



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

NIT No.: TPCODL/P&S/118/2020-21

**OPEN TENDER NOTIFICATION**

**FOR**

**RATE CONTRACT FOR GIS Survey and Data  
Creation**

**Tender Enquiry No.: TPCODL/P&S/118/20-21**

**Due Date for Bid Submission: 02-Nov-2020 [15:00 Hrs.]**

**TP Central Odisha Distribution Limited**  
**(A TATA Power and Odisha Government Joint Venture)**  
**Procurement & Stores Department,**  
**2<sup>nd</sup> Floor, IDCO Towers, Janpath, Bhubaneswar – 751022**



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NIT No.: TPCODL/P&S/118/2020-21

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## 1.0 Event Information

### 1.1. Scope of work

**Open Tenders are** invited from interested and eligible Bidders for-

S. No.	Description	EMD Amount (Rs.)	Tender Fee* (Rs.)
1.	Rate Contract for GIS Survey and Data creation.	11,00,000	5,000

*\*inclusive of GST*

### 1.2. Availability of Tender Documents

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

**Chief (Procurement & Stores)**  
TP Central Odisha Distribution Limited  
2<sup>nd</sup> Floor, IDCO Towers, Janpath, Bhubaneswar – 751022

Tender documents may be downloaded by interested eligible bidders from TPCODL website [www.tpcentralodisha.com](http://www.tpcentralodisha.com) with effect from 16 October 2020. In the event of detailed tender documents are downloaded from TPCODL website, the Tender Fee shall be compulsorily submitted either online through NEFT/ RTGS or demand draft/ Banker's cheque drawn in favor of "TP Central Odisha Distribution Limited", payable at Bhubaneswar only. Any such bid submitted without this Fee shall be rejected.

Bidders are requested to visit TPCODL website [www.tpcentralodisha.com](http://www.tpcentralodisha.com) regularly for any modification/ clarification to the bid documents.

### 1.3. Calendar of Events

(a)	Date of sale/ availability of tender documents from TPCODL Website	From 16.10.2020 Onwards
	Date by which Interested and Eligible Bidder to pay Tender Fee and confirm participation.	22.10. 2020, 15:00 Hrs
(b)	Date & Time of Pre-Bid Meeting (if any)	Not Applicable
(c)	Last Date of receipt of pre-bid queries, if any	26.10.2020; 15:00 Hours
(d)	Last Date of Posting Consolidated replies to all the pre-bid queries as received	28.10.2020
(e)	Last date and time of receipt of Bids	02.11.2020; 15:00 Hours
(f)	Date & Time of Opening of Technical Bids	Participating Bidders will get mail intimation from E-Tender portal (Ariba) when

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	their Technical Bids are opened
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**Note :-** In the event of last date specified for submission of bids and date of opening of bids is declared as a closed holiday for TPCODL's office, the last date of submission of bids and date of opening of bids will be the day following working day at appointed times.

#### **1.4 Mandatory documents required along with the Bid**

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

***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:-

- i. EMD of requisite value and validity
- ii. Tender fee of requisite value
- iii. Price Bid as per the Price Schedule mentioned in Annexure I (BOQ)
- iv. Necessary documents against compliance to Qualification Requirements mentioned at Clause 1.7 of this Tender Document
- v. Filled in Schedule of Deviations as per Annexure III
- vi. Filled in Schedule of Commercial Specifications as per Annexure IV
- vii. Receipt of Bid within the due date and time

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

#### **1.7 Qualification Criteria**

Qualification Requirements attached with Tender Document



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### 1.8. Marketing Integrity

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

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

### 1.9. Supplier Confidentiality

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

### 2.0 Evaluation Criteria

- The bids will be evaluated technically on the compliance to tender terms and conditions
- The bids will be evaluated commercially on the overall all-inclusive lowest cost on line-item basis as calculated in Schedule of Items [Annexure I]. TPCODL however, reserves right to split the order line item wise and/or quantity wise among more than one Bidder. Hence all bidders are advised to quote their most competitive rates against each line item.
- Bidder has to mandatorily quote against each item of Schedule of Items [Annexure I]. Failing to do so, TPCODL may reject the bids.

**NOTE:** In case a new bidder is not registered with TPCODL, factory inspection and evaluation shall be carried out to ascertain bidder's manufacturing capability and quality procedures. However TPCODL reserves the right to carry out factory inspection and evaluation for any bidder prior to technical qualification.

In case a bidder is found as Disqualified in the factory evaluation, their bid shall not be evaluated any further and shall be summarily rejected. The decision of TPCODL shall be final and binding on the bidder in this regard.

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

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

### 3.0 Submission of Bid Documents

#### 3.1 Bid Submission

Bidders are requested to submit their offer in line with this Tender document through e-tendering process. Please note all future correspondence regarding the tender, bid submission, bid submission date extension, Pre-bid query etc. will happen only through TPCODL E-Tender system (Ariba). No e-mail or verbal correspondence will be responded.



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

Bids shall be submitted in 3 (three) parts:

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

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

**Account Name:** TP CENTRAL ODISHA DISTRIBUTION LIMITED  
**Bank Name:** SBI, IDCO Towers, Bhubaneswar  
**Bank Account No. :** 10835304915  
**IFSC Code:** SBIN0007891

**Note-** EMD is preferred in form of Bank Guarantee and to be delivered at the following address. However, in view of present situation if Bidder is finding it difficult to make and submit BG for EMD amount, they can do online transfer of EMD amount in the above mentioned Account and submit proof of the same as part of Bid Submission.

Please note that in such case, Tender Fee and EMD should be strictly 2 separate transactions.

Please note as return of EMD from Bank Account is non-standard practice the same may take more time than return of EMD BG.

**EMD Original Hard Copy shall be delivered at the following address in Envelope clearly indicating Tender Reference/ Enquiry Number, Name of Tender and Bidder Name**

**Chief (Procurement & Stores)**  
**TP Central Odisha Distribution Limited**  
**2<sup>nd</sup> Floor, IDCO Towers, Janapath, Bhubaneswar- 751022**

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

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

**The technical / un-priced commercial bid shall be properly indexed and is to be submitted in Soft Copy though E-Tender system of Tata Power. Hard Copy of Technical Bids need not be submitted.**

**Second Part has to be submitted through E-Tender System Only.**



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**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 TPCODL E-Tendering system (Ariba) only. Hard copy of Price Bid not be submitted.**

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

EMD

**“Rate Contract for GIS Survey and Data Creation”**

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

**SIGNING OF BID DOCUMENTS:**

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

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

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

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

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



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### 3.2 Contact Information

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

#### Communication Details:

Name: Abrar Khan  
Contact No.: 9029009468  
E-Mail ID: [abrarkhan@tatapower.com](mailto:abrarkhan@tatapower.com)

#### Senior General Manager (Procurement):

Name: Mr. Deba Prasad Dash  
Contact No.: 9438297571  
E-Mail ID: [debaprasad.das@tpcentralodisha.com](mailto:debaprasad.das@tpcentralodisha.com)

### 3.3 Bid Prices

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

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

### 3.6 Alternative Bids

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

### 3.7 Modifications and Withdrawal of Bids

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





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### **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 TPCODL against the risk of bidder's conduct which would warrant forfeiture.

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

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

#### ***The EMD shall be forfeited in case:***

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

**Or**

b) The successful Bidder does not

- a) accept the Purchase Order, or
- b) furnish the required Performance Security Bank Guarantee

## **4 Bid Opening & Evaluation process**

### **4.1. Process to be confidential**

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

### **4.2. Technical Bid Opening**

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

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

Next, the technical bid of the bidders who have furnished the requisite EMD will be opened, one by one.

### **4.3. Preliminary Examination of Bids/Responsiveness**

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

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



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

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

#### **4.4. Techno Commercial Clarifications**

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

#### **4.5. Price Bid Opening**

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

#### **4.6. Reverse Auctions**

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

### **5 Award Decision**

TPCODL will award the contract to the successful bidder whose bid has been determined to be the lowest-evaluated responsive bid as per the Evaluation Criterion mentioned at Clause 2.0. The Cost for the said calculation shall be taken as the all-inclusive cost quoted by bidder in Annexure I (Schedule of Items) subject to any corrections required in line with Clause 3.2 above. The decision to place purchase order/LOI solely depends on TPCODL on the cost competitiveness across multiple lots, quality, delivery and bidder's capacity, in addition to other factors that TPCODL may deem relevant.

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

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

### **6 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)



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5. Technical Specifications (Annexure II)
6. Acceptance Form for Participation in Reverse Auction (Annexure VI)
7. General Conditions of Contract (Annexure VIII)

## **7 Post Award Contract Administration**

### **7.1. Special Conditions of Contract**

- After finalization of tender, Order shall be issued to successful bidder. Prices shall remain firm.
- Business Associate (BA) shall submit applicable Performance Bank Guarantee as per GCC within 30 days of issuance of order. PBG applicable shall be 10% of Order Value. PBG submitted, shall be released after completion of applicable guarantee period plus one month.
- Guarantee applicable shall be as per technical specifications.
- BA shall submit GTP / Drawing within 2 weeks from issuance of contract for approval from TPCODL. In case BA does not get necessary approvals of drawing/GTP within mentioned / mutually agreed timelines, then TPCODL reserve the right to cancel issued contract and also reserve the right to forfeit EMD / PBG.
- Any change in statutory taxes, duties and levies during the contract period shall be borne by TPCODL.
- All the terms and conditions of TPCODL General Conditions of Contract shall be applicable.

### **7.2 Drawing Submission and 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 Timelines**

As per attached scope of work.

### **7.4 Warranty Period**

Applicable as per technical specification attached separately with this tender

### **7.5 Payment Terms**

On completion of the installation work of the materials in good condition and certification of acceptance by TPCODL, BA shall submit the Bills / Invoices in original in the name of TP Central Odisha Distribution Limited to Invoice Desk.

The payment shall be released within 60 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. Please refer attached Environment Policy and Sustainability Policy, Annexure-XI for more details.



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### **7.7 Ethics**

TPCODL is an ethical organization and as a policy TPCODL lays emphasis on ethical practices across its entire domain. Bidder should ensure that they should abide by all the ethical norms and in no form either directly or indirectly be involved in unethical practice.

TPCODL work practices are governed by the Tata Code of Conduct which emphasizes on the following:

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

Bidder is advised to refer Tata Code of Conduct (TCOC) attached at Annexure X for more information.

Any ethical concerns with respect to this tender can be reported to the following e-mail ID:

[purchase@cescoorissa.com](mailto:purchase@cescoorissa.com) / [pkjain@tatapower.com](mailto:pkjain@tatapower.com)

### **8 Specification and standards**

As per Annexure.

### **9 General Condition of Contract**

Any condition not mentioned above shall be applicable as per GCC attached along with this tender.

### **10 Safety**

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



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**ANNEXURE I**

**Schedule for Items (Price Bid)**

**Attached Separately with Tender Document**

**NOTE:**

- Initially rate contract will be issued in phases for Year 1. Based on the performance of bidder, the rate contract may be extended for Year-2 and Year-3 .
- The quantities as mentioned in schedule for items are indicative and for evaluation purpose only.
- Actual quantities may vary as per requirements during contract period & TPCODL shall place Release Orders (RO's) accordingly, as and when required.
- The bids will be evaluated commercially on the overall lowest cost Therefore bidders are advised to quote their best price on overall basis.
- 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.
- The bidders are advised to quote prices strictly in the format attached.



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**ANNEXURE II**  
**Technical Specifications**

**Attached:**

1. Scope of work with other details

CONFIDENTIAL



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**ANNEXURE III**

**Schedule of Deviations**

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

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

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

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

**Seal of the Bidder:**

**Signature:**

**Name:**



**TP CENTRAL ODISHA DISTRIBUTION LIMITED**  
(A Tata Power & Odisha Govt. joint venture)  
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**ANNEXURE IV**

**Schedule of Commercial Specifications**

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

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

**Seal of the Bidder:**

**Signature:**

**Name:**





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**ANNEXURE V**

**Checklist of all the documents to be submitted with the Bid**

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

S. No.	Documents attached	Yes / No / Not Applicable
1	EMD of required value	
2	Tender Fee as mentioned in this tender	
3	Signed copy of this tender 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	

**Seal of the Bidder:**

**Signature:**

**Name**



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### **ANNEXURE VI**

### **ACCEPTANCE FORM FOR PARTICIPATION IN REVERSE AUCTION EVENT**

*(To be signed and stamped by the bidder)*

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

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

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

**Signature & Seal of the Bidder**



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**ANNEXURE VII**  
**SCOPE OF WORK**

Attached with Tender Document

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**ANNEXURE VIII**  
**GENERAL CONDITIONS OF CONTRACT**

**Attached:** General Conditions of Contract for Supply Orders

: General Conditions of Contract for Service Orders

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## **ANNEXURE IX**

### **SAFETY POLICY AND SAFETY TERMS AND CONDITIONS**

#### **Definitions**

**Order Manager:** Order Manager is the Tata Power representative, who has the ownership of the given job under the signed contract.

**Service Provider/Contractor/Vendor:** An individual or an organization that provides services to Tata Power under a signed contract.

**Site Safety Management Plan:** It is the safety plan agreed between Contractor / Service provider and Tata Power. It will contain the entire job specific safety requirement and will be signed by the service provider.

**High Risk Job:** Any job which has significant health and safety risk associated to it. The list of high risk jobs has been identified at Tata Power level.

**Emergency:** A serious, unexpected, business discontinuity and often dangerous situation resulting into loss of revenue / property and requiring immediate action.

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## 1. Safety Policy



### HEALTH AND SAFETY POLICY

Tata Power is committed to provide safe and healthy working environment for the prevention of work related injuries and ill-health. Safety is one of our core values. We strive to be a leader in safety excellence in the global power and energy business. In pursuit of this, we are committed to the following:

- Maintain and continually improve our management systems to eliminate hazards and reduce health & safety risks to all our stakeholders.
- Incorporate appropriate health & safety criteria into business decisions for selection of plant and technology, performance appraisal of individuals and appointments in key positions.
- Comply and endeavour to exceed all applicable health & safety legal and other requirements
- Integrate health & safety procedures and best practices into every operational activity with assigned line-functional responsibilities at all levels.
- Involve our employees and business associates in maintaining a safe and healthy work environment through consultation and participation
- Inculcate safety culture by visible leadership and empowerment.
- Ensure required competency to enable our employees and business associates for working safely.
- Promptly report incidents, investigate, share crucial learnings and prevent recurrences.
- Influence our business associates in enhancing their health and safety standards and align with Tata Power's health & safety codes and practices.
- Set safety & health metrics as indicators of excellence, monitor progress and continually improve health and safety performance.

We shall ensure the availability of appropriate resources at all times to fully implement and communicate this policy to all stakeholders by suitable means and periodically review its relevance in continuously changing business environment.

(Praveer Sinha)  
CEO & Managing Director

Date: 11<sup>th</sup> March, 2019  
**TATA POWER**  
Lighting up Lives!





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## 2. Safety Organization & Responsibilities

### 2.1 Contractor Site Management and Supervision

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

Each Contractor shall provide at least one competent full time safety supervisor for workforce of less than 100 numbers. When workforce ranges from 100 to 1000, the contractor has to provide at least one qualified safety officer and safety supervisors (reporting to the safety officer) in the ratio 1:100. For every 1000 addition in workforce, the contractor has to add 1 safety officer. The Tata Power Project Safety Manager will review and approve the appointment of all safety supervisors. Contractor/Subcontractor safety supervisors/officers will work with Tata Power Safety Managers and align themselves with Tata Power safety requirements.

Each Contractors'/Subcontractors' Site Manager is responsible, and will be held accountable, for the safety of their sub-contractors and workforce and for ensuring that all equipment, materials, tools and procedures remain in safety compliance at job site, including:

- Holding officer/supervisors accountable for safety and actively promote safe work performance.
- Participate in and cooperate with all safety program requirements to be implemented in order to meet Tata Power safety objectives.
- Ensure timely reporting of safety incidents, near misses, unsafe acts and conditions.
- Identify the training needs of its employees and maintain all safety training documents.
- Provide safety performance report at an agreed frequency.
- Stopping of unsafe work (acts and/or conditions) immediately, until corrective action be taken.

### 2.2 Contractor Supervisors and General Staff

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

Each site supervisor is responsible and will be held accountable for identifying, analyzing and eliminating or controlling all hazards through implementation of an aggressive, pro-active Health, Safety and Environmental Program from project inception through project completion. Each supervisor will proactively participate in the SHE program by observing, correcting unsafe acts, and recording these observations.

### 2.3 Contractor Workforce



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Contractor workforce must make safety a part of their job by following safety rules and regulations and by using all safeguards and safety equipment. They must take an active part in the Site Safety program to ensure their own safety and injury-free employment as well as being alert to unsafe practices of their fellow employees.

Every member of the workforce is expected to report for work without influence of any Drug/Alcohol. All employees are expected to report any hazardous conditions practices and behaviors in their work areas and correct where ever possible. Workforce is responsible for active participation in safety and health programs, suggestion systems, trainings and in immediate reporting of all injuries, any unsafe practices, conditions or incidents to their supervisors.

#### 2.4 Vendor/Contractor

Vendors/Contractor shall at all times comply with, and ensure that their workforce comply with all site safety rules and regulations. Specifically, with applicable provisions of the Tata Power Site Safety Management Plan, and all statutory safety rules and regulations.

### 3. Site Safety Rules and Procedures

The work in the safest possible manner can only happen when it has been carefully planned and all applicable procedures are followed. The Tata Power Safety Procedures are derived from Tata Power best practices and the applicable Government acts regulations. In each case, the most stringent regulation is used.

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

#### 3.1 Lock Out and Tag Out Procedure

This procedure is intended to be used for the protection of Personnel while servicing or performing maintenance on equipment / pipeline / vessel / process systems. This is a general procedure that shall be used as the minimum requirements for isolation of equipment, pipelines, machines, system from all possible sources of hazardous energy and / or material such as Steam, Hot Water, Compressed Air, any other process fluid / chemical energy/Mechanical energy or Electrical energy. For complete procedure kindly refer Procedure Document No. TPSMS/CSP/LOTO/001 REV 01 available on official website of Tata Power ([www.tatapower.com](http://www.tatapower.com))

#### 3.2 Excavation Safety (Shoring and Sloping) Procedure

This procedure is developed to cover the safe practices required for shoring and sloping in excavation and trenching jobs. This procedure is developed to establish mandatory requirements for practices to protect personnel, property and equipment from hazards associated with above activities. For complete procedure kindly refer Procedure Document No TPSMS/CSP/EXS/002 REV 01 available on official website of Tata Power ([www.tatapower.com](http://www.tatapower.com))

#### 3.3 Confined Space Entry Procedure





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This procedure outlines the steps required to perform the confined space entry and to protect personnel from the hazards of entering and conducting operations in confined spaces. For complete procedure kindly refer Procedure Document No –TPSMS/CSP/CSE/003 REV 01 available on official website of Tata Power ([www.tatapower.com](http://www.tatapower.com))

#### 3.4 Working at Height Procedure

This procedure describes the rules and procedures to protect employees from the hazards of working at heights.

This procedure is developed to cover the safe practices required for Working at Heights. This procedure is developed to establish mandatory requirements for practices to protect personnel from hazards associated in this area. For complete procedure kindly refer Procedure Document No –TPSMS/CSP/WAH/004 REV 01 available on official website of Tata Power ([www.tatapower.com](http://www.tatapower.com))

#### 3.5 Heavy Equipment Movement Safety Procedure

Heavy equipment lifting and movement is an activity involving loading, unloading, storage and movement from one place to another including lifting and erection or repairing of equipment with cranes or hoists. Material, machinery and equipment handling operations are being carried out by large capacity cranes and hoists, which make the job safer and faster. This procedure addresses the hazards and precautions associated with such equipment and their use. For complete procedure kindly refer Procedure Document No –TPSMS/CSP/HEMS/005 REV 01 available on official website of Tata Power ([www.tatapower.com](http://www.tatapower.com))

#### 3.6 Mobile Crane Safety Procedure

Mobile cranes are responsible for many incidents, injuries. Falling loads from mobile cranes pose a severe hazard to operators and nearby workers and property. Many types of cranes, hoists, and rigging devices are used for lifting and moving materials. To maintain safe, appropriate standards has to be adhered to and only qualified and licensed individuals shall operate these devices. For complete procedure kindly refer Procedure Document No –TPSMS/CSP/MCS/006 REV 01.

#### 3.7 Scaffold Safety Procedure

This procedure is developed to provide information on the safe erection, use, dismantling and maintenance of access scaffolding in the workplace. It is developed to establish mandatory requirements for practices to protect personnel from hazards associated with erection, use and dismantling of scaffolds. For complete procedure kindly refer Procedure Document No –TPSMS/CSP/SCAF/007 REV 01 available on official website of Tata Power ([www.tatapower.com](http://www.tatapower.com))

#### 3.8 Electrical Safety Procedure

The objective of these standards is to specify minimum mandatory requirements and advisory guidance for identifying and controlling hazards to ensure 'Zero Harm' with regard to operation maintenance and



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testing of electrical equipment. For complete procedure kindly refer Procedure Document No-TPSMS/CSP/ELEC/010 REV 01 available on official website of Tata Power ([www.tatapower.com](http://www.tatapower.com))

### 3.9 Job Safety Analysis (JSA) Procedure

This objective of this procedure is to have a task based risk assessment process in place that identifies, evaluates and controls the risks associated with work activities, and as a result, prevents those involved in the task or those potentially affected by the task, from being harmed. For complete procedure kindly refer Procedure Document No- TPSMS/CSP/JSA/009 REV 01 available on official website of Tata Power ([www.tatapower.com](http://www.tatapower.com))

### 3.10 Fire Safety Management Procedure

Objective of This standard is to specify the minimum mandatory requirements and advisory guidelines to ensure prevention of fire related incidents and managing / controlling their impacts if they do occur. For complete procedure kindly refer Procedure Document No- TPSMS/CSP/FSM/011 REV 01

### 3.11 Permit To Work Procedure

Given the inherent hazards of the power generation and distribution industry, a significant number of TATA POWER operations and installations are critical. Work Permit (WP) System is an essential element in controlling the workplace risks in an effective manner. For complete procedure kindly refer Procedure Document No –TPSMS/CSP/PTW/008 REV 01 available on official website of Tata Power ([www.tatapower.com](http://www.tatapower.com))

### 3.12 Lift (Elevator) Safety Procedure

To provide safe operating procedure for taking control of lift car before entering and existing the pit of OTIS make elevators. For complete procedure kindly refer Procedure Document No – TPSMS/GSP/LIFT/001 REV 01 available on official website of Tata Power ([www.tatapower.com](http://www.tatapower.com))

### 3.13 Working on conveyor belt Procedure

This procedure is developed to cover the safe practices required for Working on live equipment and to protect personnel from hazards associated with it. For complete procedure kindly refer Procedure Document No – TPSMS/GSP/CONV/002 REV 01 available on official website of Tata Power ([www.tatapower.com](http://www.tatapower.com))

### 3.14 Handling Hazardous Materials Procedure

This Procedure is developed to provide procedure for recycling and / or safe disposal of used / waste batteries in compliance with all legislation. For complete procedure kindly refer Procedure Document No-TPSMS/GSP/HAZM/003 REV 01 available on official website of Tata Power ([www.tatapower.com](http://www.tatapower.com))

### 3.15 Material Handling and Storage Procedure



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The purpose of this document is to provide procedures to assist the safe handling of materials (manual handling and mechanical handling). For complete procedure kindly refer Procedure Document No – TPSMS/GSP/MATL/004 REV 01 available on official website of Tata Power ([www.tatapower.com](http://www.tatapower.com))

### 3.16 Contractor Safety Management Procedure

The purpose of this document is to engage with contractors in a way to create safe work environment for everyone working for Tata Power. For complete procedure kindly refer Procedure Document No – TPSMS/GSP/CSM/015 REV 01 available on official website of Tata Power ([www.tatapower.com](http://www.tatapower.com))

The above procedures will be updated periodically and the updated version of the procedures as well as any additional critical procedure will be available on official website of Tata Power ([www.tatapower.com](http://www.tatapower.com)) for your reference.

## 4. Training and Capability Building

Safety Training and capability building of workforce is a major component of safety management program. All training required must be provided and documented as specified by Tata Power and Indian Regulations. Tata Power Safety Manager will audit contractors training and related documentation to assure its adequacy.

### 4.1 Tata Power Site Safety Orientation

All Tata Power contractor and subcontractor workforce is required to attend Tata Power Site Safety Orientation Training to receive a Safety Training Card, which is required to obtain a Gate Pass to the site, prior to entry.

This Safety Orientation Course will be for duration of minimum half day. The information provided during the orientation will include, but is not limited to following:

- Job rules, personal safety and conduct
- Hazards reporting
- Reporting of injuries
- Emergency procedures
- Safety Activities and Program including disciplinary measure and incentives.
- Critical safety procedure relevant to the job

### 4.2 Capability Building

Appropriate training such as L1, L2 & L3 is given to ensure that a jobholder, either supervisor or worker, is competent to do his/her job safely. The skill training is provided through TPSDI and other agencies authorized by Tata Power on the list of 15 procedures mentioned under safety procedure.

Contractor shall ensure that concerned workmen are provided with adequate training before he/she is allowed to execute the work.



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An evaluation test will be conducted after the completion of the training. Those workmen employee who meet the minimum required competency will be provided with Gold Card which is valid for 3 years, post which the workmen has to reappear for the assessment. If the workman is not able to qualify the assessment, he/she will be given 3 additional attempts to clear in 3 month timeframe failing which he/she will not be allowed to work on high risk jobs.

**5. Pre-Employment and Periodic Medical check up**

Contractor shall arrange to conduct a pre-employment and periodic medical check-up for its entire workforce by Tata Power medical officer or Tata Power authorized medical officer. The contractor shall be able to produce the certificate prior to the employment. The contractor shall also organize to conduct periodical medical checkup (six monthly) for the following category of employees:

- Drivers (Check for Vision & Hearing)
- Equipment Operators (Check for Vision & Hearing)
- Workforce working at Height (Check for Vision, Hearing, Vertigo & Height Phobia)
- Workforce Handling the hazardous substances (Coal, ash and chemicals)
- Workforce in high decibel area (> 90 Decibel, Check for Hearing)
- Workforce, working in specific areas requiring specific medical attention should conduct the medical test as laid down in the respective Site Safety Management Plan.

**6. Safety Performance Evaluation and Penalties**

A certain percentage of the bill value will be retained against every running bill as safety performance retention. The amount will be released with the last invoice based on "Safety Performance score" attached in CSM-F-3 of CSM procedure. The amount is based on following table

Contract Value	Retention Amount (%)
Upto 10 Lakhs	2.5
10 – 50 lakhs	2
0.5 to 10 Cr	1.5
>10 Cr	1

- Safety performance Score will be monitored by the Order Manager every month.
- For the contract value of more than Rs 1 Cr or contract duration more than 12 months, the retention amount shall be released half yearly based on safety performance. For all remaining contracts, the retention amount will be released with the final bill.
- In case of job stoppage due to safety violations/ unsafe observations at the site, no time extension shall be given to the contractor, if such delays are attributable to contractor.



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- In case of fatality, limb loss or loss of property, vendor has to pay for liability, legal, statutory and additional mutually agreed settlement charges imposed by the appointed committee. This charge is over and above the retention amount.
- The committee will finalize an amount between 5 -50 lakhs based on factors such as advise by statutory authorities, contract value and impact of accident etc.
- Safety performance bonus 1% (limiting to 50 lakhs) of the invoice value will be considered at the end of the job if the contractual safety performance score is 100%.
- During the progress of the work, concerned Supervisor/Engineer will visit and inspect the work site regularly and evaluate the safety performance of the contractor based on matrix attached herewith.
- Order Manager, divisional chief and SBU head have the authority to terminate the contract in case of three consecutive serious violations.

**7. Safety Performance Evaluation - CSM-F-3**

S. No.	Lead Indicators	Unit Of measurement	Target	Weightage
1	% of Employee certified in TPCODL/Authorized agency	%	50	10
2	CFSA score (Annexure 6.1)	Average Severity of Violations	1.49	20
3	Monthly inspection completed for Critical Equipments, lifting Tools & Tackles and hand tools used at site	%	80	5
4	Condition of tools, tackles and equipments	%	100	15
<b>Lag Indicators</b>				
1	Number of Fatalities	No.	0	30
2	Number of Lost work day case (LWDC)	No.	0	10
3	Man-days Lost	No.	0	10

In addition to above evaluation criteria, for specific violations penalty shall be imposed on the contractors under following circumstances:



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Sr No	Description of violation	Severity	Penalty /
1.	Working without Permit	5	5000/-
2.	Untrained (TPSDI) worker on high-risk jobs.	5	5000/-
3.	Unhygienic/Bad condition of PPE	2	250/-
4.	Not following Tata Power Procedure & Standard	4	2000/-
5.	Unsafe Act/Condition of Severity 4	4	2000/-
6.	Unsafe Act/Condition of Severity 5	5	5000/-
7.	No Earthing of Electrical equipment	5	5000/-
8.	Damaged welding cable	5	5000/-
9.	Violation of Positive Isolation Procedure ( LOTO Not followed )	5	5000/-
10.	ELCB of more than 30 mA/ELCB not working	5	5000/-
11.	On/Off switch of welding m/c not working	5	5000/-
12.	Electric cable tied with metal wire	5	5000/-
13.	Leakage found DA hose / cylinder	5	5000/-
14.	Use of LPG	5	5000/-
15.	Use of Three-wheeler at the work site.	5	5000/-
16.	Starting the job without Tool Box Talk	5	5000/-
17.	Spatter falling on DA hose / Gas-line/ pathways / Equipment	5	5000/-
18.	No safety latch in crane hook	5	5000/-
19.	Load raised or swung over people or occupied areas of buildings	5	5000/-
20.	Persons standing in swing area of construction equipments.	5	5000/-
21.	Using damaged slings.	5	5000/-
22.	Unstable scaffolding/non standard Scaffolding in use	5	5000/-
23.	Handrails and mid-rails are missing	5	5000/-
24.	Safety Harness not anchored with lifeline/fixed structure	5	5000/-
25.	Fall arrestor not provided/ Not being used.	5	5000/-
26.	Double life line not used for working at height	5	5000/-
27.	No rubber mat in DB room	4	2000/-
28.	Water found accumulated in DB room/near welding machine.	4	2000/-
29.	Inserting electric cables into socket, without using plug.	4	2000/-
30.	Use of damaged electrical cable/two core cables.	4	2000/-
31.	Inflammable material found in D.B Room./ welding areas.	4	2000/-
32.	Loose material falling into excavated pit	4	2000/-
33.	Water logging into excavated pit	4	2000/-
34.	No / inadequate Barricade	4	2000/-



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Sr No	Description of violation	Severity	Penalty /
35.	Undercut / cave-in found on sides of excavated pits	4	2000/
36.	Grinding wheel/ Coupling/ Piling winch/other rotating parts without guard	4	2000/
37.	The HMV/Mobile Crane operator does not having a valid HMV driving license.	4	2000/
38.	The loading area is not leveled properly.	4	2000/
39.	Ladder not anchored at top	4	2000/
40.	Opening found in working platform of scaffolding/floor	4	2000/
41.	Inadequate illumination at the working area	4	2000/
42.	Loose material lying on Gantry ,platform	4	2000/
43.	Cleaning body with Compressed Air.	3	500/-
44.	Gas Cylinders using without cap.	3	500/
45.	Gas Cylinders stored without securing	3	500/
46.	Bringing inside any other chemicals, apart from approved by Safety dept.	3	500/
47.	Using drum for sitting or accessing height.	3	500/
48.	Misusing emergency facilities like fire hydrant line/ hose box/ spray system/ eye wash etc.	3	500/
49.	No provision of Safety net where falling materials or tools may occurs	3	500/
50.	Taking electrical supply from non designated outlet (other than socket).	3	500/
51.	Restricted gangways due to unwanted materials.	3	500/
52.	Not reporting incident.	3	500/
53.	Entering into restricted area like switch yard/ hazardous storage etc.	3	500/
54.	Work without supervision	3	500/
55.	Parking of vehicle without applying wheel choke at right front-front and left rear-rear wheels other than passengers cars.	3	500/
56.	Vehicle without helper or co-driver.	3	500/
57.	Not wearing florescent safety jacket at site.	3	500/
58.	People travelling in load body of vehicle.	3	500/
59.	Parking of vehicles at non designated area.	3	500/
60.	Shifting heavy materials without guide ropes.	3	500/
61.	Using other than 24V lamp inside the confined space/Use of other than 24V lamps.	3	500/
62.	Angular/ starch loading/ lifting with Crane or hoist.	3	500/
63.	By passing the limit switch/ Safety Interlock.	3	500/
64.	Housekeeping activities on road without proper barricade.	3	500/



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

NIT No.: TPCODL/P&S/118/2020-21

Sr No	Description of violation	Severity	Penalty /
65.	Trying to board or alit from running vehicle.	3	500/-
66.	Cylinder Valves of Gas cylinders not closed when not in use.	3	500/-
67.	Flash-back arrester not used.	3	500/-
68.	Trolley wheel found damaged.	3	500/-
69.	Guy ropes of required length on both sides of object are not used during movement with load.	3	500/-
70.	Scotch block/wedge not provide when the vehicle is parked.	3	500/-
71.	Suitable Trolley not provided to hold the cylinders.	3	500/-
72.	Locked First Aid box	3	500/-
73.	Caution boards, danger signs (luminescent /red) along with emergency contact number are not found displayed.	3	500/-
74.	Person found jumping barricading tape	3	500/-
75.	Stacking of pipes, pile casing , drums without chock blocks/wedges	3	500/-
76.	The terrain on which Heavy Equipment/Machinery moves is not reasonably hard.	3	500/-
77.	Without Safety Helmet at working sites	4	250/-
78.	Without Crash Helmet (on bikes)	4	500/-
79.	Without Full body double lanyard Safety Harness (for work at height)	5	5000/-
80.	Without Hand gloves - Material Handling, Welding, Cutting,	4	100/-
81.	Without Safety goggles/ face shield - Welding/Cutting /Grinding	5	5000/-
82.	Handling Chemical without PVC Apron	5	5000/-
83.	Smoking in prohibited area (Closed Go-downs, Storage of flammable material, Storage of Gas cylinders)	5	1000/-
84.	Sleeping at Work Place	3	100/-
85.	Driving beyond speed limit	3	1000/-
86.	Seat Belt While Driving (for front seat passengers and driver)	3	500/-
87.	Driving without license	4	1000/-
88.	Heavy Commercial vehicles without reverse horn	3	500/-
89.	Non functional Head light/ tail light and side indicators	3	100/-
90.	Using Mobile Phone During Driving	5	5000/-
91.	Poor visibility of registration number/ without registration number	3	100/-
92.	Broken/ without Side view mirror	3	100/-
93.	Over speeding above specified limit	3	500/-
94.	Broken/ Without Pressure gauge on Oxygen/ LPG / Acetylene cylinder.	3	500/-





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NIT No.: TPCODL/P&S/118/2020-21

Sr No	Description of violation	Severity	Penalty /
95.	Without Flash back arrestor on Industrial Acetylene & Oxygen cylinders.	5	5000/-
96.	Spillage of hazardous material/chemicals during transportation	4	2000/-
97.	Electrical equipment without Earthing/ ELCB/ Double Insulation Cable.	5	5000/-
98.	Lifting Tools & Tackles used without/ expired Test Certificates.	5	5000/-
99.	Housekeeping repeatedly not maintained		
100.	<ul style="list-style-type: none"><li>• First Time</li></ul>	3	Warning
101.	<ul style="list-style-type: none"><li>• Second Time</li></ul>	4	1000/-
102.	<ul style="list-style-type: none"><li>• Third Time</li></ul>	5	5000/-
103.	Serious Violation Of House Keeping (after 1 <sup>st</sup> or 2 <sup>nd</sup> warning to be decided by Project Manager depending on the severity)		Rs.10000/- and above
104.	Repeat Violation of same nature	5	5X Violation

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

NIT No.: TPCODL/P&S/118/2020-21

**ANNEXURE X**  
**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 Procurement & Stores e-mail ID: [pkjain@tatapower.com](mailto:pkjain@tatapower.com).

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

NIT No.: TPCODL/P&S/118/2020-21

**ANNEXURE XI**  
**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: 15<sup>th</sup> June, 2018

**TATA POWER**  
Lighting up Lives!





**TP CENTRAL ODISHA DISTRIBUTION LIMITED**  
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2nd Floor, IDCO Tower, Janpath Bhubaneswar, Odisha 751022

NIT No.: TPCODL/P&S/118/2020-21



## **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: 15<sup>th</sup> June, 2018

**TATA POWER**  
Lighting up Lives!



## **SCOPE OF WORK & TECHNICAL DETAILS**

## PREFACE

### TP Central Odisha Distribution Limited (TPCODL)

TP Central Odisha Distribution Limited (TPCODL) is a joint venture between Tata Power and the Government of Odisha with the majority stake being held by Tata Power Company (51%). TPCODL serves a population of 1.36 Crore with Customer Base of 26 Lakh and a vast Distribution Area of 29,354 Sq. Km.

Tata Power has a vast experience in electricity distribution in Mumbai, Delhi and Ajmer, and has been a benchmark performer in Delhi for the last 17 years, where losses have been brought down from a high of 53% in 2002 to approximately 7.9% in March 2019. In addition to loss reduction, customer experience has been enhanced by providing one-stop solutions, from state-of-the-art Call Centers and Consumer Care Centres to effective communication and deployment of customer-centric process, creating Customer Delight.

At TP Central Odisha Distribution Limited, the entire focus is on providing reliable power supply, enhanced customer services and reducing the existing AT&C losses of 30.49% in a systematic manner. All this will be achieved by upgrading the present distribution infrastructure, adopting new technologies and provide various digital services to our customers.

### About Tata Power

Tata Power is India's largest integrated power company with a growing international presence. The Company together with its subsidiaries and jointly controlled entities has an installed gross generation capacity of 10,613 MW and a presence in all the segments of the power sector, namely, Fuel Security and Logistics, Generation (Thermal, Hydro, Solar and Wind), Transmission, Distribution and Trading.

It has successful public-private partnerships in Generation, Transmission and Distribution in India namely Tata Power Delhi Distribution Limited with Delhi Vidyut Board for distribution in North Delhi, Powerlinks Transmission Ltd. with Power Grid Corporation of India Ltd. for evacuation of Power from Tala Hydro plant in Bhutan to Delhi and Maithon Power Ltd. with Damodar Valley Corporation for a 1050 MW Mega Power Project at Jharkhand. Tata Power is serving more than 26 Lakh distribution consumers in India (Mumbai, Delhi & Ajmer) and has developed the country's first 4000 MW Ultra Mega Power Project at Mundra (Gujarat) based on super-critical technology.

### TPCODL at A Glance

**1.36 Crore**

Population Served

**26 lakh**

Customer Base

**29,354 sq. km.**

Distribution Area

Administrative Offices of TPCODL

Circle	Division	Sub Division
Bhubaneswar Circle - I	BCDD-1	SDO-1
		SDO-2
		SDO-3
	BCDD-2	Khandagiri
		Nayapalli
		Periphery
	BED	Rasulgarh
		Temple
	NEDN	Kakatpur
		Nimapara
Pipili		
Bhubaneswar Circle - II	PED	Puri - 1
		Puri - 2
		Puri - 3
		Sakhi Gopal
	NED	Dasapalla
		Itamati
		Khandapara
		Nayagarh
	KED	Banki
		Begunia
		Jankia
		Khurda
		Jatni
	BEDB	Balugaon
		Tangi
	Cuttack	CED
Choudwar		
Gopalpur		
CDD-I		SDO - 1
		SDO - 3
		SDO - 4
		SDO - 6
CDD-II		Badambadi
		Jobra
		Mahanadi Vihar
AED		Athagarh
		Narasinghpur
SED		Mahanga
		Nischinta Koili
		Salipur
Paradeep	KED-I	Aul

		Kendrapara
		Pattamundai
		Rajnagar
	KED-II	Mahakalpada
		Marsaghai
	PDP	Kujanga
		Paradeep
		Tritol
	JED	Balikuda
		Jagatsingh pur
		R N Pur
	Dhenkanal	DED
Gondia		
Hindol Road		
Kamakhya Nagar		
ANED		Angul
		Boinda
		Chendipada
TED		Chainpal
		Pallahara
		Parjang
		Talcher

Table 1 (Administrative Offices)

Currently “GIS based Consumer Indexing & Asset mapping has been implemented under the **R-APDRP Scheme** only and the aforesaid scheme details has been described below:

The State Electricity Regulatory Commissions, constitution and functioning are covered under the Electricity Act. To check the AT&C losses, improve quality of supply of power, increase revenue Collection and improve consumer satisfaction, Government had launched Accelerated Power Development and Reforms Program (APDRP) in the year 2002-03. As per Power Finance Corporation all India AT&C losses stood at 33.07% during 2006-07. APDRP has been re- structured for XI Plan as a Central Sector Scheme on 31.07.2008.

The focus of the R-APDRP is on actual, demonstrable performance in terms of loss reduction. Projects under the scheme are to be taken up in two parts. Part-A is the projects for establishment of baseline data and IT applications for energy accounting/auditing & IT based consumer service centers and Part-B is the regular distribution for the strengthening of the projects.

The objective of the scheme was to reduce the AT&C losses to 15% in the project areas at the end of the scheme.

However, the AT&C loss calculated as 30.49% during taking over by Tata Power.



Details Summary of RAPDRP Towns

<b>Sr. No</b>	<b>Town Name</b>	<b>Connections</b>	<b>Area (Sq. Km.)</b>	<b>No. of Sub Division Offices</b>	<b>No. of Other Offices</b>	<b>Total No. of Offices</b>
<b>1</b>	Cuttack	90,252	64	7	17	24
<b>2</b>	Bhubaneswar (HQ)	2,21,595	135	8	38	46
<b>3</b>	Puri	37,496	17	3	16	19
<b>4</b>	Khordha	8,547	26	2	3	5
<b>5</b>	Jatni	7,138	25	1	3	4
<b>6</b>	Dhenkanal	14,878	31	1	8	9
<b>7</b>	Angul	13,669	19	1	5	6
<b>8</b>	Talcher	6,375	26	1	2	3
<b>9</b>	Kendrapara	9,008	11	2	3	5
<b>10</b>	Pattamundai	6,137	24	1	5	6
<b>11</b>	Jagatsinghpur	6,385	18	1	7	8
<b>12</b>	Paradeep	3,654	32	1	1	2
<b>CESU Total</b>		<b>425,134</b>	<b>428</b>	<b>29</b>	<b>108</b>	<b>137</b>

Table 2 (R-APDRP Asset Details)

## DETAILED SCOPE OF WORK, PERFORMANCE EVALUATION, SLA

### 1. Scope of Work

The description given here is broad scope of work to be carried out by the bidder. However, any work even if not specifically mentioned but reasonably implied for the successful implementation and good performance of the system are deemed to be included in the scope of work.

The work shall involve the following:

- a. Collection of Ground Control point (GCP)
- b. Satellite image rectification and geo-referencing
- c. Base map creation through Imagery
- d. DGPS based survey (Sub-meter accuracy) for finding Latitude-Longitude of TPCODL's network, asset and land base features as per data model under Annexure B
- e. Uniquely indexing each Customer based on the electrical system network information as per the provided Data Model under Annexure B.
- f. Numbering allocation and painting of assets.
- g. Updation of above data along with attributes and delivery of complete consolidated data in Shape file.

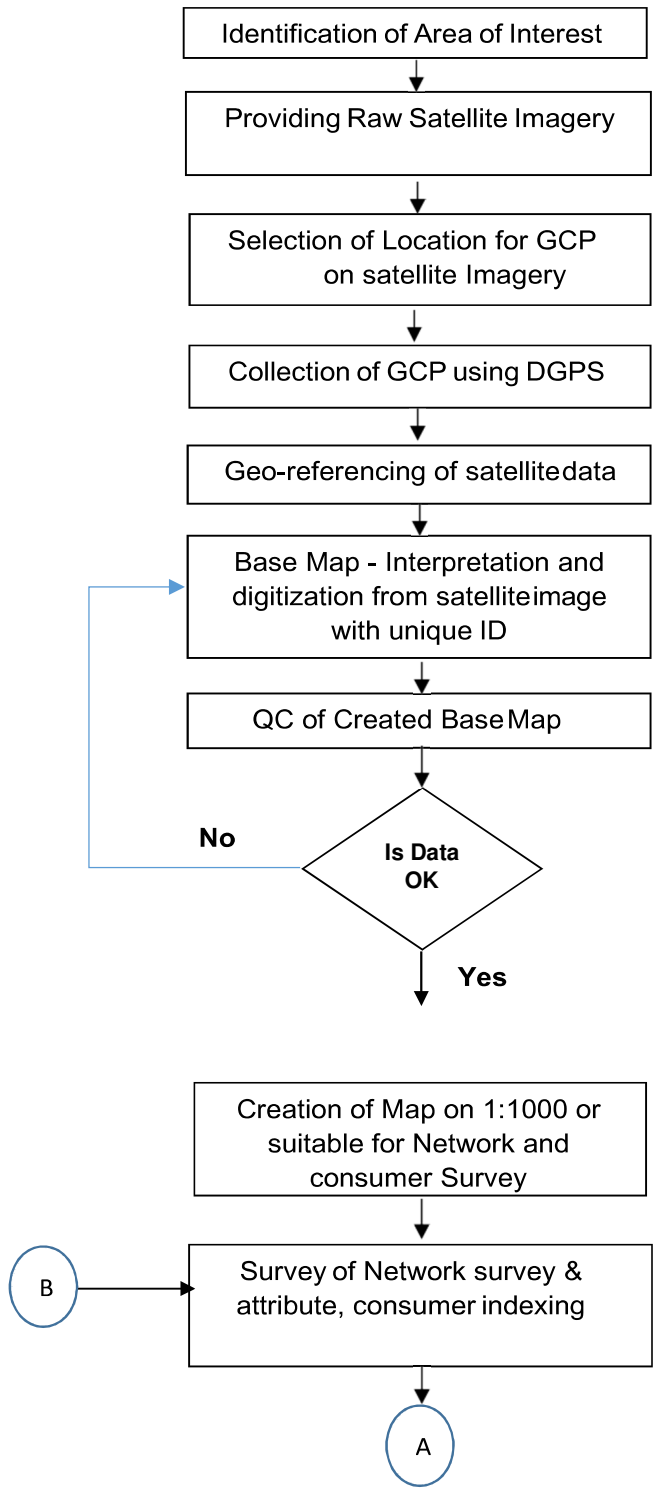
To cover the entire area of TPCODL, the activity is divided in to following stages and shall be executed over the period of 3 years from the current financial year.

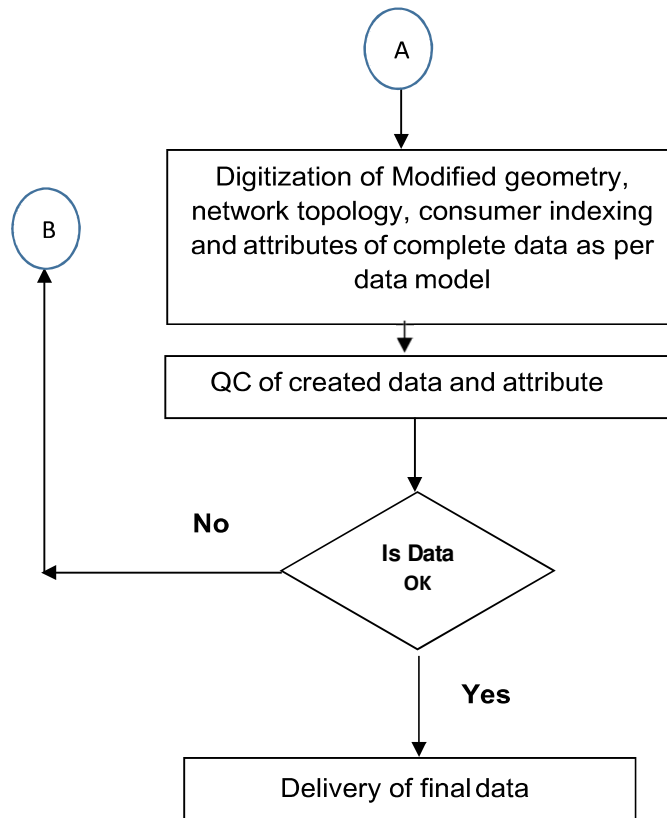
Sr. No	Activity	Quantity	Year of Execution
1	Satellite Image Procurement	30000 Sq. Km	FY 20
2	Base Map Creation	30000 Sq. Km	FY 20
3	Data Integration and Data Porting	30000 Sq. Km	FY 20,21,22
4.a	BBSR Circle I 33 KV, 11, KV, LT Network Survey Asset Painting Consumer Indexing	Annexure 1,2,3 - Asset Details	FY 20
4.b	Conflation of RADRP Towns on Base Map Verification of Network Data Change of Asset Number & Painting	Annexure 5 - RAPDRP Details	FY 20

5	33 / 11 KV S/S 33 KV Network Survey Direct Connected Consumer Indexing Asset Painting (Except BBSR Circle I + RAPDRP Towns)	Annexure 1 - Asset Details	FY 20
6	Consumer Mapping - BBSR Circle I	Annexure 4 - Consumer Count	FY 20
7	Consumer Mapping - BBSR II & Cuttack	Annexure 4 - Consumer Count	FY 21
8	Consumer Mapping - Paradeep & Dhenkanal	Annexure 4 - Consumer Count	FY 22
9	11 KV Network Survey Direct Connected Consumer Indexing Asset Painting (Except BBSR Circle I, BBSR Circle II and Cuttack + RAPDRP Towns)	Annexure 2 - Asset Details	FY 21
10.a	BBSR Circle II & Cuttack 11, KV, LT Network Survey Asset Painting Consumer Indexing	Annexure 1,2,3 - Asset Details	FY 21
10.b	Conflation of RADRP Towns on Base Map Verification of Network Data Change of Asset Number & Painting	Annexure 5 - RAPDRP Details	FY 21
11.a	Dhenkanal & Paradeep LT Network Survey Asset Painting Consumer Indexing	Annexure 1,2,3 - Asset Details	FY 22
11.b	Conflation of RADRP Towns on Base Map Verification of Network Data Change of Asset Number & Painting	Annexure 5 - RAPDRP Details	FY 22

## 2. Methodology of Survey:

The preliminary flow chart for data creation is given below.





### 1.1 Collection of GCP

- a) Bidder shall identify the location on satellite imagery for which GCP is to be collected at field.
- b) Bidder shall arrange the Differential GPS equipment for collection of GCP as per standard guidelines. Two GPS receivers are used to measure a GPS baseline distance. The line between a pair of GPS receivers from which simultaneous GPS data have been collected and processed is a vector referred to as a baseline. The station coordinate differences are calculated in terms of 3D, earth centered coordinate system that utilizes X-, Y-, and Z-values based on the WGS 84 geocentric ellipsoid model. These coordinate differences are then subsequently shifted to fit the local project coordinate system. In this survey base station would be established at a known point and the clearly distinguished points will be identified and they will be captured using the rover. These points would be chosen such that it is spread all over the AOI. These points will be clearly identified points on the ground such as road-rail intersections, water bodies, important landmark etc. The positional accuracy of GCP shall be in range of sub meter.
- c) Bidder shall deploy the team for capturing of GCP of identified location.
- d) It is suggested that one GCP per one sq. km in dense area and one GCP per 5 sq.km in

sparse area shall be collected by Bidder.

- e) It is also considered that 40% of area falls under dense are and 60% falls under sparse area.

**1.2** Base map Creation

- a) After collection of GCP, the same would be used for geo-referencing of the satellite imagery.
- b) Satellite imagery shall be provided by TPCODL.
- c) Bidder shall arrange the ERDAS Imagine using “2<sup>nd</sup> order polynomial” projection system. The data will be projected to the required projectionsystem.
- d) Bidder shall create the Grid (1km X 1Km) as well sub-grid of (300 m X250m) for carrying out work and monitoring of complete through Unique GridNo.
- e) Bidder shall interpret and digitize from the rectified satellite data as per data model.
- f) The feature shall be created using Auto CAD map software. Successful Bidder shall arrange all software for creation of desired data.
- g) Bidder shall also carry out the QC of created data before delivery using various QC tools and visual inspection.
- h) Quality checks shall be performed but not limited to for the following
  - 1. Missing features
  - 2. Features shapes
  - 3. Feature classification
  - 4. Matching of vector with raster etc.
- i) The map shall be cleaned for mapping errors such as
  - 1. Dangles
  - 2. Overshoots
  - 3. Snap
  - 4. Pseudo nodes etc.
- j) The data shall be delivered in .dwg and shp format to TPCODL to carry out the Quality Assurance of delivered data in Auto CAD and Arc GIS. In case of QC is not up to mark, then same shall be given back to BA.
- k) Bidder shall prepare the map with different scale of the map for further action.

### **1.3** Survey and Consumer Mapping

- a. Mapping of Consumer Location & Verification of Consumer Data (as per billing records).
- b. Consumer data shall be sorted based on Billing Cycle and MRU and same shall be provided before sending the survey team to Field.
- c. Implementing Agency has to use a mobile app / GPS instrument to capture the location and provision must be there within GPS to capture the Geo-Tagging of Meter box also.
- d. This is an independent activity and can be started from early by taking the billing details.

### **1.4** Survey for Network and Consumer Indexing

- a. After creation of base map as mentioned above, the survey will be required to carry base map marked with available Landmarks and road names through third party information, if required, for facilitation to the surveyor to correlate the exact location in field versus base map.
- b. Surveyor shall carry the Survey forms to capture the attributes for network, electrical assets and consumer indexing.
- c. It is also required to mark the feature as per the symbology on maps.
- d. Network and asset survey work shall be carried out Substation wise and feeder wise for every Division of TPCODL irrespective of boundaries. All the features mentioned as per data model shall be surveyed using DGPS Equipment, attributes to be collected and marked on the maps.
- e. It is also required to correct the location of the existing Network if the positions are incorrect on the hardcopy maps.
- f. Once feeder wise network survey is done, Consumer Indexing needs to be started and required attributes as per Data model need to be collected.
- g. All above captured data shall be updated in system using Arc GIS software. Bidder has to ensure that exact location of assets, topology, and accurate consumer indexing.

- h. Bidder shall ensure the complete data management with data backup management.
- i. It is also required to get the approval from Section/Sub division/Division in-charge about correctness of captured data.
- j. All logistics, software, hardware infrastructure, office space etc. to carry out work as mentioned shall be arranged by bidder.

**1.5** Asset Numbering and Painting:

- a. It is required to number the each assets and same need to be updated in GIS.
- b. The methodology for numbering and painting on the assets is given in **Annexure D**
- c. Bidder shall deploy the team for allocation of asset numbering followed by painting as described in the **Annexure D**.

**1.6** Resource Deployment:

- a. It is required to deploy the dedicated team for different activities as mentioned below:

**Base map Creation Team**

- 1. Digitizers Team for Base map
- 2. QC team for Base map and open source land base data population

**Network and Asset Team**

- 1. Network and Asset Survey Team
- 2. Network and Asset Survey QC team
- 3. Network and Asset data updation Team
- 4. Network and Asset QC team

**Consumer Indexing Team**

- 1. Consumer Indexing Survey Team
- 2. Consumer Indexing QC team
- 3. Consumer Indexing Updation Team
- 4. Consumer Indexing QC team

**Consumer Mapping Team**

- 1. Consumer Mapping Survey Team
- 2. Consumer Mapping QC team
- 3. Consumer Mapping Updation Team
- 4. Consumer Mapping QC team



- b. Role and responsibilities of each team shall be clearly mentioned by bidder.
- c. It is required to deploy the skilled and experienced resources for each activity to achieve accuracy as mentioned in the document.

### **1.7 Deliverables**

It is required for bidder to deliver the output as given below but not limited to the same.

- a. Complete details of GCP with photograph.
- b. Complete details of base map with unique Grid No. and Sub Grid No.
- c. Complete survey map of land base duly certified by project manager of bidder.
- d. Complete survey map of each feeder network and asset duly signed by concerned authority of TPCODL.
- e. Shape file of updated data of land base, network, asset and its attribute updation.
- f. Data for migration to GIS software.

### **2. Performance/Progress Evaluation:**

- a. The Bidder is required to submit the Time Schedule/Plan of implementation of the assignment as a sample case for one division with details of manpower & equipment's deployment. The Time Schedule/Plan should be prepared in such a way that work may start within 10 days from the date of issue of work order / LOI and inspection of all the Feeders in the allotted districts including submission of reports shall be completed within 60 days after mobilization period. Agency may propose their milestone targets to complete the work before schedule.
- b. Bidder shall also provide Name/Contact Nos./Email IDs/Fax No. of all Key management officials.
- c. Completion of assignment in time is most important element of the contract. The progress of work shall be evaluated on daily basis vis-à-vis proposed milestone target for execution of work. Submission of quality inspection reports will be the criteria with which the progress of the work will be measured.
- d. Regular test check of 5% to 10% of data submitted in a lot (or more if necessary) may be done by TPCODL team in field and if any deviation at site is found unreported or incorrectly reported by the agency concerned, then TPCODL will ask

the agency for re-inspection either of the particular area of the lot/Division/Sub Division as decided by TPCODL.

- e. In case data is rejected and corrected delivery has to be made. Such correction shall not be considered for delivery output calculation as mentioned above. It is highly important to keep stringent mechanism so that chances of rejection could be eliminated.
- f. Activities shall be performed for 6 days in a week.
- g. Bidder shall perform complete activities from **Bhubaneswar** only.

### 3. Service Level Agreement

The SLA covers the following services:

- a. This Service Level agreement is governed by the scope of work for providing the final delivery of data.
- b. Completion time of deliverables for each town is mentioned below and shall be strictly adhered.

Indicative Asset Details (TPCODL)

Description		Sub Station	33KV		11KV		LT	Consumer
		No. of Stations available	No. of 33 KV Feeders	Ckt length of 33 KV feeders (Kms)	No. of 11 KV Feeders	Ckt Length of 11 KV Feeders (Kms)	Ckt Length of LT network Service Line(Kms)	
Bhubaneswar No-I Circle	BCDD-I ,BBSR	10	2	78	46	381.65	1368.3	59163
	BCDD-II ,BBSR	21	22	197.37	89	946.74	1741.2	157932
	BED-BBSR	13	9	125.59	61	762.76	1086.5	117842
	NED-Nimapara	10	18	166.3	34	2223.8	3223.7	153738
	<b>Total</b>	<b>54</b>	51	567.26	230	4314.9	7419.7	488675
Bhubaneswar	PED-Puri	15	11	204.05	57	2183.8	3644.9	163662
	NED-Nayagarh	18	6	249.55	70	3222.4	3184.8	194918

r No-II Circle	KED-Khurda	23	17	357.79	82	2226	3463.7	170121
	BED-Balugaon	11	8	172.35	33	1645.5	2658	102421
	<b>Total</b>	<b>67</b>	42	983.74	242	9277.6	12951	631122
Cuttack Circle	CDD-I- CTC	12	7	68.44	52	335.36	582.62	72488
	CDD-II- CTC	13	8	127.45	47	431.82	1188.8	69721
	CED-CTC	12	1	200.1	55	2096.5	3585.6	143786
	AED-Athagarh	12	9	193.13	37	1673.6	2604.4	114730
	SED-Salipur	9	8	92.5	20	1093.2	2783.8	105813
	<b>Total</b>	<b>58</b>	33	681.62	211	5630.5	10745	506538
Paradi p Circle	KED-I- Kendrapara	18	11	184.15	61	2426	3586	176440
	KED-II- Marshaghai	7	2	82.32	22	1157.9	2371.7	82260
	PDP-Paradip	13	6	125.64	24	1377.9	2346	101423
	JED-J.S.Pur	9	6	127.3	32	2431.9	4160.3	117855
	<b>Total</b>	<b>47</b>	25	519.41	139	7393.7	12464	477978
Dhenkanal Circle	DED-Dhenkanal	21	19	327.65	63	2961.7	3788.3	177542
	TED-Chainpal	19	12	414.73	53	2827.6	2876.8	134620
	AED-Angul	13	9	222.61	64	3313.5	3695.2	141510
	<b>Total</b>	<b>53</b>	40	964.99	180	9102.7	10360	453672
<b>Total</b>	<b>279</b>	<b>191</b>	<b>3717</b>	<b>1002</b>	<b>35719</b>	<b>107881</b>	<b>3E+06</b>	

In addition to the above, Bidder has to carry out the asset numbering allocation and painting in the **Bhubaneswar and Cuttack** Division where land base, asset survey and GIS data already created under RAPDRP Part A implementation. The created data shall be provided for numbering allocation and further painting in field for assets as per same methodology as described in Annexure – Pole Painting

Details of Assets to be re-painted has been mentioned in Annexure No. 6

During Asset painting at site, clear marking of deletion / addition of network to be marked on the hard copy and same must be digitized and produced as deliverables.

#### 4. Payment Criteria and Penalty

- a. Payment for Base map, 33 KV network, 11 KV network, LT network and consumer indexing shall be made separately in line with quoted rate for each item..
- b. Payment will be released in different phases as hereunder:

Sr. No	Activity	Scope	Milestone
1	Satellite Image Geo-referencing	Image Registration - Geo-referencing/rectification or Ortho-rectification based on GCPs.	TPCODL 75% on acceptance
2	Base Map Creation	Digitisation based on Geo-Referenced Satellite Image (Excluding RAPDRP Area)	Circle Level 75% on acceptance
3	Conflation	Complete RAPDRP data to be migrated to Newly created Road Centreline of Base Map from Geo-referenced Satellite Image	RAPDRP Towns 75% on acceptance
3	Survey - Electrical Network	33/11 kV S/S	Sub Divisions 75% on acceptance
		33 kV Line / Cable / DT	
		11 kV Line/Cable / DT	
		LT Network	
4	Pole Painting	All Poles / Feeder Pillars / RMUs / DTs / SS	Sub Divisions 75% on acceptance
5	Survey – Consumer Mapping	Consumer Details like Consumer Name, Phone Number, Email Ids, Address & Geo-Tagging of Meters	Cycle Wise 75% on acceptance
6	Survey – Consumer Indexing	Connected Pole Number / Feeder Pillar and Only CA Number / Meter Serial Number and location of Meter Installation shall be marked on hard copy network integrated Base Map	Feeder/DT Wise 75% on acceptance
7	GIS Data Migration to System	Data collected from different locations shall be cleaned and ported to EGIS system	Circle Wise

**\*Note:**

1.) Payment shall be made based on the actual work done as verified by the TPCODL Nodal officer as well as System level QC by Centralized GIS team of TPCODL.

2.) Payment shall be done separately for each phase in line with quoted rate for each item.

3.) Balance 25% shall be released after successful migration of data to system.

Delivery after completion timeline shall be liable to penalty as mentioned in SLA.

Penalty shall be 10% of the value of respective item per month subject to maximum capping of 30%.

However payment release schedule shall be discussed with successful bidder and will be approved

by TPCODL.

Name of Circle	Name of the Division	Name of the Sub-Division	No of Section
Ele.Circle No.I, BBSR	BCDD-I,BBSR	Ele.Sub-Div No.I,BBSR	5
		Ele.Sub-Div-II, BBSR	4
		Ele.Sub-Div-III,BBSR	4
	BCDD-II,BBSR	Ele.Sub-Div, Periphery, BBSR	5
		Ele.Sub-Div, Nayapalli	4
		Ele.Sub-Div., Khandagiri,BBSR	4
	BED, BBSR	Temple Ele. Sub-Divn, BBSR	6
		Ele. Sub-Div, Rasulgarh, BBSR	6
	N.E.D, Nimapara	Ele.Sub-Div, Pipili	5
		Ele.Sub-Div., Nimapara	4
Ele.Sub-Div, Kakatpur		3	
EC-II, BBSR	P.E.D, Puri	Ele. Sub-Div-I, Puri	4
		Ele. Sub-Div-II, Puri	5
		Ele.Sub-Div, No.III, Puri	4
		Ele. Sub-Div., Sakhigopal	4
	KED, Khurda	Ele.Sub-Div, Khurda	4
		Ele.Sub-Div, Begunia	4
		Ele.Sub-Div, Jatni	4
		Ele.Sub-Div, Banki	3
		Ele.Sub-Div, Jankia	3
	BED, Balugaon	Ele.Sub-Div, Balugaon	5
		Ele.Sub-Div, Tangi	5
	NED, Nayagarh	Ele.Sub-Div, Nayagarh	6
		Ele.Sub-Div., Khandapara	4
		Ele.Sub-Div, Daspalla	3
		Ele.Sub-Div, Itamati	3
	EC, Cuttack	CDD-I, Cuttack	Ele.Sub-Div, No.I, Cuttack ( Ranihat)
Ele. Sub-Div, No.IV, Cuttack ( Cantonment )			3
Ele.Sub-Div, No.III, Cuttack ( Sisu Bhawan )			4
Ele.Sub-Div, No.VI, Cuttack ( CDA )			3
CDD No.II, Cuttack		Ele. Sub-Div-II, Cuttack (Badambadi)	3
		Ele.Sub-Div-V, Cuttack ( Mahanadi Vihar )	2
		Ele.Sub-Div, Jobra, Cuttack	5
CED, Cuttack		Ele. Sub-Div, Choudwar	3
		Ele.Sub-Div, Badachana	3
		Ele. Sub-Div, Gopalpur	3

		Ele.Sub-Div, Niali	3
	AED,Athagarh	Ele.Sub-Division, Athagarh	5
		Ele.Sub-Div, Narasinghpur	3
	S.E.D, Salipur	Ele.Sub-Div, Salipur	4
		Ele.Sub-Div, Nischintakoili	3
		Ele.Sub-Div, Mahanga	3
	ESD, Cuttack	Ele.Stores Sub-Div, Choudwar	3
		Ele.Stores Sub-Div, BBSR	1
EC, Paradeep	KED No.I, Kendrapara	Ele.Sub-Div-I, Kendrapara	6
		Ele. Sub-Div, Aul	4
		Ele.Sub-Div, Pattamundai	5
		Ele.Sub-Div, Rajnagar	3
	KED No.II, Marshaghai	Ele.Sub-Div, Marshaghai	4
		Ele. Sub-Div, Mahakalapada	3
	PED, Paradeep	Ele. Sub-Div, Paradeep	2
		Ele.Sub-Div, Kujanga	3
		Ele.Sub-Div, Tirtol	3
	JED, Jagatsinghpur	Ele.Sub-Div, Jagatsinghpur	4
Ele. Sub-Div, Raghunathpur		2	
Ele.Sub-Div, Balikuda		3	
EC, Dhenkanal	DED, Dhenkanal	Ele.Sub-Div, Dhenkanal	4
		Ele.Sub-Div, Gondia	3
		Ele.Sub-Div, Kamakhyanagar	6
		Ele.Sub-Div, Hindol Road	3
	A.E.D, Angul	Ele.Sub-Div, Angul	4
		Ele.Sub-Div, Boinda	3
		Ele. Sub-Div, Chhendipada	3
	T.E.D, Chainpal	Ele.Sub-Div, Talcher	5
		Ele.Sub-Div, Chainpal	3
		Ele.Sub-Div, Pallahara	4
Ele.Sub-Div, Parjang		2	

## **GIS DATA MODEL**

<b>Sr. No.</b>	<b>Title</b>	<b>Sheet No.</b>
1	Cover Sheet	1
2	Feature Class Names	2
3	Network Data Model	3
4	Consumer Data Model	4
5	Landbase Vector Data Model	5



### Feature Class Names

Sr. No.	Feature Class Type
1	Network Feature Class
2	Consumer Feature Class
3	Landbase Feature Class

Sr. No.	Network Feature Class
1	Substation
2	Power Transformer
3	Tap Changer
4	Current Transformer
5	Potential Transformer
6	Switchgear
7	Remote Terminal Unit (RTU)
8	Battery
9	Relay
10	Busbar
11	Meter
12	Voltage Regulator
13	Reactor
14	Capacitor Regulator
15	Series Capacitor
16	Shunt Capacitor
17	HT Cables
18	Cable Joint
19	HT Conductor
20	Jumper
21	Ring Main Unit
22	Feeder Pillar
23	Fault Passage Indicator
24	Lightning Arrestor
25	Fuse
26	Switch
27	Distribution Transformer
28	LT Cables
29	LT Conductor
30	Pole Tower / Support Structure
31	HT Service Point
32	LT Service Point

Sr. No.	Consumer Feature Class
1	Consumer Info
2	Consumer Meter

Sr. No.	Landbase Feature Class
1	Building
2	Circle
3	City Boundary
4	Division Boundary
5	Facilities
6	Grid
7	Landmark
8	Landuse
9	Misc Transport
10	Office Location
11	Rail
12	Road Center Line
13	Route NDS
14	Sub Division Boundary
15	Sub-Grid
16	Town Point
17	Water body (Polygon)
18	Water body (Linear)
19	Zone Boundary

Network			
Network Asset (Object Name)	Geometry	Attribute Name	Data Type
Battery	point	OBJECTID	Object ID
Battery	point	LocationName	Text
Battery	point	LocationID	Text
Battery	point	GISID	Text
Battery	point	NIN	Text
Battery	point	ToGISID	Text
Battery	point	FromGISID	Text
Battery	point	Type	Text
Battery	point	Counts	Text
Battery	point	ModelNumber	Text
Battery	point	BatteryCharger	Text
Battery	point	BatteryChargerMake	Text
Battery	point	BatteryChargerType	Text
Battery	point	AmpereHourCapacity	Text
Battery	point	Make	Text
Battery	point	SerialNumber	Text
Battery	point	ManufacturingYear	Text
Battery	point	DateofCommissioning	Date
Battery	point	LastMaintenanceDate	Date
Battery	point	Warranty	Text
Battery	point	Cost	Text
Battery	point	ConnectionStatus	Text
Battery	point	Section	Text
Battery	point	Subdivision	Text
Battery	point	Division	Text
Battery	point	Circle	Text
Battery	point	Zone	Text
Battery	point	WorkOrderID	Text
Battery	point	SurveyorRemark	Text
Battery	point	EAEquipment	Text
Battery	point	SAPFunctionalLocation	Text
Battery	point	LocationCodeX	Double
Battery	point	LocationCodeY	Double
Battery	point	StationFacilityIDFK GIS Data Model	Text
Battery	point	created_user	Text
Battery	point	created_date	Date
Battery	point	last_edited_user	Text
Battery	point	last_edited_date	Date
Battery	point	MMELECTRICTRACEWEIGHT	Long Integer
Battery	point	Enabled	Short Integer
Battery	point	CYMESubstationCode	Text
Battery	point	Town	Text
Battery	point	Shape	Geometry
Battery	point	EquipmentID	Long Integer
Battery	point	InstalledLocation	Short Integer
Busbar	Line	OBJECTID	Object ID
Busbar	Line	InstalledLocation	Short Integer
Busbar	Line	LocationID	Text
Busbar	Line	GISID	Text

Network			
Network Asset (Object Name)	Geometry	Attribute Name	Data Type
Busbar	Line	NIN	Text
Busbar	Line	SubType	Short Integer
Busbar	Line	FeederID	Text
Busbar	Line	FeederID2	Text
Busbar	Line	FeederName	Text
Busbar	Line	Voltage	Short Integer
Busbar	Line	Phasedesignation	Short Integer
Busbar	Line	Material	Text
Busbar	Line	CurrentRating	Short Integer
Busbar	Line	TracingStatus	Long Integer
Busbar	Line	RatedAmps	Text
Busbar	Line	Class	Short Integer
Busbar	Line	Cost	Text
Busbar	Line	EAEquipment	Text
Busbar	Line	WorkOrderID	Text
Busbar	Line	SurveyorRemark	Text
Busbar	Line	FeederCode	Text
Busbar	Line	Section	Text
Busbar	Line	Subdivision	Text
Busbar	Line	Division	Text
Busbar	Line	Circle	Text
Busbar	Line	Zone	Text
Busbar	Line	ConnectionStatus	Text
Busbar	Line	FEEDERINFO	Long Integer
Busbar	Line	FacilityID	Text
Busbar	Line	SAPFunctionalLocation	Text
Busbar	Line	SGEquipmentIDFK	Long Integer
Busbar	Line	StationFacilityIDFK	Text
Busbar	Line	RMUFacilityIDFK	Text
Busbar	Line	PillarFacilityIDFK	Text
Busbar	Line	CODE	Text
Busbar	Line	MMELECTRICTRACEWEIGHT	Long Integer
Busbar	Line	created_user	Text
Busbar	Line	created_date	GIS Data Model Date
Busbar	Line	last_edited_user	Text
Busbar	Line	last_edited_date	Date
Busbar	Line	Enabled	Short Integer
Busbar	Line	ShapeLength	Text
Busbar	Line	CYMESubstationCode	Text
Busbar	Line	Town	Text
Busbar	Line	SHAPE_STLength	Double
Busbar	Line	Shape	Geometry
Busbar	Line	Name	Text
Busbar	Line	MaterialCode	Text
Busbar	Line	Shape_STLength__	Double
Busbar	Line	Shape_Length	Double
Cable joint	Point	Name	Text
Cable joint	Point	GISID	Text
Cable joint	Point	NIN	Text

Network			
Network Asset (Object Name)	Geometry	Attribute Name	Data Type
Cable joint	Point	SubType	Short Integer
Cable joint	Point	ToGISID	Text
Cable joint	Point	FromGISID	Text
Cable joint	Point	FeederID	Text
Cable joint	Point	FeederID2	Text
Cable joint	Point	FeederName	Text
Cable joint	Point	Type	Short Integer
Cable joint	Point	Phasedesignation	Short Integer
Cable joint	Point	Make	Text
Cable joint	Point	SerialNumber	Text
Cable joint	Point	ManufacturingYear	Text
Cable joint	Point	DateofCommissioning	Date
Cable joint	Point	LastMaintenanceDate	Date
Cable joint	Point	Warranty	Text
Cable joint	Point	Cost	Text
Cable joint	Point	Class	Short Integer
Cable joint	Point	CableJointID	Long Integer
Cable joint	Point	Section	Text
Cable joint	Point	Subdivision	Text
Cable joint	Point	Division	Text
Cable joint	Point	Circle	Text
Cable joint	Point	Zone	Text
Cable joint	Point	EAEquipment	Text
Cable joint	Point	WorkOrderID	Text
Cable joint	Point	SurveyorRemark	Text
Cable joint	Point	LocationCodeX	Double
Cable joint	Point	LocationCodeY	Double
Cable joint	Point	MMELECTRICTRACEWEIGHT	Long Integer
Cable joint	Point	FEEDERINFO	Long Integer
Cable joint	Point	CableIDFK	Long Integer
Cable joint	Point	SAPFunctionalLocation	Text
Cable joint	Point	ConnectionStatus	Text
Cable joint	Point	created_user	Text
Cable joint	Point	created_date GIS Data Model	Date
Cable joint	Point	last_edited_user	Text
Cable joint	Point	last_edited_date	Date
Cable joint	Point	Enabled	Short Integer
Cable joint	Point	CYMESubstationCode	Text
Cable joint	Point	Town	Text
Cable joint	Point	SHAPE	Geometry
Cable joint	Point	MaterialCode	Text
Cable joint	Point	InstalledLocation	Short Integer
Cable joint	Point	LocationID	Text
Cable joint	Point	LocationID	Text
Capacitor regulator	Point	Name	Text
Capacitor regulator	Point	GISID	Text
Capacitor regulator	Point	NIN	Text
Capacitor regulator	Point	FeederID	Text
Capacitor regulator	Point	FeederID2	Text

Network			
Network Asset (Object Name)	Geometry	Attribute Name	Data Type
Capacitor regulator	Point	FeederName	Text
Capacitor regulator	Point	Voltage	Short Integer
Capacitor regulator	Point	Phasedesignation	Short Integer
Capacitor regulator	Point	CapacityInKVAR	Float
Capacitor regulator	Point	VectorGroup	Text
Capacitor regulator	Point	TapChangerID	Text
Capacitor regulator	Point	TapNumber	Text
Capacitor regulator	Point	PTRatio	Text
Capacitor regulator	Point	CTRatio	Text
Capacitor regulator	Point	Bandwidth	Text
Capacitor regulator	Point	HoldVoltageSetting	Text
Capacitor regulator	Point	RSetting	Text
Capacitor regulator	Point	XSetting	Text
Capacitor regulator	Point	DTCCode	Text
Capacitor regulator	Point	Make	Text
Capacitor regulator	Point	SerialNumber	Text
Capacitor regulator	Point	Cost	Text
Capacitor regulator	Point	FacilityID	Text
Capacitor regulator	Point	InstalledLocation	Short Integer
Capacitor regulator	Point	FeederCode	Text
Capacitor regulator	Point	Section	Text
Capacitor regulator	Point	Subdivision	Text
Capacitor regulator	Point	Division	Text
Capacitor regulator	Point	Circle	Text
Capacitor regulator	Point	Zone	Text
Capacitor regulator	Point	EAEquipment	Text
Capacitor regulator	Point	WorkOrderID	Text
Capacitor regulator	Point	SurveyorRemark	Text
Capacitor regulator	Point	LocationCodeX	Double
Capacitor regulator	Point	LocationCodeY	Double
Capacitor regulator	Point	MMELECTRICTRACEWEIGHT	Long Integer
Capacitor regulator	Point	FEEDERINFO	Long Integer
Capacitor regulator	Point	SAPFunctionalLocation	Text
Capacitor regulator	Point	ConnectionStatus GIS Data Model	Text
Capacitor regulator	Point	Impedance	Text
Capacitor regulator	Point	Ampere	Text
Capacitor regulator	Point	StationFacilityIDFK	Text
Capacitor regulator	Point	created_user	Text
Capacitor regulator	Point	created_date	Date
Capacitor regulator	Point	last_edited_user	Text
Capacitor regulator	Point	last_edited_date	Date
Capacitor regulator	Point	Enabled	Short Integer
Capacitor regulator	Point	CYMESubstationCode	Text
Capacitor regulator	Point	Town	Text
Capacitor regulator	Point	SHAPE	Geometry
Capacitor regulator	Point	LocationID	Text
Capacitor regulator	Point	EquipmentID	Long Integer
Current transformer	Point	OBJECTID	Object ID
Current transformer	Point	InstalledLocation	Short Integer

Network			
Network Asset (Object Name)	Geometry	Attribute Name	Data Type
Current transformer	Point	LocationID	Text
Current transformer	Point	GISID	Text
Current transformer	Point	NIN	Text
Current transformer	Point	SubType	Short Integer
Current transformer	Point	FeederID	Text
Current transformer	Point	FeederID2	Text
Current transformer	Point	FeederName	Text
Current transformer	Point	Voltage	Short Integer
Current transformer	Point	CoreNumber	Short Integer
Current transformer	Point	Phasedesignation	Short Integer
Current transformer	Point	Type	Short Integer
Current transformer	Point	StructureType	Text
Current transformer	Point	CoreClass	Text
Current transformer	Point	PermittedLoad	Text
Current transformer	Point	CorePurpose	Short Integer
Current transformer	Point	PTRatio	Text
Current transformer	Point	Burden	Text
Current transformer	Point	AccuracyClass	Text
Current transformer	Point	AccuracyLimitFactor	Text
Current transformer	Point	InstrumentSecurityFactor	Text
Current transformer	Point	TotalWeight	Text
Current transformer	Point	OilQuantity	Text
Current transformer	Point	MeterSerialNumber	Text
Current transformer	Point	Make	Text
Current transformer	Point	SerialNumber	Text
Current transformer	Point	ManufacturingYear	Text
Current transformer	Point	DateofCommissioning	Date
Current transformer	Point	LastMaintenanceDate	Date
Current transformer	Point	Warranty	Text
Current transformer	Point	Cost	Text
Current transformer	Point	CTRatio	Text
Current transformer	Point	FeederCode	Text
Current transformer	Point	SAPFunctionalLocation	Text
Current transformer	Point	ConnectionStatus GIS Data Model	Text
Current transformer	Point	CTPTCombined	Text
Current transformer	Point	Section	Text
Current transformer	Point	Subdivision	Text
Current transformer	Point	Division	Text
Current transformer	Point	Circle	Text
Current transformer	Point	Zone	Text
Current transformer	Point	EAEquipment	Text
Current transformer	Point	WorkOrderID	Text
Current transformer	Point	SurveyorRemark	Text
Current transformer	Point	LocationCodeX	Double
Current transformer	Point	LocationCodeY	Double
Current transformer	Point	MMELECTRICTRACEWEIGHT	Long Integer
Current transformer	Point	FEEDERINFO	Long Integer
Current transformer	Point	FacilityID	Text
Current transformer	Point	StationFacilityIDFK	Text

Network			
Network Asset (Object Name)	Geometry	Attribute Name	Data Type
Current transformer	Point	created_user	Text
Current transformer	Point	created_date	Date
Current transformer	Point	last_edited_user	Text
Current transformer	Point	last_edited_date	Date
Current transformer	Point	Enabled	Short Integer
Current transformer	Point	CYMESubstationCode	Text
Current transformer	Point	LocationType	Short Integer
Current transformer	Point	Town	Text
Current transformer	Point	SHAPE	Geometry
Current transformer	Point	EquipmentID	Long Integer
Distribution transformer	Point	OBJECTID	Object ID
Distribution transformer	Point	Name	Text
Distribution transformer	Point	DTCCode	Text
Distribution transformer	Point	ExstingCESUDTCCCode	Text
Distribution transformer	Point	GISID	Text
Distribution transformer	Point	NIN	Text
Distribution transformer	Point	ToGISID	Text
Distribution transformer	Point	FromGISID	Text
Distribution transformer	Point	FeederID	Text
Distribution transformer	Point	FeederID2	Text
Distribution transformer	Point	FeederName	Text
Distribution transformer	Point	Phasedesignation	Short Integer
Distribution transformer	Point	CapacityInKVA	Short Integer
Distribution transformer	Point	PercentageImpedance	Text
Distribution transformer	Point	HighSideVoltage	Short Integer
Distribution transformer	Point	HTProtection	Text
Distribution transformer	Point	LTProtection	Text
Distribution transformer	Point	LowSideVoltage	Short Integer
Distribution transformer	Point	TransformerMounting	Text
Distribution transformer	Point	DTCondition	Text
Distribution transformer	Point	TypeofCore	Text
Distribution transformer	Point	VectorGroup	Text
Distribution transformer	Point	TotalLoss	Text
Distribution transformer	Point	CustomerClassCode GIS Data Model	Text
Distribution transformer	Point	MaximumTap	Text
Distribution transformer	Point	MinimumTap	Text
Distribution transformer	Point	NumberofSteps	Short Integer
Distribution transformer	Point	AdoptedTap	Text
Distribution transformer	Point	StarRating	Text
Distribution transformer	Point	CSPTType	Text
Distribution transformer	Point	MaximumDemand	Text
Distribution transformer	Point	JobNumber	Text
Distribution transformer	Point	DateofManufacturing	Date
Distribution transformer	Point	ConsumptionType	Text
Distribution transformer	Point	ConsumerCount	Text
Distribution transformer	Point	HighSideCurrentRating	Text
Distribution transformer	Point	LowSideCurrentRating	Text
Distribution transformer	Point	CoolingType	Text
Distribution transformer	Point	Earthing	Text

Network			
Network Asset (Object Name)	Geometry	Attribute Name	Data Type
Distribution transformer	Point	DateofCommissioning	Date
Distribution transformer	Point	CompactType	Text
Distribution transformer	Point	TertiaryVoltage	Short Integer
Distribution transformer	Point	DTCType	Text
Distribution transformer	Point	WeightofOil	Text
Distribution transformer	Point	OilQuantity	Text
Distribution transformer	Point	TransformerWeight	Text
Distribution transformer	Point	PercentageLoading	Text
Distribution transformer	Point	NeutralEarthing	Text
Distribution transformer	Point	TemperatureRisingWDG	Text
Distribution transformer	Point	TemperatureRisingOil	Text
Distribution transformer	Point	Ownership	Text
Distribution transformer	Point	LifeSpan	Text
Distribution transformer	Point	SwitchID	Text
Distribution transformer	Point	TapLocation	Text
Distribution transformer	Point	Configuration	Text
Distribution transformer	Point	ConnectionStatus	Text
Distribution transformer	Point	Make	Text
Distribution transformer	Point	SerialNumber	Text
Distribution transformer	Point	ManufacturingYear	Text
Distribution transformer	Point	LastMaintenanceDate	Date
Distribution transformer	Point	Warranty	Text
Distribution transformer	Point	Cost	Text
Distribution transformer	Point	FeederCode	Text
Distribution transformer	Point	DTUtilization	Text
Distribution transformer	Point	HTConsumerNumber	Text
Distribution transformer	Point	SAPFunctionalLocation	Text
Distribution transformer	Point	LoadTapChangerIndicator	Text
Distribution transformer	Point	MagnetizingCurrent	Text
Distribution transformer	Point	NumberofWays	Text
Distribution transformer	Point	Section	Text
Distribution transformer	Point	Subdivision	Text
Distribution transformer	Point	Division	Text
Distribution transformer	Point	Circle	GIS Data Model
Distribution transformer	Point	Zone	Text
Distribution transformer	Point	EAEquipment	Text
Distribution transformer	Point	WorkOrderID	Text
Distribution transformer	Point	SurveyorRemark	Text
Distribution transformer	Point	LocationCodeX	Double
Distribution transformer	Point	LocationCodeY	Double
Distribution transformer	Point	MMELECTRICTRACEWEIGHT	Long Integer
Distribution transformer	Point	FEEDERINFO	Long Integer
Distribution transformer	Point	FacilityID	Text
Distribution transformer	Point	StationFacilityIDFK	Text
Distribution transformer	Point	Metering	Text
Distribution transformer	Point	created_user	Text
Distribution transformer	Point	created_date	Date
Distribution transformer	Point	last_edited_user	Text
Distribution transformer	Point	last_edited_date	Date



Network			
Network Asset (Object Name)	Geometry	Attribute Name	Data Type
Distribution transformer	Point	Enabled	Short Integer
Distribution transformer	Point	NoLoadLoss	Text
Distribution transformer	Point	CopperLoss	Text
Distribution transformer	Point	TotalLoad	Float
Distribution transformer	Point	CYMESubstationCode	Text
Distribution transformer	Point	Town	Text
Distribution transformer	Point	SHAPE	Geometry
Distribution transformer	Point	Attachment	Text
Distribution transformer	Point	EquipmentID	Long Integer
Fault passage indicator	Point	OBJECTID	Object ID
Fault passage indicator	Point	Name	Text
Fault passage indicator	Point	GISID	Text
Fault passage indicator	Point	NIN	Text
Fault passage indicator	Point	FeederID	Text
Fault passage indicator	Point	FeederID2	Text
Fault passage indicator	Point	FeederName	Text
Fault passage indicator	Point	Directional	Text
Fault passage indicator	Point	IndicatorType	Text
Fault passage indicator	Point	Voltage	Short Integer
Fault passage indicator	Point	NormalRatedCurrent	Short Integer
Fault passage indicator	Point	Phasedesignation	Short Integer
Fault passage indicator	Point	CurrentLimit	Text
Fault passage indicator	Point	Make	Text
Fault passage indicator	Point	SerialNumber	Text
Fault passage indicator	Point	ManufacturingYear	Text
Fault passage indicator	Point	DateofCommissioning	Date
Fault passage indicator	Point	LastMaintenanceDate	Date
Fault passage indicator	Point	Warranty	Text
Fault passage indicator	Point	Cost	Text
Fault passage indicator	Point	FacilityID	Text
Fault passage indicator	Point	InstalledLocation	Short Integer
Fault passage indicator	Point	Section	Text
Fault passage indicator	Point	Subdivision	Text
Fault passage indicator	Point	Division	Text
Fault passage indicator	Point	Circle	Text
Fault passage indicator	Point	Zone	Text
Fault passage indicator	Point	FeederCode	Text
Fault passage indicator	Point	ConnectionStatus	Text
Fault passage indicator	Point	EAEquipment	Text
Fault passage indicator	Point	WorkOrderID	Text
Fault passage indicator	Point	SurveyorRemark	Text
Fault passage indicator	Point	LocationCodeX	Double
Fault passage indicator	Point	LocationCodeY	Double
Fault passage indicator	Point	MMELECTRICTRACEWEIGHT	Long Integer
Fault passage indicator	Point	FEEDERINFO	Long Integer
Fault passage indicator	Point	EquipmentIDFK	Long Integer
Fault passage indicator	Point	ElectricLineIDFK	Long Integer
Fault passage indicator	Point	SAPFunctionalLocation	Text
Fault passage indicator	Point	RMUFacilityIDFK	Text

Network			
Network Asset (Object Name)	Geometry	Attribute Name	Data Type
Fault passage indicator	Point	SSFacilityIDFK	Text
Fault passage indicator	Point	created_user	Text
Fault passage indicator	Point	created_date	Date
Fault passage indicator	Point	last_edited_user	Text
Fault passage indicator	Point	last_edited_date	Date
Fault passage indicator	Point	Enabled	Short Integer
Fault passage indicator	Point	CYMESubstationCode	Text
Fault passage indicator	Point	Town	Text
Fault passage indicator	Point	SHAPE	Geometry
Fault passage indicator	Point	EquipmentID	Long Integer
Fault passage indicator	Point	LocationID	Text
Fidder Pillar	Point	OBJECTID	Object ID
Fidder Pillar	Point	Name	Text
Fidder Pillar	Point	GISID	Text
Fidder Pillar	Point	NIN	Text
Fidder Pillar	Point	SubType	Short Integer
Fidder Pillar	Point	ToGISID	Text
Fidder Pillar	Point	FromGISID	Text
Fidder Pillar	Point	FeederID	Text
Fidder Pillar	Point	FeederID2	Text
Fidder Pillar	Point	FeederName	Text
Fidder Pillar	Point	InstalledLocation	Short Integer
Fidder Pillar	Point	Voltage	Short Integer
Fidder Pillar	Point	UtilityOwnedPillar	Text
Fidder Pillar	Point	Make	Text
Fidder Pillar	Point	SerialNumber	Text
Fidder Pillar	Point	ManufacturingYear	Text
Fidder Pillar	Point	DateofCommissioning	Date
Fidder Pillar	Point	LastMaintenanceDate	Date
Fidder Pillar	Point	Warranty	Text
Fidder Pillar	Point	Cost	Text
Fidder Pillar	Point	EAEquipment	Text
Fidder Pillar	Point	WorkOrderID	Text
Fidder Pillar	Point	SurveyorRemark GIS Data Model	Text
Fidder Pillar	Point	FeederCode	Text
Fidder Pillar	Point	SAPFunctionalLocation	Text
Fidder Pillar	Point	ConnectionStatus	Text
Fidder Pillar	Point	NumberOfWays	Text
Fidder Pillar	Point	Section	Text
Fidder Pillar	Point	Subdivision	Text
Fidder Pillar	Point	Division	Text
Fidder Pillar	Point	Circle	Text
Fidder Pillar	Point	Zone	Text
Fidder Pillar	Point	LocationCodeX	Double
Fidder Pillar	Point	LocationCodeY	Double
Fidder Pillar	Point	FacilityID	Text
Fidder Pillar	Point	FacilityIDFK	Text
Fidder Pillar	Point	created_user	Text
Fidder Pillar	Point	created_date	Date

Network			
Network Asset (Object Name)	Geometry	Attribute Name	Data Type
Fidder Pillar	Point	last_edited_user	Text
Fidder Pillar	Point	last_edited_date	Date
Fidder Pillar	Point	CYMESubstationCode	Text
Fidder Pillar	Point	Town	Text
Fidder Pillar	Point	SHAPE	Geometry
Fidder Pillar	Point	MMELECTRICTRACEWEIGHT	Long Integer
Fidder Pillar	Point	Enabled	Short Integer
Fidder Pillar	Point	EquipmentID	Long Integer
Fuse	Point	OBJECTID	Object ID
Fuse	Point	InstalledLocation	Short Integer
Fuse	Point	LocationID	Text
Fuse	Point	Name	Text
Fuse	Point	GISID	Text
Fuse	Point	NIN	Text
Fuse	Point	FeederID	Text
Fuse	Point	FeederID2	Text
Fuse	Point	FeederName	Text
Fuse	Point	Voltage	Short Integer
Fuse	Point	Type	Short Integer
Fuse	Point	Phasedesignation	Short Integer
Fuse	Point	NormalStatus	Long Integer
Fuse	Point	NormalPositionR	Long Integer
Fuse	Point	NormalPositionY	Long Integer
Fuse	Point	NormalPositionB	Long Integer
Fuse	Point	PresentPositionR	Long Integer
Fuse	Point	PresentPositionY	Long Integer
Fuse	Point	PresentPositionB	Long Integer
Fuse	Point	FaultCurrent	Short Integer
Fuse	Point	DTCCode	Text
Fuse	Point	ConnectionStatus	Text
Fuse	Point	Cost	Text
Fuse	Point	FeederCode	Text
Fuse	Point	Class	Short Integer
Fuse	Point	Section	GIS Data Model Text
Fuse	Point	Subdivision	Text
Fuse	Point	Division	Text
Fuse	Point	Circle	Text
Fuse	Point	Zone	Text
Fuse	Point	EAEquipment	Text
Fuse	Point	WorkOrderID	Text
Fuse	Point	SurveyorRemark	Text
Fuse	Point	LocationCodeX	Double
Fuse	Point	LocationCodeY	Double
Fuse	Point	MMELECTRICTRACEWEIGHT	Long Integer
Fuse	Point	FEEDERINFO	Long Integer
Fuse	Point	SAPFunctionalLocation	Text
Fuse	Point	StationFacilityIDFK	Text
Fuse	Point	RMUFacilityIDFK	Text
Fuse	Point	SSFacilityIDFK	Text

Network			
Network Asset (Object Name)	Geometry	Attribute Name	Data Type
Fuse	Point	PillarFacilityIDFK	Text
Fuse	Point	created_user	Text
Fuse	Point	created_date	Date
Fuse	Point	last_edited_user	Text
Fuse	Point	last_edited_date	Date
Fuse	Point	Enabled	Short Integer
Fuse	Point	Rating	Float
Fuse	Point	CYMESubstationCode	Text
Fuse	Point	LTCircuitCode	Text
Fuse	Point	Town	Text
Fuse	Point	SHAPE	Geometry
Fuse	Point	MaterialCode	Text
HT Cable	Line	OBJECTID	Object ID
HT Cable	Line	GISID	Text
HT Cable	Line	NIN	Text
HT Cable	Line	SubType	Short Integer
HT Cable	Line	ToGISID	Text
HT Cable	Line	FromGISID	Text
HT Cable	Line	FeederID	Text
HT Cable	Line	FeederID2	Text
HT Cable	Line	FeederName	Text
HT Cable	Line	Phasedesignation	Short Integer
HT Cable	Line	Voltage	Short Integer
HT Cable	Line	NumberofCore	Short Integer
HT Cable	Line	InsulationType	Text
HT Cable	Line	ConnectionStatus	Text
HT Cable	Line	ConductorMaterial	Text
HT Cable	Line	NumberofCircuits	Text
HT Cable	Line	CableSize	Text
HT Cable	Line	Armoured	Text
HT Cable	Line	RatedCurrent	Text
HT Cable	Line	Cost	Text
HT Cable	Line	CableType	Short Integer
HT Cable	Line	FeederCode	GIS Data Model Text
HT Cable	Line	Section	Text
HT Cable	Line	Subdivision	Text
HT Cable	Line	Division	Text
HT Cable	Line	Circle	Text
HT Cable	Line	Zone	Text
HT Cable	Line	EAEquipment	Text
HT Cable	Line	WorkOrderID	Text
HT Cable	Line	SurveyorRemark	Text
HT Cable	Line	MMELECTRICTRACEWEIGHT	Long Integer
HT Cable	Line	FEEDERINFO	Long Integer
HT Cable	Line	SAPFunctionalLocation	Text
HT Cable	Line	SSFacilityIDFK	Text
HT Cable	Line	RMUFacilityIDFK	Text
HT Cable	Line	created_user	Text
HT Cable	Line	created_date	Date

Network			
Network Asset (Object Name)	Geometry	Attribute Name	Data Type
HT Cable	Line	last_edited_user	Text
HT Cable	Line	last_edited_date	Date
HT Cable	Line	TracingStatus	Long Integer
HT Cable	Line	Enabled	Short Integer
HT Cable	Line	ShapeLength	Text
HT Cable	Line	CYMESubstationCode	Text
HT Cable	Line	Town	Text
HT Cable	Line	SHAPE	Geometry
HT Cable	Line	MaterialCode	Text
HT Cable	Line	SHAPE_STLength__	Double
HT Cable	Line	SHAPE_Length	Double
HT Conductor	Line	OBJECTID	Object ID
HT Conductor	Line	GISID	Text
HT Conductor	Line	NIN	Text
HT Conductor	Line	ToGISID	Text
HT Conductor	Line	FromGISID	Text
HT Conductor	Line	FeederID	Text
HT Conductor	Line	FeederID2	Text
HT Conductor	Line	FeederName	Text
HT Conductor	Line	Phasedesignation	Short Integer
HT Conductor	Line	Voltage	Short Integer
HT Conductor	Line	NumberofWires	Short Integer
HT Conductor	Line	ConnectionStatus	Text
HT Conductor	Line	TypeofSupport	Text
HT Conductor	Line	Configuration	Text
HT Conductor	Line	ConductorMaterial	Text
HT Conductor	Line	ConductorType	Text
HT Conductor	Line	ConductorSize	Text
HT Conductor	Line	NeutralConductor	Text
HT Conductor	Line	MatofNeutralConductor	Text
HT Conductor	Line	SizeofNeutralConductor	Text
HT Conductor	Line	AdditionalConductor	Text
HT Conductor	Line	SizeofAddConductor	Text
HT Conductor	Line	MatofAddConductorGIS Data Model	Text
HT Conductor	Line	RatedCurrent	Text
HT Conductor	Line	OverheadHeight	Text
HT Conductor	Line	Cost	Text
HT Conductor	Line	FeederCode	Text
HT Conductor	Line	Section	Text
HT Conductor	Line	Subdivision	Text
HT Conductor	Line	Division	Text
HT Conductor	Line	Circle	Text
HT Conductor	Line	Zone	Text
HT Conductor	Line	EAEquipment	Text
HT Conductor	Line	WorkOrderID	Text
HT Conductor	Line	SurveyorRemark	Text
HT Conductor	Line	MMELECTRICTRACEWEIGHT	Long Integer
HT Conductor	Line	FEEDERINFO	Long Integer
HT Conductor	Line	SAPFunctionalLocation	Text

Network			
Network Asset (Object Name)	Geometry	Attribute Name	Data Type
HT Conductor	Line	Impedance	Text
HT Conductor	Line	Resistance	Text
HT Conductor	Line	SSFacilityIDFK	Text
HT Conductor	Line	RMUFacilityIDFK	Text
HT Conductor	Line	created_user	Text
HT Conductor	Line	created_date	Date
HT Conductor	Line	last_edited_user	Text
HT Conductor	Line	last_edited_date	Date
HT Conductor	Line	TracingStatus	Long Integer
HT Conductor	Line	Enabled	Short Integer
HT Conductor	Line	ShapeLength	Text
HT Conductor	Line	CYMESubstationCode	Text
HT Conductor	Line	Town	Text
HT Conductor	Line	SHAPE	Geometry
HT Conductor	Line	MaterialCode	Text
HT Conductor	Line	SHAPE_STLength__	Double
HT Conductor	Line	SHAPE_Length	Double
HT Servicepoint	Point	OBJECTID	Object ID
HT Servicepoint	Point	Name	Text
HT Servicepoint	Point	ConsumerNumber	Text
HT Servicepoint	Point	GISID	Text
HT Servicepoint	Point	NIN	Text
HT Servicepoint	Point	FeederID	Text
HT Servicepoint	Point	FeederID2	Text
HT Servicepoint	Point	FeederName	Text
HT Servicepoint	Point	SubstationCode	Text
HT Servicepoint	Point	SubstationName	Text
HT Servicepoint	Point	Voltage	Short Integer
HT Servicepoint	Point	Phasedesignation	Short Integer
HT Servicepoint	Point	ConsumptionType	Text
HT Servicepoint	Point	FagEnd	Text
HT Servicepoint	Point	ConsumerCount	Text
HT Servicepoint	Point	FeederCode	Text
HT Servicepoint	Point	ConnectedToPole GIS Data Model	Text
HT Servicepoint	Point	BuildingID	Text
HT Servicepoint	Point	MapID	Text
HT Servicepoint	Point	Cost	Text
HT Servicepoint	Point	EAEquipment	Text
HT Servicepoint	Point	SAPID	Text
HT Servicepoint	Point	WorkOrderID	Text
HT Servicepoint	Point	SurveyorRemark	Text
HT Servicepoint	Point	Section	Text
HT Servicepoint	Point	Subdivision	Text
HT Servicepoint	Point	Division	Text
HT Servicepoint	Point	Circle	Text
HT Servicepoint	Point	Zone	Text
HT Servicepoint	Point	LocationCodeX	Double
HT Servicepoint	Point	LocationCodeY	Double
HT Servicepoint	Point	MMELECTRICTRACEWEIGHT	Long Integer

Network			
Network Asset (Object Name)	Geometry	Attribute Name	Data Type
HT Servicepoint	Point	FEEDERINFO	Long Integer
HT Servicepoint	Point	DTEquipmentIDFK	Long Integer
HT Servicepoint	Point	SAPFunctionalLocation	Text
HT Servicepoint	Point	ConnectionStatus	Text
HT Servicepoint	Point	created_user	Text
HT Servicepoint	Point	created_date	Date
HT Servicepoint	Point	last_edited_user	Text
HT Servicepoint	Point	last_edited_date	Date
HT Servicepoint	Point	Enabled	Short Integer
HT Servicepoint	Point	SanctionedLoad	Float
HT Servicepoint	Point	CYMESubstationCode	Text
HT Servicepoint	Point	Town	Text
HT Servicepoint	Point	SHAPE	Geometry
HT Servicepoint	Point	Attachment	Text
HT Servicepoint	Point	ServicePointID	Text
HT Servicepoint	Point	MRUNumber	Text
Jumper	Point	OBJECTID	Object ID
Jumper	Point	InstalledLocation	Short Integer
Jumper	Point	LocationID	Text
Jumper	Point	GISID	Text
Jumper	Point	NIN	Text
Jumper	Point	FeederID	Text
Jumper	Point	FeederID2	Text
Jumper	Point	FeederName	Text
Jumper	Point	Phasedesignation	Short Integer
Jumper	Point	Voltage	Short Integer
Jumper	Point	NormalStatus	Long Integer
Jumper	Point	NormalPositionR	Long Integer
Jumper	Point	NormalPositionY	Long Integer
Jumper	Point	NormalPositionB	Long Integer
Jumper	Point	PresentPositionR	Long Integer
Jumper	Point	PresentPositionY	Long Integer
Jumper	Point	PresentPositionB	Long Integer
Jumper	Point	NormalRatedCurrentGIS Data Model	Short Integer
Jumper	Point	CurrentLimit	Text
Jumper	Point	BreakingCurrent	Text
Jumper	Point	Make	Text
Jumper	Point	SerialNumber	Text
Jumper	Point	Cost	Text
Jumper	Point	FeederCode	Text
Jumper	Point	CutPoint	Text
Jumper	Point	SAPFunctionalLocation	Text
Jumper	Point	ConnectionStatus	Text
Jumper	Point	Section_	Text
Jumper	Point	Subdivision	Text
Jumper	Point	Division	Text
Jumper	Point	Circle	Text
Jumper	Point	Zone_	Text
Jumper	Point	EAEquipment	Text

Network			
Network Asset (Object Name)	Geometry	Attribute Name	Data Type
Jumper	Point	WorkOrderID	Text
Jumper	Point	SurveyorRemark	Text
Jumper	Point	LocationCodeX	Double
Jumper	Point	LocationCodeY	Double
Jumper	Point	MMELECTRICTRACEWEIGHT	Long Integer
Jumper	Point	FEEDERINFO	Long Integer
Jumper	Point	SSFacilityIDFK	Text
Jumper	Point	created_user	Text
Jumper	Point	created_date	Date
Jumper	Point	last_edited_user	Text
Jumper	Point	last_edited_date	Date
Jumper	Point	Enabled	Short Integer
Jumper	Point	CYMESubstationCode	Text
Jumper	Point	Town	Text
Jumper	Point	SHAPE	Geometry
Jumper	Point	MaterialCode	Text
Lightning arrester	Point	OBJECTID	Object ID
Lightning arrester	Point	InstalledLocation	Short Integer
Lightning arrester	Point	LocationID	Text
Lightning arrester	Point	GISID	Text
Lightning arrester	Point	NIN	Text
Lightning arrester	Point	FeederID	Text
Lightning arrester	Point	FeederID2	Text
Lightning arrester	Point	FeederName	Text
Lightning arrester	Point	Voltage	Short Integer
Lightning arrester	Point	Phasedesignation	Short Integer
Lightning arrester	Point	MaterialType	Text
Lightning arrester	Point	DischargeCurrentRating	Short Integer
Lightning arrester	Point	Make	Text
Lightning arrester	Point	SerialNumber	Text
Lightning arrester	Point	ManufacturingYear	Text
Lightning arrester	Point	DateofCommissioning	Date
Lightning arrester	Point	LastMaintenanceDate	Date
Lightning arrester	Point	Warranty GIS Data Model	Text
Lightning arrester	Point	Cost	Text
Lightning arrester	Point	FeederCode	Text
Lightning arrester	Point	ConnectionStatus	Text
Lightning arrester	Point	Resistance	Text
Lightning arrester	Point	Section	Text
Lightning arrester	Point	Subdivision	Text
Lightning arrester	Point	Division	Text
Lightning arrester	Point	Circle	Text
Lightning arrester	Point	Zone	Text
Lightning arrester	Point	EAEquipment	Text
Lightning arrester	Point	WorkOrderID	Text
Lightning arrester	Point	SurveyorRemark	Text
Lightning arrester	Point	LocationCodeX	Double
Lightning arrester	Point	LocationCodeY	Double
Lightning arrester	Point	MMELECTRICTRACEWEIGHT	Long Integer



Network			
Network Asset (Object Name)	Geometry	Attribute Name	Data Type
Lightning arrestor	Point	FEEDERINFO	Long Integer
Lightning arrestor	Point	SAPFunctionalLocation	Text
Lightning arrestor	Point	SSFacilityIDFK	Text
Lightning arrestor	Point	StationFacilityIDFK	Text
Lightning arrestor	Point	created_user	Text
Lightning arrestor	Point	created_date	Date
Lightning arrestor	Point	last_edited_user	Text
Lightning arrestor	Point	last_edited_date	Date
Lightning arrestor	Point	Enabled	Short Integer
Lightning arrestor	Point	DrainVoltage	Text
Lightning arrestor	Point	CYMESubstationCode	Text
Lightning arrestor	Point	Town	Text
Lightning arrestor	Point	SHAPE	Geometry
Lightning arrestor	Point	MaterialCode	Text
LT Cable	Line	OBJECTID	Object ID
LT Cable	Line	GISID	Text
LT Cable	Line	NIN	Text
LT Cable	Line	SubType	Short Integer
LT Cable	Line	ToGISID	Text
LT Cable	Line	FromGISID	Text
LT Cable	Line	FeederID	Text
LT Cable	Line	FeederID2	Text
LT Cable	Line	Phasedesignation	Short Integer
LT Cable	Line	Voltage	Short Integer
LT Cable	Line	NumberofCore	Short Integer
LT Cable	Line	InsulationType	Text
LT Cable	Line	ConnectionStatus	Text
LT Cable	Line	ConductorMaterial	Text
LT Cable	Line	NumberofCircuits	Text
LT Cable	Line	CableSize	Text
LT Cable	Line	Armoured	Text
LT Cable	Line	RatedCurrent	Text
LT Cable	Line	Cost	Text
LT Cable	Line	TracingStatus	GIS Data Model Long Integer
LT Cable	Line	CableType	Short Integer
LT Cable	Line	FeederCode	Text
LT Cable	Line	Section	Text
LT Cable	Line	Subdivision	Text
LT Cable	Line	Division	Text
LT Cable	Line	Circle	Text
LT Cable	Line	Zone	Text
LT Cable	Line	EAEquipment	Text
LT Cable	Line	WorkOrderID	Text
LT Cable	Line	SurveyorRemark	Text
LT Cable	Line	MMELECTRICTRACEWEIGHT	Long Integer
LT Cable	Line	FEEDERINFO	Long Integer
LT Cable	Line	SAPFunctionalLocation	Text
LT Cable	Line	DTCCode	Text
LT Cable	Line	SSFacilityIDFK	Text

Network			
Network Asset (Object Name)	Geometry	Attribute Name	Data Type
LT Cable	Line	created_user	Text
LT Cable	Line	created_date	Date
LT Cable	Line	last_edited_user	Text
LT Cable	Line	last_edited_date	Date
LT Cable	Line	Enabled	Short Integer
LT Cable	Line	ShapeLength	Text
LT Cable	Line	FeederName	Text
LT Cable	Line	CYMESubstationCode	Text
LT Cable	Line	Town	Text
LT Cable	Line	SHAPE	Geometry
LT Cable	Line	MaterialCode	Text
LT Cable	Line	SHAPE_STLength__	Double
LT Cable	Line	SHAPE_Length	Double
LT Conductor	Line	OBJECTID	Object ID
LT Conductor	Line	GISID	Text
LT Conductor	Line	NIN	Text
LT Conductor	Line	ToGISID	Text
LT Conductor	Line	FromGISID	Text
LT Conductor	Line	FeederID	Text
LT Conductor	Line	FeederID2	Text
LT Conductor	Line	FeederName	Text
LT Conductor	Line	Phasedesignation	Short Integer
LT Conductor	Line	Voltage	Short Integer
LT Conductor	Line	NumberofWires	Short Integer
LT Conductor	Line	ConnectionStatus	Text
LT Conductor	Line	TracingStatus	Long Integer
LT Conductor	Line	TypeofSupport	Text
LT Conductor	Line	Configuration	Text
LT Conductor	Line	ConductorMaterial	Text
LT Conductor	Line	ConductorType	Text
LT Conductor	Line	ConductorSize	Text
LT Conductor	Line	NeutralConductor	Text
LT Conductor	Line	MatofNeutralConductor	Text
LT Conductor	Line	SizeofNeutralConductor	Text
LT Conductor	Line	AdditionalConductor	Text
LT Conductor	Line	SizeofAddConductor	Text
LT Conductor	Line	MatofAddConductor	Text
LT Conductor	Line	RatedCurrent	Text
LT Conductor	Line	OverheadHeight	Text
LT Conductor	Line	Cost	Text
LT Conductor	Line	FeederCode	Text
LT Conductor	Line	Impedance	Text
LT Conductor	Line	DTCCode	Text
LT Conductor	Line	Resistance	Text
LT Conductor	Line	Section	Text
LT Conductor	Line	Subdivision	Text
LT Conductor	Line	Division	Text
LT Conductor	Line	Circle	Text
LT Conductor	Line	Zone	Text

Network			
Network Asset (Object Name)	Geometry	Attribute Name	Data Type
LT Conductor	Line	EAEquipment	Text
LT Conductor	Line	WorkOrderID	Text
LT Conductor	Line	SurveyorRemark	Text
LT Conductor	Line	MMELECTRICTRACEWEIGHT	Long Integer
LT Conductor	Line	FEEDERINFO	Long Integer
LT Conductor	Line	SAPFunctionalLocation	Text
LT Conductor	Line	SSFacilityIDFK	Text
LT Conductor	Line	created_user	Text
LT Conductor	Line	created_date	Date
LT Conductor	Line	last_edited_user	Text
LT Conductor	Line	last_edited_date	Date
LT Conductor	Line	Enabled	Short Integer
LT Conductor	Line	ShapeLength	Text
LT Conductor	Line	CYMESubstationCode	Text
LT Conductor	Line	Town	Text
LT Conductor	Line	SHAPE	Geometry
LT Conductor	Line	MaterialCode	Text
LT Conductor	Line	SHAPE_STLength__	Double
LT Conductor	Line	SHAPE_Length	Double
LT Service point	Line	OBJECTID	Object ID
LT Service point	Line	Name	Text
LT Service point	Line	GISID	Text
LT Service point	Line	NIN	Text
LT Service point	Line	FeederID	Text
LT Service point	Line	FeederID2	Text
LT Service point	Line	FeederName	Text
LT Service point	Line	DTCCode	Text
LT Service point	Line	DTCName	Text
LT Service point	Line	FeederCode	Text
LT Service point	Line	SubstationCode	Text
LT Service point	Line	SubstationName	Text
LT Service point	Line	Voltage	Short Integer
LT Service point	Line	Phasedesignation	Short Integer
LT Service point	Line	ConsumptionType GIS Data Model	Text
LT Service point	Line	FagEnd	Text
LT Service point	Line	ConsumerCount	Text
LT Service point	Line	Cost	Text
LT Service point	Line	ConnectedToPole	Text
LT Service point	Line	BuildingID	Text
LT Service point	Line	MapID	Text
LT Service point	Line	Section	Text
LT Service point	Line	Subdivision	Text
LT Service point	Line	Division	Text
LT Service point	Line	Circle	Text
LT Service point	Line	Zone	Text
LT Service point	Line	EAEquipment	Text
LT Service point	Line	WorkOrderID	Text
LT Service point	Line	SurveyorRemark	Text
LT Service point	Line	ConsumerNumber	Text

Network			
Network Asset (Object Name)	Geometry	Attribute Name	Data Type
LT Service point	Line	ConnectionStatus	Text
LT Service point	Line	SAPFunctionalLocation	Text
LT Service point	Line	LocationCodeX	Double
LT Service point	Line	LocationCodeY	Double
LT Service point	Line	MMELECTRICTRACEWEIGHT	Long Integer
LT Service point	Line	FEEDERINFO	Long Integer
LT Service point	Line	DTEquipmentIDFK	Long Integer
LT Service point	Line	created_user	Text
LT Service point	Line	created_date	Date
LT Service point	Line	last_edited_user	Text
LT Service point	Line	last_edited_date	Date
LT Service point	Line	Enabled	Short Integer
LT Service point	Line	SanctionedLoad	Float
LT Service point	Line	CYMESubstationCode	Text
LT Service point	Line	Town	Text
LT Service point	Line	SHAPE	Geometry
LT Service point	Line	Attachment	Text
LT Service point	Line	ServicePointID	Text
LT Service point	Line	MRUNumber	Text
Meter	Point	OBJECTID	Object ID
Meter	Point	InstalledLocation	Short Integer
Meter	Point	MeterInstalledCategory	Short Integer
Meter	Point	LocationID	Text
Meter	Point	GISID	Text
Meter	Point	NIN	Text
Meter	Point	SubType	Short Integer
Meter	Point	FeederID	Text
Meter	Point	FeederID2	Text
Meter	Point	FeederName	Text
Meter	Point	MaximumDemand	Text
Meter	Point	MeterCategory	Text
Meter	Point	Type	Text
Meter	Point	MeterDisplayCondition	Text
Meter	Point	KwStatus GIS Data Model	Text
Meter	Point	KvarStatus	Text
Meter	Point	KvaStatus	Text
Meter	Point	PowerFactor	Text
Meter	Point	Voltage	Short Integer
Meter	Point	Ampere	Text
Meter	Point	Phasedesignation	Short Integer
Meter	Point	kWhStatus	Text
Meter	Point	SerialNumber	Text
Meter	Point	Make	Text
Meter	Point	ManufacturingYear	Text
Meter	Point	DateofCommissioning	Date
Meter	Point	LastMaintenanceDate	Date
Meter	Point	Warranty	Text
Meter	Point	Crossover	Text
Meter	Point	CTRratio	Text

Network			
Network Asset (Object Name)	Geometry	Attribute Name	Data Type
Meter	Point	PTRatio	Text
Meter	Point	NoofDigitsReadingFrequency	Text
Meter	Point	MultiplyingFactor	Text
Meter	Point	ConsumptionAtDisconnection	Text
Meter	Point	MeterAvailability	Text
Meter	Point	MeterProtocol	Text
Meter	Point	CommunicationProtocol	Text
Meter	Point	Port	Text
Meter	Point	MeterBox	Text
Meter	Point	SpaceForModemInstallation	Text
Meter	Point	MeterPower	Text
Meter	Point	LastTestingDate	Date
Meter	Point	DateTime	Date
Meter	Point	Cost	Text
Meter	Point	FeederCode	Text
Meter	Point	Section	Text
Meter	Point	Subdivision	Text
Meter	Point	Division	Text
Meter	Point	Circle	Text
Meter	Point	Zone	Text
Meter	Point	DTC_HTCN_PL_FDR_PW	Text
Meter	Point	ConnectionStatus	Text
Meter	Point	DTCCode	Text
Meter	Point	EAEquipment	Text
Meter	Point	WorkOrderID	Text
Meter	Point	SurveyorRemark	Text
Meter	Point	LocationCodeX	Double
Meter	Point	LocationCodeY	Double
Meter	Point	MMELECTRICTRACEWEIGHT	Long Integer
Meter	Point	FEEDERINFO	Long Integer
Meter	Point	EquipmentIDFK	Long Integer
Meter	Point	DTEquipmentIDFK	Long Integer
Meter	Point	SAPFunctionalLocation	Text
Meter	Point	StationFacilityIDFK GIS Data Model	Text
Meter	Point	RMUFacilityIDFK	Text
Meter	Point	created_user	Text
Meter	Point	created_date	Date
Meter	Point	last_edited_user	Text
Meter	Point	last_edited_date	Date
Meter	Point	Enabled	Short Integer
Meter	Point	CYMESubstationCode	Text
Meter	Point	FromTown	Text
Meter	Point	ToTown	Text
Meter	Point	FromCircle	Text
Meter	Point	ToCircle	Text
Meter	Point	FromDivision	Text
Meter	Point	ToDivision	Text
Meter	Point	FromSubDivision	Text
Meter	Point	ToSubDivision	Text

Network			
Network Asset (Object Name)	Geometry	Attribute Name	Data Type
Meter	Point	FromSection	Text
Meter	Point	ToSection	Text
Meter	Point	MeterClass	Text
Meter	Point	SubstationCode	Text
Meter	Point	Town	Text
Meter	Point	SHAPE	Geometry
Meter	Point	Attachment	Text
Meter	Point	ImportExportMeter	Text
Meter	Point	EAMeterType	Text
Meter	Point	ConnectedtoBS	Text
Meter	Point	ConnectedtoPW	Text
Meter	Point	HW_AMR	Text
Meter	Point	HW_TECH	Text
Meter	Point	HW_MAKE	Text
Meter	Point	HW_MODEL_NO	Text
Meter	Point	HW_SR_NO	Text
Meter	Point	HW_IMEI_NO	Text
Meter	Point	SIM_MDN_NO	Text
Meter	Point	SIM_SR_NO	Text
Meter	Point	SIM_IP_ADD	Text
Meter	Point	EquipmentID	Long Integer
Meter	Point	ConnectedtoSG	Text
Potential transformer	Point	OBJECTID	Object ID
Potential transformer	Point	InstalledLocation	Short Integer
Potential transformer	Point	LocationID	Text
Potential transformer	Point	GISID	Text
Potential transformer	Point	NIN	Text
Potential transformer	Point	SubType	Short Integer
Potential transformer	Point	FeederID	Text
Potential transformer	Point	FeederID2	Text
Potential transformer	Point	FeederName	Text
Potential transformer	Point	Voltage	Short Integer
Potential transformer	Point	CorePurpose	Short Integer
Potential transformer	Point	Type	GIS Data Model Short Integer
Potential transformer	Point	NumberOfCore	Short Integer
Potential transformer	Point	Phasedesignation	Short Integer
Potential transformer	Point	PTRatio	Text
Potential transformer	Point	CoreClass	Text
Potential transformer	Point	PermittedLoad	Text
Potential transformer	Point	Burden	Text
Potential transformer	Point	AccuracyClass	Text
Potential transformer	Point	TotalWeight	Text
Potential transformer	Point	OilQuantity	Text
Potential transformer	Point	MeterSerialNumber	Text
Potential transformer	Point	Make	Text
Potential transformer	Point	SerialNumber	Text
Potential transformer	Point	ManufacturingYear	Text
Potential transformer	Point	DateofCommissioning	Date
Potential transformer	Point	LastMaintenanceDate	Date

Network			
Network Asset (Object Name)	Geometry	Attribute Name	Data Type
Potential transformer	Point	Warranty	Text
Potential transformer	Point	Cost	Text
Potential transformer	Point	FeederCode	Text
Potential transformer	Point	ConnectionStatus	Text
Potential transformer	Point	Section	Text
Potential transformer	Point	Subdivision	Text
Potential transformer	Point	Division	Text
Potential transformer	Point	Circle	Text
Potential transformer	Point	Zone	Text
Potential transformer	Point	EAEquipment	Text
Potential transformer	Point	WorkOrderID	Text
Potential transformer	Point	SurveyorRemark	Text
Potential transformer	Point	LocationCodeX	Double
Potential transformer	Point	LocationCodeY	Double
Potential transformer	Point	MMELECTRICTRACEWEIGHT	Long Integer
Potential transformer	Point	FEEDERINFO	Long Integer
Potential transformer	Point	SAPFunctionalLocation	Text
Potential transformer	Point	StationFacilityIDFK	Text
Potential transformer	Point	created_user	Text
Potential transformer	Point	created_date	Date
Potential transformer	Point	last_edited_user	Text
Potential transformer	Point	last_edited_date	Date
Potential transformer	Point	Enabled	Short Integer
Potential transformer	Point	CYMESubstationCode	Text
Potential transformer	Point	LocationType	Short Integer
Potential transformer	Point	Town	Text
Potential transformer	Point	SHAPE	Geometry
Potential transformer	Point	EquipmentID	Long Integer
Power transformer	Point	OBJECTID	Object ID
Power transformer	Point	Name	Text
Power transformer	Point	GISID	Text
Power transformer	Point	NIN	Text
Power transformer	Point	ToGISID	Text
Power transformer	Point	FromGISID	GIS Data Model
Power transformer	Point	FeederID	Text
Power transformer	Point	FeederID2	Text
Power transformer	Point	FeederName	Text
Power transformer	Point	AncillaryRole	Short Integer
Power transformer	Point	Phasedesignation	Short Integer
Power transformer	Point	PrimaryOperatingVoltage	Short Integer
Power transformer	Point	SecondaryOperatingVoltage	Short Integer
Power transformer	Point	CapacityInMVA	Short Integer
Power transformer	Point	RatedTertiaryMVA	Short Integer
Power transformer	Point	LoadTapChangerIndicator	Text
Power transformer	Point	CoolingMethod	Text
Power transformer	Point	IronLoss	Short Integer
Power transformer	Point	CopperLoss	Float
Power transformer	Point	VectorGroup	Text
Power transformer	Point	TapChangerID	Text

Network			
Network Asset (Object Name)	Geometry	Attribute Name	Data Type
Power transformer	Point	TapChangerType	Short Integer
Power transformer	Point	MaximumTap	Text
Power transformer	Point	MinimumTap	Text
Power transformer	Point	AdoptedTap	Text
Power transformer	Point	NumberofSteps	Short Integer
Power transformer	Point	ShortCircuitVoltage	Text
Power transformer	Point	ConnOfTertiarySideWindng	Text
Power transformer	Point	PhsShftBtwPriTertrySide	Text
Power transformer	Point	MaximumDemand	Text
Power transformer	Point	CoolingType	Text
Power transformer	Point	Earthing	Text
Power transformer	Point	TemperatureRise	Text
Power transformer	Point	NCTStatus	Text
Power transformer	Point	PercentageLoading	Text
Power transformer	Point	RatedHVCcurrentFC	Text
Power transformer	Point	RatedHVCcurrentNC	Text
Power transformer	Point	RatedLVCcurrentFC	Text
Power transformer	Point	RatedLVCcurrentNC	Text
Power transformer	Point	NumberofFans	Text
Power transformer	Point	LifeSpan	Text
Power transformer	Point	AmbientTemperature	Text
Power transformer	Point	MeterID	Text
Power transformer	Point	WeightofOil	Text
Power transformer	Point	OilQuantity	Text
Power transformer	Point	LastDateOfFiltration	Date
Power transformer	Point	TransformerWeight	Text
Power transformer	Point	WeightCoreWinding	Text
Power transformer	Point	ElectricStationName	Text
Power transformer	Point	TapLocation	Text
Power transformer	Point	Configuration	Text
Power transformer	Point	ConnectionStatus	Text
Power transformer	Point	Make	Text
Power transformer	Point	SerialNumber	Text
Power transformer	Point	ManufacturingYear GIS Data Model	Text
Power transformer	Point	DateofCommissioning	Date
Power transformer	Point	LastMaintenanceDate	Date
Power transformer	Point	Warranty	Text
Power transformer	Point	JobNumber	Text
Power transformer	Point	Cost	Text
Power transformer	Point	Impedance	Text
Power transformer	Point	MagnetizingCurrent	Text
Power transformer	Point	TotalLoss	Text
Power transformer	Point	RatedPower	Short Integer
Power transformer	Point	RatedPowerONANinMVA	Short Integer
Power transformer	Point	CODE	Text
Power transformer	Point	Section	Text
Power transformer	Point	Subdivision	Text
Power transformer	Point	Division	Text
Power transformer	Point	Circle	Text



Network			
Network Asset (Object Name)	Geometry	Attribute Name	Data Type
Power transformer	Point	Zone	Text
Power transformer	Point	EAEquipment	Text
Power transformer	Point	WorkOrderID	Text
Power transformer	Point	SurveyorRemark	Text
Power transformer	Point	SAPFunctionalLocation	Text
Power transformer	Point	LocationCodeX	Double
Power transformer	Point	LocationCodeY	Double
Power transformer	Point	MMELECTRICTRACEWEIGHT	Long Integer
Power transformer	Point	FEEDERINFO	Long Integer
Power transformer	Point	FeederCode	Text
Power transformer	Point	StationFacilityIDFK	Text
Power transformer	Point	created_user	Text
Power transformer	Point	created_date	Date
Power transformer	Point	last_edited_user	Text
Power transformer	Point	last_edited_date	Date
Power transformer	Point	Enabled	Short Integer
Power transformer	Point	CYMESubstationCode	Text
Power transformer	Point	Town	Text
Power transformer	Point	SHAPE	Geometry
Power transformer	Point	EquipmentID	Long Integer
Power transformer	Point	InstalledLocation	Short Integer
Power transformer	Point	LocationID	Text
Reactor	Point	OBJECTID	Object ID
Reactor	Point	Name	Text
Reactor	Point	GISID	Text
Reactor	Point	NIN	Text
Reactor	Point	FeederId	Text
Reactor	Point	FeederID2	Text
Reactor	Point	FeederName	Text
Reactor	Point	InstalledLocation	Short Integer
Reactor	Point	Voltage	Short Integer
Reactor	Point	Phasedesignation	Short Integer
Reactor	Point	Inductance	Float
Reactor	Point	RatedCurrent	GIS Data Model Text
Reactor	Point	DTCCode	Text
Reactor	Point	Make	Text
Reactor	Point	SerialNumber	Text
Reactor	Point	Cost	Text
Reactor	Point	FeederCode	Text
Reactor	Point	Section_	Text
Reactor	Point	Subdivision	Text
Reactor	Point	Division	Text
Reactor	Point	Circle	Text
Reactor	Point	Zone_	Text
Reactor	Point	EAEquipment	Text
Reactor	Point	WorkOrderID	Text
Reactor	Point	SurveyorRemark	Text
Reactor	Point	LocationCodeX	Double
Reactor	Point	LocationCodeY	Double

Network			
Network Asset (Object Name)	Geometry	Attribute Name	Data Type
Reactor	Point	MMELECTRICTRACEWEIGHT	Long Integer
Reactor	Point	FEEDERINFO	Long Integer
Reactor	Point	SAPFunctionalLocation	Text
Reactor	Point	ConnectionStatus	Text
Reactor	Point	StationFacilityIDFK	Text
Reactor	Point	created_user	Text
Reactor	Point	created_date	Date
Reactor	Point	last_edited_user	Text
Reactor	Point	last_edited_date	Date
Reactor	Point	Enabled	Short Integer
Reactor	Point	ReactorCapitance	Text
Reactor	Point	CYMESubstationCode	Text
Reactor	Point	Town	Text
Reactor	Point	SHAPE	Geometry
Reactor	Point	EquipmentID	Long Integer
Reactor	Point	LocationID	Text
Relay	Point	OBJECTID	Object ID
Relay	Point	Name	Text
Relay	Point	LocationID	Text
Relay	Point	GISID	Text
Relay	Point	NIN	Text
Relay	Point	ToGISID	Text
Relay	Point	FromGISID	Text
Relay	Point	FeederID	Text
Relay	Point	FeederID2	Text
Relay	Point	FeederName	Text
Relay	Point	Type	Text
Relay	Point	ProtectionType	Text
Relay	Point	RelayTestingDate	Date
Relay	Point	ModelNumber	Text
Relay	Point	Make	Text
Relay	Point	SerialNumber	Text
Relay	Point	ManufacturingYear	Text
Relay	Point	DateofCommissioningGIS Data Model	Date
Relay	Point	LastMaintenanceDate	Date
Relay	Point	Warranty	Text
Relay	Point	Cost	Text
Relay	Point	Setting	Text
Relay	Point	FeederCode	Text
Relay	Point	EAEquipment	Text
Relay	Point	WorkOrderID	Text
Relay	Point	SurveyorRemark	Text
Relay	Point	LocationCodeX	Double
Relay	Point	LocationCodeY	Double
Relay	Point	MMELECTRICTRACEWEIGHT	Long Integer
Relay	Point	FEEDERINFO	Long Integer
Relay	Point	ConnectionStatus	Text
Relay	Point	Section	Text
Relay	Point	Subdivision	Text

Network			
Network Asset (Object Name)	Geometry	Attribute Name	Data Type
Relay	Point	Division	Text
Relay	Point	Circle	Text
Relay	Point	Zone	Text
Relay	Point	SAPFunctionalLocation	Text
Relay	Point	SGEquipmentIDFK	Long Integer
Relay	Point	RMUFacilityIDFK	Text
Relay	Point	StationFacilityIDFK	Text
Relay	Point	created_user	Text
Relay	Point	created_date	Date
Relay	Point	last_edited_user	Text
Relay	Point	last_edited_date	Date
Relay	Point	Enabled	Short Integer
Relay	Point	CYMESubstationCode	Text
Relay	Point	Town	Text
Relay	Point	SHAPE	Geometry
Relay	Point	EquipmentID	Long Integer
Relay	Point	InstalledLocation	Short Integer
Remote teminal unit	Point	OBJECTID	Object ID
Remote teminal unit	Point	LocationName	Text
Remote teminal unit	Point	LocationID	Text
Remote teminal unit	Point	GISID	Text
Remote teminal unit	Point	NIN	Text
Remote teminal unit	Point	ToGISID	Text
Remote teminal unit	Point	FromGISID	Text
Remote teminal unit	Point	Make	Text
Remote teminal unit	Point	SerialNumber	Text
Remote teminal unit	Point	ManufacturingYear	Text
Remote teminal unit	Point	DateofCommissioning	Date
Remote teminal unit	Point	LastMaintenanceDate	Date
Remote teminal unit	Point	Warranty	Text
Remote teminal unit	Point	Cost	Text
Remote teminal unit	Point	ConnectionStatus	Text
Remote teminal unit	Point	EAEquipment	Text
Remote teminal unit	Point	WorkOrderID GIS Data Model	Text
Remote teminal unit	Point	SurveyorRemark	Text
Remote teminal unit	Point	LocationCodeX	Double
Remote teminal unit	Point	LocationCodeY	Double
Remote teminal unit	Point	SAPFunctionalLocation	Text
Remote teminal unit	Point	StationFacilityIDFK	Text
Remote teminal unit	Point	created_user	Text
Remote teminal unit	Point	created_date	Date
Remote teminal unit	Point	last_edited_user	Text
Remote teminal unit	Point	last_edited_date	Date
Remote teminal unit	Point	CYMESubstationCode	Text
Remote teminal unit	Point	Town	Text
Remote teminal unit	Point	SHAPE	Geometry
Remote teminal unit	Point	EquipmentID	Long Integer
Remote teminal unit	Point	InstalledLocation	Short Integer
Ring Main Unit	Point	OBJECTID	Object ID

Network			
Network Asset (Object Name)	Geometry	Attribute Name	Data Type
Ring Main Unit	Point	Name	Text
Ring Main Unit	Point	GISID	Text
Ring Main Unit	Point	NIN	Text
Ring Main Unit	Point	ToGISID	Text
Ring Main Unit	Point	FromGISID	Text
Ring Main Unit	Point	FeederID	Text
Ring Main Unit	Point	FeederID2	Text
Ring Main Unit	Point	FeederName	Text
Ring Main Unit	Point	Voltage	Short Integer
Ring Main Unit	Point	Phasedesignation	Short Integer
Ring Main Unit	Point	Type	Short Integer
Ring Main Unit	Point	RatedCurrent	Text
Ring Main Unit	Point	DTCCode	Text
Ring Main Unit	Point	Make	Text
Ring Main Unit	Point	SerialNumber	Text
Ring Main Unit	Point	ManufacturingYear	Text
Ring Main Unit	Point	DateofCommissioning	Date
Ring Main Unit	Point	LastMaintenanceDate	Date
Ring Main Unit	Point	Warranty	Text
Ring Main Unit	Point	Cost	Text
Ring Main Unit	Point	ConnectionStatus	Text
Ring Main Unit	Point	NumberOfWays	Text
Ring Main Unit	Point	Section_	Text
Ring Main Unit	Point	Subdivision	Text
Ring Main Unit	Point	Division	Text
Ring Main Unit	Point	Circle	Text
Ring Main Unit	Point	Zone_	Text
Ring Main Unit	Point	SAPFunctionalLocation	Text
Ring Main Unit	Point	FeederCode	Text
Ring Main Unit	Point	EAEquipment	Text
Ring Main Unit	Point	WorkOrderID	Text
Ring Main Unit	Point	SurveyorRemark	Text
Ring Main Unit	Point	LocationCodeX	Double
Ring Main Unit	Point	LocationCodeY GIS Data Model	Double
Ring Main Unit	Point	MMELECTRICTRACEWEIGHT	Long Integer
Ring Main Unit	Point	FEEDERINFO	Long Integer
Ring Main Unit	Point	FacilityID	Text
Ring Main Unit	Point	created_user	Text
Ring Main Unit	Point	created_date	Date
Ring Main Unit	Point	last_edited_user	Text
Ring Main Unit	Point	last_edited_date	Date
Ring Main Unit	Point	CYMESubstationCode	Text
Ring Main Unit	Point	Enabled	Short Integer
Ring Main Unit	Point	Town	Text
Ring Main Unit	Point	SHAPE	Geometry
Ring Main Unit	Point	EquipmentID	Long Integer
Series Capacitor	Point	OBJECTID	Object ID
Series Capacitor	Point	Name	Text
Series Capacitor	Point	GISID	Text

Network			
Network Asset (Object Name)	Geometry	Attribute Name	Data Type
Series Capacitor	Point	NIN	Text
Series Capacitor	Point	FeederID	Text
Series Capacitor	Point	FeederID2	Text
Series Capacitor	Point	FeederName	Text
Series Capacitor	Point	Voltage	Short Integer
Series Capacitor	Point	Phasedesignation	Short Integer
Series Capacitor	Point	CapacityInKVAR	Float
Series Capacitor	Point	VectorGroup	Text
Series Capacitor	Point	DTCCode	Text
Series Capacitor	Point	Make	Text
Series Capacitor	Point	SerialNumber	Text
Series Capacitor	Point	Cost	Text
Series Capacitor	Point	InstalledLocation	Short Integer
Series Capacitor	Point	AncillaryRole	Short Integer
Series Capacitor	Point	FeederCode	Text
Series Capacitor	Point	ConnectionStatus	Text
Series Capacitor	Point	Ampere	Text
Series Capacitor	Point	Section_	Text
Series Capacitor	Point	Subdivision	Text
Series Capacitor	Point	Division	Text
Series Capacitor	Point	Circle	Text
Series Capacitor	Point	Zone_	Text
Series Capacitor	Point	EAEquipment	Text
Series Capacitor	Point	WorkOrderID	Text
Series Capacitor	Point	SurveyorRemark	Text
Series Capacitor	Point	LocationCodeX	Double
Series Capacitor	Point	LocationCodeY	Double
Series Capacitor	Point	MMELECTRICTRACEWEIGHT	Long Integer
Series Capacitor	Point	FEEDERINFO	Long Integer
Series Capacitor	Point	EquipmentIDFK	Long Integer
Series Capacitor	Point	SAPFunctionalLocation	Text
Series Capacitor	Point	StationFacilityIDFK	Text
Series Capacitor	Point	created_user	Text
Series Capacitor	Point	created_date	GIS Data Model Date
Series Capacitor	Point	last_edited_user	Text
Series Capacitor	Point	last_edited_date	Date
Series Capacitor	Point	Enabled	Short Integer
Series Capacitor	Point	Reactance	Text
Series Capacitor	Point	CYMESubstationCode	Text
Series Capacitor	Point	Town	Text
Series Capacitor	Point	SHAPE	Geometry
Series Capacitor	Point	EquipmentID	Long Integer
Series Capacitor	Point	LocationID	Text
Shunt Capacitor	Point	OBJECTID	Object ID
Shunt Capacitor	Point	Name	Text
Shunt Capacitor	Point	GISID	Text
Shunt Capacitor	Point	NIN	Text
Shunt Capacitor	Point	FeederID	Text
Shunt Capacitor	Point	FeederID2	Text

Network			
Network Asset (Object Name)	Geometry	Attribute Name	Data Type
Shunt Capacitor	Point	FeederName	Text
Shunt Capacitor	Point	InstalledLocation	Short Integer
Shunt Capacitor	Point	Voltage	Short Integer
Shunt Capacitor	Point	Phasedesignation	Short Integer
Shunt Capacitor	Point	CapacityInKVAR	Float
Shunt Capacitor	Point	VectorGroup	Text
Shunt Capacitor	Point	DTCCode	Text
Shunt Capacitor	Point	Make	Text
Shunt Capacitor	Point	SerialNumber	Text
Shunt Capacitor	Point	Cost	Text
Shunt Capacitor	Point	Setting	Text
Shunt Capacitor	Point	FeederCode	Text
Shunt Capacitor	Point	ConnectionStatus	Text
Shunt Capacitor	Point	MultiplyingFactor	Text
Shunt Capacitor	Point	Section_	Text
Shunt Capacitor	Point	Subdivision	Text
Shunt Capacitor	Point	Division	Text
Shunt Capacitor	Point	Circle	Text
Shunt Capacitor	Point	Zone_	Text
Shunt Capacitor	Point	EAEquipment	Text
Shunt Capacitor	Point	WorkOrderID	Text
Shunt Capacitor	Point	SurveyorRemark	Text
Shunt Capacitor	Point	LocationCodeX	Double
Shunt Capacitor	Point	LocationCodeY	Double
Shunt Capacitor	Point	MMELECTRICTRACEWEIGHT	Long Integer
Shunt Capacitor	Point	FEEDERINFO	Long Integer
Shunt Capacitor	Point	EquipmentIDFK	Long Integer
Shunt Capacitor	Point	SAPFunctionalLocation	Text
Shunt Capacitor	Point	StationFacilityIDFK	Text
Shunt Capacitor	Point	created_user	Text
Shunt Capacitor	Point	created_date	Date
Shunt Capacitor	Point	last_edited_user	Text
Shunt Capacitor	Point	last_edited_date	Date
Shunt Capacitor	Point	Enabled GIS Data Model	Short Integer
Shunt Capacitor	Point	ShuntReactance	Text
Shunt Capacitor	Point	CYMESubstationCode	Text
Shunt Capacitor	Point	Town	Text
Shunt Capacitor	Point	SHAPE	Geometry
Shunt Capacitor	Point	EquipmentID	Long Integer
Shunt Capacitor	Point	LocationID	Text
Substation	Polygon	OBJECTID	Object ID
Substation	Polygon	Name	Text
Substation	Polygon	SubstationCode	Text
Substation	Polygon	GISID	Text
Substation	Polygon	NIN	Text
Substation	Polygon	SubType	Short Integer
Substation	Polygon	Address	Text
Substation	Polygon	SubstationLocation	Short Integer
Substation	Polygon	DistributionUtilityProperty	Text

Network			
Network Asset (Object Name)	Geometry	Attribute Name	Data Type
Substation	Polygon	PrimaryVoltage	Short Integer
Substation	Polygon	SecondaryVoltage	Short Integer
Substation	Polygon	NoofIncomingFeeder	Short Integer
Substation	Polygon	NoofOutgoingFeeder	Short Integer
Substation	Polygon	AllInComingFeederName	Text
Substation	Polygon	AllOutGoingFeederName	Text
Substation	Polygon	DateofCommissioning	Date
Substation	Polygon	TotalCapacityInMVA	Float
Substation	Polygon	NoofPowerTransformer	Short Integer
Substation	Polygon	MaximumDemand	Text
Substation	Polygon	EarthMatWithResistance	Text
Substation	Polygon	Cost	Text
Substation	Polygon	EAEquipment	Text
Substation	Polygon	WorkOrderID	Text
Substation	Polygon	SurveyorRemark	Text
Substation	Polygon	Section	Text
Substation	Polygon	Subdivision	Text
Substation	Polygon	Division	Text
Substation	Polygon	Circle	Text
Substation	Polygon	Zone	Text
Substation	Polygon	FeederCode	Text
Substation	Polygon	SAPFunctionalLocation	Text
Substation	Polygon	FacilityID	Text
Substation	Polygon	created_user	Text
Substation	Polygon	created_date	Date
Substation	Polygon	last_edited_user	Text
Substation	Polygon	last_edited_date	Date
Substation	Polygon	ShapeArea	Text
Substation	Polygon	Town	Text
Substation	Polygon	SHAPE	Geometry
Substation	Polygon	Attachment	Text
Substation	Polygon	SHAPE_STArea__	Double
Substation	Polygon	SHAPE_STLength__	Double
Substation	Polygon	SHAPE_Length GIS Data Model	Double
Substation	Polygon	SHAPE_Area	Double
Support Structure	Point	OBJECTID	Object ID
Support Structure	Point	GISID	Text
Support Structure	Point	NIN	Text
Support Structure	Point	SubType	Short Integer
Support Structure	Point	ToGISID	Text
Support Structure	Point	FromGISID	Text
Support Structure	Point	PoleStructure	Text
Support Structure	Point	CutPoint	Text
Support Structure	Point	Earthing	Text
Support Structure	Point	PoleStrength	Text
Support Structure	Point	Shared	Text
Support Structure	Point	PoleHeight	Short Integer
Support Structure	Point	Cost	Text
Support Structure	Point	PoleType	Text

Network			
Network Asset (Object Name)	Geometry	Attribute Name	Data Type
Support Structure	Point	FeederCode	Text
Support Structure	Point	ConnectionStatus	Text
Support Structure	Point	Section	Text
Support Structure	Point	Subdivision	Text
Support Structure	Point	Division	Text
Support Structure	Point	Circle	Text
Support Structure	Point	Zone	Text
Support Structure	Point	EAEquipment	Text
Support Structure	Point	WorkOrderID	Text
Support Structure	Point	SurveyorRemark	Text
Support Structure	Point	LocationCodeX	Double
Support Structure	Point	LocationCodeY	Double
Support Structure	Point	DTEquipmentIDFK	Long Integer
Support Structure	Point	FacilityID	Text
Support Structure	Point	created_user	Text
Support Structure	Point	created_date	Date
Support Structure	Point	last_edited_user	Text
Support Structure	Point	last_edited_date	Date
Support Structure	Point	Town	Text
Support Structure	Point	SHAPE	Geometry
Support Structure	Point	EquipmentID	Long Integer
Switch	Point	OBJECTID	Object ID
Switch	Point	GISID	Text
Switch	Point	NIN	Text
Switch	Point	SubType	Short Integer
Switch	Point	InstalledLocation	Short Integer
Switch	Point	LocationID	Text
Switch	Point	FeederID	Text
Switch	Point	FeederID2	Text
Switch	Point	FeederName	Text
Switch	Point	Phasedesignation	Short Integer
Switch	Point	Voltage	Short Integer
Switch	Point	Mechanism	Short Integer
Switch	Point	NormalStatus GIS Data Model	Long Integer
Switch	Point	NormalPositionR	Long Integer
Switch	Point	NormalPositionY	Long Integer
Switch	Point	NormalPositionB	Long Integer
Switch	Point	PresentPositionR	Long Integer
Switch	Point	PresentPositionY	Long Integer
Switch	Point	PresentPositionB	Long Integer
Switch	Point	NormalRatedCurrent	Short Integer
Switch	Point	ReactiveBreakingCurrent	Text
Switch	Point	BreakingCurrent	Text
Switch	Point	DTCCode	Text
Switch	Point	Make	Text
Switch	Point	SerialNumber	Text
Switch	Point	ManufacturingYear	Text
Switch	Point	DateofCommissioning	Date
Switch	Point	LastMaintenanceDate	Date



Network			
Network Asset (Object Name)	Geometry	Attribute Name	Data Type
Switch	Point	Warranty	Text
Switch	Point	Cost	Text
Switch	Point	FeederCode	Text
Switch	Point	SAPFunctionalLocation	Text
Switch	Point	ConnectionStatus	Text
Switch	Point	Section	Text
Switch	Point	Subdivision	Text
Switch	Point	Division	Text
Switch	Point	Circle	Text
Switch	Point	Zone	Text
Switch	Point	EAEquipment	Text
Switch	Point	WorkOrderID	Text
Switch	Point	SurveyorRemark	Text
Switch	Point	LocationCodeX	Double
Switch	Point	LocationCodeY	Double
Switch	Point	MMELECTRICTRACEWEIGHT	Long Integer
Switch	Point	FEEDERINFO	Long Integer
Switch	Point	SSFacilityIDFK	Text
Switch	Point	RMUFacilityIDFK	Text
Switch	Point	PillarFacilityIDFK	Text
Switch	Point	StationFacilityIDFK	Text
Switch	Point	created_user	Text
Switch	Point	created_date	Date
Switch	Point	last_edited_user	Text
Switch	Point	last_edited_date	Date
Switch	Point	Enabled	Short Integer
Switch	Point	CYME	Text
Switch	Point	CYMESubstationCode	Text
Switch	Point	Town	Text
Switch	Point	SHAPE	Geometry
Switch	Point	EquipmentID	Long Integer
Switchgear	Point	OBJECTID	Object ID
Switchgear	Point	InstalledLocation	Short Integer
Switchgear	Point	LocationID	GIS Data Model Text
Switchgear	Point	GISID	Text
Switchgear	Point	NIN	Text
Switchgear	Point	SubType	Short Integer
Switchgear	Point	FeederID	Text
Switchgear	Point	FeederID2	Text
Switchgear	Point	FeederName	Text
Switchgear	Point	Phasedesignation	Short Integer
Switchgear	Point	Voltage	Short Integer
Switchgear	Point	InsulationType	Text
Switchgear	Point	Mechanism	Short Integer
Switchgear	Point	AuxiliarySupply	Text
Switchgear	Point	SymmetricalBreakingCurrent	Text
Switchgear	Point	RatedPower	Text
Switchgear	Point	CTPTCombined	Text
Switchgear	Point	DTCCode	Text

Network			
Network Asset (Object Name)	Geometry	Attribute Name	Data Type
Switchgear	Point	MakingCapacity	Text
Switchgear	Point	OperatingSequence	Text
Switchgear	Point	Make	Text
Switchgear	Point	SerialNumber	Text
Switchgear	Point	ManufacturingYear	Text
Switchgear	Point	DateofCommissioning	Date
Switchgear	Point	LastMaintenanceDate	Date
Switchgear	Point	Warranty	Text
Switchgear	Point	Cost	Text
Switchgear	Point	AncillaryRole	Short Integer
Switchgear	Point	NormalStatus	Long Integer
Switchgear	Point	NormalPositionR	Long Integer
Switchgear	Point	NormalPositionY	Long Integer
Switchgear	Point	NormalPositionB	Long Integer
Switchgear	Point	PresentPositionR	Long Integer
Switchgear	Point	PresentPositionY	Long Integer
Switchgear	Point	PresentPositionB	Long Integer
Switchgear	Point	RatedCurrent	Text
Switchgear	Point	FeederCode	Text
Switchgear	Point	SAPFunctionalLocation	Text
Switchgear	Point	ConnectionStatus	Text
Switchgear	Point	Section	Text
Switchgear	Point	Subdivision	Text
Switchgear	Point	Division	Text
Switchgear	Point	Circle	Text
Switchgear	Point	Zone	Text
Switchgear	Point	EAEquipment	Text
Switchgear	Point	WorkOrderID	Text
Switchgear	Point	SurveyorRemark	Text
Switchgear	Point	LocationCodeX	Double
Switchgear	Point	LocationCodeY	Double
Switchgear	Point	MMELECTRICTRACEWEIGHT	Long Integer
Switchgear	Point	FEEDERINFO	Long Integer
Switchgear	Point	RMUFacilityIDFK GIS Data Model	Text
Switchgear	Point	PillarFacilityIDFK	Text
Switchgear	Point	StationFacilityIDFK	Text
Switchgear	Point	created_user	Text
Switchgear	Point	created_date	Date
Switchgear	Point	last_edited_user	Text
Switchgear	Point	last_edited_date	Date
Switchgear	Point	Enabled	Short Integer
Switchgear	Point	CYMESubstationCode	Text
Switchgear	Point	Town	Text
Switchgear	Point	SHAPE	Geometry
Switchgear	Point	Attachment	Text
Switchgear	Point	EquipmentID	Long Integer
Tapchanger	Point	OBJECTID	Object ID
Tapchanger	Point	Name	Text
Tapchanger	Point	GISID	Text

Network			
Network Asset (Object Name)	Geometry	Attribute Name	Data Type
Tapchanger	Point	NIN	Text
Tapchanger	Point	FeederID	Text
Tapchanger	Point	FeederID2	Text
Tapchanger	Point	FeederName	Text
Tapchanger	Point	InstalledLocation	Short Integer
Tapchanger	Point	LocationID	Text
Tapchanger	Point	Type	Short Integer
Tapchanger	Point	Voltage	Short Integer
Tapchanger	Point	Phasedesignation	Short Integer
Tapchanger	Point	MaximumStep	Text
Tapchanger	Point	MinimumStep	Text
Tapchanger	Point	AdoptedTap	Text
Tapchanger	Point	NormalTapPosition	Text
Tapchanger	Point	CurrentRating	Short Integer
Tapchanger	Point	ReverseLogic	Text
Tapchanger	Point	Make	Text
Tapchanger	Point	SerialNumber	Text
Tapchanger	Point	Section	Text
Tapchanger	Point	Subdivision	Text
Tapchanger	Point	Division	Text
Tapchanger	Point	Circle	Text
Tapchanger	Point	Zone	Text
Tapchanger	Point	ManufacturingYear	Text
Tapchanger	Point	DateofCommissioning	Date
Tapchanger	Point	LastMaintenanceDate	Date
Tapchanger	Point	Warranty	Text
Tapchanger	Point	Cost	Text
Tapchanger	Point	EAEquipment	Text
Tapchanger	Point	WorkOrderID	Text
Tapchanger	Point	SurveyorRemark	Text
Tapchanger	Point	ConnectionStatus	Text
Tapchanger	Point	LocationCodeX	Double
Tapchanger	Point	LocationCodeY	Double
Tapchanger	Point	MMELECTRICTRACEWEIGHT Model	Long Integer
Tapchanger	Point	FEEDERINFO	Long Integer
Tapchanger	Point	FeederCode	Text
Tapchanger	Point	EquipmentIDFK	Long Integer
Tapchanger	Point	SAPFunctionalLocation	Text
Tapchanger	Point	FacilityID	Text
Tapchanger	Point	created_user	Text
Tapchanger	Point	created_date	Date
Tapchanger	Point	last_edited_user	Text
Tapchanger	Point	last_edited_date	Date
Tapchanger	Point	Enabled	Short Integer
Tapchanger	Point	CYMESubstationCode	Text
Tapchanger	Point	Town	Text
Tapchanger	Point	SHAPE	Geometry
Tapchanger	Point	EquipmentID	Long Integer
Voltage Regulator	Point	OBJECTID	Object ID

Network			
Network Asset (Object Name)	Geometry	Attribute Name	Data Type
Voltageregulator	Point	Name	Text
Voltageregulator	Point	GISID	Text
Voltageregulator	Point	NIN	Text
Voltageregulator	Point	FeederID	Text
Voltageregulator	Point	FeederID2	Text
Voltageregulator	Point	FeederName	Text
Voltageregulator	Point	LocationID	Text
Voltageregulator	Point	Voltage	Short Integer
Voltageregulator	Point	Phasedesignation	Short Integer
Voltageregulator	Point	Type	Text
Voltageregulator	Point	RatedKva	Text
Voltageregulator	Point	BoostPercent	Text
Voltageregulator	Point	BuckPercent	Text
Voltageregulator	Point	ByPassSwitch	Text
Voltageregulator	Point	ControlledBusID	Text
Voltageregulator	Point	LowSideVoltage	Short Integer
Voltageregulator	Point	MaxAcceptableControlledKVA	Text
Voltageregulator	Point	MinAcceptableControlledKVA	Text
Voltageregulator	Point	HighSideConfiguration	Text
Voltageregulator	Point	LowSideConfiguration	Text
Voltageregulator	Point	HighSideProtection	Text
Voltageregulator	Point	LifeSpan	Text
Voltageregulator	Point	SwitchID	Text
Voltageregulator	Point	RSetting	Text
Voltageregulator	Point	XSetting	Text
Voltageregulator	Point	Make	Text
Voltageregulator	Point	SerialNumber	Text
Voltageregulator	Point	Cost	Text
Voltageregulator	Point	InstalledLocation	Short Integer
Voltageregulator	Point	FeederCode	Text
Voltageregulator	Point	ConnectionStatus	Text
Voltageregulator	Point	Impedance	Text
Voltageregulator	Point	Section	Text
Voltageregulator	Point	Subdivision	GIS Data Model Text
Voltageregulator	Point	Division	Text
Voltageregulator	Point	Circle	Text
Voltageregulator	Point	Zone	Text
Voltageregulator	Point	EAEquipment	Text
Voltageregulator	Point	WorkOrderID	Text
Voltageregulator	Point	SurveyorRemark	Text
Voltageregulator	Point	LocationCodeX	Double
Voltageregulator	Point	LocationCodeY	Double
Voltageregulator	Point	MMELECTRICTRACEWEIGHT	Long Integer
Voltageregulator	Point	FEEDERINFO	Long Integer
Voltageregulator	Point	SAPFunctionalLocation	Text
Voltageregulator	Point	FacilityID	Text
Voltageregulator	Point	StationFacilityIDFK	Text
Voltageregulator	Point	created_user	Text
Voltageregulator	Point	created_date	Date

<b>Network</b>			
<b>Network Asset (Object Name)</b>	<b>Geometry</b>	<b>Attribute Name</b>	<b>Data Type</b>
Voltageregulator	Point	last_edited_user	Text
Voltageregulator	Point	last_edited_date	Date
Voltageregulator	Point	Enabled	Short Integer
Voltageregulator	Point	CYMESubstationCode	Text
Voltageregulator	Point	Town	Text
Voltageregulator	Point	SHAPE	Geometry
Voltageregulator	Point	EquipmentID	Long Integer

<b>Landbase</b>			
<b>Network Asset (Object Name)</b>	<b>Geometry</b>	<b>Attribute Name</b>	<b>Data Type</b>
Building	Polygon	OBJECTID	Object ID
Building	Polygon	GISID	Text
Building	Polygon	Name	Text
Building	Polygon	Building	Text
Building	Polygon	Authority	Text
Building	Polygon	Town	Text
Building	Polygon	created_user	Text
Building	Polygon	created_date	Date
Building	Polygon	last_edited_user	Text
Building	Polygon	last_edited_date	Date
Building	Polygon	Type	Short Integer
Building	Polygon	SHAPE	Geometry
Building	Polygon	MRUWalkingSequence	Text
Building	Polygon	MRUNumber	Text
Building	Polygon	SHAPE_STArea__	Double
Building	Polygon	SHAPE_STLength__	Double
Building	Polygon	SHAPE_Length	Double
Building	Polygon	SHAPE_Area	Double
Facilities	Polygon	OBJECTID	Object ID
Facilities	Polygon	GISID	Text
Facilities	Polygon	Name	Text
Facilities	Polygon	created_user	Text
Facilities	Polygon	created_date	Date
Facilities	Polygon	last_edited_user	Text
Facilities	Polygon	last_edited_date	Date
Facilities	Polygon	Type	Short Integer
Facilities	Polygon	DisplayScale	Double
Facilities	Polygon	SHAPE	Geometry
Facilities	Polygon	Town	Text
Facilities	Polygon	SHAPE_STArea__	Double
Facilities	Polygon	SHAPE_STLength__	Double
Facilities	Polygon	SHAPE_Length	Double
Facilities	Polygon	SHAPE_Area	Double
Grid	Polygon	OBJECTID	Object ID
Grid	Polygon	GISID	Text
Grid	Polygon	Name	Text
Grid	Polygon	created_user	Text
Grid	Polygon	created_date	Date
Grid	Polygon	last_edited_user	Text
Grid	Polygon	last_edited_date	Date
Grid	Polygon	SHAPE	Geometry
Grid	Polygon	Town	Text
Grid	Polygon	SHAPE_STArea__	Double
Grid	Polygon	SHAPE_STLength__	Double
Grid	Polygon	SHAPE_Length	Double
Grid	Polygon	SHAPE_Area	Double
Landmark	Point	OBJECTID	Object ID
Landmark	Point	GISID	Text
Landmark	Point	Name	Text

<b>Landbase</b>			
<b>Network Asset (Object Name)</b>	<b>Geometry</b>	<b>Attribute Name</b>	<b>Data Type</b>
Landmark	Point	Town	Text
Landmark	Point	created_user	Text
Landmark	Point	created_date	Date
Landmark	Point	last_edited_user	Text
Landmark	Point	last_edited_date	Date
Landmark	Point	DisplayScale	Long Integer
Landmark	Point	Type	Short Integer
Landmark	Point	SubType	Short Integer
Landmark	Point	SHAPE	Geometry
Landuse	Polygon	OBJECTID	Object ID
Landuse	Polygon	GISID	Text
Landuse	Polygon	Name	Text
Landuse	Polygon	created_user	Text
Landuse	Polygon	created_date	Date
Landuse	Polygon	last_edited_user	Text
Landuse	Polygon	last_edited_date	Date
Landuse	Polygon	DisplayScale	Long Integer
Landuse	Polygon	Type	Short Integer
Landuse	Polygon	SHAPE	Geometry
Landuse	Polygon	Town	Text
Landuse	Polygon	SHAPE_STArea__	Double
Landuse	Polygon	SHAPE_STLength__	Double
Landuse	Polygon	SHAPE_Length	Double
Landuse	Polygon	SHAPE_Area	Double
Misc Transport	Line	OBJECTID	Object ID
Misc Transport	Line	GISID	Text
Misc Transport	Line	Name	Text
Misc Transport	Line	Width	Double
Misc Transport	Line	created_user	Text
Misc Transport	Line	created_date	Date
Misc Transport	Line	last_edited_user	Text
Misc Transport	Line	last_edited_date	Date
Misc Transport	Line	Surface	Text
Misc Transport	Line	DisplayScale	Long Integer
Misc Transport	Line	Type	Short Integer
Misc Transport	Line	SHAPE	Geometry
Misc Transport	Line	Town	Text
Misc Transport	Line	SHAPE_STLength__	Double
Misc Transport	Line	SHAPE_Length	Double
Office location	Point	OBJECTID	Object ID
Office location	Point	GISID	Text
Office location	Point	Name	Text
Office location	Point	created_user	Text
Office location	Point	created_date	Date
Office location	Point	last_edited_user	Text
Office location	Point	last_edited_date	Date
Office location	Point	Type	Short Integer
Office location	Point	SHAPE	Geometry
Office location	Point	Town	Text

<b>Landbase</b>			
<b>Network Asset (Object Name)</b>	<b>Geometry</b>	<b>Attribute Name</b>	<b>Data Type</b>
Rail	Polygon	OBJECTID	Object ID
Rail	Polygon	GISID	Text
Rail	Polygon	RailGauge	Text
Rail	Polygon	Tracks	Short Integer
Rail	Polygon	Width	Double
Rail	Polygon	SHAPE_Leng	Double
Rail	Polygon	created_user	Text
Rail	Polygon	created_date	Date
Rail	Polygon	last_edited_user	Text
Rail	Polygon	last_edited_date	Date
Rail	Polygon	DisplayScale	Double
Rail	Polygon	Type	Short Integer
Rail	Polygon	SHAPE	Geometry
Rail	Polygon	Town	Text
Rail	Polygon	SHAPE_STLength__	Double
Rail	Polygon	SHAPE_Length	Double
Road Centre Line	Line	OBJECTID	Object ID
Road Centre Line	Line	GISID	Text
Road Centre Line	Line	Name	Text
Road Centre Line	Line	SpeedClass	Short Integer
Road Centre Line	Line	Hierarchy	Short Integer
Road Centre Line	Line	created_user	Text
Road Centre Line	Line	created_date	Date
Road Centre Line	Line	last_edited_user	Text
Road Centre Line	Line	last_edited_date	Date
Road Centre Line	Line	Surface	Text
Road Centre Line	Line	SubType	Short Integer
Road Centre Line	Line	SHAPE	Geometry
Road Centre Line	Line	Types	Short Integer
Road Centre Line	Line	Town	Text
Road Centre Line	Line	SHAPE_STLength__	Double
Road Centre Line	Line	SHAPE_Length	Double
Route NDS	Line	OBJECTID	Object ID
Route NDS	Line	GISID	Text
Route NDS	Line	Name	Text
Route NDS	Line	SpeedClass	Short Integer
Route NDS	Line	Hierarchy	Short Integer
Route NDS	Line	Type	Short Integer
Route NDS	Line	created_user	Text
Route NDS	Line	created_date	Date
Route NDS	Line	last_edited_user	Text
Route NDS	Line	last_edited_date	Date
Route NDS	Line	Surface	Text
Route NDS	Line	SHAPE	Geometry
Route NDS	Line	Town	Text
Route NDS	Line	SHAPE_STLength__	Double
Route NDS	Line	SHAPE_Length	Double
Town point	Point	OBJECTID	Object ID
Town point	Point	GISID	Text



<b>Landbase</b>			
<b>Network Asset (Object Name)</b>	<b>Geometry</b>	<b>Attribute Name</b>	<b>Data Type</b>
Town point	Point	Town	Text
Town point	Point	Discom	Text
Town point	Point	created_user	Text
Town point	Point	created_date	Date
Town point	Point	last_edited_user	Text
Town point	Point	last_edited_date	Date
Town point	Point	DisplayScale	Double
Town point	Point	SHAPE	Geometry
Water body	Polygon	OBJECTID	Object ID
Water body	Polygon	GISID	Text
Water body	Polygon	Name	Text
Water body	Polygon	Depth	Double
Water body	Polygon	created_user	Text
Water body	Polygon	created_date	Date
Water body	Polygon	last_edited_user	Text
Water body	Polygon	last_edited_date	Date
Water body	Polygon	DisplayScale	Double
Water body	Polygon	Type	Short Integer
Water body	Polygon	SHAPE	Geometry
Water body	Polygon	Town	Text
Water body	Polygon	SHAPE_STArea__	Double
Water body	Polygon	SHAPE_STLength__	Double
Water body	Polygon	SHAPE_Length	Double
Water body	Polygon	SHAPE_Area	Double
Water bodyL	Line	OBJECTID	Object ID
Water bodyL	Line	GISID	Text
Water bodyL	Line	Name	Text
Water bodyL	Line	Depth	Double
Water bodyL	Line	created_user	Text
Water bodyL	Line	created_date	Date
Water bodyL	Line	last_edited_user	Text
Water bodyL	Line	last_edited_date	Date
Water bodyL	Line	DisplayScale	Double
Water bodyL	Line	Type	Short Integer
Water bodyL	Line	SHAPE	Geometry
Water bodyL	Line	Town	Text
Water bodyL	Line	SHAPE_STLength__	Double
Water bodyL	Line	SHAPE_Length	Double

**Consumer**

Featurer Class(Object Name)	Geometry	Attribute Name	Data Type
CONSUMERINFO	Point	OBJECTID	Object ID
CONSUMERINFO	Point	ConsumerNumber	Text
CONSUMERINFO	Point	CESUConsumerNumber	Text
CONSUMERINFO	Point	CIN	Text
CONSUMERINFO	Point	NameofConsumer	Text
CONSUMERINFO	Point	FatherHusbandName	Text
CONSUMERINFO	Point	ContactPersonforHT	Text
CONSUMERINFO	Point	HouseNumber	Text
CONSUMERINFO	Point	PlotNumber	Text
CONSUMERINFO	Point	LaneNumber	Text
CONSUMERINFO	Point	Locality	Text
CONSUMERINFO	Point	RoadName	Text
CONSUMERINFO	Point	Pincode	Text
CONSUMERINFO	Point	Landmark	Text
CONSUMERINFO	Point	LegacyAddress	Text
CONSUMERINFO	Point	MobileNumber	Text
CONSUMERINFO	Point	BankName	Text
CONSUMERINFO	Point	BankAccountNumber	Text
CONSUMERINFO	Point	BankIFSCCode	Text
CONSUMERINFO	Point	EmailID	Text
CONSUMERINFO	Point	Gender	Text
CONSUMERINFO	Point	AadharNumber	Text
CONSUMERINFO	Point	PANNumber	Text
CONSUMERINFO	Point	BuildingID	Text
CONSUMERINFO	Point	NumberofFloors	Text
CONSUMERINFO	Point	ConnectedToPoleNumber	Text
CONSUMERINFO	Point	ConnectedDTCCCode	Text
CONSUMERINFO	Point	BillingDTCode	Text
CONSUMERINFO	Point	FeederCode	Text
CONSUMERINFO	Point	FeederName	Text
CONSUMERINFO	Point	SubstationCode	Text
CONSUMERINFO	Point	SubstationName	Text
CONSUMERINFO	Point	ConsumerStatus	Text
CONSUMERINFO	Point	ServiceCondition	Text
CONSUMERINFO	Point	Typeofsupply	Text
CONSUMERINFO	Point	ConnectedPhase	Short Integer
CONSUMERINFO	Point	ConductorCorrelation	Text
CONSUMERINFO	Point	CustomerSupplyVoltage	Short Integer
CONSUMERINFO	Point	ConsumerCategory	Text
CONSUMERINFO	Point	CustomerType	Short Integer
CONSUMERINFO	Point	PurposeofConnection	Text
CONSUMERINFO	Point	ConsumerClass	Text
CONSUMERINFO	Point	CustomerSubtypeValue	Short Integer
CONSUMERINFO	Point	Generator	Text

Consumer			
Featurer Class(Object Name)	Geometry	Attribute Name	Data Type
CONSUMERINFO	Point	MapPDFNumber	Text
CONSUMERINFO	Point	MapBlockNumber	Text
CONSUMERINFO	Point	ConsumerSubCategory	Text
CONSUMERINFO	Point	FeederID	Text
CONSUMERINFO	Point	Subdivision	Text
CONSUMERINFO	Point	Division	Text
CONSUMERINFO	Point	BPNumber	Text
CONSUMERINFO	Point	District	Text
CONSUMERINFO	Point	State	Text
CONSUMERINFO	Point	LandlineNumber	Text
CONSUMERINFO	Point	ConsumerUpdatedFrom	Text
CONSUMERINFO	Point	ServiceRequestNumber	Text
CONSUMERINFO	Point	ServiceRequestCreationDate	Date
CONSUMERINFO	Point	ConnectionReleaseDate	Date
CONSUMERINFO	Point	Town	Text
CONSUMERINFO	Point	Remark	Text
CONSUMERINFO	Point	Sections	Text
CONSUMERINFO	Point	Circle	Text
CONSUMERINFO	Point	Zone	Text
CONSUMERINFO	Point	ServicePointID	Text
CONSUMERINFO	Point	Arrears	Text
CONSUMERINFO	Point	LastPaymentAmount	Text
CONSUMERINFO	Point	LastPaymentDate	Date
CONSUMERINFO	Point	DisputeAmount	Text
CONSUMERINFO	Point	ConnectedToPoleNIN	Text
CONSUMERINFO	Point	created_user	Text
CONSUMERINFO	Point	created_date	Date
CONSUMERINFO	Point	last_edited_user	Text
CONSUMERINFO	Point	last_edited_date	Date
CONSUMERINFO	Point	ExistingMRUSequence	Text
CONSUMERINFO	Point	MRUNumber	Text
CONSUMERINFO	Point	NewMRUSequence	Text
CONSUMERMETER	Point	OBJECTID	Object ID
CONSUMERMETER	Point	ConsumerNumber	Text
CONSUMERMETER	Point	TariffCategory	Text
CONSUMERMETER	Point	Approachability	Text
CONSUMERMETER	Point	Readability	Text
CONSUMERMETER	Point	MeterOwnership	Text
CONSUMERMETER	Point	MeteringSide	Text
CONSUMERMETER	Point	MeterTestingStatus	Text
CONSUMERMETER	Point	ViewingGlass	Text
CONSUMERMETER	Point	MeterDisplay	Text
CONSUMERMETER	Point	MeterSerialNumber	Text
CONSUMERMETER	Point	MeterMake	Text
CONSUMERMETER	Point	TypeofMeter	Text
CONSUMERMETER	Point	MeterClass	Text
CONSUMERMETER	Point	MeterReading	Text
CONSUMERMETER	Point	ConnectionData	Date
CONSUMERMETER	Point	ReddingDecimal	Text

Consumer			
Featurer Class(Object Name)	Geometry	Attribute Name	Data Type
CONSUMERMETER	Point	SubMetering	Text
CONSUMERMETER	Point	ManufacturingSeal	Text
CONSUMERMETER	Point	MeterTestingSeal	Text
CONSUMERMETER	Point	MeterBoxSeal	Text
CONSUMERMETER	Point	MBSPaperSealSrNo	Text
CONSUMERMETER	Point	MBSPlasticSealColour	Text
CONSUMERMETER	Point	MaximumDemand	Text
CONSUMERMETER	Point	SanctionedLoad	Double
CONSUMERMETER	Point	ConnectedLoad	Text
CONSUMERMETER	Point	EquipmentID	Text
CONSUMERMETER	Point	Sections	Text
CONSUMERMETER	Point	Subdivision	Text
CONSUMERMETER	Point	Division	Text
CONSUMERMETER	Point	Circle	Text
CONSUMERMETER	Point	Zones	Text
CONSUMERMETER	Point	Village	Text
CONSUMERMETER	Point	RouteSequenceNo	Text
CONSUMERMETER	Point	BuildingID	Text
CONSUMERMETER	Point	Remark	Text
CONSUMERMETER	Point	XLocation	Double
CONSUMERMETER	Point	YLocation	Double
CONSUMERMETER	Point	CurrentRating	Text
CONSUMERMETER	Point	BPNumber	Text
CONSUMERMETER	Point	State	Text
CONSUMERMETER	Point	Town	Text
CONSUMERMETER	Point	District	Text
CONSUMERMETER	Point	MRU	Text
CONSUMERMETER	Point	HW_AMR	Text
CONSUMERMETER	Point	HW_TECH	Text
CONSUMERMETER	Point	HW_MAKE	Text
CONSUMERMETER	Point	HW_MODEL_NO	Text
CONSUMERMETER	Point	HW_SR_NO	Text
CONSUMERMETER	Point	HW_IMEI_NO	Text
CONSUMERMETER	Point	SIM_MDN_NO	Text
CONSUMERMETER	Point	SIM_SR_NO	Text
CONSUMERMETER	Point	SIM_IP_ADD	Text
CONSUMERMETER	Point	ServicePointID	Text
CONSUMERMETER	Point	created_user	Text
CONSUMERMETER	Point	created_date	Date
CONSUMERMETER	Point	last_edited_user	Text
CONSUMERMETER	Point	last_edited_date	Date
CONSUMERMETER	Point	ContractDemand	Double
CONSUMERMETER	Point	AverageConsumption	Double

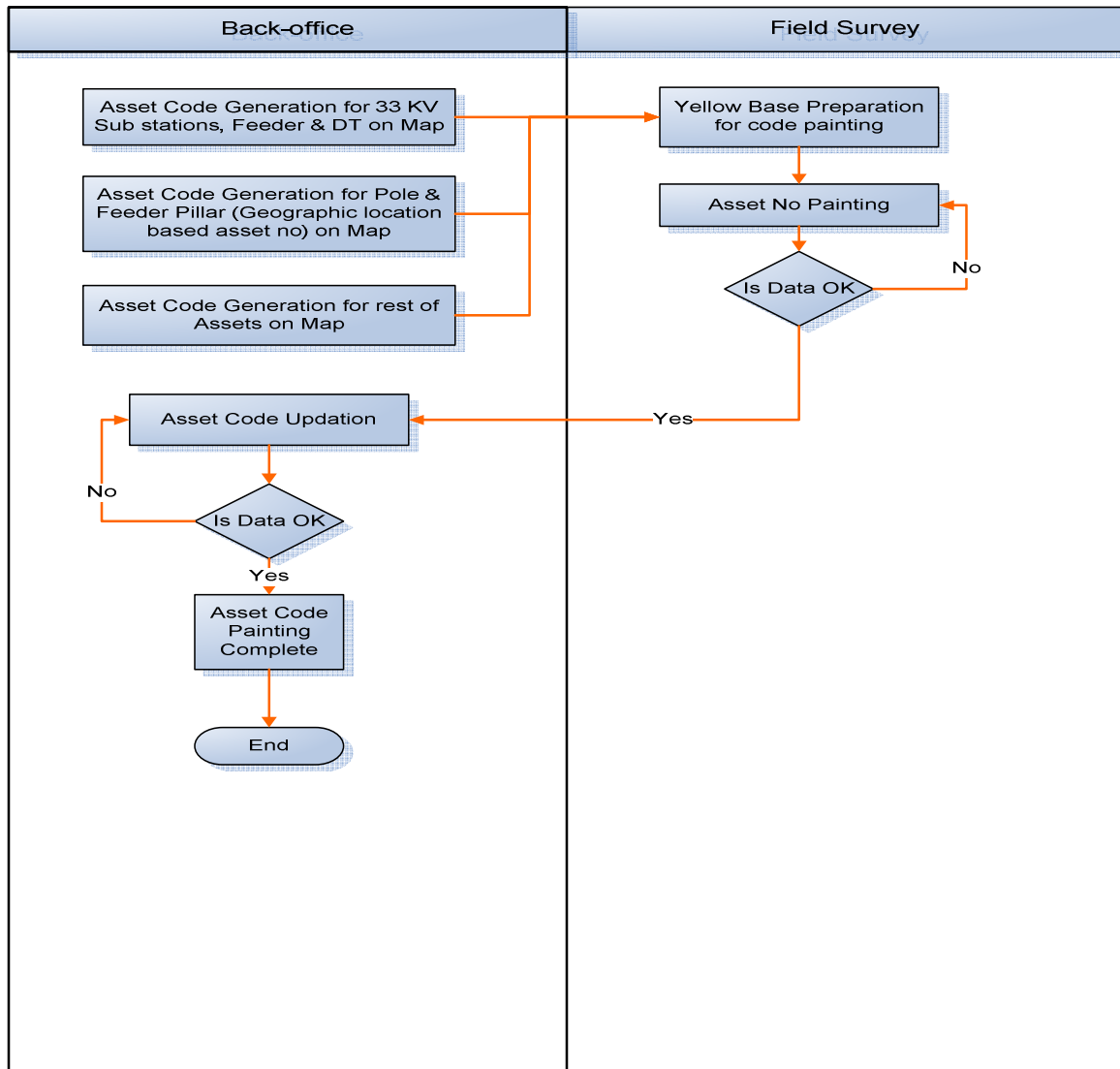
## 1. Asset Numbering Methodology

For network assets (33 KV to Pole/Feeder pillar) such as pole, feeder pillar, tower, distribution transformer, ACB and Stations unique number will be given.

Those unique number will be maintained in system against the pre-defined assets and the same number will be painted at site on each assets.

Numbering format or logic will be generated for respective assets.

### i. Asset Numbering Process



Flow Chat Asset Numbering Process

ii. Asset Numbering Activity Matrix

	Process	Responsibility Desk
1	Initially asset numbering logic will be finalized.	Back office
2	Printout of hard copy maps with all the assets mapped on it will be taken.	Back office
3	Then all the assets will be numbered as per logic on the map.	Back office
4	Visual QC will be done to verify no duplicates number are given and no assets are left out for numbering.	Back office
5	Simultaneously Yellow base of pre-defined area will be painted at site on which numbers will be written.	Field team
6	Then asset numbers will be painted on site above the yellow base in black color.	Field team
7	Random QC will be done to check if the numbers are painted properly and correctly.	Field team
8	If the numbers are painted properly and correctly then the same will be updated in system	Back office
9	If the number are not painted properly and correctly the same will be informed to the Vendor.	Back office
10	Correction and repainting will be done	Field team
11	After rectification the numbers will be updated in system	Back office

### iii. Pole/Feeder Pillar/Service Pillar/Meter Box Numbering Methodology

The unique asset numbering of the utility points i.e. Poles, Feeder Pillars, Service Pillars and Meter rooms is vital for consumer and network connectivity reference in field as well as in GIS system also. The numbering of these assets helps in locating all connected objects to these assets, in field.

To track the no. of poles/feeder pillars/ service pillars from where the electricity is distributed to the consumers will be uniquely numbered and same number will be painted on poles. The same will be mapped in GIS to monitor the geographical location of poles and direct the crew members for resolving the service related complaints as well as asset management.

In existing system, pole number is assigned based on current electric connectivity, which is prone to change very often. So each time when network connectivity will change, the pole no of that feeder will change and repainting of pole no is required at field, which is very tedious and expensive task. So to avoid these circumstances each pole will be assigned a unique number based on their geographical location while considering Division, Sub division boundary, Voltage level and main roads.

The methodology for numbering is given below:

#### Pole numbering Rules

##### a. Pole numbering and road coding rules

Considering the thickness of the Poles used in TPCODL (formerly CESU), numbers will be written in three lines on pole and it will be divided by two horizontal lines.

Frist line will provide the information of voltage level as per below-

For LT/FP/SP poles – “LT” will be written

For HT pole / 11 kV – “HT” will be written

For Tower / 33 kV – “EHT” will be written

Second line will provide the information of Division No, Sub division No, corresponding Section No and Road code as per below-

Frist two digits – Division No

Third digit – Sub Division No

Fourth digit- Section No

Below mentioned are proposed division no,sub division no & Section no for pole no assigning.

Circle	Division		Sub Division	Section		Proposed no. for Division and Sub-Division (First two digit-Division and last digit - Sub DivisionSection)	
	Name	Number		Name	Number		
BHUBANESWAR I	BCDD-I,BBSR	I	I	Unit-VI	I	01 1 1	
				Power House - II	II	01 1 2	
				Delta	III	01 1 3	
				Power House - I	IV	01 1 4	
				Brit Colony	V	01 1 5	
	BCDD-II,BBSR	II	II	II	-	01 2	
				III	-	01 3	
				I	-	02 1	
	BED, BBSR	III	III	II	-	02 2	
				III	-	02 3	
				I	-	03 1	
	N.E.D, Nimapara	IV	IV	II	-	03 2	
				I	-	04 1	
				II	-	04 2	
	BHUBANESWAR II	P.E.D, Puri	V	V	III	-	04 3
					IV	-	05 1
II					-	05 2	
I					-	05 3	
KED, Khurda		VI	VI	IV	-	05 4	
				I	-	06 1	
				II	-	06 2	
				III	-	06 3	
				IV	-	06 4	
BED, Balugaon		VII	VII	V	-	06 5	
				I	-	07 1	
NED, Nayagarh		VIII	VIII	II	-	07 2	
				I	-	08 1	
				II	-	08 2	
				III	-	08 3	
CUTTACK		CDD-I, Cuttack	IX	IX	IV	-	08 4
	I				-	09 1	
				III	-	09 3	



	CDD No.II, Cuttack	X	IV	-	-	<b>09 4</b>
			VI	-	-	<b>09 6</b>
			I	-	-	<b>10 1</b>
			II	-	-	<b>10 2</b>
			V	-	-	<b>10 3</b>
	CED, Cuttack	XI	I	-	-	<b>11 1</b>
			II	-	-	<b>11 2</b>
			III	-	-	<b>11 3</b>
			IV	-	-	<b>11 4</b>
	AED, Athagarh	XII	I	-	-	<b>12 1</b>
			II	-	-	<b>12 2</b>
	S.E.D, Salipur	XIII	I	-	-	<b>13 1</b>
			II	-	-	<b>13 2</b>
III			-	-	<b>13 3</b>	
PARADEEP	KED No.I, Kendrapara	XIV	I	-	-	<b>14 1</b>
			II	-	-	<b>14 2</b>
			III	-	-	<b>14 3</b>
			IV	-	-	<b>14 4</b>
	KED No.II, Marshaghai	XV	I	-	-	<b>15 1</b>
			II	-	-	<b>15 2</b>
	PED, Paradeep	XVI	I	-	-	<b>16 1</b>
			II	-	-	<b>16 2</b>
			III	-	-	<b>16 3</b>
	JED, Jagatsinghpur	XVII	I	-	-	<b>17 1</b>
			II	-	-	<b>17 2</b>
			III	-	-	<b>17 3</b>
DHENKANAL	DED, Dhenkanal	XVIII	I	-	-	<b>18 1</b>
			II	-	-	<b>18 2</b>
			III	-	-	<b>18 3</b>
			IV	-	-	<b>18 4</b>
	A.E.D, Angul	XIX	I	-	-	<b>19 1</b>
			II	-	-	<b>19 2</b>
			III	-	-	<b>19 3</b>
	T.E.D, Chainpal	XX	I	-	-	<b>20 1</b>
			II	-	-	<b>20 2</b>
			III	-	-	<b>20 3</b>
IV			-	-	<b>20 4</b>	

After division Sub Division and Section number there will be Hyphen “ – ” (this will work as a separator between division sub-division section number and road code) and after that one/two or three digit will be the **Road Code**.

While painting and entering in system there will be no space between division sub-division section number.

**Roads will be coded** on the basis of road width 15 ft. or above and any prominent/known road. Road width with 15ft. and above or any prominent road will come under major Road and the road with width less than 15ft. will come under Minor Road. e.g., on each pole in second line, it shall be numbered as

LT0111-1.... LT0111-2.....LT0111-**100** onwards.

Third Line will provide the information of pole no.

Wherever LT Poles/FP /SP and HVDS/HT Poles are going parallel then road code for LT Poles/FP /SP and HVDS/HT Poles remain same but numbering is done separately.

#### b. Numbering New Poles

Poles of the all coded road will be numbered from 1 onwards in last line e.g.

For LT Pole /FP/SP will be numbered as (mentioned in bold)

LT            LT            LT  
0111-1    ,    0111-1    ,    0111-1    onwards  
                                                        
**1**                    **2**                    **3**

Similarly, For HVDS/HT Pole

HT            HT            HT  
0111-1    ,    0111-1    ,    0111-1    onwards  
                                                        
**1**                    **2**                    **3**

Similarly, For Towers

EHT            EHT            EHT  
0111-1    ,    0111-1    ,    0111-1    onwards  
                                                        
**1**                    **2**                    **3**

c. Coding for T-offs

**Case 1:** Any T-off from any pole is depicted as “ / ”. In electrical distribution network, T-off is a point from where another branch is taken to cater different areas. e.g.

For LT Pole/FP/SP, 1st pole onwards from T-off shall be numbered as (mentioned in bold)

LT	LT	LT	
0111-1	, 0111-1	, 0111-1	onwards
<u>          </u>	<u>          </u>	<u>          </u>	
<b>1/1</b>	<b>1/2</b>	<b>1/3</b>	

Similarly, For HVDS/HT Pole

HT	HT	HT	
0111-1	, 0111-1	, 0111-1	onwards
<u>          </u>	<u>          </u>	<u>          </u>	
<b>1/1</b>	<b>1/2</b>	<b>1/3</b>	

Similarly, For Towers

EHT	EHT	EHT	
0111-1	, 0111-1	, 0111-1	onwards
<u>          </u>	<u>          </u>	<u>          </u>	
<b>1/1</b>	<b>1/2</b>	<b>1/3</b>	

**Case 2:** In case two T-off from one pole are there then two different T-off will be numbered separately. e.g.

For LT Pole/FP/SP, 1st pole onwards from **1<sup>st</sup> T-off** shall be numbered as (mentioned in bold)

LT	LT	LT	
0111-1	, 0111-1	, 0111-1	onwards
<u>          </u>	<u>          </u>	<u>          </u>	
<b>1/1/1</b>	<b>1/1/2</b>	<b>1/1/3</b>	

Similarly, For HVDS/HT Pole

HT	HT	HT	
<u>0111-1</u>	, <u>0111-1</u>	, <u>0111-1</u>	onwards
<b>1/1/1</b>	<b>1/1/2</b>	<b>1/1/3</b>	

Similarly, For Towers

EHT	EHT	EHT	
<u>0111-1</u>	, <u>0111-1</u>	, <u>0111-1</u>	onwards
<b>1/1/1</b>	<b>1/1/2</b>	<b>1/1/3</b>	

Ist Pole onwards from **2<sup>nd</sup> T-off** shall be numbered as (mentioned in bold)

LT	LT	LT	
<u>0111-1</u>	, <u>0111-1</u>	, <u>0111-1</u>	onwards
<b>1/2/1</b>	<b>1/2/2</b>	<b>1/2/3</b>	

Similarly, For HVDS/HT Pole

HT	HT	HT	
<u>0111-1</u>	, <u>0111-1</u>	, <u>0111-1</u>	onwards
<b>1/2/1</b>	<b>1/2/2</b>	<b>1/2/3</b>	

Similarly, For Towers

EHT	EHT	EHT	
<u>0111-1</u>	, <u>0111-1</u>	, <u>0111-1</u>	onwards
<b>1/2/1</b>	<b>1/2/2</b>	<b>1/2/3</b>	

d. Numbering New poles between existing Poles

In case of installation of new pole(s) between 2 existing poles then new pole shall be suffixed with Alphabet starting with "A" onwards. e.g.

For LT Pole/FP/SP, new pole is installed between pole no. 1 & 2 then new pole is numbered as (mentioned in bold)

<u>LT</u> 0111-1 ,	<u>LT</u> 0111-1 ,	<u>LT</u> 0111-1	onwards
1/1	<b>1/1A</b>	1/2	

Similarly, For HVDS/HT Pole

<u>HT</u> 0111-1 ,	<u>HT</u> 0111-1 ,	<u>HT</u> 0111-1	onwards
1/1	<b>1/1A</b>	1/2	

e. [Numbering extension of poles for feeding new areas](#)

In case of extension of poles for feeding new areas, continuous numbering can be given if possible, and in case it is not possible then same is suffixed with A, B, C as per Rule no 4 or till new road code is generated as per Rule no 1.

E.g. for LT Pole/FP/SP, continuous numbering shall be (mentioned in bold)

<u>LT</u> 0111-1 ,	<u>LT</u> 0111-1 ,	<u>LT</u> 0111-1	<u>LT</u> 0111-1 ,	<u>LT</u> 0111-1
1/1	1/2	1/3	<b>1/4</b>	<b>1/5</b>

Similarly, For HVDS/HT Pole

<u>HT</u> 0111-1 ,	<u>HT</u> 0111-1 ,	<u>HT</u> 0111-1 ,	<u>HT</u> 0111-1 ,	<u>HT</u> 0111-1
1/1	1/2	1/3	<b>1/4</b>	<b>1/5</b>

OR new road code is generated (mentioned in bold)

<u>LT</u> 0111- <b>2</b> ,	<u>LT</u> 0111- <b>2</b> ,	<u>LT</u> 0111- <b>2</b> ,	<u>LT</u> 0111- <b>2</b> ,	<u>LT</u> 0111- <b>2</b>
1/1	1/2	1/3	1/4	1/5

Similarly, For HVDS/HT Pole

$$\begin{array}{ccccc} \text{HT} & \text{HT} & \text{HT} & \text{HT} & \text{HT} \\ \hline 0111-2 & , & 0111-2 & , & 0111-2 \\ \hline 1/1 & & 1/2 & & 1/3 \\ \hline & & & & 1/4 \\ \hline & & & & 1/5 \end{array}$$

f. Pole Painting Specifications

- i. Painting shall be carried out at 5.5 ft height of poles from ground level and maintain consistency for all poles.
- ii. Pole numbers are written in two lines in terms of numerator and denominator on PCC poles or where pole width is sufficient, while on rail pole pole no shall be painted in three line.
- iii. Paint the number with Yellow background with black color number.
- iv. Number painted on poles should not be tilted, distorted and spread over etc.
- v. Number should be easily readable from minimum 20 ft. distance.
- vi. Base Box shall be straight and Number shall be written with stencils with dimensions as mentioned below:

LT  
0111-1  
1

HT  
0111-1  
2

EHT  
0111-1  
3

# Pole Numbering Proposal

LT0111-1/1
HT0111-1/2
EHT0111-1/3

Pole no updation  
in system

Voltage Level  
DivisionSubdivisionSection-Roadcode  
Pole No

0111-First two digit of division no then last two digit  
subdivision no. and section no.

#### iv. Sub Station Numbering Methodology

For 33 kV & 11 kV Station

Painting on the main gate/Wall/Pole/Fencing for Plinth Mounted and Pole Mounted Stations

- Name of the substation
- Capacity of DTs or PTs
- DT1 & DT2 or PT1 & PT2

## Pole Mounted DTC Painting Pattern

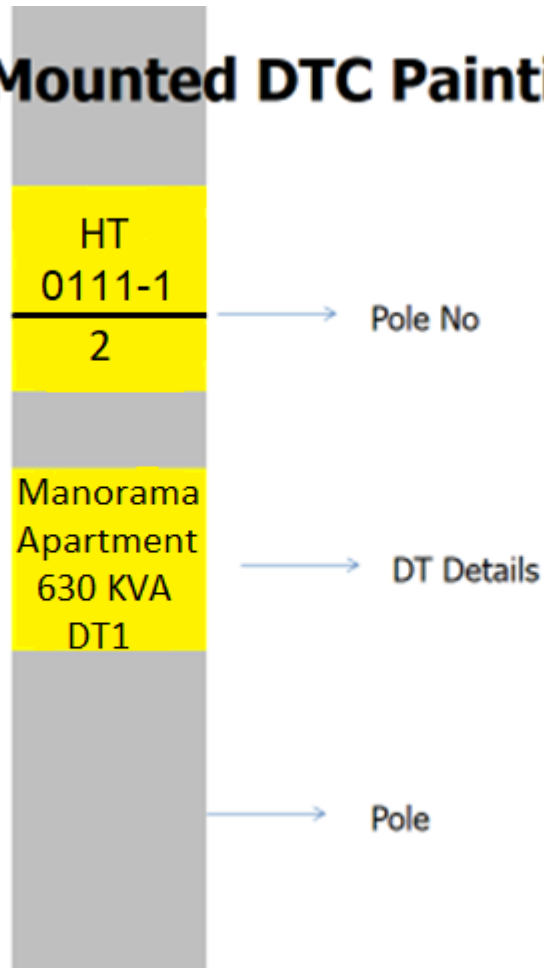


Figure DTC painting pattern - for Pole Mounted

## Plinth Mounted DTC Painting Pattern



Figure DTC Painting Pattern



# 33/11KV Station Painting Pattern

Board Colony 10MVA PTR1

Figure 1 33/11KV Station Painting Pattern

Painting on equipment (Transformer and Breaker)

- Manufacturer Serial No
- Manufacturer Name
- Capacity

## Transformer Painting Pattern

SR45789 L&T 630KVA

Figure Transformer painting pattern

# Circuit Breaker Painting Pattern



SR9832 ABB 400KVA

**Figure Breaker Painting Pattern**

As per requirement all the Transformer and Breaker has to be painted. But at present condition all the equipment at site are live and charged and for painting Transformer and Breaker we have to take proper shut down. Taking shutdown every time will be practically not possible and carrying out the painting without taking proper shutdown will be a serious safety concern.

So presently for the live transformer and breaker asset number will be updated in the system and for proper asset management the same number will be synced with SAP.

This numbering logic and painting will be properly applicable for the new equipment. All the new transformer and breaker before realizing from the store has to be painted in the above mentioned manner and the same number will be updated in the GIS system.

## **v. Asset Numbering Checks and validation**

The primary objectives of involving Checks and Validations for Asset numbering are to ensure that all predefined assets for numbering are numbered properly with proper logic so that it meets most of the project specifications and acceptance criteria envisaged for the project. It provides the project team with a standard set of criteria to follow during the pilot and full-scale project, and ensures a minimum amount of data rework is necessary as the project evolves.

At each specific stage Checks are required, starting from number allocation to the assets till punching of attributes in system.

There are chances of mistakes during the activity. There fore checks will be performed on the following:

- No duplicate number for any specific individual assets.
- Proper logic to be followed while assigning the numbering of assets.
- While painting the asset numbers at site proper color coding will be followed.
- While painting the asset numbers at site proper font and size will be followed.
- During entering the data in system precautions will be taken.
- System generated checks will be there to find out the duplicate numbers if any.

## **Eligibility Criteria**

Sr. No.	Pre-qualification Criteria	Documents to be attached
1	<p>The Bidder (Prime) should be registered under the Companies Act 1956 and should be in existence in India for at least 10 years (as on 31st March 2020).</p> <p>Bidder (prime) should have experience in IT/GIS Business (services) and should have been in the IT &amp; GIS related business for a period of at least 10 years (as on 31st March 2020).</p>	<p>i. A copy of "Certificate of Incorporation" of the company  ii. Work Orders confirming year and area of activity.</p>
2	<p>Bidder must have valid enterprise level ISO 9001:2015 certification.</p> <p>Note: In case the certificate is due for renewal, the bidder should ensure that the renewed certificate is made available at the time of signing of contract. In case the same is not provided, the department may consider negotiating the award of contract with the next eligible Bidder.</p>	<p>A copy of the valid ISO certificate.</p>
3	<p>The Bidder should not be under a Declaration of Ineligibility for corrupt or fraudulent practices or should not have been blacklisted with any State or Central Government or any State or Central PSU in India.</p>	<p>Declaration duly notarized in this regard by the authorized signatory of the bidder.</p>
4	<p>The Bidder (Prime) should have for the each of the last three consecutive financial years i.e. FY: 2016-2017, FY: 2017-2018, FY: 2018-2019.</p> <p>i. A average annual turnover over last three</p>	<p>i. Copy of the audited Balance Sheet &amp; Profit and Loss statement of the company showing turnover of the company for last three years.</p>

Sr. No.	Pre-qualification Criteria	Documents to be attached
	<p>financial years ie: INR 70 Crores each for the last 3 financial years 2016-2017, FY: 2017-2018, FY: 2018-2019 should be more than INR 100 Crores.</p> <p>ii. Positive Net Worth of at least 60 Crores as on 31<sup>st</sup> March 2019.</p>	<p>ii. Certificate from the Company Secretary/Statutory Auditor's ascertaining a positive net worth during each of the last 3 years</p>
5	<p>The bidder must have an overall IT &amp; GIS related staff strength of at least 200 personnel with prior experience of more than two years on their payroll as on 31<sup>st</sup> March 2019. Bidder should submit HR head Certificate.</p>	<p>I. Certificate from bidder's HR Department</p> <p>II. Supported by EPF/ESIC Challans/ registration.</p>
6	<p>The bidder must have valid EPF and ESIC registration and shall comply to relevant labor laws in the country.</p>	<p>III. Supportive EPF &amp; ESIC registration to be submitted.</p>
7	<p>The Bidder must have experience of having successfully completed at least 5 GIS Service – including Survey and Data work for Utility GIS project. having similar scope during last 7 years ending as on 31<sup>st</sup> March 2019.</p> <p>At least one project valued not less than INR. 5 Cr. Or 3 project for atleast than INR 2 Crore each.</p>	<p>Work Completion Certificates from the client;</p> <p>OR</p> <p>Work Order + Self Certificate of Completion (CA Certificate with CA's Registration Number and Seal);</p> <p>OR</p> <p>Work Order + Phase Completion Certificate from the client showing acceptance of completion</p>
8	<p>The Bidder must have experience in successfully completing at least one project for GCP identification and survey covering more than 10,000sqkm our project area. Within India in the last. 7 years (as on 31<sup>st</sup> March 2019).</p>	<p>Work Completion Certificates from the client;</p> <p>OR</p> <p>Work Order + Self Certificate of Completion (CA Certificate with CA's Registration Number and Seal);</p> <p>OR</p> <p>Work Order + Phase Completion Certificate from the client showing acceptance of completion</p>

Sr. No.	Pre-qualification Criteria	Documents to be attached
9	The Bidder must have experience in successfully completing Survey & data processing work of more than 20,000 ckt km of electrical network data and door-to-door survey of more than 5,00,000 consumers in the last 7 years (as on 31 <sup>st</sup> March 2019).	Work Completion Certificates from the client; OR Work Order + Self Certificate of Completion (CA Certificate with CA's Registration Number and Seal); OR Work Order + Phase Completion Certificate from the client showing acceptance of completion
10	The Bidder must have experience in successfully completing Utility Survey & data processing work using PDA/Digital data collection devices/ method in the last 5 years (as on 31 <sup>st</sup> March 2019).	Work Completion Certificates from the client; OR Work Order + Self Certificate of Completion (CA Certificate with CA's Registration Number and Seal); OR Work Order + Phase Completion Certificate from the client showing acceptance of completion
11	The Bidder must have experience in successfully implementing/maintaining GIS system for Utility data update and maintenance work in the last 10 years (as on 31 <sup>st</sup> March 2019).	Work Completion Certificates from the client; OR Work Order + Self Certificate of Completion (CA Certificate with CA's Registration Number and Seal); OR Work Order + Phase Completion Certificate from the client showing acceptance of completion
12	Bidder must have VAT/TAN/PAN/GST registration & Tax Clearance Certificate from the Competent Authority up to March 2019.	Documentary evidence to be provided

Sr. No.	Pre-qualification Criteria	Documents to be attached
13	The bidder must an inventory of more than 10 DGPS devices, 100 computers and valid AutoCAD and ArcGIS license in-house.	Documentary evidence to be provided
14	The bidder must have an office in Odisha State.  OR The prime bidder has to give an undertaking to do so within 1 months of award of contract with strength of IT professionals that are required for proper implementation of the project.	i. Self-declaration from the bidder.
15	The Bidder (Prime) should furnish, as part of its bid, an Earnest Money Deposit (EMD) of Rs. 2 % of project cost.	The EMD should be denominated in Indian Rupees, and should be in the form of DD/FD/Bank Guarantee from a Nationalized / Scheduled bank in favor of TPODL.




## **PRICE BID FORMAT**

Sr.No.	Activity	Unit	FY-21				FY-22				FY-23						
			Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C)	Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C)	Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C)
1	Base Map Creation	Sq. Km	2110					12026					14845				
2	33/11 kV SS Survey	Numbers	371					0					0				
3	33 kV Line / Cable / DT	Circuit Length	3717					0					0				
4	11 kV Line/Cable / DT	Circuit Length	3415					30237					0				
5	LT Network	Circuit Length	5620					21697					9978				
6	Pole Painting (RAPDRP Area)	Numbers	95000					30000					30000				
7	Consumers	Numbers	300000					1087000					975000				
8	GIS data preparation / digitisation / vectorisation	Sq. Km	2110					12176					14995				
9	Data Conflation	Sq. Km	250					150					150				
10	Migration / Updation (Existing and New)	Sq. Km	2110					12176					14995				
		<b>Total</b>						<b>0</b>					<b>0</b>				<b>0</b>

**Note -**

- 1) The bids shall be evaluated commercially on the overall lowest cost for three years. Therefore bidders are advised to quote their best price on over all basis.
- 2) Contract will be awarded in phases (Sub-division/Section/Circle) for FY-21.
- 3)Based on the performance of bidder, the rate contract may be extended for Year-2 and Year-3. Tata Power Reserves the right to review FY-22 & FY-23 requirements at later stage.

## **GCC-Services**

	TP CENTRAL ODISHA DISTRIBUTION LIMITED	
	WORK INSTRUCTION /OPERATING GUIDELINES	
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<b>29.0</b>	<b>SUGGESTIONS &amp; FEEDBACK</b>
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<b>31.0</b>	<b>LIST OF ANNEXURES</b>

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## 1.0 ORGANIZATIONAL VALUES

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

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

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

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

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

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

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

## 2.0 ETHICS

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

The main objective of the Ethics Management Team is to:

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

All members of Team TPCODL, Associates and Stakeholders are requested to register any grievance on ethics violation.

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### **3.0 CONTRACT PARAMETERS**

#### **3.1 Issue/ Award of Contract**

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

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

#### **3.2 Contract Commencement Date**

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

#### **3.3 Contract Completion Date**

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

#### **3.4 Contract Period/Time**

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

#### **3.5 Contract Execution Completion Date**

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

#### **3.6 Contract Execution Period/Time**

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

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

#### **3.7 Contract Price /Value**

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



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

### 3.8 Contract Document

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

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

### 3.9 Contract Language

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

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

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

### 3.10 Reverse Auction

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

## 4.0 SCOPE OF WORK

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

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

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

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

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

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

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

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

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

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

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

#### **4.1 Indemnity**

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

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

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

#### **4.2 Display of Notice Boards at Work Sites**

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

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

#### **4.3 Disposal of Waste at Site**

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

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

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

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

#### **4.4 Deployment of Work Force**

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

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

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

#### **4.5 Damages of Properties**

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

#### **4.6 Issuance of Materials**

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

#### **4.7 Company's Right To Use Works**

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

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

#### 4.8 Rights of TPCODL to vary the scope work

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

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

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

#### 4.9 Technical Evaluation

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

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

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

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

## 5.0 PRICES/RATES/TAXES

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

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

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

### 5.1 Changes in Statutory Tax Structure

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

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

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## 6.0 TERMS OF PAYMENT

### 6.1 Pre-Requisites for Payment

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

### 6.2 Bills & Invoices

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

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

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

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

### 6.3 Payment & Statutory Deductions

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

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

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### 6.3.1 Statutory Deductions

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

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

The Engineer-in-Charge as stated in the Order shall be responsible for certification of the work executed and the bills. Bills (including original) shall be submitted in triplicate at Bill Inward Receipt Desk (BIRD) located at Civil Lines-III TPCODL, Near Vidhan Sabha.

### 6.4 Guidelines for Raising Running/ Final Bills

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

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

### 6.5 Quantity Variation

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

### 6.6 Full and Final Payment

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

### 7.0 MODE OF PAYMENT

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

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



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## 8.0 SECURITY CUM PERFORMANCE DEPOSIT

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

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

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

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

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

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

## 9.0 STATUTORY COMPLIANCE

### 9.1 Compliance to Various Acts

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

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

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

## 9.2 SA 8000

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

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

## 9.3 Affirmative Action

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

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

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

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

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

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

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

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

#### **9.4 Compliance to Labour Laws**

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

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

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

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

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

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## **10.0 QUALITY**

### **10.1 Knowledge of Requirements**

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

### **10.2 Adherence to Rules & Regulations**

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

### **10.3 Specifications and Standards**

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

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

## **11.0 SAFETY**

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

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

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

## **12.0 GUARANTEE**

### **12.1 Guarantee of Performance**

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

### **12.2 Guarantee Period**

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

### **12.3 Failure in Guarantee Period (GP)**

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

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

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

#### **12.4 Cost of repairs on failure in GP**

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

#### **12.5 Guarantee period for Goods Outsourced**

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

#### **12.6 Latent Defect**

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

### **13.0 LIQUIDATED DAMAGES**

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

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

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

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

### 13.1 LD Waiver Request

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

### 13.2 Material Recovery

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

### 14.0 ASSIGNMENT OR SUBCONTRACTING

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

In such cases where outsourcing is done by the Associate

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

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

## **15.0 UNLAWFUL ACTIVITIES**

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

## **16.0 CONFIDENTIALITY**

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

### **16.1 Documents**

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

### **16.2 Geographical Data**

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

### **16.3 Associate's Processes**

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



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

#### **16.4 Exclusions**

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

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

#### **16.5 Violation**

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

#### **17.0 INTELLECTUAL PROPERTY RIGHTS**

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

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

#### **18.0 INDEMNITY**

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

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

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

## **19.0 LIABILITY & LIMITATIONS**

### **19.1 Liability**

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

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

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

### **19.2 Limitation of Liability**

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

## **20.0 FORCE MAJEURE**

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

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

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

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

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

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

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

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

## **21.0 SUSPENSION Of CONTRACT**

### **21.1 Suspension for Convenience**

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

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

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

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

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

### **21.2 Suspension for Breach of Contract conditions**

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

### **21.3 Compensation in lieu of Suspension**

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

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

## **22.0 TERMINATION OF CONTRACTS**

### **22.1 Termination for Default/Breach of Contract**

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

## **22.2 Termination for convenience of Associate**

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

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

### **22.3 Termination for Convenience of TPCODL**

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

### **23.0 DISPUTE RESOLUTION & ARBITRATION**

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

### **24.0 Governing laws and jurisdiction**

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

### **25.0 ATTRIBUTES OF GCC**

#### **25.1 Cancellation**

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

#### **25.2 Severability**

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

#### **25.3 Order of Priority**

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

### **26.0 INSURANCE**

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

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

### **27.0 ERRORS AND OMISSIONS**

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

### **28.0 TRANSFER OF TITLES**

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

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

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

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

### **29.0 SUGGESTIONS & FEEDBACK**

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



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

### 30.0 CONTACT POINTS

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

### 31.0 LIST OF ANNEXURES

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

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**ANNEXURE-A**

**PROFORMA FOR BID SECURITY BANK GUARANTEE**

**TP Central Odisha Distribution Limited**

**Bhubaneswar**

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

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

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

The CONDITIONS of this obligation are:

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

or

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

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

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

**DATE**.....

**SIGNATURE OF THE BANK**.....

**WITNESS**.....

**SEAL**.....

(Signature, Name & Address)

(At least 2 witnesses)

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**ANNEXURE- B**

**PROFORMA FOR PERFORMANCE BANK GUARANTEE (CP cum EP)**

**(On Rs.100/- Stamp Paper)**

**Note:**

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

**TP Central Odisha Distribution Limited**

**Bhubaneswar**

**CP cum EP BG No.....**

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

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

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

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

Dated at \_\_\_\_\_ this \_\_\_\_\_ day of \_\_\_\_\_ 200\_\_

**Witness**

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

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**ANNEXURE-C**

**PROFORMA FOR “NO DEMAND CERTIFICATE” BY ASSOCIATE**

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

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

**(Certificate No. CCP/002)**

Name of the Project

Order/ Contract No.

Dated

Name of the Associate

Scheme No. / Job No.

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

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

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

**Dated**

**Signature**

**Place**

**Name**

**Designation**

**(Company Seal)**

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**ANNEXURE – D**

**PROFORMA FOR “INDEMNIFICATION ON STATUTORY COMPLIANCES”**

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

**(Certificate No. CCP/001)**

Name of the Project

Letter of Award / Contract No.

Dated

Name of the Associate

Scheme No. / Job No.

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

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

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

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

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

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

**Dated**

**Signature**

**Place**

**Name Designation**

**(Company Seal)**

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**ANNEXURE-E**

**PROFORMA FOR APPLICATION FOR ISSUANCE OF CONSOLIDATED TDS CERTIFICATE**

To be printed on the letterhead

To,

**TP Central Odisha Distribution Limited,**

Bhubaneswar

**Sub: Application for issuance of Consolidated TDS Certificate for the FY \_\_\_\_\_**

Dear Sir,

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

For and on behalf of

Signature

Name

Address

Contact No. (Land Line)

(Mobile)

PAN #

Assessing authority

**ATTACH THE COPY OF PAN CARD**

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## **ANNEXURE - F**

### **SERVICE LEVEL AGREEMENT**

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

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

**Shall Abide by TPCODL Core Values:**

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

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

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

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



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

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

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

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

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

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

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

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

**7.0 Requirements during execution of work:**

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

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

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

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

**Enclosure:**

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

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**FORM (A)**

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

**A. Details of the Agency**

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

**B. Details of Work**

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

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If yes, furnish details:

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

Name \_\_\_\_\_ of \_\_\_\_\_ Insurance \_\_\_\_\_ Company \_\_\_\_\_

.....

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

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

**C. Details of workers to be engaged**

**No. of Workers**

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

**\* Number to be indicated**

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

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

**Date:**

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

**This Business Associate is / will be engaged in TPCODL.**

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

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**Form X**

**Undertaking**

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

( \_\_\_\_\_ )

Date:

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**Form XI**

**Undertaking**

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

I \_\_\_\_\_ on behalf of

M/s \_\_\_\_\_ hereby undertake:

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

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

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

Date:

\_\_\_\_\_  
( \_\_\_\_\_ )  
Authorized Signatory

For M/s \_\_\_\_\_

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**FORM- VI A**

**Notice for Commencement /Completion of contract work**

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

**Signature of Contractor**

**With Office Seal**

**The Inspector**

\_\_\_\_\_  
\_\_\_\_\_



**FORM XXIV**

[See Rule 82(1)]

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

Half -Yearly Ending \_\_\_\_\_

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

Men	Women	Children	Total

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

8. No. of man days worked by

Men	Women	Children	Total

9. Amount of wages paid

Men	Women	Children	Total

10. Amount of deductions from wages, if any

Men	Women	Children	Total

Whether the following have been provided –

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- (i) Canteen : \_\_\_\_\_
- (ii) Rest rooms : \_\_\_\_\_
- (iii) Drinking water : \_\_\_\_\_
- (iv) Crèches : \_\_\_\_\_
- (v) First Aid : \_\_\_\_\_

**Signature of contractor**

Place \_\_\_\_\_

Date \_\_\_\_\_

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**ANNEXURE – G**

**UNDERTAKING FOR COMPETENCE OF WORKMEN**

Name of Associate :

Tender No. :

Item :

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

Date:

\_\_\_\_\_  
( )

Authorized Signatory

For M/s

Seal

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**ANNEXURE-H**

**BUSINESS ASSOCIATE FEEDBACK FORM**

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

**You are associated with us as**

- OEMs       Service Contractor     Material Suppliers     Material & Manpower Supplier

**You are associated with us for**

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

**Your office is located at**

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

**Your nearly turnover with TPCODL**

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

**Additional information**

<b>Your Name</b>	
<b>Your Designation</b>	
<b>Your Organization</b>	
<b>Contact Nos.</b>	
<b>Email</b>	

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

### SECTION - A

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

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

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

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### SECTION - B

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

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

**SECTION – C**

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

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

**SECTION - D**

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

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

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### SECTION – E

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

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

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

Recommendation	<i>Please tick (✓) your top 5 expectations out of the following 10 points listed below -</i>	
(Please list down improvement you expect from TPCODL)	<i>Timely payment</i>	
1	<i>Flexibility in Contracts/PO</i>	
	<i>Clarity in PO,s &amp; 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 &amp; quality assurance support for timely job completion</i>	

We thank you for your time and courtesy!!

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## ANNEXURE - I

### **ACCEPTANCE FORM FOR PARTICIPATION IN REVERSE AUCTION EVENT**

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

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

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

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

**Signature & Seal of the Bidder**

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**ANNEXURE - J**

To,  
DGM (Finance)  
TP Central Odisha Distribution Limited  
Bhubaneswar

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

Dear Sir,

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

Vendor Code :

Title of Account in the Bank :

Account Type :

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

Bank Account Number : 

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

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)

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:

Email Address of accounts person (to send payment information)

Name of the Authorized Signatory :

Contact Person's Name :

Official Correspondence Address :

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

Thanking you,

For \_\_\_\_\_

**(Authorised Signatory)**

**(Signature with Rubber Stamp)**

**Certification from Bank:**

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

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

**(Manager's/ Officers Signature under Bank Stamp)**

## ANNEXURE - K

### CONTRACTOR SAFETY MANAGEMENT SYSTEM

#### 1. OBJECTIVE

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

#### 2. SCOPE

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

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

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

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

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

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

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

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

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

- 4.1 Maintenance of Distribution Network – *Annexure 3.1*
  - 4.2 Distribution Projects – *Annexure 3.2*
  - 4.3 EHV Projects – *Annexure 3.3*
  - 4.4 Maintenance of Sub transmission network – *Annexure 3.4*
  - 4.5 Civil / Generation Projects – *Annexure 3.5*
  - 4.6 Meter Management Group (MMG), Revenue Recovery Group (RRG), Energy Auditing Group, AMI, MRG, etc. – *Annex3.6*
  - 4.7 Maintenance and Operation of Street Light. – *Annexure 3.7*
1. *Please note that hydra cranes used by any dept should be ACE Model No. FX 150 ACE SX 150, Escorts Model No. TRX 1550 or contemporary. Use of old generation hydra cranes like ACE 14XW or ACE 12 XW, etc are prohibited.*

**(Details as per Annexure attached)**

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

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

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

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

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

## 5. QUALIFICATION AND EXPERIENCE OF THE SAFETY AND SITE PERSONNEL

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

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

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

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

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

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

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

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

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

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

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



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

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

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

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

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

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

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

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

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

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

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

## 6. REWARD AND PUNITIVE MEASURES

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

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

### 6.2 Measures of Reward and Punitive Measures

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

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

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

### 6.3 Safety Violation Escalation Matrix

#### 6.3.1

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

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

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

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

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

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

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

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

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

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

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

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

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

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

### **6.3.2 COMPENSATION FOR BA PERSONNEL**

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

#### **I. For Death or Permanent / Total Disablement**

The BA shall take an insurance coverage of at least Rs. 10 lakhs for each engaged employee, to cover any incidence of Death or Permanent / Total Disablement (Permanent/Total Disability shall be considered as defined under Employees' Compensation Act, 1923). In the event of any such unfortunate incident, the BA would ensure that adequate compensation is paid immediately to the family of the victim(s) from his own resources. This compensation shall be covered under the insurance policy subscribed by the BA mentioned earlier and the arrangement should be such that it would get reimbursed to the BA by the insurance agency subsequently.

#### **II. For Permanent Partial Disablement and Temporary Total Disablement**

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

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

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

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

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

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

#### Abbreviations Used in the Document

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

- END -



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**Annexure 1 (Refer Para 3.1)**

***Business Associate Safety Management System Questionnaire***

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

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

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

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

**Note**

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

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

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

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

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

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

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**Annexure 2 (Refer Para 3.2 and 5.8)**

***Risk Assessment Form***

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

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

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

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

### Guidelines for filling the Risk Assessment Form

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

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

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

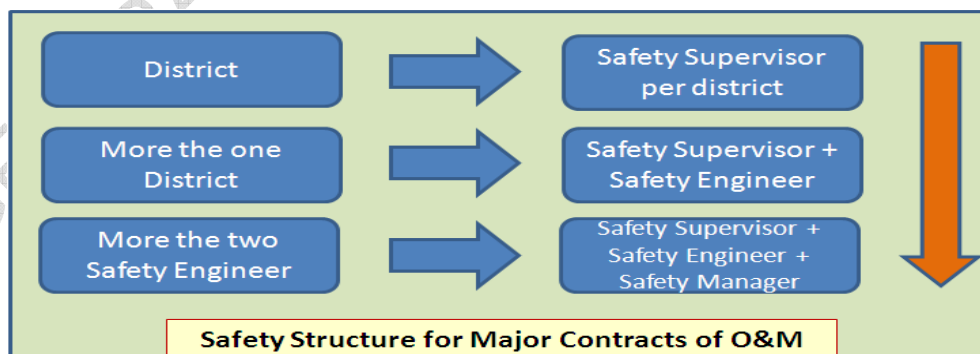
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### Annexure 3.1 (Refer Para 4.0)

#### **General Safety Conditions for the Maintenance of Distribution Network Contracts:**

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

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



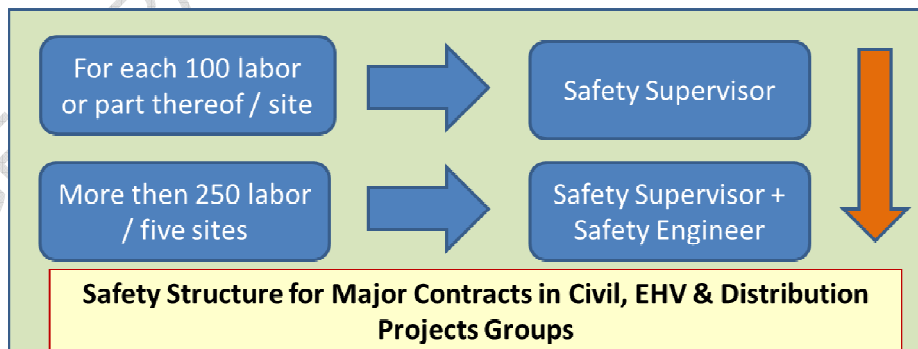
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### Annexure 3.2 (Refer Para 4.0)

#### **General Safety Conditions for the Distribution Projects Major Contracts:**

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

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





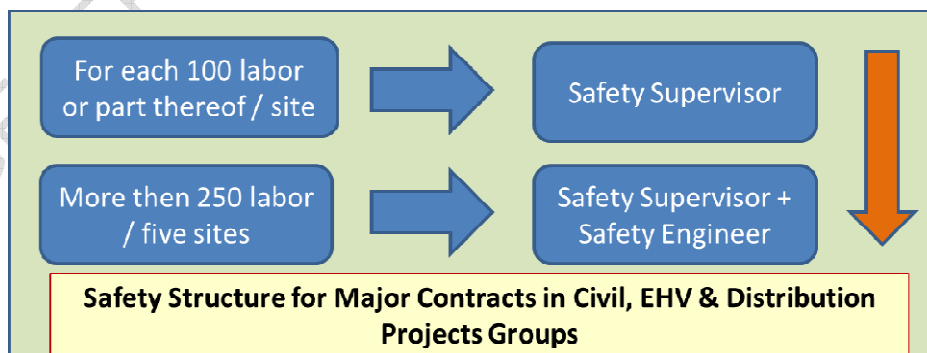
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### Annexure 3.3 (Refer Para 4.0)

#### **General Safety Conditions for the major EHV Projects Contracts:**

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

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



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### Annexure 3.4 (Refer Para 4.0)

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

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

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



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### Annexure 3.5 (Refer Para 4.0)

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

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

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



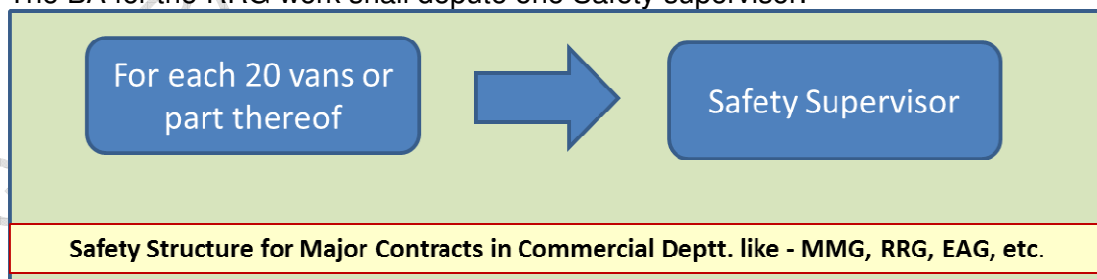
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### Annexure 3.6 (Refer Para 4.0)

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

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

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



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### **Annexure 3.7 (Refer Para 4.0)**

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

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

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



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**Annexure 4 (Refer Para 3.3)**

**Safety Undertaking by way of Affidavit**

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

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

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

DEPONENT

VERIFICATION

Verified at Bhubaneswar on this \_Day of \_\_\_\_\_20\_\_ that the contents of the above affidavit are true and correct and nothing material has been concealed therefrom

DEPONENT

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**Annexure 5 (Refer Para 5.4)**

**SKILL / QUALIFICATION REQUIRED FOR ELECTRICIAN AND ELECTRICAL SUPERVISOR**

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

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

OR

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

OR

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

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

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

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

OR

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

AND

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

OR

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



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## **Annexure 6 (Refer Para 5.6)**

### **Training Module for BAs Worker & Supervisor**

#### **Training for BA Supervisor**

**Duration – 02 Hrs / Month**

**Methodology:** Lecture and Practical Demonstration of Safety Zone Creation

#### **Session: 1**

**Topic:** Electrical Safety Aspects

#### **Sub Topics:**

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

#### **Session: 2**

**Topic:** Use of Electrical Testing Equipment

**Methodology:** Lecture and Practical Demonstration

#### **Sub Topics:**

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

#### **Session: 3**

**Topic:** Awareness of Electrical Safety Aspects

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

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

#### **Session: 4**

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

#### **Session: 5**

**Topic: Practical demonstration of Safety Zone creation**

### **FREQUENCY**

#### **Regular Safety Training Program**

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

#### **One Day Induction Safety Training Programs:**

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

#### **Duration / Periodicity:**

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

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**Annexure 7 (Refer Para 5.7)**

**LIST OF PERSONAL PROTECTIVE EQUIPMENT AND TESTING FREQUENCY**




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

*Note:*

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

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

**Pictures of PPE for reference purpose.**

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

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

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

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

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

Note:

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

**Annexure 9 (Refer Para 5.9)**

**PERFORMANCE REPORT – SAFETY**

**FOR THE MONTH OF.....**

Name of BA : .....

Name of the Project and Purchase order No: .....

Date of commencement of work: .....

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

Cumulative Man Hour worked: .....

Total Number of

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

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

Detail of the Incident / Sub Standard Acts and Condition

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

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

Detail of the Accident / Near Miss Incidents:

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

Details of the Safety Violations:

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Date and Location	Brief Description	Name of employee involved	Action Taken

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

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

Detail of the Safety Meeting

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

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

Date	Area / Location	Major Observations	Recommendations	Action Taken

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

Date	Location	Activity	Level of Participation	Number of participation

Signature of the BA Safety Representative  
HoG

Signature of ZM /

Name, E. No. and Date

Name, E. No. Date.

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

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



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**ANNEXURE-L**  
**VENDOR APPRAISAL FORM**

<b>TO BE SUBMITTED BY VENDOR (To be filled as applicable)</b>		
<b>VENDOR:</b>		
<b>1.0</b>	<b>DETAILS OF THE FIRM</b>	
	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 :
<b>2.0</b>	<b>PRODUCTS MANUFACTURED</b> :	
<b>3.0</b>	<b>TURNOVER DURING THE LAST 3 YEARS (TO BE VERIFIED WITH THE LATEST PROFIT &amp; LOSS STATEMENT).</b> :	
<b>4.0</b>	<b>VALUE OF FIXED ASSETS</b> :	
<b>5.0</b>	<b>NAME &amp; ADDRESS OF THE BANKERS</b> :	
<b>6.0</b>	<b>BANK GUARANTEE LIMIT</b> :	
<b>7.0</b>	<b>CREDIT LIMIT</b> :	
<b>8.0</b>	<b>TECHNICAL</b>	
	8.1	NO. OF DESIGN ENGINEERS (INDICATE NO. OF YEARS EXPERIENCE IN RELATED FIELDS) :
	8.2	NO. OF DRAUGHTSMAN :
	8.3	COLLABORATION DETAILS (IF ANY) :
		8.3.1 DATE OF COLLABORATION :

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

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

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

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

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

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

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

GENERAL CONDITIONS OF CONTRACT

**GCC-Supply**

**CONTENTS**

<b>CLAUSE NO.</b>	<b>DESCRIPTION</b>
<b>1.0</b>	<b>ORGANIZATIONAL VALUES</b>
<b>2.0</b>	<b>ETHICS</b>
<b>3.0</b>	<b>CONTRACT PARAMETERS</b>
3.1	Issue/Award of Contract
3.2	Contract Commencement Date
3.3	Contract Completion Date
3.4	Contract Period/ Time
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## 1.0 ORGANIZATIONAL VALUES

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

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

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

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

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

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

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

## 2.0 ETHICS

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

The main objective of the Ethics Management Team is to:

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

All Associates and Stakeholders are requested to register any grievance on ethics violation on our website [www.tpccentralodisha.com](http://www.tpccentralodisha.com)

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### **3.0 CONTRACT PARAMETERS**

#### **3.1 Issue/Award of Contract**

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

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

#### **3.2 Contract Commencement Date**

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

#### **3.3 Contract Completion Date**

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

#### **3.4 Contract Period/Time**

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

#### **3.5 Contract Execution Completion Date**

The stipulated date for completing the 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 TPCODL, Third Parties associated with the contract, and the Associate shall be in English language.

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

### 3.9 Reverse Auction

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

TPCODL have the right, during the performance of the Contract, to change the scope and/or technical character of the Project and/or of the supplies and services stipulated in the Contract by submitting a request in writing to the Associate. The Associate shall, within fifteen days of receipt of

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

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

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

## 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 TPCODL, packaging and forwarding charges, freight and transit insurance charges covering loading at Associate's works, transportation to TPCODL store/site & unloading & delivery at TPCODL stores/TPCODL 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 TPCODL making changes in quantum in all or any of the schedules of items of contract.

### 5.1 Changes in Statutory Tax Structure

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

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

## 6.0 TERMS OF PAYMENT

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

- Test Reports (4 sets).
- MDCC issued by TPCODL.

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- Packing List.
- Drawing and Catalogue.
- Guarantee/Warranty Card.
- Delivery Challan.
- O&M Manual.
- Copy of Order.
- Minutes of Meeting.

Bills/ invoices shall mention Supplier's GST Number. TPCODL 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 TPCODL 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 TPCODL records, on whose name Contract has been issued. Those Associates opting for the RTGS mode shall submit the details of Bank Account and other details as per annexure G. Further, for any payments made, TPCODL is not responsible for any consequences/disputes Associate have among the owners channel partners, sub-Associates and all such dispute/concerns shall be settled solely by the Associate.

#### **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 TPCODL for:

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

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

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

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

## **9.0 STATUTORY COMPLIANCE**

### **9.1 Compliance to Various Acts**

Associate should ensure adherence to 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 TPCODL 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**

TPCODL 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\*\*

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

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

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

### \*\*Classification of 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



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

### **10.2 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 TPCODL.

### **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 TPCODL as enumerated in the Contract which may be more rigid than and not contrary to the above mentioned rules, nor providing such construction as may be required by the above mentioned rules and regulations. In case of variance of the Technical Specification from the laws, ordinance, rules and regulations governing the work, the Associate shall immediately notify the same to the TPCODL. It is the sole responsibility of the Associate, however, to determine that such variance exists. Wherever required by rules and regulations, the Associate shall also obtain the statutory authorities' approval for the plant, machinery and equipment to be supplied by the Associate.

### **10.4 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 TPCODL, provided materials, supplies and equipment according to the standard are equal to or better than the corresponding standards specified in the Contract.

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

## **11.0 INSPECTION/PARTICIPATION**

### **11.1 Right to Carry Out Inspection**

TPCODL 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 TPCODL during contract execution time.

All inspections and participations shall be carried out by TPCODL 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 TPCODL'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 TPCODL'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 TPCODL'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 TPCODL/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 TPCODL inspectors are not satisfied with the safety arrangements at the plant, TPCODL 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 TPCODL along with the inspection call, for scrutiny of TPCODL.

The Associate and TPCODL 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 TPCODL for receiving clearance for dispatch of materials

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### **11.3 Third Party Nomination**

TPCODL 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 TPCODL as far as conducting the inspection.

### **11.4 Waiver of Inspections**

TPCODL 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 TPCODL 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 TPCODL. Material delivered at TPCODL stores or at project site without a valid MDCC issued by the designated official of TPCODL 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 TPCODL, then, MDCC shall be issued on receiving all the test reports-routine& type-from the Associate and finding them in order.

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

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

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

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

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

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

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

Timelines for inspection and MDCC is as below:

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

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

### 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 TPCODL and have to supply back the material within next 30 days or within the timeframe mutually decided by Associate and TPCODL.

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

### 12.3 Consignee

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

### 12.4 Submission of mandatory documents on Delivery

Following documents shall be mandatorily submitted by BA along with supply of material to TPCODL 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	TPCODL material code and material description shall be mentioned in invoice and on material.
3	"Property of TPCODL" 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 TPCODL, Bhubaneswar", Guarantee period and Associate's name.
8	In case of manual unloading, supplier / transporter shall deploy sufficient Labour for unloading the material at TPCODL central store. For heavy item(s), crane will be provided by TPCODL [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 TPCODL for the equipment/material/service/work and where standard specifications are not part of contract documents or guarantee period is not specified in the standard specifications,, the guarantee period shall be as per the Special Terms and Conditions of the Contract. In case of no mention of the guarantee period in standard specifications or SCC Guarantee Period will be 12 Months from the Date of Commissioning or 24 months from the date of delivery of final lot of supplies made, whichever is earlier.

### **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, TPCODL will be at liberty to get the same done at Associate's risks and costs and recover all such expenses plus the TPCODL's own charges (@ 20% of expenses incurred), from the Associate or from the "Security cum Performance Deposit" as the case may be.

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

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

### **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, TPCODL 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 TPCODL, 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, TPCODL has the right to levy LD on the entire contract value, subject to a maximum of 10% of the total contract value.

- b) For 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 TPCODL, 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, TPCODL has the right to levy LD on the entire contract value, subject to a maximum of 10% of the total contract value. Deduction of LD shall be on landed cost i.e contract value inclusive of taxes and in pursuant statutory compliance GST would be applicable at the stipulated rate and the same shall be borne by Business Associate. In case of LD deduction, a GST invoice shall be issued by TPCODL as a proof of deduction/ recovery.

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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 TPCODL's interest failing which appropriate action (legal or otherwise) may be taken against the Associate by the TPCODL, in accordance with the terms of the present GCC.

#### **16.0 CONFIDENTIALITY**

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

##### **16.1 Documents**

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

##### **16.2 Geographical Data**

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

##### **16.3 Associate's Processes**

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



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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 TPCODL.

#### **17.0 INTELLECTUAL PROPERTY RIGHTS**

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

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

#### **18.0 INDEMNITY**

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

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

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

## 19.0 LIABILITY & LIMITATIONS

### 19.1 Liability

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

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

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

### 19.2 Limitation of Liability

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

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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

TPCODL may, at any time and at its sole option, suspend execution of all or any portions of the schedule of items of contract to be supplied/work to 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 TPCODL, of all orders, outsourcing arrangements, and rental Contracts to the extent that they relate to performance of the portion of Work suspended by the notice.
- Protect and maintain the portion of the service/Work already completed, including the portion of the Work suspended hereunder, unless otherwise specifically stated in the notice.
- Continue delivering/carrying out the supply/service/work items as per contract conditions, which do not fall under purview of the suspension notice.

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

### **21.2 Suspension for Breach of Contract conditions.**

TPCODL shall suspend execution of whole/or part thereof the contract till such time Associate complies with the conditions stipulated under section clause 22.1 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 TPCODL and not due to any breach of contract conditions by the associate, TPCODL at its discretion shall consider compensating all reasonable additional costs incurred by Associate in lieu of suspension of whole or part of contract, on representation of the Associate providing justified estimates of such additional costs and such estimates are found acceptable and approved by competent authority of TPCODL.

If the suspension of contract in whole or part thereof is due to breach of contract conditions (refer clause 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 TPCODL in lieu of suspension of contract. Resumption notice shall be subject to the Associate taking corrective action for the breach of contract conditions within the time frame and as per the terms specified in the suspension notice.

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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 TPCODL in case of breach of the contract by the Associate which shall include but not be limited to the following:

- a. Withdrawal or intimation by the Associate of its intent to withdraw or surrender the execution / completion of the contracted work /PO or failure in ensuring adherence to any delivery schedules, in deviation of the contract/PO.
- b. Refusal or neglect on the part of the Associate to supply material/equipment of quantity or quality as specified by TPCODL and within the timeframe as specified in the contract document or refusal or neglect to execute the services/work in terms of the agreed standards of quantity or quality and/or within the timeframe specified in the contract/PO.
- c. Failure in any respect to perform any portion of the Work contracted with promptness, diligence, or in accordance with the terms of the contract.
- d. Failure to furnish guarantees as specified and /or failure to comply with the terms thereof.
- e. Failure to furnish such relevant documents or information within the time specified which may be necessary for due execution / completion of the works and documentation.
- f. Liquidation, bankruptcy either voluntary or involuntary OR entering into any composition or compromise with its creditors, or Insolvency.
- g. In case any reasonable information has been received by TPCODL that Associate has adopted/ or attempted to adopt any unethical conduct, action in award of the contract /PO or at any time thereafter.
- h. Failure to comply with applicable statutory provisions as contained in the contract or failure to comply with the applicable laws.
- i. Failure to comply with safety regulations/clauses stipulated in the contract or as may be generally instructed by TPCODL.

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

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

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

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

- a) Associate shall discontinue the supply, on the expiry of the said period of two weeks.
- b) Associate shall ensure that no further steps are being taken towards discharge of the obligations, terms and conditions as contained in the contract/PO. This shall include initiation of actions not limited to discontinuation of other allied and associated arrangements which the associate might have entered into with third parties for due discharge of its obligations under the contract with TPCODL.
- c) The Associate shall perform thereafter such tasks as may be necessary to preserve and protect the terminated portion of the material/service/work in progress and the materials and equipment at TPCODL sites or in transit thereto. However the associate shall continue to fulfill its contractual obligations with regard to the part of contract not terminated.
- d) It shall be open for TPCODL to conduct a joint assessment with the associate of the material, supplies, equipment, works or in general as to the subject matter of the contract in regard to which the associate claims having completed its obligations before or during such termination.
- e) It shall be open to TPCODL to seek invocation of the performance bank guarantee or any other guarantee or other security deposit by whatever name called submitted by the associate, which shall not be objected to or protested against by the associate.

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

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

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

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

### **22.2 Termination for Convenience of Associate**

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

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

## **23.0 DISPUTE RESOLUTION & ARBITRATION**

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

### **23.1 Governing Laws and Jurisdiction**

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

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

## **26.0 TRANSFER OF TITLES**

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

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

## **27.0 INSURANCE**

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

- a) The value of the policy shall cover the total value of all the items till they are handed over to TPCODL.
- b) TPCODL 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. TPCODL 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 TPCODL 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) TPCODL 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 TPCODL'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 TPCODL 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. TPCODL, 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 TPCODL and without affecting the completion time.

## **28.0 SUGGESTIONS & FEEDBACK**

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

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.tpcentralodisha.com](http://www.tpcentralodisha.com) to provide your feedback.

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

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

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## 29.0 CONTACT POINTS

In case Business Associate needs information with respect to payments or has any grievances, same may be lodged by log on to our website [www.tpcentralodisha.com](http://www.tpcentralodisha.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 Central Odisha Distribution Limited  
Bhubaneswar**

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

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

SEALED with the Common Seal of the said Bank this \_\_\_\_\_ day of \_\_\_\_\_ 20\_\_\_\_\_.

The CONDITIONS of this obligation are:

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

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

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

**DATE** ..... **SIGNATURE OF THE BANK** .....

**WITNESS** ..... **SEAL** .....

(Signature, Name & Address) ( At least 2 witnesses)

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**ANNEXURE- B**

**PROFORMA FOR PERFORMANCE BANK GUARANTEE (CP cum EP)**

**(On Rs.100/- Stamp Paper) Note:**

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

-----

**The TP Central Odisha Distribution Limited  
Bhubaneswar**

**CP cum EP BG No.....**

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

1. You have entered into a Contract No \_\_\_\_\_ with M/s. \_\_\_\_\_ (hereinafter referred to as "the Vendor") for the supply cum erection / civil work of \_\_\_\_\_ (hereinafter referred to as "the said Equipment") for the price and on the terms and conditions contained in the said contract.
2. In accordance with the terms of the said contract, "the Vendor" agreed to furnish you with an irrevocable, unconditional and acceptable bank guarantee for 10% of the value of contract and to be valid till the end of Guarantee period plus one month towards "Contract cum Equipment performance". For this purpose you have agreed to accept the guarantee.
3. In consideration thereof, we, \_\_\_\_\_ hereby irrevocably and unconditionally guarantee to pay to you on demand but in any case before the end of five working days from the date of the claim and without demur and without reference to "the Vendor" such amount or amounts not exceeding the sum of Rs. \_\_\_\_\_ (Rupees \_\_\_\_\_ only) being \_\_\_\_\_% (\_\_\_\_\_ percent) of the total value of the contract on receipt of your intimating that "the Vendor" has not fulfilled his contractual obligations. You shall be the sole judge for such non-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 Bhubaneswar branch and claim will also be payable at Bhubaneswar Branch (to be confirmed by Bhubaneswar Branch by a letter to that effect in case BG is from the branch outside Bhubaneswar).
9. Notwithstanding anything herein contained, our liability under this guarantee is limited to Rs. \_\_\_\_\_ (Rupees \_\_\_\_\_) only and the guarantee will remain in force upto and including \_\_\_\_\_ (Date) and shall be extended from time to time for such period or period as may be desired by "the Vendor".
10. Unless a demand or claim under this guarantee is received by us in writing within one months from \_\_\_\_\_ (expiry date) i.e. on or before \_\_\_\_\_ (claim period end date), we shall be discharged from all liabilities under this guarantee thereafter.

Dated at \_\_\_\_\_ this \_\_\_\_\_ day of \_\_\_\_\_ 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 TPCODL Accounts Department at the time of receipt of full and final payment)

**(Certificate No. CCP/002)**

Name of the Project Order/

Contract No.

Dated

Name of the Associate Scheme

No. / Job No.

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

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

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

**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 Central Odisha Distribution Limited,

Bhubaneswar

**Sub: Application for issuance of Consolidated TDS Certificate for the FY \_\_\_\_\_**

Dear Sir,

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

Signature

Name

Address

Contact No. (Land Line)

(Mobile)

PAN #

Assessing authority

**ATTACH THE COPY OF PAN CARD**



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**ANNEXURE-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 "TPCODL addressed - attached envelop"

**You are associated with us as**

- OEMs    Service Contractor    Material Suppliers    Material & Manpower Supplier

**You are associated with us for**

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

**Your office is located at**

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

**Your nearly turnover with TPCODL**

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

**Additional Information**

<b>Your Name</b>	
<b>Your Designation</b>	
<b>Your Organization</b>	
<b>Contact Nos.</b>	
<b>Email</b>	

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

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### SECTION – A

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

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

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S. No.	Parameters	1	2	3	4	5	Remarks/ Suggestion
		Do Not Agree	Slightly in Agreement	In Fair Agreement	Mostly in Agreement	Fully Agree	
13	Our approach for Inspection and Quality Assurance effective to expedite project completion?						
14	TPCODL never defaults on contractual terms						
15	In TPCODL Contracts closure is done within set time limit						
16	Our material receiving procedures are well defined and efficiently deployed to reduce mutual inconvenience						
17	Bank Guarantees are released in time bound manner						
18	Our processes related to payment / account settlement are effective.						
19	You get payments on time						
20	TPCODL Employees follow Ethical 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 TPCODL employees you interact with from following team?						
1.1	Project Engineering						
1.2	District / Zones						
1.3	Projects/HOG (TS &P)						
1.4	Inspection & Quality Assurance						
1.5	Stores						
1.6	Metering & Billing						
1.7	Accounts / Finance						
1.8	Administration						
1.9	IT & Automation						

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2	How would you rate TPCODL in comparison to your other clients in terms of <b>fairness of treatment and transparency</b> with its Business Associates?						
3	How would you rate TPCODL in comparison to your other clients in terms of <b>processes and systems to manage partnership</b> with its Business Associates						
4	How would you rate TPCODL in comparison to your other clients in terms of <b>building long term &amp; mutually relationship</b> 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 TPCODL, would you like to continue your relationship with TPCODL?					
2	If someone asks you about TPCODL, would you talk “positively” about TPCODL?					
3	Would you refer TPCODL name to others in your community, fraternity and society as a professional & dynamic organization?					

**SECTION - D**

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

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

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

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

Recommendation	<i>Please tick (✓) your top 5 expectations out of the following 10 points listed below -</i>	
(Please list down improvement you expect from TPCODL)	<i>Timely payment</i>	
1	<i>Flexibility in Contracts/PO</i>	
	<i>Clarity in PO,s &amp; 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 &amp; 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, TPCODL intends to use the reverse auctions through SAP-SRM tool as an integral part of the entire tendering process. All the bidders who are found as technically qualified based on the tender requirements shall be eligible to participate in the reverse auction event.

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

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

**Signature & Seal of the Bidder**



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Name of the Authorized Signatory: \_\_\_\_\_ :

Contact Person's Name:

Official Correspondence Address:

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

Thanking you,

For \_\_\_\_\_

**(Authorised Signatory)**

**(Signature with Rubber Stamp)**

**Certification from Bank:**

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

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

**(Manager's/ Officers Signature under Bank Stamp)**



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**ANNEXURE-H**  
**VENDOR APPRAISAL FORM**

<b>TO BE SUBMITTED BY VENDOR (To be filled as applicable)</b>			
<b>VENDOR:</b>			
<b>1.0</b>	<b>DETAILS OF THE FIRM</b>		
	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	:
<b>2.0</b>	<b>PRODUCTS MANUFACTURED</b>		
<b>3.0</b>	<b>TURNOVER DURING THE LAST 3 YEARS (TO BE VERIFIED WITH THE LATEST PROFIT &amp; LOSS STATEMENT).</b>		
<b>4.0</b>	<b>VALUE OF FIXED ASSETS</b>		
<b>5.0</b>	<b>NAME &amp; ADDRESS OF THE BANKERS</b>		
<b>6.0</b>	<b>BANK GUARANTEE LIMIT</b>		
<b>7.0</b>	<b>CREDIT LIMIT</b>		
<b>8.0</b>	<b>TECHNICAL</b>		
	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	:
<b>9.0</b>	<b>MANUFACTURE</b>		
	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	:
<b>10.0</b>	<b>INSPECTION / QC / QA / TESTING</b>		
	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		<b>EXPERIENCE (INCLUDING CONSTRUCTION / ERECTION / COMMISSIONING) TO BE FURNISHED IN THE FORMAT INDICATED IN APPENDIX)</b>	:
12.0		<b>SALES, SERVICE AND SITE ORGANIZATIONAL DETAILS</b>	:
13.0		<b>CERTIFICATE FROM CUSTOMERS (ATTACH COPIES OF DOCUMENTS)</b>	:
14.0		<b>POWER SITUATION</b>	:
15.0		<b>LABOUR SITUATION</b>	:
16.0 *		<b>APPLICABILITY OF SC/ST RELAXATION (Y/N) IF YES, SUPPORTING DOCUMENTS TO BE ATTACHED</b>	
17.0		<b>ORGANIZATIONAL DETAILS</b> 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		<b>DOCUMENTS TO BE ENCLOSED:</b>	

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

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

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

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**ANNEXURE-I**

**MANUFACTURER AUTHORIZATION FORM**

*(To be submitted on OEM's Letter Head)*

Date: .....

Tender Enquiry No.: .....

To,

Chief (Procurement & Stores)

The TP Central Odisha Distribution Limited,  
Bhubaneswar.

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

