall be suitable for following climatic conditions. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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| | AT THE INSTALLATION OF RMU: | <ol style="list-style-type: none"> 1. Maximum altitude above sea level 1,000m 2. Maximum ambient air temperature 50°C 3. Maximum daily average ambient air temperature 35°C 4. Minimum ambient air temperature 0°C 5. Maximum relative humidity 95% 6. Average number of thunderstorm days per annum (isokeraunic level) 70 7. Average number of rainy days per annum 120 8. Average annual rainfall 150cm 9. Earthquakes of an intensity in horizontal direction - equivalent to seismic acceleration of 0.3g 10. Earthquakes of an intensity in vertical direction - equivalent to seismic acceleration of 0.15g (g being acceleration due to gravity) 11. Wind velocity: 300 km/hr, 200 km/hr and 160 km/hr. <p>Environmentally, some of the regions, where the work will take place includes coastal areas, subject to high relative humidity, which can give rise to condensation. Onshore winds will frequently be salt laden. On occasions, the combination of salt and condensation may create pollution conditions for outdoor insulators. Some places are in heavily industrial polluted areas.</p> <p>Therefore, Outdoor material and equipment shall be designed and protected for use in exposed, heavily polluted, salty, corrosive and humid coastal atmosphere</p> <p>The design of equipment and accessories shall be suitable to withstand seismic forces corresponding to an acceleration of 0.1 g.</p> |
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| 4.0 | GENERAL TECHNICAL REQUIREMENTS OF RMU: | | Sr. no. | Description | Requirement |
| | | 1 | Application | Three phase – Three wire | |
| | | 2 | Rated Voltage | 12kV | |
| | | 3 | Service Voltage | 11kV | |
| | | 4 | System Frequency | 50 Hz | |
| | | 5 | Internal Arc rating | Indoor Application- IAC AFL or Better Outdoor Application- IAC AFLR | |
| | | 6 | Internal Arc test | 20 kA for 1 Sec. | |
| | | 7 | Lightning Impulse withstand Voltage | 75 kV Peak | |
| | | 8 | Power Frequency withstand voltage | 28 kV rms | |
| | | 9 | Rated current of incomer load break switch | 630 A | |
| | | 10 | Rated current of Circuit-breaker | 630 A | |
| | | 11 | Rated Short time current withstand (3 sec) | 21 kA | |

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| | | | 12 | Rated Short circuit making current | 50 kA |
| | | | 13 | Number of operations at rated short circuit current on line switches, earthing switches ,CB | 5 close |
| | | | 14 | Opening time of breaker (max.) without relay time | 2.5 cycle |
| | | | 15 | Closing time of breaker (max.) without relay time | 3 cycle |
| | | | 16 | Breaker Duty Cycle | O – 3min – CO – 3min – CO |
| | | | 17 | Rated cable charging interrupting current of incomer- - Load Break Switch | 10 A |
| | | | 18 | Rated cable charging breaking current of breaker | 25 A |
| | | | 19 | Insulating medium | SF6 |
| | | | 20 | Interrupting medium | Vacuum- for CB and SF6 for LBS and earth switch |
| | | | | Contact material in Vacuum bottle | Copper chromium with silver plating or better |
| | | | | Make of vacuum bottle | Bidder to mention make, should be same as mentioned in type tested report of same model and design. |
| | | | 21 | Temperature Rise | Maximum permissible temperature rise for bus bar shall not be 65°C at an ambient temperature not exceeding 40°C, as per IEC 62271-1. However, the temperature rise for accessible enclosures and covers shall not exceed 30K and in case, they are not required to be touched during normal operation, the limit shall be raised by 10K. |
| | | | 22 | Cable compartment | Front opening cable compartment for all feeders |
| | | | 23 | All hardware bolts grade | All hardware bolts shall be of 8.8 grade |
| 4.1 | RMU CONFIGURATIONS | Types of Ring Main Units shall be as under: i) 3 Way with 1 CB (For Indoor and Outdoor application): Both side extensible | | | |

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2 Nos. 630A Incomer Load Break Switches + 1 No. 630A Local Feeder/transformer Control Vacuum Circuit Breaker with self-powered O/C + E/F relays+ shunt trip coil + 1 No. Electronic Fault Passage Indicator on left LBS in each RMU

ii) 3 Way with 2CB Non extension type(For Indoor and Outdoor application):
1 Nos. 630A Incomer Load Break Switches + 2 No. 630A Local Feeder/transformer Control Vacuum Circuit Breaker with self powered O/C + E/F relays+ shunt trip coil+1 No. Electronic Fault Passage Indicator on left LBS in each RMU + LBS with 1Cx 630 sq mm cable provisions.

iii) 4 Way with 2CB (For Indoor and Outdoor application): Both side extensible
2 Nos. 630A Load Break Switches + 2 Nos. 630A Feeder Vacuum Circuit Breakers with self powered O/C + E/F relays + shunt trip coil + 1 No. Electronic Fault Passage Indicator in left side LBS in each RMU

iv) 4 Way with 2CB (For Indoor and Outdoor application):
2 Nos. 630A Incomer Load Break Switches + 2 No. 630A Local Feeder/transformer Control Vacuum Circuit Breaker with self powered O/C + E/F relays+ shunt trip coil+1 No. Electronic Fault Passage Indicator and 1Cx 630 sq mm cable provisions in one LBS

v) 4 Way with 3 CB Non extension type (For Indoor and Outdoor application):
1 Nos. 630A Incomer Load Break Switch + 3 Nos. 630A Feeder Vacuum Circuit Breakers with self powered O/C + E/F relays + Shunt trip coil + 1 No. Electronic Fault Passage Indicator in left side LBS in each RMU

vi) 5 Way RMU (For Indoor and Outdoor application):
2 Nos. 630A Incomer Load Break Switch With Electronic Fault Passage Indicator in each LBS + 3 Nos. 630A Feeder Vacuum Circuit Breakers with self powered O/C + E/F relays+ Shunt trip coil

Cable Voltage presence Indicators having auxiliary contacts to be provided in each compartment of all type of RMUs in above mentioned combination. All LBS, EW and CB shall be with auxiliary contacts for SCADA status indication. Provision for future motorization on of LBS and CB should be kept in configuration while designing RMU for non-motorized units. All shunt trip coils shall be 24V DC.

The smart RMU can be one side extendable and motorised indoor RMU to be both side extensible.

| S.N. | Description | As specified by TPNODL (Options defined in specs) | As furnished by Bidder |
|------|---|--|------------------------|
| 1.0 | RMU Category (Normal, Motorized or Smart) | 3Way - 1CB or 2 CB 4Way - 2 CB or 3 CB 5 Way - 3CB Please specify the type i.e. normal, motorized or smart RMU based on tender item codes requirements. | |
| 2.0 | RMU application | Indoor or Outdoor as mentioned in tender | |
| 3.0 | Offered Model nos. and OEM type | a. 3Way (E/NE, I/D or O/D) b. 4Way (E/NE, I/D or O/D) | |

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| | | | c. 5 Way (E/NE, I/D or O/D) |
| | 4.0 | Dielectric medium | SF6 |
| | 5.0 | Interrupting medium | a. Vacuum- for CB b. SF6 for LBS, disconnecter and earth switch |
| | 6.0 | System Frequency | 50 Hz |
| | 7.0 | Rated Voltage | 12 KV |
| | 8.0 | Service Voltage | 11 KV |
| | 9.0 | Rated current -Line Switches | 630 A |
| | 10.0 | Rated Current-CB and LBS | 630 A for all type |
| | 11.0 | Rated Short time current withstand (3 sec) | 21 KA |
| | 12.0 | Rated Short time Making capacity | 50 KA |
| | 13.0 | Rated cable charging interrupting current of incomer load break switch | 10 A |
| | 14.0 | Rated load interrupting line current | 630 A |
| | 15.0 | Rated cable charging breaking current of breaker | 25 A |
| | 16.0 | Lightning Impulse withstand Voltage | 75 kVp Min. |
| | 17.0 | Power Frequency withstand voltage | 28 kVrms. |
| | 18.0 | Dimension (LxWxH) (mm x mm x mm) | To be provided by bidder |
| | 19.0 | Total weight | To be provided by bidder |
| | 20.0 | Paint shade for outer encloser | Light Gray shade RAL 7032 |
| | 21.0 | Operating handle | To be provided by bidder as a part of RMU with each RMU and to be placed on front or on door |
| | 22.0 | Non removable MIMIC Diagram on Front of panel | To be provided by bidder with detailed descriptions as mentioned in specs. And earth switch marking on yellow background. |
| | 23.0 | Separate MIMIC plate/front cover for each feeder | Each feeder shall have separate MIMIC plate/front cover to cover the mechanism for safety. |
| | 24 | Bolt grade | All hardware bolts shall be of 8.8 grade |
| 5.0 | General construction for RMU | | |

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| 5.1 | MAIN TANK | 5.1.1 | The switchgear and bus bar shall be contained in a stainless steel tank filled with SF6 gas and the outer body shall be made of GI high tensile steel/CRCA 2mm thick with gland plates as per IS 513. |
| | | 5.1.2 | The main tank shall be of Stainless steel grade 304 or better with sheet thickness of 2.5 mm minimum and meet the “sealed pressure system” criteria in accordance with the IEC 62271-200. This is a system for which no handling / refilling of gas shall be required throughout the expected operating life, i.e. 30 years. Sealed pressure systems are completely assembled, filled and tested in the factory. |
| | | 5.1.3 | Bidder should use Sniffer Leak Detector Technology for leak detection of each and every sealed tank. |
| | | 5.1.4 | The maximum leakage rate of SF6 gas shall be lower than 0.1 % of the total initial mass of SF6 gas per annum. The filling pressure for the switchgear shall be just above the atmospheric pressure so as to prevent the tendency to leak. SF6 gas used for the filling of the RMU shall be in accordance with IEC 376. |
| | | 5.1.5 | It is mandatory to fit an absorption material in the tank to absorb the moisture from the SF6 gas and to regenerate the SF6 gas following arc interruption. The degree of protection for RMU tank (Indoor/Outdoor) shall be IP 67. |
| | | 5.1.6 | The RMU shall be complete with all connection and copper bus bar with continuous current carrying capacity of 630A. The bus bar shall be fully encapsulated by SF6 gas inside the steel tank. |
| | | 5.1.7 | The main bus bar current density shall be less than 2.7A/sq.mm |
| | | 5.1.8 | The tank shall have a separate SF6 refilling valve and the filling pressure must be mentioned near the valve. And the refilling valve should be marked properly. |
| | | 5.1.9 | If same valve is used for pressure indicator or remote communication then the procedure to refill to be mentioned near the NRV from with permanent sticker. |
| | | 5.1.10 | The SR6 tank shall be completely enclosed in the enclosure such way that any rodent entry on top or side of tank is deterred. Only in indoor RMU- the rear side of SF6 tank exposed (without cover/CRCA) shall be acceptable provided there is no damageable part in rear. The rear and top of tank is enclosed such a way to avoid any rodent entry on tank from any side. |
| | | 5.1.11 | All current carrying components shall be of copper inside tank. |

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| 1 | Temp rise above ambient of 50 deg. 1. Designed ambient temp. 2. Any de-rating applicable at 50 deg ambient | Type Tested as per IEC and complying to requirements) 1. Bidder to mention design ambient temperature. 2. Bidder to provide de-rating chart for 45, 50 & 55 deg ambient temperature. | |
| 2 | Minimum Gas pressure in bar | To be provided by bidder based on type tested design | |
| 3 | Main Copper Bus bar Cross Section | To be specified by bidder as per design | |
| 4 | Main Busbar current density | To be provided as per design | |
| 5 | SF6 Tank design | Hermetically sealed with robotically welded or TIG & MIG welded, unpainted stainless steel enclosure | |

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| | | | with SF6 Gas. Sealed pressure system such that no refilling of gas is required for 30 years. Complete body shall be tamperproof to prevent access to live parts. No gaskets shall be used. | |
| | | 6 | Tank material and grade of SS and welding | Should be of SS and non-corrosive, offered grade of SS to be mentioned. Minimum grade shall be SS304. The welding shall be such that there shall be corrosion of welding for useful life of equipment. |
| | | 7 | Guaranteed SF6 leakage per annum | Less than 0.1%. |
| | | 8 | Moisture absorption material in SF6 tank | Bidder should provide the detail of the moisture absorption material. |
| 5.2 | GENERAL DETAILS | 5.2.1 | The mimic board shall be provided with IP2X degree of protection for Indoor RMUs and protection for Outdoor RMUs shall be minimum IP 54(Main door closed). Cable compartment shall be IP54. | |
| | | 5.2.2 | The RMU shall be suitable for mounting on plinth with trench below and shall have base frame on sides with mounting bolt accessibility from outside of RMU the mounting bolts provision shall be min. M12 bolts on all four sides. | |
| | | 5.2.3 | The provision for cabling shall be through base plate from bottom of RMU through trench below. | |
| | | 5.2.4 | The RMU shall be designed so that the position of the different devices is visible to the operator on the front face plate with permanent type indicators. | |
| | | 5.2.5 | The RMU shall be identified by an appropriately sized permanent labels which clearly indicates the functional units and their operation directions etc. The ON or OFF shall be marked as words and only I/O labelling shall not suffice. | |
| | | 5.2.6 | The RMU shall be designed to be tamper proof so as to prevent access to all live parts during operation without the use of special tools. | |
| | | 5.2.7 | There shall be continuity between the metallic parts of the RMU and cables so that there is no electric field pattern in the surrounding air, thereby ensuring the safety of people. The enclosure and cable compartment and tank shall be connected to common earthing. | |
| | | 5.2.8 | All parts of main circuit to which access is required or provided shall be capable of being earthed prior to becoming accessible. This does not apply to removable parts which become accessible after being separated from the switchgear and control gear. The cables shall be earthed by an earth switch with short-circuit making capacity in compliance with IEC 62271-102. | |
| | | 5.2.9 | The LBS /CB shall not be closed in case Earth Switch is closed. The earth switch shall be fitted with its own operating mechanism and manual closing shall be driven by a fast-acting mechanism, independent of operator action. | |
| | | 5.2.10 | Mechanical interlocking systems shall prevent access to the operating shaft to avoid all operator errors such as closing the earth switch when the Load break switch is closed and when cable is charged. | |

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- 5.2.11 All panel covers shall be provided with anti-vandal screw bolts so that opening of panel covers is only possible with special tools, which shall be provided by the Bidder as mandatory spare/tool.
- 5.2.12 The default design of cable compartment shall be for 3Cx400sq.mm cables (91mm external dia.). Cable boots, gland plate, cable cleat, washer, bushings & terminal bolts should be suitable for 3Cx400 sq.mm cables in all RMU compartments.
- 5.2.13 The cable gland plate shall have split type design having two parts for removal of cable with termination.**
- 5.2.14 Three way with two CB & Four way configuration following thing to be complied: The incomer LBS shall be suitable for 1Cx 630 sq.mm cable. Cable boots, gland plate, cable cleat, washer, bushings & terminal bolts should be suitable for 1Cx 630 sq.mm cable in LBS cable compartment. The other two CB compartment shall be suitable for 3Cx 400 sq.mm cable termination. The terminal bolt used in LBS compartment shall have 15mm longer than regular bolt to accommodate the mechanical type lug having large thickness.

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| 1 | Minimum Operation class of RMU components, 1. CB- E2,M1,C1 2. LBS- E3,M1, 3. ES- E2, M0 All classification declared to be supported with type test reports & mentioned on name plate. | Bidder to mention the class designation as per type test reports available in accordance to relevant IEC as mentioned in clause 7.1 for each module, 1. CB- E2,M1,C1 2. LBS- E3,M1, 3. ES- E2, M0 | |
| 2 | Opening time of breaker (max.) Without relay time | 2.5 cycle | |
| 3 | Closing time of breaker (max.) | 3 cycle | |
| 4 | Breaker Duty Cycle | O – 3min - CO - 3min - CO | |
| 5 | i. Mechanical endurance for Isolator & Earth Switch | Min 1000 Operations | |
| | ii. Mechanical endurance for Circuit Breaker | Min 2000 Operations | |
| 6 | SF6 Gas pressure manometer with indicating bars/scale to measure the actual gas pressure (indirect method RFS etc. not accepted) | 1. Dial type Manometer to be provided for gas pressure indication 2. Contacts to be provided and wires up on the TB for SCADA communication of gas status. | |
| 7 | Enclosure | The RMU metal parts shall be greater than 2mm thickness high tensile steel/CRCA. The overall paint thickness shall be not less than 70 microns. | |

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| | | 8 Degree of protection | <ul style="list-style-type: none"> a. IP 67 for the tank and b. IP2X for the front cover / mimic board and c. IP 54 (Main door closed) for Outdoor RMUs. d. IP 54 for cable compartment |
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5.3 INTERNAL ARC TESTING

5.3.1 Any accidental over pressure inside the sealed chamber tank shall be limited by the opening of a pressure limiting device provided on the tank.

5.3.2 Exhaust Gases shall be released to the bottom or top without affecting cables and termination of the RMU with partition between cable chambers such way that exhaust gases are releases away from the operator.

5.3.3 Bidder shall provide type test report to prove compliance to the 'Internal fault IAC- AFL minimum for indoor and A-FLR for outdoor with bottom or top release' as per IEC 62271-200 on main tank and cable chambers as well. Bidder to submit the type test for both main tank and cable chamber for 20kA current for 1 Sec.

5.3.4 An anti-reflex mechanism on the operating lever shall prevent any attempts to reopen immediately after closing of the switch or earth switch. All manual operations shall be carried out on the front of the RMU.

5.3.5 There should not be any gas leakage from tank, if In case of SF6 gas leakage from gas tank found within guarantee period, bidder shall arrange for site visit and to lift the defective equipment and provide replacement/repair of complete RMU same to be done free of cost by bidder.

5.3.6 Bidder shall conduct root cause and defect analysis of the failed unit and submit the root cause analysis report within two months of reporting of failure.

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| 1 | Internal Arc rating | <ul style="list-style-type: none"> a. Indoor RMU- IAC AFL or better as per type test for main tank b. Outdoor RMU - IAC AFLR or better as per type test for main tank | |
| 2 | Internal Arc test current and duration | For main tank - 20kA for 1 Sec. as per type test report | |
| 3 | Flue gas release from main tank | Bidder to mentioned the offered details | |
| 4 | Internal Arc test | For cable compartment - IAC AFL with 20kA for 1 Second as per type test report | |
| 5 | Flue gas release from cable compartment & main tank | Bidder to mentioned the offered design details & submit the drawing for | |

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| | | | | evaluation for each model offered |
| | | 6 | Barrier between main tank flue gases release and cable compartment | Bidder to mention safety aspects taken care in offered design & presence of barrier and its material as per type testing done on cable compartment and main tank. |
| 5.4 | Incomer Load Break Switches (LBS) | <p>5.4.1 Load break switches shall be maintenance-free. The position of the power contacts and earthing contacts shall be clearly visible on the front of the RMU. The position indicator shall provide positive contact indication in accordance with IEC 60265-1. In addition, manufacturer shall prove reliability of indication in accordance with the standard. The switches shall be of the “increased operating frequency” in accordance with IEC 60265-1.</p> <p>5.4.2 The LBS shall have at least 3 positions, open-disconnected, closed, and earth (with making capacity) and shall be constructed in such a way that natural interlocking prevents unauthorized operations.</p> <p>5.4.3 The disconnecter should have the maximum 200micro ohm contact resistance.</p> <p>5.4.4 Earthing of the cable shall be either through a three position switch & Earth Switch having fault making capacity.</p> <p>5.4.5 The switches shall be fully mounted and inspected in the factory. Provision for future motorisation of LBS and CB should be kept in configuration while designing RMU.</p> <p>5.4.6 The load break switch and earthing switch operating mechanism shall have mechanical endurance of at least 1000 operations. The type test reports to be submitted along with Bid.</p> <p>5.4.7 Load break switch shall have mechanical switch operation counter and should be visible on front in horizontal alignment.</p> <p>5.4.8 The Load break switch should have minimum spare (for TPNODL use) 3 NO+ 3 NC auxiliary contacts and 1NO+1NC for earth switch.</p> <p>5.4.9 The load break switch shall be compatible for remote operation without any modification of the operating mechanism and without de-energizing the RMU, The LBS shall be fitted with an electrical operating mechanism and can remotely open-disconnected, closed and earthed from a reserved location.</p> | | |
| 5.5 | Circuit Breaker For Transformer / Local Feeder Control | <p>5.5.1 The circuit breakers/ interrupter shall be of the maintenance free.</p> <p>5.5.2 The position of the power and earthing contacts shall be clearly visible on the front of the RMU.</p> | | |

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| | | <p>5.5.3 The circuit breakers shall have at least 2 positions: Open-disconnected and closed and shall be constructed in such a way that natural interlocks prevent all unauthorized operations.</p> <p>5.5.4 In view of safety each VCB shall be assisted with feeder side disconnecter having 3 positions, open-disconnected, closed, and earth (having fault making capacity) and shall be constructed in such a way that natural interlocking prevents unauthorized operations.</p> <p>5.5.5 They shall be fully mounted and inspected in the factory.</p> <p>5.5.6 Breaker contact resistance should be ≤ 50 micro-ohms. The various circuit contact resistance should comply with provisions in IEC 62271-200.</p> <p>5.5.7 The breaker should have minimum spare (exclusively for TPNODL use) 4 NO+ 4 NC auxiliary contacts.</p> <p>5.5.8 The vacuum interrupter shall withstand 10^{-7} milli-bar Vacuum Pressure ensuring high quality vacuum for interruption and shall have Copper Chromium Arcing Contacts. The interrupter manufacturing unit shall have shall be single Shot brazing and have high First pass Yield. (Shall be part of Bidders own vendor evaluation criteria)</p> <p>5.5.9 An operating mechanism can be used to manually close and open the circuit breaker with single push on push buttons. It shall be fitted with a local system for manual tripping by an integrated push button. There will be no mechanical automatic re-closing.</p> <p>5.5.10 The operating mechanism shall be compatible for remote/ SCADA operation. The required motor for this operation shall be delivered separately to stores (at a later date) and shall be compatible with older versions of RMUs already working within the TPNODL network.</p> <p>5.5.11 The circuit breaker shall be associated with an integrated protection unit that will operate without any auxiliary power supply and shall include three toroid transformers incorporated in the transformer tee-off bushings, an electronic self-powered relay, a low energy release, and a “fast-on” test receptacle for protection testing (with or without CB tripping).</p> <p>5.5.12 The protection system shall ensure circuit breaker tripping as of a minimum operating current which is the rated current of the underground network to be protected. The CT settings shall be adjustable between 60 – 400/1 Amp for feeder and transformer in relay. The pickup current of relay should be adjustable as per relay specification as per the requirement at site.</p> <p>5.5.13 CT shall be resin cast only, CT shall be of Protection class having dual ratio i.e. 400/1A and 60/1A. The ratio selection shall be made available on one TB on control cubicle. The ratio section chart shall be fixed permanently at suitable nearest arrangement available.</p> <p>5.5.14 The class of CT shall be 5P10 for both cores and CT Burden shall be 2.5 VA.</p> <p>5.5.15 CT shall be mounted on cables the mounting arrangement shall be flexible to move to & fro, up and down based on site condition of cable terminations etc. The mounting arrangement shall ensure that the CT should not reach less than 300mm from live part of bushing. The CT mounting shall be fixed at position while dispatch such that the cable entry, the bushing terminal bolt and CT core hole are co-axial.</p> <p>5.5.16 Fixing bracket to be provided for fixing CT on particular position without touching termination cores. Bolting arrangement to be provided for fixing CT on the mounting bracket.</p> |
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| | | <p>5.5.17 In any mounting the CT shall be mounted in such a way that the secondary connection shall be accessible and visible from front side after opening cable compartment door.</p> <p>5.5.18 The relays shall be self-powered suitable numerical relay with necessary elements. Please refer Specification no. ENG-HV-95 for Self power relay for RMU feeder protection. The preferable make of relay are ABB, Ashida, Schneider, Siemens make relay.</p> <p>5.5.19 Breaker shall have mechanical endurance of at least 2000 operations. Relevant type test reports to be submitted along with bid.</p> <p>5.5.20 Breaker operation counter should be provided and should be visible on front in horizontal alignment.</p> <p>5.5.21 The circuit breaker shall be compatible for remote operation and can close (ON) and open (OFF) by remote operation in future if automated.</p> <p>5.5.22 The breaker should have one series trip coil and one shunt trip coil. The shunt trip coil shall be of 24V DC along with charger and complete wiring up to trip coil through DC MCB and MCB arrangement for AC charger.</p> <p>5.5.23 In control cabinet the Terminal block shall have AC input wiring provision and MCB of 6A (min.) to be provided for incoming of LT AC supply.</p> <p>5.5.24 Wiring for auto-reclosing operation of CBs through relay to be done. (Reclosing shall be only done with 10 sec. delay programmed in relay)</p> <p>5.5.25 The relay auxiliary power, communication ports and other required ports should be wired up on the TB.</p> | | |
| | 1 | Incomer Load Break switch: Shall be SF6 insulated with least maintenance. Shall have at least 3 positions, Open, Close & earth with natural interlocks. Fitting of motor at site shall be possible & shall have mechanical interlock. The electrical interlock of cable charge with earth switch is preferred. | To be provided by bidder | |
| | 2 | <p>Circuit Breakers:</p> <p>a. With VCB interrupter and SF6 insulated bus with minimum maintenance and shall have at least 2 positions i.e. Open & Close, Manual operation & fitting of motor at site shall be possible if required.</p> <p>b. In view of safety each VCB shall be assisted with feeder side disconnecter having 3 positions, open-disconnected, closed, and earth (having fault making capacity) and shall be constructed in such a way that natural interlocking prevents unauthorized operations.</p> | To be provided by bidder | |
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| | | 3 | Protection Relay-Without auxiliary power & shall include 3 CT in Tee-off bushings, electronic relay, low energy release & fast on test receptacle for protection testing | Complying to Specification no. ENG-HV-2017 (or latest release as per tender doc.) for Self power relay for RMU feeder protection. The approved models only shall be accepted. | |
| | | 4 | Make of self-powered Relay | ABB, Ashida, Schneider, Siemens | |
| | | 5 | Relay Model offered | Bidder to mention the model from options provided in pre-bid replies in tender. | |
| | | 6 | Opening & Closing times with relay | 125 maximum | |
| | | 7 | Current Transformer for CB compartment | Shall be epoxy resin casted and mounted on cables. The CTs around the cables shall be supported on the sheet steel bracket and should be fixed with bolts. The mounting frame should be moveable up and down or to and fro but shall be fixed at co-axial position with base plat holes and bushing terminal bolts. The CT settings shall be adjustable between 60 - 400/1 Amp at terminal block. CT ratio is 60-400/1A, Burden is 2.5 VA, Class - 5P10. | |
| | | 8 | Make of the Vacuum Interrupter | a. Make b. Model c. Type Test report no & LAB for vacuum interrupter d. The offered make shall be same as that used in Type testing report of RMU | |
| | | 9 | Make of CT offered | | |
| 5.6 | Bushings and Cable terminations | 5.6.1 | Bushing should be of Epoxy resin of minimum F class. Each cable compartment shall be provided with three bushings of adequate sizes to terminate the incoming and outgoing cables. The termination bolt shall be of stainless steel and M16 size with min. 30mm only for all bushings and for RMU with 630sq.mm single core cable design the 20 mm longer terminal bolt to be provided. | | |

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| | | <p>5.6.2 The bushings shall be conveniently located for proper bend so as to allow easy working and termination of cables. The cable termination shall be done with Heat shrinkable /Push ON termination method so that adequate clearances are maintained between phases & cable shall be held by Nylon (fire retardant material) cleat. The Sizes of incoming and outgoing cable shall be 11kV 3 Core 400 sq.mm AL cable having 91mm outer diameter.</p> <p>5.6.3 Three way with two CB configuration or any RMU if mentioned for 1Cx 630 sq.mm cable; following thing to be complied, The incomer LBS shall be suitable for 1Cx 630 sq.mm cable. Cable boots, gland plate, cable cleat, washer, bushings & terminal bolts should be suitable for 1Cx 630 sq.mm cable in LBS cable compartment. The CB compartment shall be suitable for 3Cx 400 sq.mm cable termination. The terminal bolt used in LBS compartment shall have 15mm extra length than regular bolt to accommodate the mechanical type lug having large thickness. For Incomer LBS shall be provided with nonmagnetic base plate section and suitable cable cleat for 51 mm diameter 3x1C cables.</p> <p>5.6.4 Bidder should provide bimetallic washer for connection between Copper bushing stud and Aluminum Lug. The bimetallic washer shall be suitable for M16 bolt and 630A rating in all compartments with minimum thickness of 2mm and sufficiently cover the completely copper bushing stud. The bidder can alternately offer tinned copper surface of bushing then bimetallic washer not required.</p> <p>5.6.5 For each terminals bolt should be provided with Cup or Belleville Washer and flat washers. (Note- The cut spring washers are not accepted)</p> <p>5.6.6 The Terminal bolt shall have arrangement for fixing the cable test rod through cable boot opening. Cable boot should have opening for test rod insertion.</p> <p>5.6.7 The bolt tightening torque must be written/mentioned inside each cable chamber with permanent sticker.</p> <p>5.6.8 Cable boot for cable termination should be as per IS 13573-2. Boot should be easy to install & should withstand 11kV continuous voltage.</p> <p>5.6.9 The cable compartment must be without any holes or gaps and properly vermin proofed before inspection.</p> <p>5.6.10 The cable testing provision to be ensured in design. In case cables are to be tested with front door open, doors shall have interlocks such that doors can be opened only with earth switch in closed position & a cable test rod (to be quoted as spare) which can be fixed on the terminations/ termination bolt through boot hole to facilitate testing. Termination boots as approved by the TPNODL should have a proper opening to facilitate the testing. The opening in boot shall be covered by means of removable protection cap.</p> <p>5.6.11 All cable compartments shall have front door opening. The cable cover door shall be pad lockable and shall be Tamper and Arc proof. The circuit breaker and earth switch shall be lockable in the open or closed positions by 1 to 3 padlocks.</p> <p>5.6.12 In outdoor RMU the door should have pad lock provision and cable door shall have interlock so that it shall not be opened by external forces. Also it shall not be possible to operate the load break switch / isolator or breaker from outside once door closed. This is required to prevent pilferage.</p> <p>5.6.13 Locking provision of cable compartment door to be provided in case of any switch/CB is at earth position to avoid pilferage.</p> |
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| | | <p>5.6.14 Control cabinet having terminal block (TB) shall be located at convenient accessible height and all inputs & outputs (IOs) to be wired up to the terminal block (TB).</p> <p>5.6.15 The CT secondary wires and Trip coil wires shall not have any joint in-between CT and TB or relay.</p> <p>5.6.16 The wiring of the relay to be done on the TB for its all terminals along with communication terminals.</p> <p>5.6.17 All terminals wires shall have proper identification ferrules and the identification marking provided on TB.</p> <p>5.6.18 Control cabinet shall have control cable entry arrangement on both sides of the RMU top control cabinet with proper grommet such that the opening are sealed in normal installations when not used for our door extension box arrangement to be provided any other arrangement to be explained in drawing during tender.</p> | | | | |
| 5.7 | Earthing: | <p>5.7.1 The RMU outdoor metal clad switchgear enclosure, load Break Switch, VCB, SF6 tank etc. shall be equipped with an tinned copper earth bus throughout all compartments and securely fixed along the base of the RMU with cover.</p> <p>5.7.2 The extension of this earth bus shall be taken out minimum 50mm outside the enclosure on both sides for fixing of the TPNODLs GI earth flat of 50mm width. The extension coming out of enclosure shall be properly sealed such a way to ensure vermin proofing of the cable compartment.</p> <p>5.7.3 The size of tinned copper earth bus-bar should be Min.105 sq.mm inside the enclosure to withstand short time current carrying capacity as per IEC.</p> <p>5.7.4 Two nos. body earthing bolts of M12X70 mm to be provide on the extended bus-bar. Bolts must be hot dipped galvanized.</p> <p>5.7.5 The mother earth need to be extended up to 250mm periphery of cable entry hole so that the cable termination earthing can be connected easily to the main mother earth with 12mm bolt and washers. This arrangement need to be provided in each compartment of RMU.</p> <p>5.7.6 The main tank must be connected to mother earth at least two positions with proper contact.</p> <p>5.7.7 In Three way outdoor type compact design bidders should ensure the earthing from mother earth is provided inside the cable compartment for earthing of the cable terminations. That TPNODL shall provide only two main earthing on switchgear</p> <p>5.7.8 Bidder to ensured that the earth bus shall be single conductor/bus suitable for taking specified fault current and both main earthing are interconnected by earth bus and not through thank or enclosure.</p> <p>5.7.9 If bolt are provided as current carrying path then the bolt material shall be brass and size shall be suitable to carry specified fault current.</p> <table border="1"> <tr> <td>1</td> <td>Tinned copper Earth bus bars</td> <td>To be provided to prevent tampering.</td> <td></td> </tr> </table> | 1 | Tinned copper Earth bus bars | To be provided to prevent tampering. | |
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| | | 2 | Material & size of earth bus bar (Minimum size is 105 sq.mm) | To be provided by the bidder | |
| | | 3 | Earthing of main Cables: it shall be earthed with earth switch with S/C making capacity as per IEC 129. And closing shall be possible only when Isolator is open | To be provided by bidder | |
| | | 4 | Making of earthing operations | All earth operation to be marked with yellow back ground and permanent (non-removable) in nature | |
| 5.8 | Voltage indicator lamps and phase comparators | <p>5.8.1 Each compartment of RMU shall be equipped with a fixed type voltage indicator lamps having dip ports for insertion of phase comparators or line tester to check the phase sequence or presence of charge in cable. This is to be fixed on the front face plate to indicate presence of voltage in the cables. The capacitive dividers will supply low voltage power to the indicator lamps. Three inlets can be used to check the synchronization of phases with phase comparator or other device. These devices shall be in compliance with IEC 62271-206:2011 standard. The VPIS without dip ports are not accepted.</p> <p>5.8.2 There should be electrical interlock of cable presence indicator and operation of earth switch in RMU incomer cable compartment of LBS.</p> <p>5.8.3 The all VPIS shall have auxiliary contact for wired in to control compartment for SCADA communication.</p> <p>5.8.4 In smart RMU this shall have to be programmed for SCADA communication.</p> <p>5.8.5 This feedback should be used to operate the interlock for earth switch such that earth switch shall not operate when back end of cable is live.</p> | | | |
| 5.9 | Front Cover | <p>5.9.1 The front cover shall provide a clear mimic diagram that indicates the different functions. This shall be permanent in nature throughout the useful life of the RMU.</p> <p>5.9.2 The position indicators shall give a true reflection of the position of the main contacts. Position Indicators shall be clearly visible to the operator.</p> <p>5.9.3 The lever operating direction shall be clearly indicated in the mimic diagram.</p> <p>5.9.4 The bidder shall provide a operating sequence process on each compartment with permanent type arrangements. So that all data shall be self-explanatory.</p> <p>5.9.5 The mimic plate or cover should be separate for each module/feeder of the RMU in view of safety. In case of any work to be done on mechanism of any one feeder then operation staff shall have only access to particular feeder via opening feeder mimic pate or cover plate.</p> | | | |

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| | | <p>5.9.6 The mimic shall have clear Words for “CLOSE/OPEN/EARTH’ at each desired place.</p> <p>5.9.7 All status indicators shall be marked appropriately with permanent labels as Earth On/OFF, Disconnecter/LBS On/OFF, CB On/OFF.</p> <p>5.9.8 All operating ports shall have marking like spring charging provision, three position disconnecter port and Shutter operator for interlocking, Operation allowed along with arrow indication and labeled as earth operation or disconnecter operation.</p> <p>5.9.9 For better clarity of earthing related operations shutters and ports shall be painted in yellow background such way that the persons should get clear indication that if operating in yellow region means he is performing earthing related operation.</p> <p>5.9.10 The Direction of operation shall be clock wise for any close operation and anti-clock wise for any open operation of disconnecter /LBS and earth switch.</p> <p>5.9.11 There shall be one label for SF6 gas pressure indicator and a clear message must be fixed near pressure indicator that region of safe operation and Alert message stating ‘ If GAS pressure not OK. Do not operate any switchgear and report to OEM(name) customer care/engineer in charge’ This message should be clearly visible in front with suitable background and shall be with permanent marked.</p> <p>5.9.12 For gas pressure indication a dial type manometer to be provided with will show actual pressure.</p> <p>5.9.13 Gas pressure detector shall have SCADA compatible contacts and wired up on TB with labelling. This should give low gas pressure alarm to the SCADA.</p> <p>5.9.14 IN case of smart RMU the FRTU should be programmed such that in case of low GAS pressure the remote switch operation should be blocked.</p> <p>5.9.15 All the other accessories and boxes shall be properly labelled with permanent marking/printing such a way that the product is self-explanatory for user. Nomenclature to be provided along with symbols.</p> |
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| 5.10 | Fault Passage Indicators | <p>5.10.1 Fault Passage Indicators shall be installed on the Ring Main Unit. These devices shall be, electronic devices with their own energy source and connected to Single 3 phase Split Core CTs (CBCT) for O/C. These shall be provided with bright LED s / flag Indicators, which shall be clearly visible in the day time. These shall have the following resetting facilities:</p> <ol style="list-style-type: none"> Manual reset Resetting after a set time duration Electrically reset from remote with at least 2-spare potential free contacts. Resetting on restoration of LV <p>5.10.2 The unit shall have Short Circuit adjustable to different settings with separate Current transformer. They shall be fully field-programmable and shall have at least and 5 settings for Phase fault or over current.</p> |
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| | | <p>5.10.3 FPI shall have min 5 setting of phase fault (OC) with 300A or 400A set as default. This shall be ensured before inspection call in each RMU.</p> <p>5.10.4 It shall be possible to Test these indicators at site thru “Test” push button. The Fault Passage Indicators shall also be provided with a SCADA output contact.</p> <p>5.10.5 The process of fixing the FPI shall be fixed on the wall of the incomer LBS cable compartment along with pictorial view.</p> <p>5.10.6 FPI connecting wires should be properly dressed and covered in insulated sleeve and tied to the side walls with help of cable ties. If sticking type arrangement is provide then it must be with good quality permanent adhesive from reputed makes like 3M and should not come out with force of 10kN.</p> <p>5.10.7 These shall confirm to the following standards:</p> <p>IEC 60068-2-6, IEC 60068-2-9 : Environmental testing – For Vibration, solar radiations</p> <p>IEC 60950 : Information Technology equipment – Safety</p> <p>IEC 1000-2 : Electromagnetic compatibility for low-frequency conducted disturbances and signaling in public low power supply systems</p> <p>IEC 1000-4 : EMC – Testing & Measurement</p> <p>IEC 1000-6 : EMC- Immunity for Residential, Commercial and light industrial environments.</p> |
| 5.11 | <p>Remote Control of the RMU & other requirements</p> | <p>A. For non-motorized RMU:</p> <p>a) Future provision for motorization to be kept on each feeder of each RMU.</p> <p>b) For future requirement of remote operation of the RMU line switches shall be possible using motors fitted to the operating mechanism for both line switch and circuit-breaker functions as and when required. All the necessary accessories shall be supplied separately to stores based on PO placed on quotation provided in this tender.</p> <p>c) The fitting of the motors to the mechanism must not in any way impede or interfere with the manual operation of the switches. An auxiliary contact to prevent motorized operation of the mechanism while the operating handle is inserted into the operating point shall also be provided.</p> <p>B. For motorized RMU:</p> |

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| | | <p>d) The motors to be fitted in LBS & CB in all RMU. The fitting of the motors to the mechanism must not in any way impede or interfere with the manual operation of the switches. An auxiliary contact to prevent motorized operation of the mechanism while the operating handle is inserted into the operating point shall also be provided.</p> <p>e) The On/Off Push button of LBS and VCB shall be illuminated type with inbuilt LED indicating presence of electrical supply.</p> <p>f) Both the LBS should be wired up for auto changeover scheme. And CB to be wired up for Autorecloser Scheme/feature.</p> <p>g) The CB mechanism should be suitable for auto reclosing after 10second dead time.</p> <p>h) 1 No. Surge Protection Device to be provided for the relay communication ports for protection from external surge.</p> <p>i) Preferred communication protocol for FRTU shall IEC-60870-5-104.</p> <p>j) All Close-Open coils / auxiliary contacts shall be rated for 24 V DC. Following auxiliary contacts are essential for remote operation of RMU:</p> <ul style="list-style-type: none"> a. Aux. contact for Line Isolator (Status) b. Aux. contact for all earthing switch (Status) c. Aux. contact for Breaker (Status) d. Aux. contact for FPI indication e. Aux. contact for Protection trip (Breaker module) f. Aux. Contact for Low Gas Pressure <p>k) 2 Nos. spare relay tripping NO, NC contacts to be provided. Flag Indications on RMU when tripped should be on shunt trip. A provision for physical disconnection of motor supply (like fuse) of line isolator must be provided in RMU unit itself.</p> <p>l) (A flag is required for series and shunt coil actuation).</p> <p>m) There should wiring provision for individual Isolator as well as breaker motor connections, which will be fitted on the RMU body itself. Also the PCB of motor should be covered by anti tracking agent. There should be relay with timer instead of only relay, which is used in the latching circuit.</p> <p>n) Signal requirement for field RTU (which shall be mounted near RTU) is attached (refer Annexure-1). The bidder shall quote the cost of field RTU (FRTU) separately with all technical details for acquisition of the signal as described in Annexure-1.</p> <p>o) Group marking & labeling to be done for all TB.</p> <p>C. For Smart RMU:</p> <p>a) The smart RMU shall be motorized in LBS and CB also. This shall also have FRTU of TPNODL approved make and approved models viz. Siemens, ABB, Schneider etc. (updated list shall be shared during pre-bid meeting) & shall have</p> |
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auxiliary PT having 1000VA burden for power supply to the FRTU, relay and DC battery charger.

- b) The On/Off Push button of LBS and VCB shall be illuminated type with inbuilt LED indicating presence of electrical supply.
- c) The FRTU shall be of approved make and model along with any license key (if required) for programming and logic development at any site at any time.
- d) The wiring diagram drawing should be fixed inside the compartment preferably at back side of door.
- e) Any TB should not be mounded on base plate of RMU.
- f) The battery terminal & other live terminals should be protected with insulating medium covering to avoid any direct accidental contact.
- g) One Single pole MCB required for all DI signals and one single pole MCB required for DO positive supply.
- h) 1 No. Surge Protection Device to be provided for the relay communication ports for protection from external surge.
- i) Provision for taking out antenna to be kept in FRTU cabinet and space for fixing 4G modem to be kept in cabinet.
- j) Both the LBS should be wired up for auto changeover scheme. And CB to be wired up for Autorecloser Scheme/feature.
- k) The CB mechanism should be suitable for auto reclosing after 10second dead time.
- l) Local/Remote switch & Auto/Manual Switch should be provided on the FRTU Chamber.
- m) One lamp with door open sensor to be provided in FRTU cabinet and switch and socket to be provided.
- n) The chamber shall have space heater at suitable location away from wires.
- o) Group marking & labeling to be done for all TB.

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| 1 | Technical Details of motors | For motorized and smart RMU only | |
| a | Operating Voltage | 24 V DC | |
| b | Max. power rating | 240 Watts | |
| c | Max current drawn | 9 Amp (±10%) | |
| d | Operating time | 4-8 seconds | |
| e | Power Supply | Motor shall be suitable for 230 V AC & 24 V DC | |

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| | | | | |
| | 2 | <p>Technical details of Auxiliary PT</p> <p>a. Voltage ratio- 11000/Rt3240V b. Power frequency withstand: 28kV c. Impulse withstand: 75kVp d. Voltage factor 1.2 continuous and 1.9 for 8hours e. Burdon- 1000VA f. Accuracy- 6P g. Type tested design (test report from OEM) h. offered make</p> | For smart RMU only | |
| | 3 | <p>The FRTU offered model and make (As on date of release of document the approved models are</p> <p>ABB Make FRTU with Model No – RTU540</p> <p>Siemens Make FRTU with Model No – A8000,</p> <p>Schneider Make FRTU with Model No – T 300 complying to FRTU specs.)</p> | Please provide details | |
| | 4 | <p>Aux PT HT connection should have insulation cover</p> | The busbar connecting to PT should have 11kV insulation sleeve. | |
| | 5 | <p>THE HT compartment and FRTU compartment shall have separate door for safety &</p> | In view of safety the FRTU compartment and HT compartment shall have separate door. | |
| | 6 | <p>The Aux. PT shall have HT fuse protection</p> | Bidder to mention make and rating of fuse offered | |

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| | | 7 | Aux PT compartment cover interlock | The Aux. PT compartment cover shall have interlock so as to avoid opening when bus is charged for safety, applicable for the FRTU and PT placed having common enclosure. | |
| | | 8 | 4G modem for communication of data (Approved Make- ABB Viola as on date of release of document) | 4G modem Model to be mentioned. | |
| | | 9 | In the scope of bidder testing, commissioning and integration of signals through FRTU up to ADMS is included | Bidder to comply | |
| 5.13 | For all type RMU | | | | |
| | | 1 | Protection against theft | Design of RMU shall be tamper & arc proof. Anti vandal screws shall be provided. Cable covers shall be pad lockable. All live parts and internal parts etc. shall be covered with antitheft covers. | |
| | | 2 | Doors | Hinged doors shall be provided for outdoor type RMU. The hinges for the doors need to be riveted and shall not have any access from outside. Bolted hinges shall not be acceptable. | |
| | | 3 | Voltage indicator box shall be fixed type-This device shall be in compliance with IEC 62271-206:2011 standard only | Capacitive dividers type which will supply low voltage to power the lamps AND 3 inlets can be used to check phase sequence or presence of voltage in cable | |
| | | 4 | Cable cleats (full circle) | Nylon (Fire Retardant) | |
| | | 5 | Cable termination and bushing suitability | Heat & Cold shrink terminations, both. | |
| | | 6 | Cable compartment suitability shall be | Suitable for cable sizes a. 11kV 3CX400 sq.mm having dia of 92mm in all compartment and b. LBS suitable for 11kV 1CX630 sq.mm cable having diameter of 51mm if applicable as per requirement in tender. | |
| | | 7 | The cable compartment | All cable compartment shall be bottom entry and front opening type only | |

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| 8 | Size of bimetallic washer in all compartments | Must be suitable for M16 bolt and bushing sizes with min. 2mm thick, not applicable if tinned copper bushing provided. | |
| 9 | Height of bushing terminal from base plate in each cable compartment. The cable compartment box length for easy termination of 3Cx400sq.mm AL armoured cables. | Minimum 800mm from base plate to bushing bolt center for proper termination space. | |
| 10 | Fault passage indicator (SCADA compatible) | One per RMU in Incomer left LBS as a part of each RMU with specified default setting. The five way RMU shall have FPI in both LBS. | |
| 11 | Future motorization and SCADA Compatibility in non-motorised RMU | To be provided | |
| 12 | List of Type test of product | To be attached for each model & type offered with test report number and date | |
| 13 | Availability of spares | Assurance by bidder for 25 years, list of spares as mentioned in specification to be provide along with RMU lot. | |
| 14 | VPIS electric interlock | The VPIS shall have electrical interlock with earth switch such that only earth when cable not charged. | |
| 15 | VPIS with Aux. contact | In all compartments | |
| 16 | Breaker operation counter | To be provided | |
| 17 | LBS operation counter | To be provided | |
| 18 | Direction of operation (Close - clock wise Open- counter clock wise) | <ul style="list-style-type: none"> a. LBS – ON/off b. ES- Open/ close c. CB disconnecter- ON/off d. CB earth switch-Open/ close | |
| 19 | Auxiliary contacts (total and spare) | <ul style="list-style-type: none"> a. LBS b. Earth Switch c. CB d. Series Disconnecter of CB - e. Earth switch of CB- | |
| 20 | Control cable entry provision | To be provided | |
| 21 | DC Shunt trip coil (24V) | To be provided along with series trip coil and specify DC power | |

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| | | | rating and charger/converter ratings offered | |
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| 22 | MCB for LT AC incomer and TB connection of all CT, Aux switches and relay wiring in separate control cabinet. | | <p>To be provided in all RMU.</p> <p>Separate compartment to be provided for Terminal block of all auxiliary contacts wired up.</p> <p>MCB approved makes- ABB, Siemens, Scheider, EATON.</p> | |
| 23 | RMU Cable Boot/ terminal protector to be provided in each compartment for each phase. | | <p>Bidder to mention offered</p> <p>a. Make</p> <p>b. Model</p> <p>c. Material of boot</p> <p>d. Test report and data sheet showing suitability</p> <p>e. Confirmation from bidder that same boot was used during type testing of RMU.</p> <p>f. Impulse voltage rating of boot</p> | |
| 27 | On the extensible bushings of each phase the 11kV insulation to be provided. | | Bidder to comply for the same. | |
| 28 | Cable boot/ terminal protector should be suitable for 400sq.mm cables with flat lugs square end 400 sq.mm, | | Bidder to comply for the same. | |
| 29 | All auxiliary contact , relay LT Supply contact, relay DI/DO contact, provision for communication device in a control compartment. | | Separate compartment to be provided for Terminal block of all auxiliary contacts wired up. | |
| 30 | In each cable compartment each bushing shall have temperature sensors. | | The temperature data should be shown on one common display unit and shall be communicated to SCADA in motorised and Smart RMU. | |

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| | | 31 | Total height of the indoor RMU should be <1900mm | Bidder to accommodate without compromising other requirements. |
| | | 32 | Terminal bolt material and bolt length & washers offered | The terminal bolt shall be M16 and of stainless steel. The offered length to be mentioned along with washer details. |
| 5.13 | Paint | <p>All paint shall be applied on clean dry surfaces under suitable atmospheric conditions by seven tank process and powder coating. The overall paint thickness shall not be less than 70 microns. The paint shall not scale off or crinkle or be removed by abrasion during normal handling.</p> <p>The enclosure of the RMU shall be painted with shade light Grey, i.e. RAL 7032. If any damage observed after delivery same need to be touch-up painted after delivery at site.</p> | | |
| 5.14 | Control wiring | <p>All wiring in the control cabinet shall be carried out with 1100V grade single core multi strand flexible copper conductor with HRPVC insulation without any joints in between runs and shall be flame retardant, vermin and rodent proof.</p> <ol style="list-style-type: none"> 1. CT circuit- 2.5 sq.mm flexible copper. 2. Earth circuit – 2.5 sq.mm flexible copper. 3. AC control circuit- 1.5 sq.mm flexible copper. 4. DC control circuit-1.5 sq.mm flexible copper. 5. SCADA circuit- 1.5 sq.mm flexible copper. 6. Wire identification -Tubular printed ferrules | | |
| 5.15 | SLD and configuration | <p>The SLD and the offered configurations for particular manufacturer cannot be changed without prior notice and approval from TPNODL.</p> <p>TPNODL reserve the right to accept the change or reject the same based on operation ease and safety features based on the product evaluation Safety being utmost concern hence same need to be taken care in any offered designs.</p> | | |
| 6.0 | NAME PLATE & MARKING: - | <p>All the components and operating devices of the RMU shall be provided with durable and legible stainless steel (or anodised AL) nameplates containing all technical parameters. Name plates shall be suitably embossed with" PO no. with date", "PROPERTY OF TPNODL, BHUBANESWAR' & "CODE NUMBER" along with the following information. A Danger plate of appropriate size shall also be provided on the enclosure. (The drawing of name plate shall contain following details)</p> <p style="text-align: center;">a) Manufacturer's Name</p> | | |

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| | | <ul style="list-style-type: none"> b) Model No. c) Serial no. d) Month and year of supply e) PO Number and date f) Rated Voltage g) Rated current h) System Frequency i) Rated Short time withstand current j) Rated Impulse withstand Voltage k) Degree of Protection l) Mechanical duty of CB and LBS m) Duty cycle of CB n) Internal ARC test category o) Year and month of manufacture. p) Mass of RMU q) SF6 gas filling pressure in 'bar' r) Property of 'TPNODL' <p>Also the customer care centre number and mail address to be mentioned in the name plate at bottom.</p> <p>The name plate data should be printed in QR code with name plate details, purchase details, operating manual, SOP, troubleshooting techniques, warranty details and customer care contact details with complaint registering mechanism and fixed on the front cover or suitable place.</p> | | | | | | | | | | | | |
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| 7.0 | TESTS FOR RMU | <p>All the Routine and acceptance tests shall be carried out in accordance with the relevant IS/IEC standards. All routine/acceptance tests shall be witnessed by the purchaser/his authorized representative. All the components within the RMU enclosure shall have been tested for Routine/acceptance and Type tests as per the relevant standards. All Type tests as per latest IS / IEC shall have been carried out on the RMU as a whole as per relevant IS/IEC. Following tests shall be necessarily conducted on the equipment and its components as specified in IEC 62271-200:</p> <p>Note- <i>In case of any conflict on any technical particular in the specification, the stricter requirement mentioned in the relevant standard shall be valid.</i></p> | | | | | | | | | | | | |
| 7.1 | TYPE TESTS | <table border="1"> <thead> <tr> <th>Sr. No.</th> <th>Type Tests stipulated as per Tender Spec.</th> <th>Applicable standard</th> <th>Acceptance Clause as per IS / IEC</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>PF withstand voltage test & Lightning Impulse voltage withstand test for Switches</td> <td>IEC62271-103</td> <td>CI 6.2 of IEC62271-103, CI 7.2.7.2 & 7.2.7.3 of IEC62271-1</td> </tr> <tr> <td>2</td> <td>PF withstand voltage test & Lightning Impulse voltage withstand test for CB</td> <td>IEC 62271-200</td> <td>CI 6.2.6.1 & 6.2.6.2-IEC 62271-200</td> </tr> </tbody> </table> | Sr. No. | Type Tests stipulated as per Tender Spec. | Applicable standard | Acceptance Clause as per IS / IEC | 1 | PF withstand voltage test & Lightning Impulse voltage withstand test for Switches | IEC62271-103 | CI 6.2 of IEC62271-103, CI 7.2.7.2 & 7.2.7.3 of IEC62271-1 | 2 | PF withstand voltage test & Lightning Impulse voltage withstand test for CB | IEC 62271-200 | CI 6.2.6.1 & 6.2.6.2-IEC 62271-200 |
| Sr. No. | Type Tests stipulated as per Tender Spec. | Applicable standard | Acceptance Clause as per IS / IEC | | | | | | | | | | | |
| 1 | PF withstand voltage test & Lightning Impulse voltage withstand test for Switches | IEC62271-103 | CI 6.2 of IEC62271-103, CI 7.2.7.2 & 7.2.7.3 of IEC62271-1 | | | | | | | | | | | |
| 2 | PF withstand voltage test & Lightning Impulse voltage withstand test for CB | IEC 62271-200 | CI 6.2.6.1 & 6.2.6.2-IEC 62271-200 | | | | | | | | | | | |

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| | | 3 | Measurement of contact resistance & Temperature rise test LBS & CB combined unit (if individual then two separate reports required) | IEC 62271-200 | CI 6.4 & CI 6.5 of IEC 62271-200 |
| | | 4 | Short Time current and Peak current withstand tests Main Circuit | IEC 62271-200 | CI 6.6 a & b -IEC 62271-200 |
| | | 5 | Short Time current and Peak current withstand tests Earthing Circuit | IEC 62271-200 | CI 6.6 a & b -IEC 62271-200 |
| | | 6 | Short Circuit Breaking current tests LBS | IEC 62271-103 | CI 6.101, Table3 of IEC 62271-103 |
| | | 7 | Short Circuit Making current test on LBS | IEC 62271-103 | CI 6.101.1.2, Table3 of IEC 62271-103 |
| | | 8 | Short Circuit Making test on Earth Switch | IEC 62271-102 | CI 6.101 of IEC 62271-102 |
| | | 9 | Short circuit making & Breaking tests on CB – three phase fault | IEC 62271-100 | CI 6.112..1 of IEC 62271-100 |
| | | 10 | Single Phase test on CB | IEC 62271-100 | CI 6.108 of IEC 62271-100 |
| | | 11 | Double Erath Fault test on CB | IEC 62271-100 | CI 6.108 of IEC 62271-100 |
| | | 12 | Mechanical operation tests on LBS | IEC 62271-200 | CI 6.102.2 - IEC62271-200 |
| | | 13 | Mechanical operation tests on CB | IEC 62271-200 | CI 6.102.2 - IEC62271-200 |
| | | 14 | Mechanical Endurance tests on LBS | IEC 62271-103 | CI 6.102.2. - IEC 62271-103 |
| | | 15 | Mechanical Endurance tests on CB | IEC 62271-100 | CI 6.101.2.4 of IEC 62271-100 |
| | | 16 | Mechanical Endurance tests on DS | IEC 62271-102 | CI 7.102.3 of IEC 62271-102 |
| | | 17 | Partial Discharge test on CB & LBS | IEC 62271-200 | Annex BB , Procedure B of IEC 62271-200 |
| | | 18 | Pressure withstand test of gas filled compartment/Tank | IEC 62271-200 | CI 6.103.1 of IEC62271-200 |
| | | 19 | IP67 of Gas compartment/Tank | IEC 62271-200 | CI 6.7.1 of IEC62271-200 |

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| | | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 5%;">20</td> <td style="width: 45%;">IP54 for outdoor RMU</td> <td style="width: 20%;">IEC 62271-200 & IEC- 60529</td> <td style="width: 30%;">CI 6.7.1 of IEC62271-200</td> </tr> <tr> <td>21</td> <td>IAC on Cable Compartment</td> <td>IEC 62271-200</td> <td>CI 6.106 IEC62271-200</td> </tr> <tr> <td>22</td> <td>IAC on Gas Compartment</td> <td>IEC 62271-200</td> <td>CI 6.106 IEC62271-200</td> </tr> <tr> <td>23</td> <td>Cable charging current breaking test</td> <td>IEC 62271-100</td> <td>CI 6.102, 6.105 of IEC 62271-100</td> </tr> <tr> <td>24</td> <td>Capacitive current switching test</td> <td>IEC 62271-100</td> <td>CI 6.111 of IEC 62271-100</td> </tr> </table> <p>Note: The bidder can submit the test report with combination of above listed tests. The test of CB & LBS to be done on combined unit if bidder submits individual unit CB/LBS tests then both units test detailed test reports are to be submitted.</p> | 20 | IP54 for outdoor RMU | IEC 62271-200 & IEC- 60529 | CI 6.7.1 of IEC62271-200 | 21 | IAC on Cable Compartment | IEC 62271-200 | CI 6.106 IEC62271-200 | 22 | IAC on Gas Compartment | IEC 62271-200 | CI 6.106 IEC62271-200 | 23 | Cable charging current breaking test | IEC 62271-100 | CI 6.102, 6.105 of IEC 62271-100 | 24 | Capacitive current switching test | IEC 62271-100 | CI 6.111 of IEC 62271-100 |
| 20 | IP54 for outdoor RMU | IEC 62271-200 & IEC- 60529 | CI 6.7.1 of IEC62271-200 | | | | | | | | | | | | | | | | | | | |
| 21 | IAC on Cable Compartment | IEC 62271-200 | CI 6.106 IEC62271-200 | | | | | | | | | | | | | | | | | | | |
| 22 | IAC on Gas Compartment | IEC 62271-200 | CI 6.106 IEC62271-200 | | | | | | | | | | | | | | | | | | | |
| 23 | Cable charging current breaking test | IEC 62271-100 | CI 6.102, 6.105 of IEC 62271-100 | | | | | | | | | | | | | | | | | | | |
| 24 | Capacitive current switching test | IEC 62271-100 | CI 6.111 of IEC 62271-100 | | | | | | | | | | | | | | | | | | | |
| 7.2 | ROUTINE TESTS | <p>Following routine tests are to be done on 100% of the lot quantity</p> <ol style="list-style-type: none"> 1. Power Frequency Withstand Test. 2. Dimensional & Visual Checks 3. Operational & Interlock Tests of breaker & isolator switches 4. Helium leakage detection test in vacuum chamber 5. SF-6 leakage test in vacuum chamber 6. Sniffer Leak Detection Test on each and every sealed tank. 7. HV withstand test across isolator distance. 8. HV withstand test of control and auxiliary circuits. 9. Voltage Indication Tests on VPIS 10. Contact Resistance Test 11. IR Value. <p>For other components, as per applicability, the RTC as per relevant IS/IEC from Original Equipment manufacturer (OEM) shall be required:</p> <ol style="list-style-type: none"> 1. Cable Boots 2. Routine test report of the Relay 3. CT 4. FRTU 5. Auxiliary PT | | | | | | | | | | | | | | | | | | | | |
| 7.3 | ACCEPTANCE TESTS | <p>The test mentioned in ITP attached as annexure-2 to this document shall be carried out as acceptance test on random samples. Minimum 10% units (or minimum 2 RMU if lot size is small) of the lot shall be selected for acceptance test shall be selected for testing from each offered lot.</p> | | | | | | | | | | | | | | | | | | | | |

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Document Title **SPECIFICATION OF 11kV RING MAIN UNITS - 3W, 4W and 5 WAY**

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Reviewed By:

Approved By:

Issued By:

| Sr. No. | Tests details | Applicable standard | Acceptance Criteria |
|---------|--|---|--|
| 1 | PF withstand voltage test on LBS and CB combined with switches closed position | IEC62271-103, IEC 62271-200, IEC62271-1 | CI 6.2 of IEC62271-103, CI 7.2.7.2 & 7.2.7.3 of IEC62271-1 CI 6.2.6.1 & 6.2.6.2-IEC 62271-200 Should withstand 28kV for 1minute |
| 2 | HV withstand test across isolator distance with opened contact of VCB | IEC 62271-200, IEC62271-1 | Should withstand 28kV for 1minute |
| 3 | Voltage Indication Tests on VPIS | - | VPIS indication should lit up when voltage applied in all phases |
| 4 | Measurement of contact resistance on LBS & CB combined with all switches in closed condition | IEC 62271-200, IEC62271-1 | CI 6.4 & CI 6.5 of IEC 62271-200 Total resistance limit shall be maximum 350micro ohm with busbar & switches closed. |
| 5 | Dimensional & Visual Checks | - | As per approved drawing and technical compliance document for tender. Including earthing strip of tinned copper. |
| 6 | Operational & Interlock Tests of breaker & isolator switches | As per specification | All interlock shall operate without fail in any operation |
| 7 | Vacuum Bottle OEM & RTC | | Ensure the Vacuum bottle Make as per approved drawing & technical documents. |
| 8 | Leak Detection Test at bushing terminals after RMU assembly | IEC 62271-1 clause 8.5 | For gas-filled systems tested in factory, the probing test using a sniffing device to be done. The sensitivity of the sniffing device shall be at least 10^{-8} Pa \times m ³ /s. |
| 9 | HV withstand test of control and auxiliary circuits of motorised and Smart RMU | | Should withstand 2kV for one minute |
| 10 | Insulation resistance test | | With open contacts and closed contacts of switches. Should be in Giga-ohms. |
| 11 | Other components, as per applicability, the RTC as per relevant IS/IEC from Original Equipment manufacturer (OEM) to be shared for a. cable boot b. Relay c. CT d. motor e. FRTU d. Auxiliary PT | | OEM reports as per IS and IEC. |

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| | | 12 | For smart RMU compatibility & data integration check after operations, alarms and reset check | All desired functionality shall be checked along with auto-reclosing and auto-changeover. The relay data and FRTU configuration shall be verified bidder to keep ready with all details |
| | | 13 | Relay testing- Relay testing should be done with primary injection kit on installed relay. | Total tripping time with relay & without relay (Without relay shall be done at trip coil directly) timing shall be within specified in specification. |
| | | 14 | MIMIC plate check | a. Separate MIMIC plate for each feeder mechanism. b. Earth operation having yellow background marking. c. Labels having names like isolator, CB close open, earth switch close open labels along with symbols, |
| | | 15 | Other labelling | 1. FPI installation instruction in FPI cable chamber side wall. 2. Tightening torque of bushing bolt labelled in each cable compartment. 3. Name plate with all details |
| | | 16 | Interlock for cable charging | Check the operation and interlock for five times of bushing charging and discharging |
| | | 17 | The vermin proofing of cable compartment | Check there is no gaps or opening for vermin entry and all opening filled up with silicone or alternate material. |
| | | 18 | Temperature sensor check | Check accuracy at different temperature of randomly selected samples and also check the OEM test reports |

Bidder should have all the requisite testing equipment's to carry out routine and acceptance test mentioned in ITP and following set up to be arranged for RMU relay testing:

- a. Facility for primary current injection up to 1000amp.
- b. Facility to check total trip timing of breaker along with breaker main contacts through primary current injection

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| 8.0 | TYPE TEST CERTIFICATE | The Bidder shall furnish the type test certificates of the 11KV RMU of same design as offered in bid for the tests as mentioned above as per the corresponding standards. All the tests shall be conducted at CPRI/ERDA or any other International Laboratory as per the relevant standards of IS and IEC. Type tests shall have been conducted in certified Test laboratories during the period not exceeding 5 years from the date of opening the bid. In the event of any discrepancy in the |
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| | | <p>test reports, i.e. any test report not acceptable or any/all type tests (including additional type tests, if any) not carried out, same shall be carried out without any cost implication to TPNODL.</p> <p>Bids without all type test reports shall stand disqualified.</p> |
| 9.0 | PRE-DISPATCH INSPECTION | <p>Equipment shall be subject to inspection by a duly authorized representative of the TPNODL. Inspection may be made at any stage of manufacture at the option of the purchaser and the equipment if found unsatisfactory as to workmanship or material is liable to rejection. Supplier shall grant free access to the places of manufacture to TPNODL's representatives at all times when the work is in progress. Inspection by the TPNODL or it's authorized representatives shall not relieve the supplier of his obligation of furnishing equipment in accordance with the specifications.</p> <p>The first time supplies (new bidder or new models or change of design from previous supplies) shall be applicable for prototype inspection after CAT-B drawing approval and before mass manufacturing. In prototype manufacturing bidder have to make one or two sample RMU for inspection after CAT-B approval of drawings after award of RC/PO.</p> <p>Material shall be dispatched after specific MDCC (Material Dispatch Clearance Certificate) is issued by TPNODL. Following documents shall be sent along with material</p> <ul style="list-style-type: none"> a) Routine Test reports b) MDCC issued by TPNODL c) Invoice in duplicate d) Packing list e) Drawings f) Delivery Challen g) Installation and maintenance Manual soft copy for FPI, Relay, RMU h) Other Documents (as applicable) |
| 10.0 | INSPECTION AFTER RECEIPT AT STORE | <p>The material received at TPNODL, Bhubaneswar, Odisha Store will be inspected for acceptance and shall be liable for rejection if found different from the reports of the pre-dispatch inspection. If any deviation or anomaly observed at this stage same need to be rectified by bidder at bidders own cost at earliest.</p> |
| 11.0 | GUARANTEE | <p>1. Bidder shall stand guarantee towards design, materials, workmanship & quality of process / manufacturing of items under this contract for due and intended performance of the same, as an integrated product delivered under this contract. In the event any defect is found by the Purchaser up to a period of at least 48 months from the date of commissioning or 60 months from the date of last supplies made under the contract whichever is earlier, Bidder shall be liable to undertake to replace/rectify such defects at its own costs, within mutually agreed time frame, and to the entire satisfaction of the Purchaser, failing which the Purchaser will be at liberty to get it replaced/rectified at Bidder's risks and costs and recover all such expenses plus the Purchaser's own charges</p> |

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| | | <p>(@ 20% of expenses incurred), from the Bidder or from the “ Security cum Performance Deposit” as the case may be.</p> <p>2. In case of GP failure, BA shall report at site within 48 hours from intimation and arrange for rectification of fault within a mutually agreed time. In case rectification at site is not possible then alternative arrangement (replacement) to be made by BA within 15 days of intimation of failure. The SLA shall be as per attached.</p> <p>3. Bidder shall further be responsible for ‘free replacement’ for another period of THREE years from the end of the guarantee period for any ‘Latent Defects’ if noticed and reported by the Purchaser.</p> |
| 12. | PACKING | <p>Bidder shall ensure that all equipment covered by this specification shall be prepared for rail/road transport (local equipment) and be packed in such a manner as to protect it from damage in transit. The packing should be in such manner that during storage the RMU and its components should not be damaged. No single use plastic to be used in packing material. Packing should be done with environment friendly recyclable materials.</p> |
| 13.0 | TENDER SAMPLE | <p>Not applicable. Bidders to mention offered model number along with GA drawing during tender for each variant.</p> |
| 14. | TRAINING | <p>The bidder shall arrange to provide the installation and operating training at TPNODL offices as and when required for better installation and usage of the product.</p> <p>It is preferred that the service engineer present during installation shall arranged to provide the operation training of RMU to the staff during installation and inform about the critical points. In addition to this for new bidder, new product or change in design the bidder has to provide minimum 12 training sessions one at each district office of TPNODL.</p> <p>In addition to above bidder to share Digital /Video based training module for safe operation of RMU in pen drive.</p> |
| 15.0 | QUALITY CONTROL | <p>The bidder shall submit with the offer, assurance plan indicating the various stages of inspection, the tests and checks which will be carried out on the material of construction, components during manufacture and after finishing, bought out items and fully assembled component and equipment including drives. As part of the plan, a schedule for stage and final inspection within the parameters of the delivery schedule shall be furnished. The Purchaser's or its nominated representative engineer shall have free access to the manufacturer/sub-supplier's works to carry out inspections.</p> <p>To ensure proper operation of RMU the bidder shall provide onsite training of TPNODL teams as and when required. To ensure quality of installations bidder shall provide supervision support during impartation.</p> |

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| 16.0 | TESTING FACILITIES | <p>Bidder shall have adequate in house testing facilities for carrying out all routine tests, acceptance tests and special test as per this document and accordance to relevant International / Indian standards as mentioned.</p> <p>The bidder shall have in-house helium gas leakage detection system and all RMU main tank shall be checked for leakages.</p> | | | | | | | | | | | | |
|---------|---|--|--------------------------------------|-------------------------------------|---------|---------------------|---|--------------------------------------|-------------------------------------|--|--|--|--|--|
| 17.0 | MANUFACTURING ACTIVITIES | <ol style="list-style-type: none"> 1. The successful bidder will have to submit (after placement of RC) technical compliance document and drawing of cable as per RC line items for getting approval before mass manufacturing. 2. Manufacturing mass quantity to start only after getting CAT-A approved drawings or as per intimation from TPNODL. 3. The first time supplies (new bidder or new models or change of design from previous supplies) shall be applicable for prototype inspection after CAT-B drawing approval before mass manufacturing. In prototype manufacturing bidder have to make one or two sample RMU for inspection after CAT-B approval of drawings. | | | | | | | | | | | | |
| 18.0 | SPARES, ACCESSORIES & SPECIAL TOOLS / GAUGES | <p>Bidder shall provide a list of recommended spares with quantity and unit prices for 5 years of operation after commissioning.</p> <p>TPNODL may order all or any of the spare parts listed at the time of contract award and the spare parts so ordered shall be supplied as part of the definite works. TPNODL may order additional spares at any time during the contract period at the rates stated in the Contract Document.</p> <p>Bidder shall give an assurance that spare parts and consumable items will continue to be available through the life of the equipment which shall be 25 years minimum. However, the TPNODL shall be intimated with a minimum of 12 month notice in the event that the Bidder or any sub-vendor plans to discontinue manufacturing of any component used in this equipment.</p> <p>Any spare apparatus, parts or tools shall be subject to the same specification, tests and conditions as similar material supplied under the Contract. They shall be strictly interchangeable and suitable for use in place of the corresponding parts supplied with the plant and must be suitably marked and numbered for identification.</p> <p>Bidder has to provide quotation unit rate for below mentioned spare of RMU</p> <table border="1"> <thead> <tr> <th>SL. No.</th> <th>Name of Spare Parts</th> <th>Required spares with above 100 No. of RMU</th> <th>Required spares with above 30 No. up</th> <th>Required spares up to 30 No. of RMU</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table> | | | SL. No. | Name of Spare Parts | Required spares with above 100 No. of RMU | Required spares with above 30 No. up | Required spares up to 30 No. of RMU | | | | | |
| SL. No. | Name of Spare Parts | Required spares with above 100 No. of RMU | Required spares with above 30 No. up | Required spares up to 30 No. of RMU | | | | | | | | | | |
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| | | | | to 100 No. of RMU |
|----|--|-------------------------|-----------|----------------------|
| 1 | Breaker Mechanism | 4 No's | 3 No's | 2 No's |
| 2 | Isolator Mechanism | 4 No's | 3 No's | 2 No's |
| 3 | Trip Coil | 5 No's | 3 No's | 2 No's |
| 4 | Relay | 5 No's | 3 No's | 2 No's |
| 5 | CT (All types) | 3 Sets (1 Set = 3 Nos.) | 2 Set | 1 Set |
| 6 | Bolt (For cable connection) | 5 Sets (1 Set = 3 Nos.) | 3 Set | 2 Set |
| 7 | "L" Key (All Size) | 2 Sets | 1 Set | 1 Set |
| 8 | Operating Handle | 1 No. | 1 No. | 1 No. |
| 9 | Cable Bushing (If replaceable) | 15 (5 Set) | 9 (3 Set) | NA |
| 10 | VPIs | 10 No's | 5 | NA |
| 11 | FPI | 10 No's | 5 | NA |
| 12 | Push Button (ON & OFF Both) | 10 (5 On & 5 Off) | 6 | NA |
| 13 | Manometer | 5 No's | 3 | NA |
| 14 | Washer (S.S.) | 20 No's | 15 | NA |
| 15 | Anti vandal Screw (All Size) | 20 No's | 15 | NA |
| 16 | Cable Boot | 5 sets | 3 Sets | NA |
| 17 | Reducer M16 to M12 | 12 | 3 | NA |
| 18 | M12 to M16 conducting Bolt (If M12 bushing supplied in past) | 12 | 3 | NA |
| 19 | The nonmagnetic base plate arrangement for 3x 1Cx 630 mm cable | 10 | 5 | NA |
| 20 | HDPE cable cleat arrangement for 3x 1Cx | 10 | 5 | NA |

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| | | 630 mm cable in incomer LBS included | | | |
| | 21 | The extensibility connection kit – indoor RMU | 10 | 10 | NA |
| | 22 | The extensibility connection kit – Out door RMU | 10 | 10 | NA |

| 19.0 | DRAWINGS & DOCUMENTS | <p>Following drawings and documents shall be prepared based on TPNODL specifications and statutory requirements and shall be submitted with the bid:</p> <ol style="list-style-type: none"> a) Completely filled in Technical Particulars b) Any deviation sheet or No deviation c) General description of the equipment and all components including brochures. d) General arrangement for RMU e) SLD of each feeder f) Arc path drawing of all variants offered g) Foundation plan h) Experience List i) All set of Type test certificates & detailed reports for offered design of each variant <p>Drawings / documents to be submitted for approval after the award of the contract are as under:</p> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th style="width: 8%;">Sl. No.</th> <th style="width: 55%;">Description</th> <th style="width: 10%;">For Approval</th> <th style="width: 10%;">For Review/ Information</th> <th style="width: 17%;">Final Submission</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td>General Technical Particulars (GTP)</td> <td style="text-align: center;">√</td> <td></td> <td style="text-align: center;">√</td> </tr> <tr> <td style="text-align: center;">2</td> <td>General Arrangement drawings</td> <td style="text-align: center;">√</td> <td></td> <td style="text-align: center;">√</td> </tr> <tr> <td style="text-align: center;">3</td> <td>Schematic Diagram of MIMIC with ON/OFF and all front labelling</td> <td style="text-align: center;">√</td> <td></td> <td style="text-align: center;">√</td> </tr> <tr> <td style="text-align: center;">4</td> <td>Bill of materials</td> <td style="text-align: center;">√</td> <td></td> <td style="text-align: center;">√</td> </tr> <tr> <td style="text-align: center;">5</td> <td>Arc path drawing for each variant</td> <td style="text-align: center;">√</td> <td style="text-align: center;">√</td> <td style="text-align: center;">√</td> </tr> <tr> <td style="text-align: center;">6</td> <td>SLD of complete RMU and feeders</td> <td style="text-align: center;">√</td> <td style="text-align: center;">√</td> <td style="text-align: center;">√</td> </tr> <tr> <td style="text-align: center;">7</td> <td>Control wiring diagram and arrangement in control cubicle</td> <td style="text-align: center;">√</td> <td style="text-align: center;">√</td> <td style="text-align: center;">√</td> </tr> <tr> <td style="text-align: center;">8</td> <td>Cable compartment internal dimension drawing and one drawing stating standard boots arrangement</td> <td style="text-align: center;">√</td> <td style="text-align: center;">√</td> <td style="text-align: center;">√</td> </tr> </tbody> </table> | Sl. No. | Description | For Approval | For Review/ Information | Final Submission | 1 | General Technical Particulars (GTP) | √ | | √ | 2 | General Arrangement drawings | √ | | √ | 3 | Schematic Diagram of MIMIC with ON/OFF and all front labelling | √ | | √ | 4 | Bill of materials | √ | | √ | 5 | Arc path drawing for each variant | √ | √ | √ | 6 | SLD of complete RMU and feeders | √ | √ | √ | 7 | Control wiring diagram and arrangement in control cubicle | √ | √ | √ | 8 | Cable compartment internal dimension drawing and one drawing stating standard boots arrangement | √ | √ | √ |
|---------|---|--|-------------------------|------------------|--------------|-------------------------|------------------|---|-------------------------------------|---|--|---|---|------------------------------|---|--|---|---|--|---|--|---|---|-------------------|---|--|---|---|-----------------------------------|---|---|---|---|---------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|
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| 1 | General Technical Particulars (GTP) | √ | | √ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | General Arrangement drawings | √ | | √ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | Schematic Diagram of MIMIC with ON/OFF and all front labelling | √ | | √ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | Bill of materials | √ | | √ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | Arc path drawing for each variant | √ | √ | √ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | SLD of complete RMU and feeders | √ | √ | √ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | Control wiring diagram and arrangement in control cubicle | √ | √ | √ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | Cable compartment internal dimension drawing and one drawing stating standard boots arrangement | √ | √ | √ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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| | | | | | | | |
| | | | and cable earthing arrangement with cable | | | | |
| | | 9 | CT mounting arrangement drawing with details of fixing and frame movement etc. | √ | | | √ |
| | | 10 | Foundation Plan/Drawing | √ | √ | | √ |
| | | 11 | Installation & Maintenance Instructions and manual | | | | √ |
| | | 12 | QA & QC Plan | √ | | | √ |
| | | 13 | Test Certificates | √ | √ | | √ |
| | | <p>All the documents & drawings shall be in English language.</p> <p>After the receipt of the order, the successful bidder will be required to furnish all detailed drawings of components for TPNODL approval.</p> <p>Instruction Manuals: Bidder shall furnish softcopies and one hard copy manuals of RMU, FPI, Relay (In English language) covering erection and maintenance instructions and all relevant information and drawings pertaining to the main equipment as well as auxiliary devices.</p> | | | | | |
| 20.0 | GENERAL TECHNICAL PARTICULARS FOR RMU | Bidder to submit compliance to all above clauses and sub-clauses and shall furnish all desired details as technical compliance document. | | | | | |
| 21 | SCHEDULE OF DEVIATIONS | <p><u>(TO BE ENCLOSED WITH TECHNICAL BID)</u></p> <p>All deviations from this specification shall be set out by the Bidders, clause by Clause in this schedule. Unless specifically mentioned in this Schedule, the tender shall be deemed to confirm the purchaser's specifications:</p> | | | | | |
| | | S.No. | Clause No. | Details of deviation with justifications | | | |

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TP NORTHERN ODISHA DISTRIBUTION LTD, BALASORE
TECHNICAL SPECIFICATION

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

Seal of the Company:

Designation

Signature

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**ANNEXURE 1 – I/O LIST
SIGNAL LIST FOR AUTOMATION**

| Description | Status(DI) | | Reset Element |
|----------------------------|--------------|-------------|---------------|
| | Switch close | Switch Open | |
| Type | | | |
| RMU Switch | 1 | 1 | |
| Breakers | 0 | 0 | |
| FPI | | 1 | 1 |
| Pressure Gauge (manometer) | | 1 | |
| VPIS | 1 | 1 | |

Note: 0 indicate functionality not req. for that element, 1 indicate functionality required for that element

Additional IOs-

| Sr.No. | I/O |
|--------|-----------------------------|
| 1 | RMU switch Control Command |
| 2 | Earth Sw. 1 Status Input |
| 3 | Earth Sw. 2 Status Input |
| 4 | FPI Reset |
| 5 | FRTU Local/Remote Position |
| 6 | FRTU Door Open |
| 7 | FRTU Battery Charger Faulty |
| 8 | FRTU Battery Faulty |
| 9 | FRTU Switchgear Supply Off |
| 10 | FRTU Aux Supply Off |
| 11 | FRTU Fault |
| 12 | Relay operation |
| 13 | CB OFF status |
| 14 | CB ON status |
| 15 | CB ON/OFF Command |
| | |

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Annexure-2 - Inspection Test Plan

| Sr. No. | Tests details | Applicable standard | Acceptance Criteria |
|---------|--|---|--|
| 1 | PF withstand voltage test on LBS and CB combined with switches closed position | IEC62271-103, IEC 62271-200, IEC62271-1 | CI 6.2 of IEC62271-103, CI 7.2.7.2 & 7.2.7.3 of IEC62271-1 CI 6.2.6.1 & 6.2.6.2-IEC 62271-200 Should withstand 28kV for 1minute |
| 2 | HV withstand test across isolator distance with opened contact of VCB | IEC 62271-200, IEC62271-1 | Should withstand 28kV for 1minute |
| 3 | Voltage Indication Tests on VPIS | - | VPIS indication should lit up when voltage applied in all phases |
| 4 | Measurement of contact resistance on LBS & CB combined with all switches in closed condition | IEC 62271-200, IEC62271-1 | CI 6.4 & CI 6.5 of IEC 62271-200 Total resistance limit shall be maximum 350micro ohm with busbar & switches closed. |
| 5 | Dimensional & Visual Checks | - | As per approved drawing and technical compliance document for tender |
| 6 | Operational & Interlock Tests of breaker & isolator switches | As per specification | All interlock shall operate without fail in any operation |
| 7 | Vacuum Bottle OEM & RTC | | Ensure the Vacuum bottle Make as per approved drawing & technical documents. |
| 8 | Leak Detection Test at bushing terminals after RMU assembly | IEC 62271-1 clause 8.5 | For gas-filled systems tested in factory, the probing test using a sniffing device to be done. The sensitivity of the sniffing device shall be at least 10 ⁻⁸ Pa × m ³ /s. |
| 9 | HV withstand test of control and auxiliary circuits of motorised and Smart RMU | | Should withstand 2kV for one minute |
| 10 | Insulation resistance test | | With open contacts and closed contacts of switches. Should be in Giga-ohms. |
| 11 | Other components, as per applicability, the RTC as per relevant IS/IEC from Original Equipment manufacturer (OEM) to be shared for a. cable boot b. Relay c. CT d. motor c. FRTU d. Auxiliary PT | | OEM reports as per IS and IEC. |
| 12 | For smart RMU compatibility & data integration check after operations, alarms and reset check | | All desired functionality shall be checked along with auto-reclosing and auto-changeover. The relay data and FRTU configuration shall be verified bidder to keep ready with all details |

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| | | | |
|----|--|--|---|
| 13 | Relay testing- Relay testing should be done with primary injection kit on installed relay. | | Total tripping time with relay & without relay (Without relay shall be done at trip coil directly) timing shall be within specified in specification. |
| 14 | MIMIC plate check | | <ul style="list-style-type: none"> a. Separate MIMIC plate for each feeder mechanism. b. Earth operation having yellow background marking. c. Labels having names like isolator, CB close open, earth switch close open labels along with symbols, |
| 15 | Other labelling | | <ul style="list-style-type: none"> 1. FPI installation instruction in FPI cable chamber side wall. 2. Tightening torque of bushing bolt labelled in each cable compartment. 3. Name plate with all details |
| 16 | Interlock for cable charging | | Check the operation and interlock for five times of bushing charging and discharging |
| 17 | The vermin proofing of cable compartment | | Check there is no gaps or opening for vermin entry and all opening filled up with silicone or alternate material. |
| 18 | Temperature sensor check | | Check accuracy at different temperature of randomly selected samples and also check the OEM test reports |

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