



NIT No.: TPCODL/P&S/1000000109/2021-22

Procedure to Participate in Tender

Tender Enquiry No- TPCODL/P&S/1000000109/2021-22

Tender Enquiry No.	Work Description	EMD (Rs.)	Tender Fee (Rs.)	Last Date and Time for payment of Tender Fee
TPCODL/P&S/ 1000000109/20 21-22	Upgradation & Implementation of existing ESRI GIS system to Latest version	6,60,000	5000	21.09.2021

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

Procedure to Participate in Tender.

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

1. Eligible and Interested Bidders to submit duly signed and stamped letter on Bidder's letter head indicating
 - a. Tender Enquiry number
 - b. Name of authorized person
 - c. Contact number
 - d. E-mail id
 - e. Details of submission of Tender Fee
 - f. GST Registration No
2. Non-Refundable Tender Fee, as indicated in table above, to be submitted in the form of Direct Deposit in the following bank account and submit the receipt along with a covering letter clearly indicating the Tender Reference/ Enquiry Number –

Beneficiary Name – TP Central Odisha Distribution Ltd.
Bank Name – STATE BANK OF INDIA
Branch Name – IDCO Towers, Bhubaneswar
Address – PO- Sahidnagar, Janapath, Bhubaneswar.
Branch Code – 7891
Account No – 10835304915
IFSC Code – SBIN0007891

E-mail with necessary attachment of 1 and 2 above to be sent to imran.ahmad@tpcentralodisha.com with copy to sudhakar.behera@tpcentralodisha.com before last date and time for payment of Tender Fee.



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

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

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

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

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

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OPEN TENDER NOTIFICATION

FOR

Upgradation & Implementation of existing ESRI GIS system to Latest version

Tender Enquiry No.: TPCODL/P&S/1000000109/2021-22

Due Date for Bid Submission: 11.10.2021 [15:00 Hrs.]

**TP Central Odisha Distribution Limited
2nd Floor, IDCO Towers, Janpath, Bhubaneswar – 751022**



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1.0 Event Information

1.1. Scope of work

Open Tenders are invited from interested Bidders entering into a firm contract for the following:

S. No.	Description	EMD Amount (Rs.)	Tender Fee (Rs.)
1.	Upgradation & Implementation of existing ESRI GIS system to Latest version	6,60,000	5,000

Note: Tender Fee is inclusive of GST

1.2. Availability of Tender Documents

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

1.3. Calendar of Events

(a)	Date of publishing NIT in Newspaper	10.09.2021
(b)	Date by which Interested and Eligible Bidder to pay Tender Fee and confirm participation as mentioned in "Procedure to Participate in Tender"	21.09.2021
(c)	Last Date of submission of pre-bid queries, if any	24.09.2021
(c)	Date of Pre-Bid Meeting (if any)	27.09.2021
(e)	Last Date of Posting Consolidated replies to all the pre-bid queries as received	30.09.2021
(f)	Last date and time of submission of Bids	11.10.2021; 15:00 Hours
(g)	Date & Time of opening technical bids & EMD (Envelope-1 & 2)	Participating Bidders will get mail intimation from TPCODL E-Tender system (Ariba) when their Technical Bids are opened. Refer Section 4.2 for details
(h)	Date & Time of opening of Price bid of qualified bidders	Bidders will get mail intimation from TPCODL E-tender system (Ariba) when their Price Bids are opened (Refer Section 4.5)

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 of requisite amount
- 1.4.3 Requisite Documents for compliance to Qualification Criteria mentioned in Clause 1.7.



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- 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 Requirement / Eligibility Criteria

S. No.	Qualification Criteria	Documents Required
1.	The bidder must have prior experience in ArcGIS & ArcFM software installation and custom development & integration with mobile application in government / private utility in India with at least one order with value of minimum 10 Cr or two orders with a value of minimum 5 Cr each in last 5 years.	Successful Completion Certificates for all such projects from the concerned utility.



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S. No.	Qualification Criteria	Documents Required
2.	<p>a) The bidder shall be private/public Company registered under Company Act 1956.</p> <p>b) The bidder should be in business of GIS software development and customization or Mapping for the last five (5) years.</p>	<p>Certificate of Incorporation and Registration to be submitted.</p> <p>The bidder should have registration certificates viz. company registration including GST, PAN card, EPF, etc.</p> <p>Copy of any one LOA/LOI/WO, to substantiate that the company has been in business for last 5 years, to be submitted.</p>
3.	<p>a) The bidder must be financially sound company with average annual turnover of INR 15 Crores for last three years.</p> <p>b) The bidder should have positive net worth.</p>	<p>Last three years audited balance sheets and Profit and Loss Accounts Statements.</p> <p>CA Certificate.</p>
4.	<p>The bidder shall have certified/experienced resources on the proposed GIS technology.</p>	<p>CVs of the key full time dedicated resources for the said project. Please note such persons shall be changed only with prior permission of TPCODL by giving one months' notice with equivalent and approved replacement.</p>
5.	<p>The bidder shall be valid ISO 9001, ISO 27001 certified and CMMI Level 3 or above certified Company.</p>	<p>Valid ISO and CMMI Certificates.</p>
6.	<p>The bidder must have executed at least one ArcGIS & ArcFM project in Power distribution utility and its integration with any two of the following modules - ERP, CRM, SCADA/DMS, Network Analysis and MDAS, anywhere in India in last 5 years.</p>	<p>Declaration for completion of one projects of similar technology from the same technology supplier an electric distribution utility.</p>
7.	<p>The bidder should not be under declaration of ineligibility or blacklisted by any Govt. / PSU/ organization in India.</p>	<p>Declaration by the bidder on letter head</p>

Condition for Joint Ventures/ Consortium: Joint Venture/ Consortium of any kind shall not be acceptable.



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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
- Bidders meeting Qualification Requirement as mentioned in 1.7, shall be evaluated technically. The technical evaluation criteria/scoring criteria is outlined in section 13 – Bidder's Technical Qualifying Requirement section in "Scope of Work and Technical Specifications". Bidders meeting minimum Technical Score shall be considered for further evaluation.
- The bids will be evaluated commercially on the overall all-inclusive lowest cost for complete tender BoQ 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.
- Bidders have to provide breakup of the prices as quoted by them against line items as mentioned in schedule of items. In case, it is observed that the bidders have under quoted the prices against these line items in view of applicable minimum wages, manpower deployment etc. and TPCODL reserves the right to out rightly-reject the bids.
- 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.

3.0 Submission of Bid Documents

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3.1 Bid Submission

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

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

For Tender Fee and EMD submitted via online transfer, bidder to ensure that the same are carried out through separate transactions.

The EMD in the form of Bank Draft / BG /Bankers Pay Order shall be delivered at the following address in sealed envelope clearly indicating the tender reference / enquiry number, name of tender and bidder name:

Chief (Procurement & Stores)

TP Central Odisha Distribution Limited
2nd Floor, IDCO Towers, Janpath, 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)
- h) Project Implementation Plan including Level 2 Schedule for the project
- i) Unpriced mentioning “Quoted/Not Quoted” against all line items (Prices should not be mentioned)

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



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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.

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.

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.

3.2 Contact Information

Please note all correspondence regarding the tender, bid submission, bid submission date extension, Pre-bid query etc will happen through TPCODL E-Tender system (Ariba).

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

Communication Details:

Package Owner

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

Escalation Matrix

Name: Mr. Sudhakar Behera, GM
Designation: General Manager - Procurement (Commercial Services):
Contact No.: 9437282663
E-Mail ID: sudhakar.behera@tpcentralodisha.com



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Name: Mr. Pravin Kumar Jain
Designation: Chief (Procurement & Stores)
E-Mail ID: pravin.jain@tpcentralodisha.com

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

3.3 Bid Prices

Bidders shall quote for the entire Scope of Supply/ work with a break up of prices for individual items and Taxes & duties. The bidder shall complete the appropriate Price Schedules included herein, stating the Unit 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.

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.



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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.

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 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



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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 4.3 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)
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, TPCODL shall place a firm purchase order on the successful bidder.
- Business Associate (BA) shall submit applicable Performance Bank Guarantee as per GCC within 15 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/Warranty applicable shall be as per technical specifications.
- Completion Schedule / Delivery period shall be as per timelines defined in Technical Specifications.
- Liquidated Damages: For delay of each week and part thereof from the delivery/completion schedule specified above, 0.5% of the total contract value per week shall be deducted in the form of LD subject to a maximum of 10% of the total contract value.
- TPCODL shall short close the issued Order, in case of any quality issues.
- 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 for composite orders shall be applicable.

7.2 Drawing Submission and Approval

Refer Annexure II.

7.3 Delivery Timelines

Sr. No.	Activity	Expected Completion time period
1	SRS and data Modelling Documentation preparation and Submission to TPCODL	1 st to 2 nd month
2	Hardware, Software Installation, Configuration and Readiness of GIS development environment at utilities premise	1 st to 2 nd month
3	Cut off Data Migration	2 nd to 3 rd month
4	Migration of Custom Applications and Training to core team.	4 th to 5 th month
5	Reconfigure / Integration with SAP ISU, ERP, Energy Audit, CRM, NA, MDAS	4 th to 5 th month
6	Integration with SCADA	4 th to 5 th month
7	Out of Box Mobile Application Configuration	4 th to 5 th month
8	User Acceptance Testing (UAT) or System Acceptance Testing & Deployment (Production Rollout and declare GO Live)	5 th to 6 th month
9	Documentations/user manual	5 th to 6 th month
10	Performance Testing & Web Security Testing	5 th to 6 th month
11	Training	5 th to 6 th month
12	Warranty/Post implementation support after production rollout (1 year after Go-live and successful handover)	7 th to 18 th month
13	Annual Maintenance Contract – 4 years after the end of warranty period.	19 th Month to 66 th Month

7.4 Warranty Period

Refer Annexure II

7.5 Payment Terms

Payment shall be made within 45 days of the date of submission of certified bills/ invoices with complete details and fulfilment of statutory compliances and other requirements, if any and duly certified by user department as per below details:

S. No	Milestone	Payment Schedule
1	SRS and data Modelling Documentation preparation and Submission to TPCODL	10% of PO Value
2	Hardware, Software Installation, Configuration and Readiness of GIS development environment at utilities premise	10% of PO Value
3	Cut off Data Migration	10% of PO Value
4	Migration of Custom Applications and Training to core team.	10% of PO Value
5	Reconfigure / Integration with SAP ISU, ERP, Energy Audit ,CRM, NA, MDAS	10% of PO Value
6	Integration with SCADA	5% of PO Value
7	Out of Box Mobile Application Configuration	5% of PO Value
8	User Acceptance Testing (UAT) or System Acceptance Testing & Deployment (Production Rollout and declare GO Live)	10% of PO Value
9	Documentations/user manual, Performance Testing, Web Security Testing and Training	10% of PO Value
10	Warranty/Post implementation support after production rollout (1 year after Go-live and successful handover)	20% of PO Value
11	Annual Maintenance Contract – 4 years after the end of warranty period.	25% of annual PO Value for Service Portion on quarterly basis in arrears as per SLA compliance

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 IDs:

- 1) Chief (Procurement & Stores)- pravin.jain@tpcentralodisha.com.
- 2) Chief Ethics Counselor – rajeev.kharyal@tpcentralodisha.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.

ANNEXURE I

Schedule for Items

S. No	Description	Unit	Unit Price (Rs.)	GST (Rs.)	All Inclusive Unit Price (Rs)	Total All Inclusive Value (Rs)
1	Supply of Hardware for Implementation of GIS with 5 years warranty.	8				
2	Supply of Microsoft SQL Server 2019 (64-bit) with 5 year supports	2				
3	Hardware and software deployment, new licenses installation and its configuration, migration of existing custom applications to new environment, integration with other modules and deployment of EGIS Solution in PAN TPCODL with 1 year warranty	1				
4	AMC of deployed solution for 1st year after completion of warranty period of 1 year.	1				
5	AMC of deployed solution for 2nd year.	1				
6	AMC of deployed solution for 3rd year	1				
7	AMC of deployed solution for 4 th year	1				
8	AMC of deployed solution for 5 th year (Optional)	1				
9	AMC of deployed solution for 6 th year (Optional)	1				

Signature & Seal of the Bidder

NOTE:

- Evaluation of Quote will be for all items from 1 to 7. However, award of AMC of deployed solution for 5th and 6th year (item no. 8 and 9) will be decided by the purchaser.
- Optimum hardware sizing should be done by the bidder taking into consideration the details as mentioned in technical specification and use schedule to enter the details in the BOQ for hardware



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& other items. The analysis to arrive at hardware sizing and detailed hardware specification of equipment be shared with TPCODL. It should be noted that, if during commissioning it is identified that any additional hardware / software is required for running the system, it would be on bidders cost only. (Hardware of Dell, IBM, HP or CISCO only should be considered for designing of system). Vendor has to provide desired performance with supplied hardware.

- Bidder to mandatorily provide detailed BOQ (in the form of annexure) as per the finalized architecture that is being proposed to be deployed.
- The unit price to be indicated in col. No. 4 should be exclusive of taxes & duties which are to be indicated in separate columns meant for the purpose.
- The prices shall be FOR TPCODL Locations.
- Prices shall be firm till the validity of contract.
- The bids will be evaluated commercially on the overall lowest cost basis.
- The unit price with GST in column no. 6, is landed price for TPCODL.
- The bidders are advised to quote prices strictly in the above format. Failing to do so, bids are liable for rejection.
- The bidder must fill each and every column of the above format. Mentioning “extra/inclusive” in any of the column may lead for rejection of the price bid.
- No cutting/ overwriting in the prices is permissible.
- The bidders shall quote against each of the line items as indicated above. The quantity as mentioned above neither implies nor guarantees any minimum deployment thereunder. The above quantity is indicative only based on TPCODL estimates and it is not binding on us for fulfillment. Actual quantities may vary as per TPCODL’s requirements.



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ANNEXURE II
Technical Specifications

Attached

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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:

ANNEXURE IV

Schedule of Commercial Specifications

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

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

Seal of the Bidder:

Signature:

Name:

ANNEXURE V

Checklist of all the documents to be submitted with the Bid

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

S. No.	Documents attached	Yes / No / Not Applicable
1	EMD of required value	
2	Tender Fee as mentioned in this 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 and Service Level Agreement

Attached

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ANNEXURE VIII
GENERAL CONDITIONS OF CONTRACT

Attached: General Conditions of Contract for Composite Orders

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ANNEXURE IX

SAFETY POLICY AND SAFETY TERMS AND CONDITIONS

1. Objective

The Tata Power engages contractor workforce to execute, run and maintain various operating sites and facilities across locations for various business verticals including Generation, Transmission, Distribution and Renewable. The activities range from project execution, operation, maintenance to facilities management.

The management of contractor safety represents a significant challenge for management. Tata Power has a responsibility to ensure that contractors are provided with enough information and support to enable them to conduct their roles safely and without endangering health and safety of their own workforce or that of our staff.

To ensure reduction in reportable injuries and achieve goal of zero accidents, first edition of contractor safety code of conduct was launched successfully in the year 2014. Since last four years after the launch of CSCC, Tata Power could achieve the objective of reduction in reportable injuries and fatalities.

Over the period, as the system was being matured, a need was felt to make second revision of the CSCC process. Objective of second revision is improve existing CSCC system and make it user friendly.

2. **Scope:** This procedure applies to all operating and project sites of The Tata Power Company Ltd and Group companies including new businesses like EV charging, Home Automation etc.

3. Definitions

- 3.1. **Order Manager:** Order Manager is the Tata Power representative, who has the ownership of the given job.
- 3.2. **Site Safety Management Plan:** It is the safety plan agreed between Contractor and Tata Power. It will contain the entire job specific safety requirement and will be signed by the contractor.
- 3.3. **Contractor:** An individual or a company that provides services to Tata Power under a signed contract.
- 3.4. **Emergency:** a serious, unexpected or dangerous situation requiring immediate action, which may result in loss of revenue/property, business discontinuity. In case of Emergency*, services may be procured by selecting the qualified vendor based on the vendor category without the safety bid evaluation. It must be approved by MB level and above.
- 3.5. **Expert Service jobs:** Jobs which needs expert services of contractor which does not involve direct exposure to the potential risk or work which involves only supervisory work such as expert for turbine overhaul, expert for boiler overhaul, expert for pump and motor, expert for compressor overhaul.

- 3.6. Head of the Division:** Business in charge of the division who is overall custodian of the generating station or transmission division or distribution division.
- 3.7. Category A Vendor:** Vendor eligible to carry out Very High & High risk (as per Tata Power Hazard Identification and Risk Analysis Procedure) and /or Long-Term Contract related to operation and maintenance (O&M) of plant. Vendors must fulfil the requirement specified for Category A in Appendix 12-CSMF-5 of this document.
- 3.8. Category B Vendor:** Vendors eligible to carry out technical jobs, that are classified under Medium /low risk. Vendors must fulfil the requirement specified for Category B in Appendix 12-CSMF-5 of this document.
- 3.9. Category C Vendor:** Vendors eligible for to carry out low or very low risk administrative and office jobs. For this he must fulfil the requirement specified for Category C in Appendix 12-CSMF-5 of this document.
- 3.10. Category D Vendor:** All Consultants, Medical Practitioners or vendors taking job from Tata Power and working from their own premises (e.g. motor rewinding at vendor's shop floor, equipment sent for repair to vendor's works etc.) are classified as Category D Vendor
- 3.11. High Risk Jobs:** A Job or its activities are considered as Very High or High Risk when Order manager apply the "Tata Power Hazard Identification and Risk Analysis" procedure and found safety risk associated with are under Very High or High category. Indicative lists of jobs are given in appendix 15 of this document.
- 3.12. Medium Risk Jobs:** Jobs or its activities are considered as medium risk when Order manager apply "Tata Power Hazard Identification and Risk Analysis" procedure and found the same as Medium Risk.
- 3.13. Low Risk Jobs:** Any job or its activities are considered as Low or Very low risk while Order manager, calculate it by applying "Tata Power Hazard Identification and Risk Analysis" procedure and found it under Low or Very Low category.
- 3.14. Long Duration Jobs:** When the duration of job is 12 months or more, it is considered as Long duration job
- 3.15. High Value Jobs:** When the value of the job contract is Rs. One Crore or more it will be considered as High value job.

4. Responsibilities

4.1 Order Manager: Order Manager is the Tata Power representative, who is responsible for:

- 4.1.1 Finalizing the Site Safety Management Plan along with Contractor, Safety Concurrences Group, Divisional Safety Head and Expert (External or Internal) if required.
- 4.1.2 Supervise and ensure work is carried out as per the Site Safety Management Plan including agreed Risk Assessment (HIRA/JSA) and Method Statement.
- 4.1.3 Conduct audit and evaluate Safety Performance of contractor.
- 4.1.4 Ensure contractors adhere to all statutory provisions.
- 4.1.5 In case any deviation is needed in agreed safety management plan or in CSCC process for execution of job, Management of Change procedure will be applicable, and approval may be obtained from divisional head /Cluster head.

4.2 Contractor: The person, entity or organisation who is executing the job for Tata Power under a contractual agreement and will be responsible for the following

- 4.2.1 To follow all Tata Power Critical Safety Procedure, Rules and guidelines given in Safety Terms and Conditions
- 4.2.2 Undertake job as per [Site Safety Management Plan CSM-F10](#) and method statements agreed with Tata Power.
- 4.2.3 Raise any concerns with regard to their work and its safety with the Tata Power Order Manager.
- 4.2.4 Report all injuries, near misses, unsafe acts/conditions, and occurrences to the Tata Power Order Manager immediately.
- 4.2.5 Ensure that all sub-contractors follow the Tata Power Safety Procedure and agreed [Site Safety Management Plan CSM-F10](#).
- 4.2.6 To follow all statutory requirements as per the laws of the land.
- 4.2.7 All vendors applying for A category jobs or submitting quote for high risk jobs shall obtain certificates of ISO 9001, ISO14001 and ISO45001 before submitting quote for high risk Jobs.

4.3 Safety Concurrence Group: It is Cross Functional Team constituted by Corporate Safety Team, which will have representatives from Execution department, Divisional safety and Corporate / Divisional contracts. SCG will be responsible for the following

- 4.3.1 Assessment of Safety Potential of new vendor before registration as per [CSM-F1-Safety Category Qualification Form](#).
- 4.3.2 Safety Evaluation of the bids as per evaluation format [CSM-F-9 Safety Bid Evaluation Criteria](#)
- 4.3.3 Finalization of the Site Safety Management Plan CSM-F-10 submitted by the contractor.
- 4.3.4 Corporate Safety Team / Cluster Safety Head will be part of SCG during Safety Bid Evaluation for following types of jobs
 - 4.3.4.1 High-Risk jobs to be carried out in Annual Overhaul / Major Shutdowns and Outages.
 - 4.3.4.2 Capex jobs of High-Risk Category



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5.1 Vendor Registration

For Vendor Registration, Corporate Contract will issue following documents for evaluation of contractor's safety capability

- 1) [CSM-F1 –Safety Category Qualification Form](#)
- 2) [Safety Terms and Conditions](#)

The document [Safety Terms and Conditions](#) provides the information about Tata Power safety System to the contractor. Contractor will submit the [CSM-F1- Safety Category Qualification Form](#) with all relevant details and documents to Vendor Registration Initiator, which will in turn forward it to Safety Concurrence Group (SCG) for evaluation. The SCG will evaluate the details submitted by the contractor based on a predetermined criteria [CSM-F-5 Safety Potential Evaluation Criteria](#) for Vendor Registration and will determine the category (Category A/B/C/D) for which the contractor will be registered. As mentioned in the above criteria, a site visit may also be organized by SCG prior to registration under Category A and B. In case, the contractor does not qualify the safety criteria, the contractor will not be registered. However, he may apply afresh for registration after 6 months. Please refer [Appendix 1: Process Flow Chart for Vendor Registration](#).

5.2 Bid evaluation

At the time of placing the Purchase Requisition (PR), Order Manager is required to declare the risk involved in the of the job (i.e. High Risk / Medium Risk / Low Risk jobs, based on the RPN in HIRA. If the Job is “High Risk” or “Long Duration”, then RFQ will be attached with following documents:

- 1) [CSM-F7- Blank Safety Competency Form](#)
- 2) [CSM-F8 PPE requirements](#)
- 3) [Safety Terms and Conditions](#)
- 4) [Job Specific Safety Requirement \(Educational and Professional Qualification, Skill & Experience Manpower, Tools and Tackles \(e.g. man lifter, use of drone, use & availability of rescue kit\), Work Methodology etc.\)](#)

Otherwise the RFQ will be attached only with [Safety Terms and Conditions](#). Long term and low value jobs (see definition) are exempted from the CSCC process.

Corporate Contracts will collect duly filled [CSM-F7 Safety Competency Form](#) along with the bid. All other stakeholders will also put their efforts to get all relevant safety data during meeting / discussions with the vendor. SCG will evaluate the document as per the [CSM-F9 Safety bid evaluation criteria](#). If any specific condition related to Contract is required to convey to contractor, Site safety team will attach the same as Annexure for specific conditions of job and submit it to contract team along with safety bid evaluation form. Commercial bid of contractor will be considered for evaluation by contract team only if contractor is qualified in safety bid. Site Safety Management Plan, defining the complete procedure of executing the job at site will be signed by the contractor and SCG after mutual agreement. CC will attach a copy of site safety Management Plan and any specific condition of contract along with PO to the successful bidder. Please refer [Appendix 6: Process Flow Chart for issuing RFQ and PO significant health and safety risk associated with it](#).



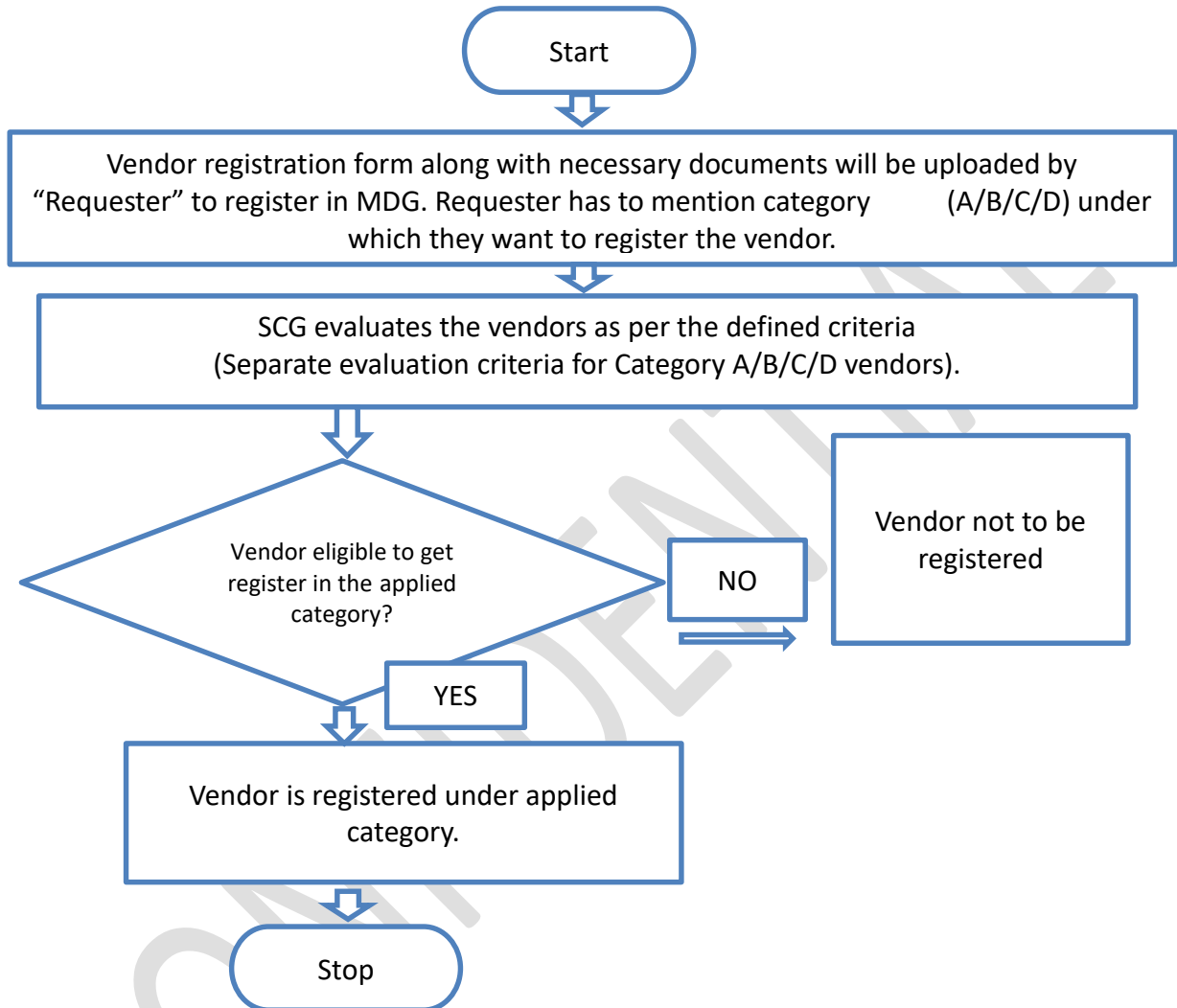
NIT No.: TPCODL/P&S/1000000109/2021-22

5.3 Safety Performance Evaluation

During the time of job execution, regular site inspection will be carried out by the Tata Power officials and violations will be dealt as per [CSM-F4 Safety Violation Penalty Criteria](#). Apart from this, monthly safety performance of the contractor will be evaluated based on the predetermined criteria as per [CSM-F11 safety Performance Score](#) and monthly score will be maintained by the Order Manager. Certain percentage of each running bill will be retained as Safety Retention amount and will be released on the basis of Safety Performance Score at certain intervals as defined in [CSM- F-3- Safety Performance Evaluation Criteria](#). Please refer [Appendix 10: Process Flow Chart for Safety Performance Evaluation](#). Percentage of retention amount is mentioned in safety terms and conditions.

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Appendix 1: Process Flow Chart for Vendor Registration



Appendix 2: CSM-F-1 Safety Category Qualification form

1. "Safety Category Qualification Form" is part of vendor registration form. It needs to be filled by the contractor at the time of Registration and should be submitted to Requester / order manager with all relevant documents.
2. The same will be evaluated by Safety Concurrence Group of the Division (SCG) as per the criteria given in CSM-F-5.
3. Information provided by contractor will be verified during site visit.

Safety Category Qualification Form

Please consider my application for

Category A Vendor: Vendor eligible to carry out Very High- and High-risk O&M jobs

Category B Vendor: Vendors eligible to carry out technical jobs, classified as Medium / low risk

Category C Vendor: Vendors eligible for to carry out low or very low risk administrative and office jobs

Category D vendor: All Consultants, Medical Practitioners or vendors taking job from Tata Power and working from their own premises.

Name of the Vendor:						
Sr. No	Safety Information	Remarks	Attachment			
1	Certified for i. OHSAS 18001/ ISO 45001, ii. ISO: 14001 iii. ISO: 9001 (ISO certificates to be issued from reputed accreditation agencies specified by Tata Power)	i. Y/ N ii. Y/ N iii. Y/ N	Attach copy of the certification			
2	Safety Statistics for Last Three (3) Years - LTIFR - LTISR	Yes/No		Year 1 (Last FY)	Year 2	Year 3
			LTIFR			
			LTISR			
3	Do you have Safety Policy?	Yes/No	Attach copy of the safety policy.			
4	Do you have Safety training process?	Yes/No	Attach safety training process.			
5	Do you have Safety organization structure e.g. Safety Officers and Safety Committees?	Yes/No	Attach copy of the safety organization structure.			
6	Name and address of sites where work is in progress or worked earlier	Yes/No	Site details to be attached for inspection by Officials.			

Signature :

Name and Designation :

Stamp of Organization :

Appendix 3: Safety Terms and Conditions

Please refer the attached document [Safety Terms and Conditions](#).

Appendix 4: CSM- F-3- Safety Performance Evaluation Criteria

1. 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 or every six-month based on Safety Performance Score of contractors. The retention amount will be calculated based on contract value as below.

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

2. The evaluation criteria include Lead Indicators such as CFSA (Contractor Field safety Audit) score, percentage of workers trained in TPSDI, inspection of critical equipment. Lag indicators such as Fatalities, LWDC and man days lost.
3. The retention amount saved will go to a separate Safety Improvement Fund.
4. 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.
5. Long term jobs with low value (Less than Rs. 1 Cr.) are exempted from the safety retention. Invoice of these type of jobs can be cleared without safety retention.
6. 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.
7. In case of fatality, limb loss or loss of property, vendor must 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.
8. 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.
9. 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 100%.
10. 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 and apply the Consequence management policy as applicable.
11. Order Manager, divisional chief and SBU head have the authority to terminate the contract in case of three consecutive serious violations.

Safety Performance Evaluation report- CSM-F-3

	<u>Lead Indicators</u>	Unit Of measurement	Target	weight age
1	% of Employee certified in TPSDI/Authorized agency	%	50%	10
2	CFSA score (Annexure 6.1)	Average Severity of Violations	1.49	20
3	Monthly inspection completed by contractor for Critical Equipment, lifting Tools & Tackles and hand tools used at site as per Tata Power Checklist	%	80	5
4	Revalidation of Condition of tools, tackles and equipment by Order Manger.	%	100	15
	<u>Lag Indicators</u>			
1	Number of Fatalities	No.	0	30
2	Number of Lost workday case (LWDC)	No.	0	10
3	Man-days Lost	No.	0	10

Appendix 5: CSM- F-4 Safety Violation Penalty Criteria

Penalty shall be imposed on the contractors under the following circumstances for breaching the contractual agreements:

S No	Description of violation	Severit	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 Earthling 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 IC engine based Three-wheeler at the work site.	5	5000/
16.	Starting the job without Toolbox 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 equipment.	5	5000/
21.	Using damaged slings.	5	5000/
22.	Unstable scaffolding/nonstandard 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 lifeline not used for working at height	5	5000/
27.	No rubber mat in Electrical Distribution (DB) room	4	2000/-
28.	Water found accumulated in Electrical Distribution 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 Distribution Room / welding areas.	4	2000/
32.	Loose material falling into excavated pit	4	2000/
33.	Water logging into excavated pit /trenches	4	2000/
34.	No / inadequate Barricade	4	2000/
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 have 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 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	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 passenger cars.	3	500/
56.	Heavy 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 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/
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.	Hand 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	5/ 00/
70.	Scotch block/wedge not provided, 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 Workplace	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.	Nonfunctional Head light/ taillight 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/-
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		

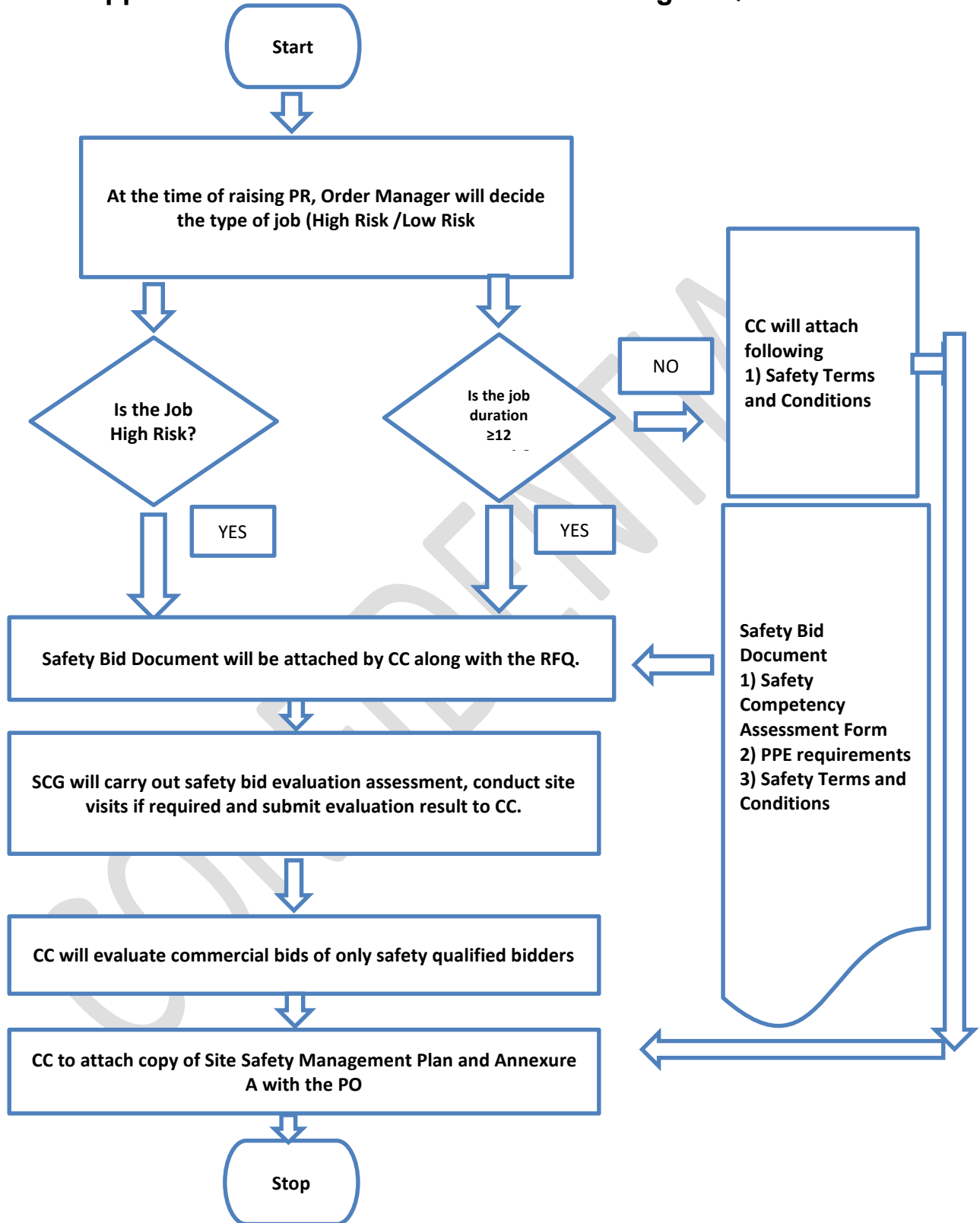


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100.	<ul style="list-style-type: none">• First Time	3	Warning
101.	<ul style="list-style-type: none">• Second Time	4	1000/-
102.	<ul style="list-style-type: none">• Third Time	5	5000/-
103.	Serious Violation of House Keeping (after 1st or 2nd warning to be decided by Project Manager depending on the severity)	5	Rs.10000/- and above
104.	Repeat Violation of same nature	5	5 X Penalty for Violation
105.	Appointment of subcontractor without his Safety Bid Evaluation and/or without the permission of engineer in charge or Order manager.	5	5% of Contract Value

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Appendix 6: Process Flow Chart for issuing RFQ and PO





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Appendix 7: CSM-F-7 Safety Competency Form (Template)

Name of the Vendor/Bidder : -

Name of the Sub Vendor (If job is given to Sub Vendor) : -

Description of the Job : -

Request for Quotation (RFQ) No. :-

Vendor/Bidder to mandatorily provide the below safety competency related information.

1. Proposed Manpower Deployment Schedule: -

Category of Manpower Deployed	Minimum Qualification & Experience	Proposed Numbers against each category month-wise			
		Month 1	Month 2	...	Month n
Project Manager					
Site-In-Charge (Site Manager)					
Shift-in-Charge					
Safety Officers					
Supervisors					
Technicians					
a.....					
b.....					
Highly Skilled Workmen					
a.....					
b.....					
Skilled Workmen					
Semi-Skilled Workmen					
Unskilled Workmen					
Total Manpower					

Instructions to Bidder to fill:

1. Bidder to provide the overall site manpower deployment schedule as above.
2. Bidder to indicate (through colour code mentioned below) their direct and sub-contracted employees

Direct bidder employee

Partly Direct / Partly sub-contracted

Sub-Contracted

3. Against each of the category, bidder to indicate the minimum qualification and experience of the proposed manpower.
4. Rows can be added to also identify other specialised manpower e.g. specific details to be included for high risk activities operators
5. Columns can be extended to the actual duration of Site activities.
6. Bidder to note that if operations is in shifts, then Shift-in-charge / safety officers are required for each shift of operation.

2. List of Tools, Tackles, Machines and Equipment: -

Bidder/ Vendor to provide the list of tools, tackles, equipment **to be used during the job / project execution**. Bidder/Vendor to ensure that all the lifting tools and tackles, pressure

vessels are duly certified by the competent person authorised by the Chief Inspector of Factories of the respective state prior to start of the job

Sr. No.	Description of Tools / Tackles	Capacity / Rating	Quantity	Make	Remarks
1					
2					
3					
4					
5					
6					
7					
...					

3. Safety Records:

Bidder to provide the details of fatalities and lost workday cases (LWDC), occurred in last three years (data to be provided for the last completed FY and preceding 2 years).

Description	Safety Data for Last 3 Years		
	Year 1 (Last FY)	Year 2	Year 3
	20__ - __	20__ - __	20__ - __
Fatalities (Nos.)			
Lost Workday Cases (Nos.)			

In case of no fatalities, LWDC during any year, the form may be filled stating NIL against the respective year. Bidders are encouraged to also submit the RCA / incident investigation reports and the learning's implemented out of the above reported incidents

4. Job Safety Plan/ Method Statement:

Bidder to provide / enclose a detailed Site/Job Safety Plan along with a Method statement detailing the execution philosophy (how the bidder intends to execute the Job/Project), identifying all key activities which are required to be performed by the contractor at Site. Bidder to also list down all high-risk activities and provide the Hazard Identification and Risk Assessment (HIRA) for all such high-risk activities involved in the site work.

(Use Method Statement template attached as annexure A and sample as attachment B)

5. Management System Certification: -

Sr.	Certification	Yes / No	If Yes, Year of Certification	If No, Next date for Certification
	ISO 9001			
	ISO 14001			
	OSHAS 18001 / ISO 45001			
	Any other (please specify.....)			

Note: Please attach certificates to support above. In case not accredited for above but applied for, application letters may be attached.

Appendix 8: CSM-F-8 PPE requirements

The Contractor shall ensure that the following PPE of Approved standards shall be available at all time and shall be used by his employees with no exception whatsoever.

1	All contractor's employees at site	Safety Florescent Jacket (orange color), Safety helmet & safety shoes with Composite or steel toe cap
2	Workers mixing asphalt, cement, lime / concrete	Safety goggle & protective Hand gloves and footwear, Nose mask.
3	Welders / Grinders	Welding screen/goggles, safety shoes, leather hand gloves, aprons, leg guard
4	Stone breaker	Protective goggle, hearing protection, anti-vibration hand gloves and Protective clothing.
5	Electricians	Rubber hand gloves & Electrical resistant shoes.
6	Workers engaged in insulation using glass wool etc.	Respiratory mask & leather Hand gloves, goggles.
	Workers engaged in coal handling plant, ash handling plant and working in high dust area.	Dust mask, Hand gloves, protective goggles.
7	Workers working at a height of 1.8 Meter or above.	Double lanyard full body harness, fall arrestor and safety net made of reinforced nylon fiber ropes firmly supported with steel structures

- PPE shall be conforming to BIS/DGMS/DIN specifications, in good condition and shall be comfortable to his employees, when used.



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Appendix 9: CSM- F-10 Site Safety Management Plan / Method Statement

Site Safety Plan / Method Statement (Template)

This Method Statement describes the specific safe working methods which will be used to carry out the described work. It gives details of work procedure with control measures to counter health and safety issues related to this work. The listed content of this Method Statement can be changed/modified subjected to job scope / specifications, but task specific method statement once finalized & approved, that should not be modified during work execution without permission from the approving authority.

Project/Job Name		
Scope of work: -		
Drawing References: -		
Detail of Sub contractors involved: -		
Method Statement Prepared By: - Designation: - (e.g. Site Manager)	<u>Signature</u>	<u>Date</u>

1.0 Introduction (*Describe purpose of the work, give details of type and scope of work being carried out*);

--

2.0 Location of Work (*Give site address and precise location on site where work is to be carried out.*)

--

3.0 Safety Document /Specific Approval Required (*Details of any safety documents or specific approval i.e. Client specific approval required to undertake the work*)

5.0 Role & Responsibilities of Personnel/Parties Involved in activities: -Clearly define role and responsibilities of all personnel involved in activity i.e. Site management staff including subcontractors' parties- Main contractor Project/Site Manager, Sub Contractor Site Manager, Project Engineer, Safety officer, Competent Supervisory Staff)

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6.0 Working/Activity Description: - *It is important that all operatives should have clear idea of those operational sequences and responsible supervisor must verify their competency prior to their engagement in operation.*

6.1 Pre-Working Checks

6.2 Resources (Equipment, tools including manpower) Details *i.e. Equipment and Tools, specific operational equipment, test kits, lifting resources, Details of materials to be used in operation, including any reference to COSHH assessments in case of use of any chemicals, Details of the manpower allocated to the task, e.g. titles, qualifications, competences, direct manpower, contractors. Details of plant, tools and equipment to be used for the work, including the availability of relevant statutory documents, checks or inspections etc. Details of fencing, barriers, cones, chains, dangers notices, warning signs etc.*

Tools required for work:

Sr.No	Tools /Equipment /Machine	UOM	Required Qty.	Remark
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				

6.4 Operational Sequence of work: - *Full description of the work, setting out the methodology in a sequential manner, including any reference to any identified operational restraints. Also refer here sec. 5.0 responsibilities part for every step of work sequence).*

Sr.No	Activity	Details of job sequence	Risk Involved	Control Checks








1.				
2.				
3				
4				
5.				

6.7 Final Checks & restoration of work area after completion of work :- *Those checks to be carried out by responsible supervisor in witness of his line hierarchy by use of specific checklist of certain operational checks and once those completed satisfactory, PTW (if applicable) to be closed and isolation arrangements to be restored by removing barricades/cautionary tags.*

7.0 Task Specific Hazards: - *Refer to Task Specific Risk Assessment and attach in appendix*

Attachment: - Specific Risk Assessment

In addition, please provide below control measures in risk assessment *(as applicable)*.

Fall Protection Measures: (Where Work at height cannot be avoided)							
Control Measures for Electrical Hazards							
Others Hazard if any (please provide details)							
Hazardous Substances to be used in job : (Attach MSDS if required)	 Acute Toxic	 Health Hazard	 Corrosive	 Dangerous For the environment	 Oxidising	 Highly flammable	 Explosives
	Yes /No	Yes /No	Yes /No	Yes /No	Yes /No	Yes /No	Yes /No


7.0 Emergency Provisions: -*Relevant operational possibility of a programme in the case of emergency situation i.e. electrical supply restoration. In addition emergency response provisions i.e. first aiders, fire fighting, and first aid arrangements, nearest onsite/offsite emergency response also to be considered during emergency planning.*

8.0 "5S issues" / Waste Disposal/ Housekeeping and Environmental issues: -*Details waste disposal processes and or housekeeping activities, Details of environmental impacts and control measures.*

9.0 Personal Protective Equipment (PPE):- (*Tick on PPE requirements for the task/Job*)

Required Personnel Protective Equipment:							Other: 1. Hi-Viz 2. Coveralls 3.
	Safety Boots	Hard Hats	Safety Gloves	Hearing Protection	Eye Protection	Respiratory Protection	

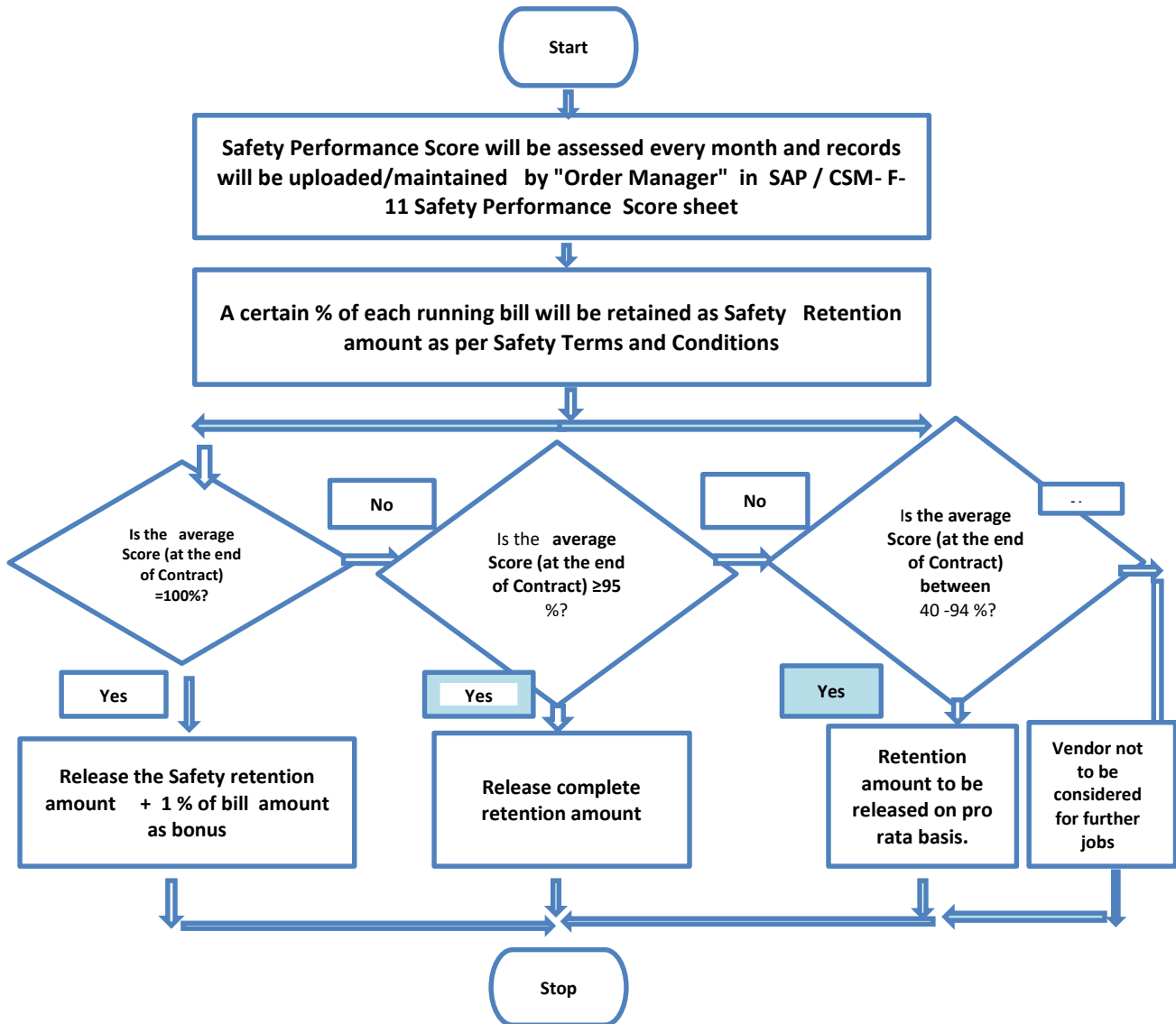
10.0 First Aid facilities and Nearby Hospitals Details

	Name of On-Site First Aider:	
	First Aid Box Location:	
	Location of Nearest Hospital:	

11.0 Occupational Health, Fitness and COVID-19 related Preparedness:

1. Please give a brief writeup / methodology of your organization planned to avoid impact of the COVID-19 pandemic at Tata Power working site.
2. Please give brief details of occupational health and hygiene related interventions planned by your organisation to ensure good health and fitness of workforce at Tata Power site.

Appendix 10: Process Flow Chart for Safety Performance Evaluation



Appendix 11: CSM- F-11 Safety Performance Score

S. No	Parameter	Unit of Measurement	Target	Weight age	Actual Performance	Actual Score
Lead Indicator						
1	% of Employee certified in TPSDI/Authorized agency	Number	50%	10		
2	CFSA score (Annexure 6.1)	Average Severity of Violations	1.49	20		
3	Monthly inspection completed for Critical Equipment, lifting Tools & Tackles and hand tools used at site	Number	80%	10		
4	Condition of critical tools, tackles and equipment	Number	100%	10		
Lag Indicator						
1	Number of Fatalities	No	0	30		
2	Number of Lost workday case (LWDC) (reportable)	No	0	10		
3	Man-days Lost	Man-days	0	10		
					Final Score	
					Invoice Value	
					Amount to be released	



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Safety Performance Evaluation Criteria

Lead Indicators

	Target			
% of Employee certified in TPSDI/Authorized agency	50%	100%	Less than 100%	
Score		10	5	
	Target			
CFSA score	<=1.49	1.5 to 2.5	2.51 to 3.5	>=3.51
Score	20	15	10	0
	Target			
Monthly inspection completed for Critical Equipment, lifting Tools & Tackles and hand tools used at site	>=80%	79 to 50%	<50%	
Score	10	7	0	
	Target			
Condition of critical tools, tackles and equipment	100%	<100%		
Score	10	0		

Lag Indicators

Number of Fatalities	0	>0	
Score	30		0
Number of LWDC (reportable)	0	>0	
Score	10		0
Number of man days lost	0	1 to 5	>5
Score	10	5	0

Appendix 12: CSM-F-5 Safety Potential Evaluation Criteria for Vendor Registration

At the time of vendor registration, vendor will be registered under 3 categories

- 1) **Category A-** Vendors eligible to carry out High risk Jobs
- 2) **Category B-** Vendors eligible to carry out technical jobs that are low risk
- 3) **Category C-** Vendors eligible to carry out administrative and office jobs
- 4) **Category D-** Outsourced Jobs / Consultants /Medical Practitioners / Suppliers etc

For vendors to be registered under **Category A**, a safety potential evaluation will be carried out based on following parameters.

Sr. No	Description	Weight	Actual	Remarks
		age (%)	Score	
1	Does the contractor have a valid ISO 45001/ OHSAS 18001/ Certification?	30		
2	During site visit check for safety adequacy at site	30		Annexure - 12.1
3	Check the Safety statistics of Contractor	10		Annexure - 12.2
4	Check the Safety orientation & training process of Contractor	15		Annexure 12.3
5	Check the organizational structure for safety professionals & engineers / supervisors.	10		Annexure - 12.4
6	Certified/skilled workers as a percentage of overall workforce	5		
	Total	100		

Evaluation Criteria for Category B

Sr. No	Description	Weight	Actual	Remarks
		age (%)	Score	
1	Does the contractor have a valid ISO 9001 certification?	30		
2	During site visit check for safety adequacy at site	30		Annexure -12.1
3	Check the Safety statistics of Contractor	10		Annexure -12.2

4	Check the Safety orientation & training process of Contractor	15		Annexure -12.3
5	Check the organizational structure for safety professionals & engineers / supervisors.	10		Annexure -12.4
6	Certified/skilled workers as a percentage of overall workforce	5		
	Total	100		

Evaluation Criteria for Category C

Sr. No	Description	Weight age (%)	Actual Score	Remarks
2	Check the Safety statistics of Contractor	40		Annexure - 12.2
3	Check the Safety orientation & training process of Contractor	20		Annexure - 12.3
	Total	100		

Annexure 12.1: Evaluation Criteria for Category D:

Category D does not require any evaluation as it is for outsourced job outside the Tata Power company premise.

Annexure 12.2

Check List – Adequacy of Safety Statistics of Service Provider			Actual Marks obtained	Remarks
1	Check the safety statistics for last 3 years (LTIFR and LTISR)	Statistics available	Marks 5	
		Statistics not available	0	
2	Check the trend LTIFR for last 3 years	LTIFR value	Marks	
		0 to 0.2	5	
		0.21 to 0.3	2.5	
3	Check the trend of LTISR last 3 years	LTISR value	Marks	
		0 to 2	5	
		2 to 3	2.5	
4	Has there been any Prosecution/Conviction for any contravention with regard to Safety & Health provisions under the Factories Act /Electricity Act/ BOCW Act and Rules framed there under?	No Prosecution	Marks 10	
		Prosecution	0	
		To be provided in written on letter head		
Total			25	

Annexure 12.3

Check List – Adequacy of Safety orientation & training process of Service provider			Actual Marks obtained
1	Records of safety trainings provided to safety officer/supervisor/workmen during last 1 year as percentage(%) of total employed by service provider	Safety Officer	Marks
		≥80% of employees	5
		50 to 79 % of employee	2.5
		<50%	0
		Safety Supervisor	Marks
		≥80% of employees	10
		50 to 79 % of employee	6
		<50%	0
		Workmen	Marks
		≥80% of employees	10
		50 to 79 % of employee	6
		<50%	0
Total			25

Annexure 12.4

Check List – Adequacy of organizational structure for safety professionals & engineers / supervisors.			Actual Marks obtained	
1	Check availability of number of safety officers from government recognized institute as per workforce strength.	Marks		
		1 in 50 employees		10
		1 in 100 employee		6
		Any other		0
3	Check availability of qualified workforce from government recognized institute/TPSDI.	Marks		
		100% of safety officers qualified		5
		50 – 99% of safety officers qualified		3
		<50		0
Total		15		

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Appendix 13: CSM-F-9 Safety Bid Evaluation Criteria

The User has to select whether the job is high risk/ long duration at time of raising the PR.

- 1) The decision whether job is “**high risk**” or not has to be made by order manager on the basis of Risk involved (Risk Priority Number in HIRA) of the Jobs. An indicative list of high-risk jobs is attached as annexure
- 2) If a technical job is of low risk with estimated duration of the contract is 1 year or more the job should be treated as “**long duration**”.
- 3) All Safety bids will be evaluated by Safety Concurrence Group. Structure of SCG will be declared by Corporate safety. Corporate safety team will audit bid evaluation process of a few selected jobs and Quality of evaluated safety Bids.
- 4) Records of jobs sent by for Safety Bid evaluation shall be maintained by Corporate Contract team in existing tracing sheet along with other jobs.
- 5) For Safety Bid Evaluation will be based on following parameters.

		Minimum Requirement	Weight age (%)	Score Obtained
Manpower	Safety Officer (1 per 500 workers)	Qualification- Officer shall possess Advance Diploma In Industrial Safety by state technical board. Experience- Minimum 1-year experience in relevant field as mentioned in the job in PR.	5	
	Safety Supervisor (1 per work site up to max. 50 workers)	Qualification- Supervisor shall possess ITI/ Diploma in relevant field. Experience- Minimum 2-year experience in relevant field as mentioned in the job in PR. Training – Trained and certified by TPDSI or equivalent institute in relevant safety procedures. Note: On request of the contractor/Users -TPDSI should vet & certify the skilled & experienced Technician if Technical Qualification is not adequate.	5	
	Technician (Skilled workers as electrician, rigger, fitter, welder, cable jointer, line men etc)	Experience- Minimum 2 year experience in relevant field as mentioned in the job in PR. Training – Trained and certified by TPDSI or equivalent institute in relevant safety procedures.	5	

Tools & Tackles	Equipment / Machines/ Tools & Tackles(lifting and shifting tools)	The list of Equipment /Machines / Tools and tackles to be used for job to be submitted by the contractor. Evaluation of the list will be carried out based on 1) Suitability as per the relevant job 2) Make and age of the tools from authorized agencies defined by the user. 3) Certification by the competent authority of respective state.	30	
Safety Records	Safety Records	Safety Records for last 3 years (as per vendor or as per our knowledge) – Recommendation?	15	
Safety Plan	HIRA/Contract Job Safety Plan	Adequacy of HIRA and Job Safety Plan with respect to relevant job. More weight age will be given to vendor for using mechanized work and advanced tools and equipment	20	
Accredited Bodies certificate	ISO-9001	ISO-9001	2	
	ISO-14001	ISO-14001	3	
	OHSAS 18001 ISO 45000	OHSAS 18001/ISO 45000	15	
		Total Score		

- 6) Vendor entitled to carry out the job only when qualified for the safety evaluation as follows:
Contractor is qualified in safety bid only if his total score is more than 70% in all category 1 jobs such as high risk/long duration.
- 7) The Corporate Contract has to ensure that the vendor provides the filled “Safety Competency Form” along with the quotation.
- 8) Corporate Contract will forward the Safety Competency Form received from the contractor to the Safety Concurrence Group for evaluation.
- 9) In case SCG wants to visit the site, the Safety Competency will be based on evaluation at the time of site visit Annexure 13.1

Annexure -13.1:

Checklist to be used: During site visit to check the adequacy Safety systems.			
		Observation	Score* (1-5)
1	Check the adequacy of safety policy and Safety Management system of the contractor.		
2	Does the contractor have written down safety procedures?		



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3	Check the records of Near miss, unsafe act, unsafe conditions and incidents.		
4	Check the organization setup to implement the safety systems at site (safety officer, safety supervisor)		
5	Check whether safety meeting and toolbox talk carried out regularly and records maintained or not.		
6	Is the process of incident investigation adequate or not?		
7	Verify incident reporting and recording system		
8	Check the usage of equipment/tools and tackles.		
9	Check for housekeeping at site		
10	Check the use of PPEs and general behavior of workforce towards safety		
Total Score			
Site Visit Score			

Score* - rating on the scale of 1-5 to be given based on the observations on site. Score of 1 is the lowest and core of 5 is the highest.

Appendix 14: CSM-F-11.1 CFSA Format

CONTRACTOR FIELD SAFETY AUDIT						
Project Name :						
Date:						
Description of Severity rating:			Audit Team:			
	1 = Untidy area, minor issues, sets poor example					
	2 = Restricted access, unacceptable trash, disorderly					
	3 = Rule or procedure violation, potential injury					
	4 = Unsafe condition, serious injury potential					
	5 = Immediate serious injury potential, stop activity immediately and correct		Audit Time:		10:00hrs -11:30 hrs	
			Weather:		cloudy	
	Description	Responsible	Number Personnel Observed	Violations	Remarks	Leading Indicators



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		Engineer	Contractors	Good Citizens	Violators	Number of Violations	Severity	Violations x Severity		4 & 5	PPE	Unsafe Act	Unsafe Condition
Are													
a													
1													
	Sub Totals			0	0	0	0	0		0	0	0	0
	% of Observed People Working Safely												
	Number of Violations												
	Average Severity of Violations												
	Number of Severity 4 & 5 Violations												
	% of 4 & 5 Violations												
	Approximate Number of Workers Observed												
	Number of People on Site												
	% of Workers Observed												

Appendix 15: Indicative List of High-Risk Jobs

To access the exhaustive list of High-risk jobs, please refer the following documents

- 1) [High Risk Jobs- Generation](#)
- 2) [High Risk Jobs- T&D](#)
- 3) [High Risk Jobs- Renewable](#)

Indicative List of High-Risk Jobs -Generation Cluster				
Sl. No.	Jobs			
1	Demolition / Painting of Chimney			
2	Survey Sounding Jobs in Sea			
3	Dredging at Coal Birth Jetty			
4	Maintenance / Testing and Replacement of Extra High Voltage (132 KV etc.) Switchyard equipment			
5	Maintenance of EOT Cranes			
6	Deep excavation (5 feet or more) near existing buildings /Structure s			
7	Working inside confined spaces (entry through manhole)			
8	Operation Maintenance of elevators			
9	Working on Live control Circuits for identification of faults			
10	Cable laying and termination Jobs			

Indicative List of High-Risk Jobs - T&D Cluster				
Sl. No.	Jobs			
1	Transmission Line Tower Erection on columns, near live lines, In congested areas, In creeks, In the Sea			
2	Conductor Stringing on Tower Using Tensioner & Puller in the area such as Line Crossing, Near Live lines, Congested Areas, Road Crossing, Bridge Crossing, Railway line Crossing, In creeks ,In the Sea			
3	Cable Pulling by Using winch Machine in City and Rural Areas			
4	Hot Washing of HT and Extra HT lines, Towers and switchyards equipment			
5	Installation of Lifts			
6	Installation of EOT Cranes			
7	Tower Dismantling			
8	Working on H Frame /Pole mounted Transformers			
9	Excavation in operational Area heaving power cables in receiving station			
10	Identification and spiking of cable / disconnection of cables from poles			



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Indicative List of High-Risk Jobs - Renewable Cluster

Sl. No.	Jobs				
1	Working on Electrical Panels				
2	Hi Potting of Equipment				
3	Battery commissioning and maintenance				
4	Working on the nasal of Wind Turbine				
5	Working on live electrical switchyard, material Handling and Equipment installation				
6	Roof Top Solar Panels Installation and maintenance				
7	Working in live Electrical Switchyard, Material Handling, equipment installation				
8	All maintenance activities that requires climbing on Towers /Structures / Transformer/ GODs				
9	Loading and Unloading of Solar Panels on trucks				
10	Structural Repair /Dismantling work at height.				



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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.

CONFIDENTIAL



NIT No.: TPCODL/P&S/1000000109/2021-22

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

A handwritten signature in blue ink, appearing to read 'Praveer Sinha', with a horizontal line underneath.

(Praveer Sinha)
CEO & Managing Director

Date: 15th June, 2018

TATA POWER
Lighting up Lives!





CORPORATE SUSTAINABILITY POLICY

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

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

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

(Praveer Sinha)
CEO & Managing Director

Date: 15th June, 2018

TATA POWER
Lighting up Lives!

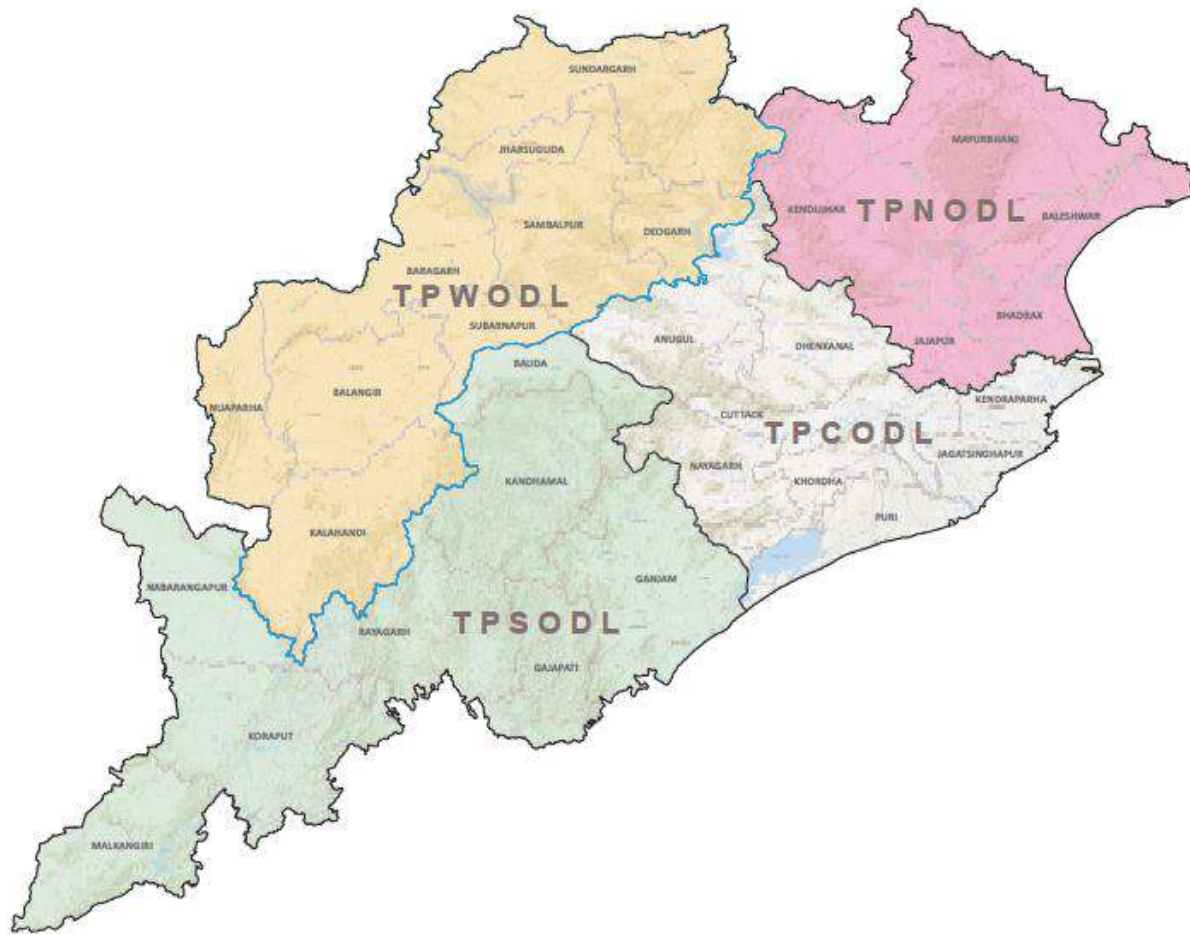


ANNEXURE II
SCOPE OF WORK AND TECHNICAL SPECIFICATIONS

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1. Introduction

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,

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Delhi & Ajmer) and has developed the country's first 4000 MW Ultra Mega Power Project at Mundra (Gujarat) based on super-critical technology.

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 Centres 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.

2. Objective

The objective of this RFP is to select a competent System Integrator (SI) to carry out the development of Web Based GIS Application on latest ESRI version, Migration of Present data to new version and integration with various modules with latest GIS version

3. Current GIS Implementation

The current GIS application has been developed and deployed under RAPDRP, on **ESRI Arc GIS 10.2.1 version and Arc FM 10.2.1c**. The GIS data and integration has been configured as per the data model as referenced in SRS of RAPDRP program. The GIS functionalities has been developed and deployed as per the functional requirements of the R-APDRP SRS using ESRI ArcGIS and Arc FM software.

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4. Existing Software Licenses

TPCODL currently has the following licenses. TPCODL through OEM (ESRI) will provide the upgrade for these licenses on the latest versions and maintain it to the latest available version during the implementation of the project and will also provide back-to-back support from the OEM. SI will be responsible for ensuring stabilization of developed application on new version/environment.

The list of licenses available under RAPDRP for different type of users is given below

Sr.No.	Name of Product	Version	Existing Quantity	Proposed Quantity
1	ArcGIS Server Advance (4 Cores)	10.2.1	2	4
2	ArcGIS Server Standard (4 Cores)	10.2.1	1	0
3	ArcGIS Desktop Standard	10.2.1	10	20
4	ArcGIS Desktop Extension: Data Interoperability	10.2.1	1	1
5	ArcGIS Desktop Extension: Network Analyst	10.2.1	3	1
6	ArcGIS Desktop Extension: Schematics	10.2.1	3	1
7	Arc FM Server	10.2.1c	3	4
8	Arc FM Desktop	10.2.1c	10	20
9	Arc FM Network Adaptor	10.2.1c	1	0
10	Arc FM Conduit Manager	10.2.1c	1	0
11	Testing and Development License (ESRI and ARC FM EDN license)	Not Applicable	0	1 Pack

Note: TPCODL team shall continue to use existing licenses and servers for creation and migration of Survey data till the new system having proposed licenses on new system (servers) is implemented and is found stabilised.

Data captured in old system with Cut-off date, Source code of existing customised application and integration with other modules will be migrated to newer system.

EDN license pack of Arc GIS & Arc FM product will be made available for the entire AMC period.

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5. Existing Hardware Details

Sr No	Physical Server	SERVER MODEL	CPU (Core)	RAM (GB)	HD	HYPER-V	Service Type	Server Category	Node	CPU (Core)	RAM (GB)	Windows Cluster	Load Balancer
1	1	HPE DL580 Gen9_5	2X8	128	4 X 600	YES	HOST			16	128		
							VM1	Database	Node -1	4	64	YES	NO
							VM2	Web	Node -2	8	32	NO	YES
2	1	HPE DL580 Gen9_6	2X8	128	4 X 600	YES	HOST			16	128		
							VM1	Database	Node -2	4	64	YES	NO
							VM2	Web	Node -1	8	32	NO	YES
3	1	HPE DL380 Gen9_5	2X10	64	4 X 600	YES	HOST	Application	Node -1	20	64	NO	YES
							VM1	Web	Node -2	8	32	NO	YES
4	1	HPE DL380 Gen9_6	2X10	64	4 X 600	YES	HOST	Application	Node -2	20	64	NO	YES
							VM1	Web	Node -1	8	32	NO	YES

Note: All applications are currently running on OS Windows Server 2012 R2 STD & Database MS SQL Server 2012 SP1 STD

6. Broad Scope of Work

The RFP scope includes development of web based GIS Application on the latest ESRI version, Migration of Present data to new version and integration with various modules with latest GIS version

Detailed scope of work is described under subsequent section and the subsections. It is recommended for interested bidders to carry out pre-bid site-visit and existing system study to have a detailed understanding of the existing system and requirements, subject to meeting qualification criteria as laid out in the document.

RFP for upgradation of ESRI Version 10.2.1 to Latest Version and Implementation of Enterprise Geographic Information System

Overview:

- Deployment of an integrated solution for efficient and effective functioning of business processes related but not limited to - Network planning, Project execution (as-built updates), Operations Management, Commercial Management, Asset management, Customer management, enabling business analytics and GIS System Administration as per the requirements laid out under section 'Integrated Business Process Requirement Compliance'.
- SI shall study and assess the existing application for integration and data migration. Front end & back end software and hardware platforms for applications and databases have to be compatible and interoperable with the current IT platforms in use. SI will ensure that the upgraded system will maintain the integrations done under R-APDRP programme (Existing Integration).
- Integration of GIS platform through appropriate connector/web services with existing legacy system ERP, CRM, MDAS, NA, EA and SCADA systems.
- SI shall also completely facilitate data and port for smooth integration and running of NA , SAP , MDAS and SCADA software.
- Documentation, Training & Hand Holding as laid out under section 'Documentation , User manual and training compliance'
- Transfer of complete customization code
- Support & Maintenance of the solution for a period of 1+4 years post commissioning & go-live as per requirements laid out under 'Warranty/Post implementation Support Compliance'

The scope of work in complete conformity shall include the following:

- Study of the existing GIS solution to assess the following:
 - Understand the As-Is landscape of GIS solution and its dependency on other systems
 - Assessment and identification of best implementation options available for managing data size accumulated over year on year basis.
 - Identify challenges in migration of existing software customization to newer GIS solution version. Gap analysis of existing system functionality w.r.t. utility business process and requirements.

- Designing and formulation of To-Be state of new GIS solution version and process where SI needs to assess and identify the modification requirements including Implementation / migration to new version.
- Application feature and functionalities mapping including Older GIS Solution, New GIS solution with utility business requirements.
- SI will also configure separate staging / editing environment along with test environment and version management to support data editing process apart from the production environment that would support the applications and integrations, following industry best practices.
- SI will get work authorization and access for existing Arc-GIS application products, Arc-FM and existing GIS DB products that are running in TPCODL along with currently installed hardware at Data Center and DR Center.
- The total data migration scope includes the following
 - a) All Master Data – Must be migrated
 - b) All additional data provided during the deployment phase must be migrated
- SI shall prepare the list of objects with count and other details received for data migration and against list of object with count and other details migrated in the system and the same list need to be shared with TPCODL team.
- The solution shall provide the functionality to configure the roles & responsibilities and grant role based access to the users. Also, the system shall have the capability to integrate with various standard SSO (Single Sign- On) or IDM (Identity Management) applications.
- SI will be responsible for detailed re-design and re-engineering of overall system application Software, subsystems, elements, system facilities, equipment, services. It shall include proper definition and execution of all interfaces with systems, equipment, material and services for proper and correct design and operation of the system.
- All the features of latest version of software shall be clearly demonstrated or explained by SI to the TPCODL as and when desired.
- Any special tools for migration & QC, testing of application and accessories required on temporary or permanent basis during the engagement, for day to day operation and maintenance of the system shall be supplied or arranged by SI.

RFP for upgradation of ESRI Version 10.2.1 to Latest Version and Implementation of Enterprise Geographic Information System

- During Systems upgrade phase SI shall be responsible for testing and quality assurance of software development with rigorous testing of each component. A system shall be tested at various stages of development and deployment. For example, each component should be tested as a unit for checking the correctness of its own code. Further, the component shall have to be tested with its dependent components. After final release of the entire set of components, system has to be tested for the correctness of system functionality.
- SI shall be responsible for carrying out the User Acceptance Testing and acceptance for final deployment solution at the utility site.
- Bidder should configure and customize off line/on line Mobile based application for field survey using ESRI latest Mobile application. The mobile applications should support viewing GIS data and capturing GIS coordinates for TPCODL field officers.

7. GIS Software/Platform Augmentation

- The SI shall undertake GIS Web based Application, and Supply of compatible Database licenses as part of scope of work. The GIS platform augmentation/upgrade activity will comprise of following activities.

Sr.No.	Name of Product	Version	Augmented Quantity
1	ArcGIS Server Advance (4 Cores)	Latest Version	4
2	ArcGIS Desktop Standard		20
3	ArcGIS Desktop Extension: Data Interoperability		1
4	ArcGIS Desktop Extension: Network Analyst		1
5	ArcGIS Desktop Extension: Schematics		1
6	Arc FM Server Advance (4 Cores)		4
7	Arc FM Desktop		20
8	Testing and Development License (ESRI and ARC FM EDN license)	Latest Version	1 Pack
9	Data Base SQL server license	Microsoft SQL Server 2019 (64-bit)	2

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- The SI should ensure all the customized codes are ported to the newest version of application upgrade.
- Any New Version or upgrades released from OEM during the Contract period should be upgraded in the system within 6 months from date of release of new version. This is applicable in case it results in no major architectural changes.

Note: TPCODL shall procure the GIS licenses from OEM and provide the access to SI for implementation. TPCODL shall authorize SI to coordinate with OEM in case of product support and any issue if found.

8. Warranty/Post implementation Support Compliance

- **Software** – The OEM Product provided shall have warranty of 1 + 4 years include bug fixing, patches, version upgrade etc.
- **Solution** – The SI shall provide the warranty/Post Implementation support of developed solution for 1 year including 1-month support / training after Go-Live. The support for next four years after successful completion of warranty period should be quoted separately. Post Go-Live, the onsite support shall be for minimum 3 nos. of resources (Resource skill set and demand of resource will be communicated to SI when it is required by TPCODL) in 1st year and min. 2 no. resource after that. This includes product/patches/upgrade support and application/tool/integration support and development for new requirement as well time to time.

SI needs to provide resume of one senior GIS DBA, two senior developers & a Project Manager to manage the deployed onsite resources and coordinate with TPCODL for requirement gatherings.

S. No.	Feature	Bidder's Compliance	Remarks
1	After full acceptance/Handing over of EGIS system, the successful bidder has to manage the EGIS for next 4 years.		
2	During the management of EGIS, successful bidder's scope of work but not limited to, are mentioned below:		
2.1	Implementation of product patches, all new upgrades, licenses shall be provided within three weeks of release		

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S. No.	Feature	Bidder's Compliance	Remarks
2.2	Installation of new patches and updates and upgrades shall not affect the existing custom applications and their integration with other systems		
2.3	Maintenance of system and application response time.		
2.4	System and database administration		
2.5	Existing Application maintenance, correction, enhancement and bug fixing etc.		
2.6	Maintenance, modification, enhancement and integrated business processes.		
2.7	Post implementation support and management shall be governed by Service Level Agreement (SLA). SLAs are given under Annexure – 5. This is not exhaustive and same shall be documented before the start of Post implementation period. Post implementation, vendor has to provide support for resolving technical issues related to system which are observed during incremental data migration tools/utilities		

9. Documentation, User Manual and Training Compliance

S. No.	Feature	Bidder's Compliance	Remarks
	Documentation and User Manual		
1	The successful bidder shall submit the complete documentation of the SRS and data model changes.		
2	After upgradation of tools/application/generic functionality etc., the successful bidder shall submit the complete documents to TPCODL before testing of the same.		
3	Documents shall be formed in such a way that same can guide any users/non users to operate those particular functionalities. Later on, same can be treated as User manual.		

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S. No.	Feature	Bidder's Compliance	Remarks
4	It shall be revised time to time and final user manual along with all old versions shall be submitted while handing over.		
5	User manual shall comprise the complete details of the application/tools, screen shot, work flow direction on the screen shots and results screen shots.		
6	These user manual shall also be available in soft and shall be attached with GIS and can be used by Desktop as well as web users.		
7	Submission shall be considered when final manual is submitted.		
8	In case of non-submission of documents, payment of any kind would not be made.		
	Training		
9	The successful bidder shall involve the team of TPCODL to update about the product, features, functionality etc.		
10	The successful bidder shall make the core team full conversant on what, how, why, when, algorithm elements of the product and on System Administration and data management. First training for central team will be arranged before or during or after SRS creation at TPCODL Location depending on availability of infrastructure.		
11	Acceptance of any application/tool shall only be considered complete when at least 3 power users of groups plus the central team are fully trained on the same deliverables.		
12	The successful bidder shall also tie up with OEM for advising on the product for minimizing customization and timely delivery.		
13	The successful bidder shall provide complete training to central team on System Administration and data management, integration, digitization and entire customized solution before handing over of the project or at schedule decided by TPCODL.		

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S. No.	Feature	Bidder's Compliance	Remarks
14	Certified Functional, Technical, System administration, GIS database administration and management training for core team from OEM.		

10. Hardware Specifications

All supporting hardware that may be required to build hardware capability for supporting the additional data, network & users will be procured by SI. SI to suggest the compatibility of licenses on proposed / envisaged hardware mentioned in the below table.

Hardware should be sourced from approved OEMs viz HPe/DELL/IBM/CISCO. It is mandatory that the hardware OEM has got its own service team based out of Bhubaneswar.

10.1 Application Servers

Specification's for Applications Servers with Cluster QTY 4 no's (2 QTY at DC and 2 QTY at DR)

Sl. No	Specification	Proposed configuration	Compliance	Deviations(if any)
1	Server should be configured with two in numbers 16 C E5-2690v4 2.6GHz/equivalent AMD Processor, 35MB Cache or higher Latest Generation (launched in year 2021) .			
2	Server should be configured with 512 GB of Tru DDR4 Memory and scalable up to 1536 GB Memory (minimum 24 slots).			
3	Operating System Support the latest version of Windows Server 2019 64bit			

RFP for upgradation of ESRI Version 10.2.1 to Latest Version and Implementation of Enterprise Geographic Information System

Sl. No	Specification	Proposed configuration	Compliance	Deviations(if any)
	released by Microsoft ,should be loaded Windows latest data centre edition with 5 years support			
4	Integrated hardware RAID controller and should support hardware RAID 0, 1, 5. Offered controller should have minimum 512 MB battery backed cache.			
5	Server should be configured with 4 * 1.2TB 10K SAS 12Gbps 2.5in-HS HDD or higher scalable up to 8 drives.			
6	1 Year Comprehensive Onsite Hardware Warranty 24*7 with 4 hr. response time extendable to 4 years			
7	Should equipped with TPCODL Rack and rack mounting kit and KVM switch.			

10.2 Database

Servers

Specification for Data base Servers with Cluster QTY 4 no's (DC 2 and DR 2)

Sl. No	Specification	Proposed configuration	Compliance	Deviations(if any)
1	Server should be configured with two in numbers 16 C E5-2690v4 2.6GHz/equivalent AMD Processor, 35MB Cache or higher Latest Generation (launched in year 2021) .			

RFP for upgradation of ESRI Version 10.2.1 to Latest Version and Implementation of Enterprise Geographic Information System

Sl. No	Specification	Proposed configuration	Compliance	Deviations(if any)
2	Server should be configured with 512 GB of Tru DDR4 Memory and scalable up to 1536 GB Memory (minimum 24 slots).			
3	Operating System Support the latest version of Windows Server 2019 64bit released by Microsoft ,should be loaded Windows latest data centre edition with 5 years support			
4	Integrated hardware RAID controller and should support hardware RAID 0, 1, 5. Offered controller should have minimum 512 MB battery backed cache.			
5	Server should be configured with 4 * 1.2TB 10K SAS 12Gbps 2.5in-HS HDD or higher scalable up to 8 drives.			
6	1 Year Comprehensive Onsite Hardware Warranty 24*7 with 4 hr. response time extendable to 5 years.			
7	Should equipped with OEM Rack and rack mounting kit and KVM switch.			

10.3 Web Server

Web servers in HA mode QTY 4 number same configuration as for the application server and this server should support virtualization created as shared resources of application server.

11. General Guidelines

11.1 Period of contract

The completion time of the project will be 6 months from the date of order till handing over of system with post 1 year warranty. Subsequent to this, the successful bidder shall maintain the system for next 4 years. Further extension of services shall be mutually agreed upon at later date.

11.2 Technical Bid

Technical bid shall contain the following in sequence

- i. Table of contents
- ii. Certificates of qualification as per Section 4
- iii. Signed copy of statement of Compliance for mentioned Compliance matrix
- iv. Signed Copy of Terms and Conditions, Duly Filled Time Schedule, Payment Terms, Acceptance Criteria
- v. Signed copy of Annexure
- vi. Copy of power of attorney in the favor of person signing the tender duly authorizing him for all future correspondence.
- vii. Signed Copy of Non-Disclosure Agreement (NDA) for the information shared in the RFP document.
- viii. Solution Blueprint document
- ix. All other documents required as per RFP instructions
- x. Product brochure, white papers, case studies etc.
- xi. OEM road-map for product and associated technology
(Road map provided by OEM will be shared with SI)

12 Instructions

1. The bidder shall fill up the response for each item in the table for technical requirement against Clause No. 3 through 12 as mentioned in section **13.2 – Technical Specification Compliance** in **“Bidder’s Compliance”** column, bidder shall tick (✓) for full compliance status. Any elaboration may be given in the **“Remarks”** column.

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2. To establish full compliance, bidder may be required to arrange necessary demo at TPCODL offices.
3. All bids must be prepared and submitted in accordance with these instructions.
4. The bidder, in his own interest is requested to read very carefully the specification and the terms and conditions as documented herein.
5. If bidder needs any clarification, before submission of the bid, he may refer the same to TPCODL during pre-bid meeting.
6. Submission of the bid shall be deemed to be the conclusive proof of the fact that the bidder has acquainted himself and is in agreement with all the instructions, terms and conditions contained in this RFP documents
7. Bids submitted after the date and time fixed for receipt of bids as set out in the RFP shall be rejected and returned to the bidders.
8. The works referred herein will cover the entire scope of the work which include supply, installation and commissioning of the EGIS including the successful completion of performance, user acceptance tests & handing over and post implementation management which the TPCODL desires to get executed.
9. Any work if specifically not mentioned but implied for the successful implementation and performance of the proposed work is deemed to be included and is to be executed within the scope of the contract without any variation.
10. The content of bid submitted in hard copy in original shall be treated as final.
11. The bidder shall carefully read the General Conditions of Contract (GCC) and in case any contradiction on any clause between the GCC and RFP then the later shall supersede.
12. It shall be responsibility for all bidders to maintain the confidentiality of the information shared in RFP document. The bidder shall sign the Non-Disclosure Agreement (NDA) with TPCODL at the time of procuring the RFP for the contents of the same. All successful or unsuccessful bidders shall need to strictly adhere to the NDA throughout and after the bidding process. Any violation of NDA shall attract a suitable legal action.

All the technical features mentioned in Technical requirements shall be available to all the users groups. TPCODL shall reserve right to decide the feature based access rights for various groups and it will be the

RFP for upgradation of ESRI Version 10.2.1 to Latest Version and Implementation of Enterprise Geographic Information System

binding for the successful bidder to design and develop the applications according to instructions of TPCODL.

13 Bidder's Technical Qualifying Requirements

13.1 Technical Scoring Criteria

The evaluation team will thoroughly review the proposals submitted by various bidders. The broad evaluation will be based as following:-

1. Each of the bidder will be requested to demonstrate the solution.
2. Minimum qualification mark for technical score as mentioned in the RFP shall be 30 out of 50. In case bidder fails to secure minimum marks. The bid shall not be further evaluated.

Scoring Methodology for Technical Evaluation

S. No	Description	Supporting document	Max Score
Technical Solution Score			50
1	Project Experience		20
a)	Project experience of Implementation Agency in implementation of GIS with integration of IT systems		10
	<p>The bidder must have executed at least one GIS project in Power distribution utility anywhere in India in last 5 years. RAPDRP implementation will be given preference</p> <p>Mark shall be awarded for experience in implementation of modules/applications, as part of single implementation, as mentioned below:-</p> <ul style="list-style-type: none"> (i) Integration for Energy Audit (ii) Integration for ERP (iii) Integration for MDAS (iv) Integration for MBC & CRM/CIS (v) Integration with Network Analysis module <p>No of Projects Completed with all the above modules. 1 Project – 5 Marks 2 Projects – 8 Marks More than 2 Projects – 10 Marks</p> <p>In-case the projects executed does not meet the integration requirement as above, 1 mark shall be provided for each integration. Same module in different projects shall not be considered for additional marking.</p>	Documentary evidence in form of Work Order / UAT Certificate or any other document citing completion of integration	

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c)	Project experience of the Implementation Agency in implementation of Web GIS & Mobile Application in Power Distribution		10
	Web GIS application + mobile application - 4 marks Web GIS application + integration – 6.5 marks Web GIS application + mobile application + integration – 10 marks	Documentary evidence in form of Work Order/LOA / UAT Certificate or any other document citing completion of integration	
2	Presence in India		10
	The bidder must have its own software design and development facility in India, for the proposed technology ISO9001+27001 + CMMI L3 - 7 marks ISO9001+27001 + CMMI L3 + ISO 20001-1: 2008- 8 marks ISO9001+27001 + CMMI L5 + ISO 20001-1: 2008 - 10 marks	Documentary evidence in form of Certificate of Incorporation and Registration	10
3	Team Details - CVs (TPCODL may take interview of employees for whom CV has been submitted and no resource diversion will be allowed unless it is produced that employee has resigned from Organization)		10
	CVs of minimum 4 individuals (Technical Graduate) with relevant experience of GIS Software development in the ESRI technology having minimum 5 years of experience and 1 Project Manager having minimum 10 years of experience should be provided. Each resume meeting the criteria will be awarded 2 marks.	CVs of the full-time dedicated resources	10
4	Proposed Approach & Methodology		10
	Solution shall be evaluated on the following sections of the Technical bid : 1. Technical Specification Compliance – 5 marks 2. Performance Testing Methodology – 5 marks The technical proposal shall be evaluated on the proposed utilization of simulation tools for following tests - 1. Load testing (User Load) 2. Stress testing (Data Load)	Technical Solution as part of Technical Bid	

13.2 Technical Specifications Compliance

S No.	Description	Bidders Compliance	Remarks
1	General Features of the solution		
1.01	Should have out of box industry standard Electric Distribution data-model , that should be flexible for customization as per utility requirements		
1.02	Should have mechanism for workflow based utility network digitization with in-built QC and update feature features		
1.03	The solution shall provide an integration toolkit and have standard, published API sets to allow the integration with ERP for Asset Replication and work management business workflow integration.		
1.04	The synchronisation between ERP & GIS shall be bi-directional, changes in GIS shall synchronise to ERP, and changes in ERP shall synchronise to GIS. For ex. when changes in GIS occur to records such as Consumer meter, cables, wires, isolating equipment data will be sent to update/delete or create corresponding records in ERP.		
1.05	GIS update workflows shall be configured to initiate a synchronisation for changes made within in GIS for an ERP project. This shall ensure that project changes, where approved or completed, will be reflected within ERP in near real time.		
1.06	The solution shall support an efficient network extension and customer connection process by providing the ability to create an integrated		

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S No.	Description	Bidders Compliance	Remarks
	workflow-based process between GIS and ERP with the synchronised status of the project maintained in both systems.		
1.07	The GIS shall maintain the cost objects based on data mastered in ERP and synchronised to GIS with respective cost for labour, services and material. These cost objects shall be utilised for planning network extensions in GIS and then create the Bill of Quantities for the material and labour required for the project.		
1.08	<p>A facility for configurable work flow for supporting business processes and workflows. The workflow also should get integrate with other systems.</p> <p>Sample example integrated workflow for network extension project is as follows, bidder is required to provide compliance for the same:</p> <ol style="list-style-type: none"> 1. Project gets initiated in ERP with status “New” and the corresponding project with status “New” shall be created in GIS automatically through integration points. 2. The GIS user shall then update the project status to “In Design”, create the planned extension using the ERP synchronised Cost Units and validate the network extension in a Network Analysis application like Cymdist. 3. A BOQ shall be generated and project status shall be changed to “Approval Pending” to submit the project to ERP for approval and associating the 		

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S No.	Description	Bidders Compliance	Remarks
	<p>Cost Units from the BOQ with the project in ERP.</p> <p>4. The project can either be approved and a construction PO to be initiated from ERP or the project can be sent back for optimization of design.</p> <p>5. Once the PO is released by ERP and construction started, the project status shall change to “In Construction”.</p> <p>6. During construction of project, if there are any deviations to the planned network, the changes are submitted to GIS and the status of project shall change to “Construction updates”.</p> <p>7. Once the field updates for the as-built view are captured in GIS, the project status is updated to As-built updated.</p> <p>8. The network extension is then energised, and the status of project is updated in GIS and ERP to “In Service”.</p> <p>9. At this point the extended network shall be made part of as-built view and the project shall reach the “Complete” status.</p> <p>>> The above is a sample and not limited to details mentioned above.</p>		
1.11	<p>The solution shall support modelling of High voltage, Medium voltage and Low voltage distribution network and associated assets including Generators, HV lines, HV Transformers, MV lines (OH & UG cables), Poles, Primary Substations, LV lines (OH, ABC & UG cables, 1Phase, 2Phase &</p>		

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S No.	Description	Bidders Compliance	Remarks
	3Phase) , Switchgears, Auto-Reclosers, Load Break Switches, DDLO's, Distribution Transformers, LV fuses, Retail & Bulk customers, meters, dist communication etc. using appropriate GPS coordinate system.		
1.12	The GIS product shall have an industry standard Data Model and shall be CIM compliant. Standard adaptors to export the data in CIM model should be available off the shelf.		
1.14	The proposed GIS shall support structured export of connected network in CIM/XML format for one-time initial load as well as incremental changes. Shall also support structured publishing of proposed network changes with SCADA system.		
1.15	The proposed GIS shall support for Standard distribution operations such as Phase Change/Phase propagation, Replacement or Addition of Conductor, Rotation of phasing information, updating flow directions, updating voltages etc.		
1.16	Availability of a mechanism to ensure the circuit/feeder number and proper phasing are propagated to topologically connected assets when a permanent electric network change occurs		
1.17	The proposed GIS shall have standard Designing and Workflow Management Tool with easy to use design layout tools, Bill of Material (BoM) generation and cost estimation, Reporting for streamlining the entire design process and making it		

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S No.	Description	Bidders Compliance	Remarks
	easier for users to <i>“design to standards”</i> and <i>“build to design”</i> .		
1.18	The proposed GIS shall have in built QA/QC tools for network and Landbase data integrity and sustenance. There should be a Quality Management framework that shall provide robust data quality analysis and reporting, enabling users to reduce data quality related costs. It should have a graphical user interface-driven management tool for use with application.		
1.19	The solution shall support Open Layers and map API integration such as Google, Bing, Open street maps		
1.20	Solution shall support Terrain analysis , DEM		
1.21	Solution shall support vegetation corridor management or corridor management		
1.22	Solution shall support integration with weather plugin		
1.23	Local Language (Hindi , Odiya) support for web and mobile applications will be an added advantage		
2	Integration & Interoperability		
2.1	The system must have ready capability for SOA based integration, and the bidder shall be responsible to do necessary adaptations (GIS side) for development of interface for but not limited to -		
	1. Energy Auditing		
	2. Technical Feasibility for New Connection		
	3. CAPEX management		

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S No.	Description	Bidders Compliance	Remarks
	4. Asset Lifecycle Management		
2.2	The system must be CIM compliant and provide out of box support for CIM based integration with Advanced Distribution Management Systems / SCADA / DMS / OMS		
2.3	The offered GIS system shall support methods, tools and services for data management in order to acquire, process, analyse, access, present and transfer such data between different users, systems and locations as per the OGC standards for geographic information. These standards are intended to support data and service interoperability between different environments. The contractor shall be responsible to demonstrate that the offered Software will provide these capabilities.		
2.3.1	Get Capabilities service		
2.3.2	Web Map Service (WMS)		
2.3.3	Web Feature Service (WFS) to provide access to geographic feature data		
2.3.4	Real-time data exchange capabilities based on Geography Markup Language (GML)		

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S No.	Description	Bidders Compliance	Remarks
2.4	<p>Data Exchange:</p> <p>Shall support export to and import from other standard formats, including but not limited to :</p> <ol style="list-style-type: none"> 1. GeoJSON 2. CSV 3. KML 4. Shapefiles 5. AutoCAD (DWG) 		
2.5	<p>Coordinate System:</p> <p>Should support multiple Geographic Coordinate Systems as well as custom coordinate system. Shall be able to perform coordinate transformations and use tools such as Transform and facilities to accurately geo-reference multiple GIS sources data both raster and vector.</p> <p>Management of multiple coordinate spaces – or worlds – with full interaction between them for viewing, updating and tracing. For ex. a substation boundary shall be available in the geographic map but to avoid cluttering of map, the internal equipment and their connectivity shall be available in a separate view with intelligent interaction between the view for viewing, updating and tracing the network</p>		
2.6	<p>It shall be possible to overlay geographic data (map/feature/content) from other GIS sources. The data shall then be rendered into a single interactive map accessible to the users via the web.</p>		

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S No.	Description	Bidders Compliance	Remarks
3	Data Model - The proposed solution shall use the existing Data model that has already been used in the existing system. After award of contract, bidder has to do the AS IS study and may add if anything is missing in existing data model to comply the requirements. However, bidder has to submit the compliance of similar projects as mentioned in subsequent line items.		
3.1	The proposed Utility data model and application shall be matured industry standard product supported by OEM with existence for more than 3 years and have been implemented by at least 1 electric distribution utilities. OEM shall share a self-certification along with the list of reference customers meeting the said criteria.		
3.2	The GIS database shall have deployment readiness on standard OEM supported RDBMS (Oracle, SQL Server etc.) - Bidder has to ensure the support of proposed RDBMS from its respective OEM.		
3.3	The data model shall offer features to partition the network by voltage level, into EHT, HT and LT networks. It shall be possible to associate voltage level with equipment (object) and only objects in the same network should be able to connect.		
3.4	Circuits and Sections: for a comprehensive model to record all the conducting equipment that comprises a specific circuit. This circuit can be broken up into discrete circuit sections for improved partitioning		

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S No.	Description	Bidders Compliance	Remarks
	and management of the network. Circuits may be fed from other circuits (for example, meshed networks).		
3.5	Asset: A real physical conductor or item of equipment (single phase or multi-phase) in the network shall be modelled as an Asset. Each Asset shall have a specification, which records its inherent unchanging attributes. The remaining asset attributes shall be those which distinguish it from all physically and electrically identical assets in the network, such as Asset ID, Serial Number and Date Manufactured. Assets will not have geometry.		
3.6	Installation: An installation record shall be used to represent a location at which a single three-phase asset or up to three single-phase assets are placed, and manage all the connectivity of the assets in the electrical network. An installation must have a geometry. The attributes of an installation shall be those which are common to all of the assets 'within' that installation, such as the type of network to which the assets are attached. The specifications of the assets within an installation will often be identical, but do not have to be.		
3.7	Phases: Electrical networks may consist of one, two or three phases. To aid visualisation of objects a single line or point shall be used on the map to represent electrical objects with multiple phases in the network. For the management of phases and		

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S No.	Description	Bidders Compliance	Remarks
	the physical assets supporting the respective network installation, certain electrical objects shall be able to be managed as assets, installations and specifications.		
3.8	Specification: The data model shall maintain Specification records to define the non-changing properties of electrical assets. Assets shall be joined to a specification record. An asset's specification describing its unchanging physical and electrical properties, that is, those properties which are independent of whether the asset is connected to the network or not and how it is connected. Many individual assets in the network could have the same specification. Attributes stored in specifications might include manufacturer, rated current, rated voltage, resistance per unit length, material and so on.		
3.9	The application shall be able to model the contents of structures, such as substations in a separate container object in its respective internal world map. The internal features shall be electrically connected with the geographical features.		
4	Existing, future and past views of the network		
4.1	The data model shall support an existing and future view of the network, primarily to support network builds for consuming systems such as outage management systems and distribution management systems. These systems need to know		

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S No.	Description	Bidders Compliance	Remarks
	both the current and future configuration of the network. The current view of the network shall represent the existing 'as-built' state and the future view shall show the effects of proposed changes on the existing network.		
4.2	Assets shall be associated with an installation in a way that allows users to view current (as-built), future (designed) and past views of the network.		
4.3	The lifecycle status of an asset shall be derived from the status of its installation and shall determine whether an installation is considered as part of the current or future network, or both.		
4.4	The Past Phase shall allow users to track where a specific asset used to be installed in the electrical network. Electrical equipment can have a very long lifespan and is often recovered from the field, serviced and then installed elsewhere, so GIS shall allow users to identify where an asset has previously been in the network.		
5	Asset Management		
5.1	The solution shall provide native facilities for asset management or can integrate with an external asset management system.		
5.2	The solution shall provide functionality to record essential information about assets, such as installation and maintenance dates, ownership and specification information together with the asset's identifier and geographic location. The solution shall		

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S No.	Description	Bidders Compliance	Remarks
	be able to record this information independently of other packages and can fulfil the asset management needs for electrical network.		
5.3	Every asset shall have an asset identifier. When integrated with the asset management system, this asset id shall be used as a link to the corresponding data in the asset management system. In this case the asset management system records the properties of the asset, including the specification data. When the connected network model is exported from GIS to the ADMS or analysis engines such as load flow (for example, CYMDIST), the electrical properties required to support these complex electrical functions can be retrieved from the asset management system, because each asset in GIS can identify the correct reference to look up the properties. In this instance, there is no need to capture this detailed asset data in GIS		
5.4	Should have mechanism for work flow based utility network digitization with in-built QC features.		
5.5	Shall support data-model and applications for Flood area demarcation, high tide zones demarcation and the utilization of the same for Network Planning, Damage Assessment etc. Suitable data-model and applications need to be made available as per utility requirement.		
6	FEATURES OF DESKTOP CLIENT		
6.1	General Editing		

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S No.	Description	Bidders Compliance	Remarks
	Feature for Bulk Update		
	Perform Unlimited Undo/Redo operations		
	Snap Tips Indicating What Is Being snapped to		
6.2	Topology Processing		
	Add Topology		
	Add Feature to Topology		
	Add Rule to Topology		
	Create Topology		
	Remove Feature from Topology		
	Remove Rule from Topology		
	Set Tolerance levels		
	Validate Topology		
6.3	Workflow/Wizard based digitization:		
	Shall have capability to automate repetitive tasks with a workflow based framework and user interface. With this framework, one shall be able to build, save, and share simple and complex workflows with a simple GUI based editor. Workflows can include logic and initiate calls to other workflows—all with a single mouse click, improving productivity, efficiency and consistency in results. The workflow management which is automated and configurable; so as to stream line work procedures		
6.4	Productivity Enhancement Tools: Shall have ready made and configurable templates for digitizing complex/structured feature sets		
6.5	i) "RMU Panel + Switches"		

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S No.	Description	Bidders Compliance	Remarks
	ii) "Pole + HVDS Transformer + Primary Fuse + Secondary Fuse"		
6.6	Note - The above examples are only indicative, the solution shall provide a framework for creation of templates		
6.7	Schematic display:		
	The System shall support automatic generation of schematic representations of geographic networks managed in the GIS databases e.g. Electric and Communication networks.		
6.8	This shall allow users to dynamically create a schematic of a complete circuit or only the downstream or downstream from a selected device.		
6.9	The Schematic application shall represent any type of network and diagrams within a symbolic system, in a defined space and without scaling constraints. It shall produce diagrams, which can represent physically or logically and type of network.		
7	System and Data Administration Features		
7.1	Version Management -		
	The EGIS system shall have version management for supporting long transactions, with facility for parallel data update, merging, posting and conflict resolution.		
	Shall have transaction journal to record details of original and modified data, user ID, machine ID etc.		

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S No.	Description	Bidders Compliance	Remarks
	The log file shall preferably be a database table for analysis.		
	Shall have tools to view analyse and resolve the conflicts graphically.		
	Shall support automatic conflict resolution for actually non-conflicting changes and also allow for configuring rules for automatic conflict resolution		
	Merge Versions		
	Manage Conflicts between Editors by Row or Column		
	Manage Conflicts between Editors Interactively or Automatically		
	Delete Versions		
	Compression, Extraction and Replicas		
	Shall have provision of clean up (Compression)		
	Shall have provision of Extraction from main database		
7.2	User Management		
	Shall support Active Directory based user authentication. Shall also support Single Sign On(SSO)		
	Shall have feature of creating user groups and assigning rights to group that will allow cascading of the rights to all user of the group		
	Shall have facility to restrict users to update data only on certain alternatives (versions of data)		

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S No.	Description	Bidders Compliance	Remarks
	Shall have facility to restrict users to update or view data based on spatial bounds of administrative boundaries		
7.3	Data Modelling Tool		
	A GUI based data-modelling tool shall be available for defining new data objects, adding new attributes to existing objects, adding values to enumerated sets of attributes etc. Need to elaborate on hard and soft changes		
8	FEATURES OF WEB CLIENT		
8.1	The system shall have a web based application where in users shall be able to assess and visualize spatial/non spatial data on normally supported web browsers like MS Edge, Chrome etc. without any installation of apps.		
8.2	The application shall be a single page web-app that shall enable users to notify geometry changes (in form of redline sketches) and update configurable non-geometry attributes without using the full desktop client application		
8.3	The application shall be tightly integrated with desktop application users with defined workflow to review and accept changes and run quality check tools before the updates are integrated to the as-build network.		
8.4	Supporting pre-defined Zooms scales and configurable set of layers to be displayed at each scale		

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S No.	Description	Bidders Compliance	Remarks
8.5	Map generation in maximum 5 seconds		
8.6	Create , View and submit Redlines		
8.7	View all previously submitted Redlines		
8.8	Generate Plots from pre-configured Map templates		
8.9	Measure dimensions between features of the map (Dynamic Ruler)		
9	Responsive Design for display support on varied screen sizes - including Laptops, Mobiles and Tablets		
9.1	The application shall be configurable to enable only the specific types of updates and by the authorised users.		
9.2	The user shall be able to review the changes before submitting the changes to the back-end office users.		
9.3	The user shall be able to view the changes already submitted.		
10	Technology Platforms		
10.1	The EGIS Software shall be supported in the following systems:		
10.2	Linux 7.6, Windows 2016 or above for servers		
10.3	Windows 10 and above for Desktop client OS		
10.4	Chrome, Microsoft Edge for Web Client		
10.5	The software shall have integration readiness with commercially available e-mail environments including MS Exchange and support SMTP, POP3, and IMAP.		
10.6	The GIS database shall have the provision of deployment on standard RDBMS (Oracle, SQL Server		

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S No.	Description	Bidders Compliance	Remarks
	etc.) - Bidder to provide complete list of supported RDBMS		
10.7	Integration Framework – Service Oriented Architecture		
10.8	Directory Access : Active Directory		
10.9	High Availability Cluster should be supported		
11	User Management: Authentication and Authorization		
11.1	The proposed solution shall provide authorisation facilities to: <ul style="list-style-type: none"> • control access to tables in a user dataset, with separate controls on fields and records • control access to as-built view and design views of a user dataset • give named rights to users 		
11.2	Shall have feature of creating user groups and assign rights and privileges to group that will allow cascading of the right to all users of the group.		
11.3	Shall have facility to restrict users to update data only on certain alternatives (Versions of data) and layers		
11.4	Shall have facility to restrict view or update data based on specific bounds of administrative boundaries.		
11.5	The system shall support local user authentication: users, their passwords and their group memberships are maintained within the proposed GIS Authorisation database.		

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S No.	Description	Bidders Compliance	Remarks
11.6	The system shall also support IDAM user authentication where users, their passwords and their group memberships are defined by an IDAM server. IDAM user groups will be mapped to the user groups of the proposed GIS system authorization system.		
12	SECURITY		
12.1	The security functionality shall ensure protection of objects, data, and the software. Standard security and protection shall be provided, including physical access controls by: Application geography Workspace (versioned Alternative)		
12.2	Multiple classes and levels of security must be able to be defined/assigned. Four levels of data/map access control are preferred which are as follows: o Full control o Add/Modify/Edit o Delete o View only		
12.3	The level of security required is at User level and User group level. Users can be grouped as normal users, view only users, system developers, system Administrators, Data entry operators, department based users etc. This facility of user grouping shall be available in the offered system.		

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S No.	Description	Bidders Compliance	Remarks
13	Administration Requirements: Version Management		
13.1	The e-GIS system shall have version management features for supporting long transactions, with facility for parallel data update, merging, posting and conflict resolution.		
13.2	The transaction journal shall have details of original and modified data, user id, machine id etc. The log file shall preferably be a database table for analysis and not a text file.		
13.3	Shall have tools to view, analyse and resolve conflicts graphically.		
13.4	Shall support automatic conflict resolution for actually non-conflicting changes, and also allow for configuring rules for automatic conflict resolution		
13.5	Multiple editors shall simultaneously edit the same features in a multi user database.		
13.6	Isolate editing projects in separate versions (create version)		
13.7	Merge versions		
13.8	Manage conflicts between Editors by row or column		
13.9	Mange conflicts between editors interactively or automatically		
13.10	Delete versions		
14	SYSTEM MAINTAINANCE		
14.1	System Maintenance/System Administration includes the management of user accounts, passwords, and management of Applications,		

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S No.	Description	Bidders Compliance	Remarks
	operating systems and Databases. Adequate tools shall be provided to facilitate the administration of the system and the users (through a simple GUI) as well as the installation and configuration of the Software.		
14.2	User's accounts, passwords and Security levels, access, permissions shall be managed through a GUI based interface.		
14.3	Performance monitoring tools shall be provided.		
14.4	Log Files, Error Logs, access logs shall be provided automatically. It shall be possible to enable/disable the log files and customize the output and the level of details shown in these logs.		
14.5	System shall have failover/restart capability that allows users to automatically recover data and system recovery mechanism in case system crashes or has abnormal shutdown.		
14.6	Transaction history/log to be available showing the audit trail of data modified/deleted/added, what and when.		
15	Backup & Recovery Procedure:		
15.1	The backup/recovery mechanism shall support the following backup types:		
15.2	Full: A backup that is non- incremental, that is, it backs up all used data blocks in the data files together with all required system/applications files as required.		

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S No.	Description	Bidders Compliance	Remarks
15.3	Incremental: A backup of data files that includes only the blocks that have changed since a previous incremental backup. Incremental backups require a full Backup to serve as a basis.		
15.4	Open: A backup of any part of the target database when the database is open with users connected.		
15.5	Closed: A backup of any part of the target database when it is mounted but not open.		
15.6	A multi-level incremental backup strategy is expected to be followed for GIS system. The backup/recovery strategy shall support an automated backup and recovery tasks by recovery manager.		

14. System Requirement Compliance

14.1 General Requirements

1. Within one week of Project Kick Off, Implementation agency shall finalize detailed BoQ, Data Center architecture, specifications and deployment plan of production environment Hardware and related components. TPCODL will provide required production environment as per production deployment plan given by implementing agency.
2. Development environment established by implementing agency, shall be property of TPCODL and shall be handed over, in working condition, to TPCODL at the time of project closure and handover.
3. All rollout related to GIS shall follow deployment process as below
 - a. Development Landscape - For purpose of development
 - b. Quality Landscape (can be on same development server)-- For purpose of User Acceptance Testing

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Production Landscape: Live Production environment

S. No.	Description	Bidder's Compliance	Remarks
	<p>The bidder shall submit "Upgrade blueprint" and 'Approach & methodology' document after studying the various sections of after the study of As-Is Systems. The document should clearly mention the following</p> <ol style="list-style-type: none"> 1. The overall Upgrade Solution Architecture 2. Various software modules of the proposed solution 3. Deployment architecture of the solution 4. Hardware requirement specifications as per the expected performance requirements and user base 		
1	<p>The successful bidder has to interact with various users and prepare a detailed System Requirement Specification (SRS) before commencement of the development activity.</p>		
2	<p>The successful bidder shall define input and output design screens and reporting format in the SRS.</p>		
3	<p>The successful bidder shall be open to carry out minor to moderate iterations in applications during the implementation as well as support period. There shall not be any additional commercial implication of iterations and modifications.</p>		
4	<p>The source code of all custom developed application shall be the property of TPCODL and the successful bidder shall sign a Non-Disclosure Agreement for preserving the Intellectual Property Rights (IPR) of such applications with TPCODL.</p>		

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S. No.	Description	Bidder's Compliance	Remarks
	All source codes of customization and of fully customized utility, engine, tool, routine etc will remain property of TPCODL and other Tata Power group companies. The right includes modification, enhancement, re-use for other business purpose. The business logics built on out of box functionality will also remain the property of TPCODL and Tata Power group companies for re-using, publishing, presenting at different internal and external forums.		
5	The proposed solution has to be scalable for complete area , network , asset and consumer base of TPCODL with an estimated growth rate of 5% annually for 5 years		

14.2 Desktop Application Requirements

Application Name	Description	Bidders Compliance	Remarks
Network Identification Number Tool	Tool to update common attributes like Transformer No. , Feeder name, Circuit ID etc. in downstream topology from - 1. Power Transformer 2. 11kV Outgoing Circuit Breaker (11kV feeder source) 3. Distribution Transformer 4. LT-ACB (LT-feeder source)		
LT Tools	Mapping Tools		
	Delete Service lines without consumers		

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Application Name	Description	Bidders Compliance	Remarks
	Update 'Substation Name' (or any set of common attribute) for elements within substation		
Direction Correction Tool	To correct the direction flow of the topology as per electrical rules and update "To" and "From" node.		
Templates	Single click digitization of Complex set of Features, like :		
	Manufacturer wise , Number of Bay wise RMUs		
	Capacity wise, Pole Mounted Transformers		
Asset Movement Tool	This application allows user to move Assets (DT, RMU, Switches etc.)- 1. From store to a location 2. From one location to other location 3. From one location to store		
Pole Related Tool	Automatic association of Equipment with Structures (Poles, Feeder Pillars, Substations etc.) as a joined relationship - based on spatial and attribute rules		
Consumer Mapping	To map consumers based on a user uploaded input file. Service Line to be generated automatically.		
WBS and GIS ID Search Tool	To list assets based on WBS Id, GIS Id, Notification No.		
Scheduled Reports - Overall	1. Grid-Feeder-DT-LT, Pole, Consumer Report)		
	2. Substation Wise Complete Report		
	3. Administrative Boundary Based Report		
Scheduled Reports -	Section MIS Reports (tentative list, more may be added)		
	1. DT-Pole-Consumer Report		
	2. Network Details		

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Application Name	Description	Bidders Compliance	Remarks
Section Wise MIS	NO_OF_33KV & 11KV_FEEDERS		
	LENGTH_OF_11KV_ABC_IN_MTRS		
	LENGTH_OF_11KV_OH_IN_MTRS		
	LENGTH_OF_11KV_UG_IN_MTRS		
	LENGTH_OF_440V_UG_IN_MTRS		
	LENGTH_OF_440V_OH_IN_MTRS		
	LENGTH_OF_440V_ABC_IN_MTRS		
	3. Category wise Summary and Details of Substations		
	4. Type wise, Capacity wise Summary and Details of Transformers		
	5. Type wise Summary and Details of RMUs		
6. Category wise Summary and Details of Poles			
Consumer MIS Tool	Takes consumers file as input and reports the comparative analysis with SQL consumer table.		
Sharing Map Link	Sharing the map-link for asset and Customer identification		
Meter reading Sequence	Planning effective sequencing of meter reading and bill delivery		
Analysis of Commercial Complaints	Help in Root Cause Analysis of commercial complaints in few scenarios		
Thematic Mapping	Thematic mapping for Analysis and reports		
Network LT QC	1. LT Verification QC based on feeder cut point and rising		
	2. QC for LT feeder connected to DT		
	3. QC for HT feeder connected to 11KV Source		

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Application Name	Description	Bidders Compliance	Remarks
	4. QC for secondary network from DT.		
	5. QC for pole and feeder pillar.		
	6. Domain discrepancy to be highlighted		

14.3 Web Application Requirements

Application	Description	Bidders Compliance	Remarks
Simple Search	To perform search on the Datasets/collections as per given attribute condition- 1) Land (Building, Administrative Boundary) 2) Electric (Transformer, Substation, Pole etc.) 3) CIS (Consumer)		
Search Multiple Consumers or Poles	To search on multiple consumers/poles on the basis of two or more inputs provided. 1) CA NO/INST_NO as comma separated values 2) Pole Number as comma separated values		
Search by ID	To search all objects on the basis of the following inputs (comma separated values)- 1) GIS ID 2) Notification No 3) WBS-ID		
Neighbouring DTs	To search and list all the In-service transformers on the basis of two parameters provided as input- 1) Building/Pole/Consumer [Transformer is to be found with		

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	electrical network connectivity basis] 2) Buffer area in meters.		
Neighbouring Consumers	To search and provide list of the Neighbouring consumers on the basis of two Parameters provided as the input- 1) CA_NO/INST_NO of the consumer. 2) Buffer area in meters.		
Trace Tools	Electrical Network Trace at various voltage levels		
Reports/MIS	Interface from Web to access the Scheduled reports generated from back-end		
Coordinate Search	To localize on a set of user input coordinates		
Coordinate Find	Right click on map to query and list coordinate		

14.4 Mobile Application requirements

Sr.No	Description	Bidder Compliance	Remark
1	OS	Shall work on latest Android / iOS	
2	Compatibility	Shall be compatible with all mobile sizes and shall work in online and offline mode	
3	Maps	To view base map and network assets, retrieve attribute information	
4	Simple Search	To perform search on the Datasets/collections as per given attribute condition-	
		1) Land (Building, Administrative Boundary.)	
		2) Electric (Transformer, Substation, Pole etc.)	
		3) CIS (Consumer)	
		4) GIS ID	
5	Coordinate Find	Right click on map to query and list coordinate	
6	Basic GIS functionalities	Functionalities like length measurement, area measurement, book mark etc...	
7	Data collection facilities	Facility to create basic checklist and allocate to mobile users for field data collection, prepopulating of data	
9	Security	Only authorised users shall access the application and solution should be cyber security compliant	

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15. Integrated Business Process Requirement

Sr no	Module Name	Activity	Description	From	To
1	Access & Authentication	Single Sign on integration	Single Sign on Application	GIS	SSO
2	Asset Management	New/Modify / Delete Asset operation (TECO) for Equipment & Material	ERP shall push Equipment to GIS - based on Scheme No.	ERP	GIS
3	Asset Management	Sync Equipment Location reference (GIS ID) to ERP	GIS shall push GIS-ID to ERP based on Equipment-ID	GIS	ERP
4	Asset Management	Sync Financial Asset ID to GIS	ERP shall push Asset attributes to GIS - based on Equipment-ID	ERP	GIS
5	Connection Management (Data Capture)	Location of consumer is to be captured during installation of meter.	GIS Network map to be available to meter installation crew to capture coordinates. The coordinates captured shall sync to CRM	GIS	ERP/CRM
6	Connection Management (Data Sync)	New & Modified Consumer details update.	ERP shall send Consumer master details (including coordinates) for new	ERP/CRM	GIS

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			connection and update		
7	Connection Management (Data Sync)	Update of Consumer Arrears, Average Consumption in GIS (Daily)	ERP CRM shall provide Consumer Arrears and Average Consumption to GIS.	ERP/CRM	GIS
8	Connection Management (Commercial Feasibility)	To Check the Commercial Feasibility - ERP will pass the Building ID to GIS and GIS will show the consumer arrears.	ERP shall pass the Building ID to GIS and GIS shall show the consumer arrears.	ERP-CRM	GIS
9	Technical Feasibility	Consumer shifting from one DT to another. ERP will pass the BP Nos. of LT consumers and Old & New Network details (DT/FDR/SS etc.)	ERP shall pass Consumer details to GIS	ERP-CRM-NSC	GIS
10	Energy Audit	Pass consumer details to ERP (DT code, Feeder ID,, Consumer Ref. No.)	GIS shall sync incremental Consumer details after any in DT-Consumer hierarchy.	GIS	ERP/EA module
11	Operations Management	Update of Network modification	GIS shall synchronize CIM based network and asset topology with ADMS	GIS	SCADA

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12	Operations Management	To mark new changes of network on portal or mobile application for GIS updating(Redlining) with task creation Mobility solution: Light weight app for map-supported survey Or Comprehensive GIS enabled mobility solution for which need to quote as a line item.	Network (redline) and attribute update from field to GIS		
13	Consumer Operations Management	To capture location of new consumer (Building ID /LAT-Long) in meter installation form	Consumer and meter attribute update from field to GIS and ERP	Mobile Client/GIS	Mobile Client/GIS

16. Quality Assurance Compliance

In the bid response, the bidder shall clearly propose the Quality Assurance procedure. It shall indicate following parts / activities inclusive of but not limited to:

- Test Plan
- Generation of test cases / scenarios
- Roles and responsibilities (both Utility & bidder teams) for testing from bidder and utility side
- Procedure to attend to problem reports and mitigation plan
- Estimated cycles of testing
- Formats for sign off

The go-live will be done only after the system has been tested to end user satisfaction and all test reports signed off.

16.1 Performance Compliance

GIS Application response times are required of at least:

Functionality	Compliance
Schematic presentation with required filters on network components within 10 seconds	
Load background map from Map Server located at data centre within 5 seconds (for a case of single user) to 15 seconds (for peak load condition, i.e. maximum concurrent users)	
Load High/Low-voltage network on top of background map within 5 seconds (for a case of single user) to 10 seconds (for peak load condition, i.e. maximum concurrent users)	
View properties after loading of schematics within 3 seconds	
Saving changes in Customer & network entities (Add/Delete/Edit) in Geo database within 2 seconds (for a case of single user) to 5 seconds (for peak load condition, i.e. maximum concurrent users)	
Simple query within 5 seconds (for a case of single user) to 20 seconds for peak load condition, i.e. maximum concurrent users)	
Multiple/Complex query within 10 seconds (for a case of single user) to 30 seconds (for peak load condition, i.e. maximum concurrent users)	

17. Time Schedule, Payment Terms and Penalty Clause

17.1 Time Schedule

1. The key activities of the complete project are given below. This is the indicative list where successful bidder has to fill the column “time taken by them for completing of each activity.
2. Time schedule shall be submitted in technical bid.
3. Successful bidder can provide the detailed time schedule separately but filling of this format is mandatory.
4. Compliance of the project shall be monitored through this time schedule and all payment; penalty shall be linked to the same.
5. Date of 1st activity shall be started from the date of placement of LOI/order
6. Vendor must provide Warranty/Post Implementation Support of 1 year after go live.

Sr.No.	Activity	Expected Completion time period	Payment	Remark	Time proposed by vendor for completing each activity
1	SRS and data Modelling Documentation preparation and Submission to TPCODL	1 st to 2 rd month	10%		
2	Hardware, Software Installation, Configuration and Readiness of GIS development environment at utilities premise	1 st to 2 rd month	10%		
3	Cut off Data Migration	2 nd to 3 rd month	10%		

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4	Migration of Custom Applications and Training to core team.	4 th to 5 th month	10%		
5	Reconfigure / Integration with SAP ISU, ERP, Energy Audit ,CRM, NA, MDAS	4 th to 5 th month	10%		
6	Integration with SCADA	4 th to 5 th month	5%		
7	Out of Box Mobile Application Configuration	4 th to 5 th month	5%		
8	User Acceptance Testing (UAT) or System Acceptance Testing & Deployment (Production Rollout and declare GO Live)	5 th to 6 th month	10%		
9	Documentations/user manual	5 th to 6 th month	10%		
10	Performance Testing & Web Security Testing	5 th to 6 th month			
11	Training	5 th to 6 th month			
12	Warranty/Post implementation support after production rollout (1 year after Go-live and successful handover)	7 th to 18 th month	20%		
13	Annual Maintenance Contract – 4 years after the end of warranty period.	19 th Month to 66 th Month	25% on quarterly basis in arrears		

17.2 Penalty clause

Successful bidder, if fails to complete works as per the schedule specified in the RFP, the successful bidder shall pay to the TPCODL as a penalty, which is calculated at the rate of one half percent (0.5%) of total order value for each week or part thereof of delay in the completion of the works subject to a maximum of ten percent (10%) of order value.

18. Inspection & Testing

1. The Successful bidder shall provide a complete test procedure of the system. Besides the system shall function as per specification as spelt in the above sections.
2. Tests shall be performed at the TPCODL premises with the system assembled with all parts integrated.
3. The Successful bidder shall also arrange the Media, Documentation and Software Licenses required for the testing during the testing period wherever applicable.

18.1 Acceptance of Module

After the successful commissioning of each module, the application shall be tested by user along with the vendor to ensure the coverage, reliability, control and performance. The vendor shall demonstrate all the features of the software package to user who shall use the package thereafter to ensure performance without any software error/bugs. The module will be tested by simulating the various conditions (illegal and abnormal conditions shall also be given to check stress capability of the software). In case any gap is identified with respect to functionality or technicalities the same shall be documented. Successful bidder shall fix up the bug and again complete process of acceptance testing shall be carried out.

1. Module acceptance shall be treated final after signing off by users.
2. No additional time and cost shall be applicable for fixing up functionalities.

18.2 Acceptance of the Application

1. The same procedure as described for module testing shall be followed.
2. The TPCODL core team shall provide a sign-off of acceptance to the vendor after successful completion of the acceptance test of application.

18.3 Performances and Guarantee Test

1. On completion of installation of the system by the Successful bidder and before commissioning, each item of the System shall be thoroughly inspected jointly by the TPCODL and the Successful bidder for correctness and completeness of installation and acceptability for startup.
2. The Successful bidder shall conduct performance and guarantee test within 30 days or as mutually agreed after successful installation and commissioning of the Computer System. This test shall include testing of all modules, applications, integration individually for the acceptance level of various parameters for system reliability, availability and maintainability.
3. The Successful bidder shall include a comprehensive write up to cover the performance test as proposed to be conducted. The intent of the performance shall be to demonstrate that the system performs all the functions of hardware and software (as indicated in the sections) correctly and reliably. The write up/ procedure for performance test shall be subjected to TPCODL's approval.
4. The successful bidder shall give a specific response time for a given number of concurrent users as given by the utility with respect to the server sizing and optimized communication network. This shall be approved by the TPCODL.

19. Abbreviations

NAME	DESCRIPTION
TPCODL	The TATA Power Central Odisha Distribution Company Limited
RFP	Request for Proposal
EGIS	Enterprise Geographic Information System
ERP	Enterprise Resource Planning
CRM	Customer Relationship Management
SCADA	Supervisory Control And Data Acquisition
EMS	Energy Management System
DMS	Distribution Management System
DAS	Distribution Automation System
SRS	System Requirement Specifications
GUI	Graphical User Interface
RDBMS	Relational Database Management System
IPR	Intellectual Property Right
API	Application Peripheral Interface
GCC	General Condition of Contract
NDA	Non-Disclosure Agreement
NOC	No Objection Certificate

20. List of Annexure

Annexure- 1: License details of existing BOQ under RAPDRP

Annexure- 2: Data Model TPCODL

Annexure- 3: List of Applications Compliance as per RAPDRP SRS

Annexure- 4: GIS Integration with other modules details

Annexure- 5: Post Implementation SLA

Note: Bidders to refer RAPDRP SRS (64 of G2) of Standard Document

ANNEXURE- 1
LICENSE DETAILS OF EXISTING BOQ UNDER RAPDRP

To
 Chief Project Manager (PMU)
 Central Electricity Supply Utility of Odisha,
 3rd Floor, IDCO Towers, Janpath, Bhubaneswar - 751022.

17/02/2017

Subject: GIS Software & Licenses supply for Department of Energy, Government of Odisha

Dear Sir,

This has reference to R-APDRP Part A - IT project implementation at CESU by M/s L&T Limited (SI) & M/s ADCC Infocad Ltd (GSP). Following GIS software's & its licenses are supply by ESRI India Technologies Ltd. for 'Department of Energy, Government of Odisha'.

Sl. No.	Software Product	Core	Version	Quantity
1	ArcGIS for Server Enterprise Advanced with Schematics, Network Analyst, 3D Analyst, Spatial Analyst, and Geostatistical Analyst Server Extensions	4	10.2.1	2
2	ArcGIS for Server Enterprise Standard	4	10.2.1	1
3	ArcGIS Desktop Standard	n/a	10.2.1	10
4	ArcGIS Desktop Extension : Data Interoperability	n/a		1
5	ArcGIS Desktop Extension : Network Analyst	n/a		3
6	ArcGIS Desktop Extension : Schematics	n/a		3
7	ArcFM Server	n/a	10.2.1c	3
8	ArcFM Desktop	n/a	10.2.1c	10
9	ArcFM Network Adaptor	n/a		1
10	ArcFM Conduit Manager	n/a		1

Thanking you and assuring you of our best services at all times.

Cc: 1. M/s L&T Limited.
 2. M/s ADCC Infocad Ltd.

Regards,

Mayuri Bhattacharya
 Regional Technical Lead, Eastern Region

Esri India Technologies Ltd.

(erstwhile NIIT GIS Ltd.)

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 T: +91 33 4072 4446, 4072 4463 | F: +91 33 2324 7713 | E: kolkata@esriindia.com | W: esriindia.com

Regd. Office: 8, Balaji Estate, 1st Floor, Guru Ravi Das Marg, Kalkaji, New Delhi-110019 India | T: +91 11 41675000 | F: +91 11 41407120
 CIN: U74140DL1996PLC080487

ANNEXURE- 2
DATA MODEL TPCODL

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 Boundary
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	Subdivision Boundary
15	Sub-Grid
16	Water body (Polygon)
17	Water body (Linear)
18	Zone Boundary
19	Section Boundary
20	Ward Boundary
21	PIN Code Boundary
22	District Boundary
23	Locality
24	Census Boundary
25	State Boundary
26	Village Boundary

SR	Network Asset (Object Name)	Feature Class (Alias Name)	Geometry	Field Name in Database	Alias Name	Domain Description Value	Domain Code Value	Data Type	Length	Mandatory Field	Remarks
1	Substation	Substation	Polygon	OBJECTID	Object ID			Int		System Field	
2	Substation	Substation	Polygon	Name	Name			Text	250	YES	
3	Substation	Substation	Polygon	SubstationCode	Substation Code			Text	5	YES	
4	Substation	Substation	Polygon	GISID	GIS ID			Text	50		
5	Substation	Substation	Polygon	NIN	NIN			Text	50		
6	Substation	Substation	Polygon			Distribution Station	0				
7	Substation	Substation	Polygon			Switching Station	1	short Integer		YES	
8	Substation	Substation	Polygon	SubType	SubType	Substation	2				
9	Substation	Substation	Polygon			Transmission Substation	3				
10	Substation	Substation	Polygon	Address	Address			Text	250	YES	
11	Substation	Substation	Polygon	SubstationLocation	Substation Location	Indoor	1	short Integer			
12	Substation	Substation	Polygon			Outdoor	2				
13	Substation	Substation	Polygon	DistributionUtilityProperty	Distribution Utility Property	Yes	Yes	Text	3	YES	
14	Substation	Substation	Polygon			No	No				
15	Substation	Substation	Polygon			11 kV	340			YES	
16	Substation	Substation	Polygon			22 kV	360				
17	Substation	Substation	Polygon			33 kV	380				
18	Substation	Substation	Polygon	PrimaryVoltage	Voltage (Primary) in KV	66 kV	80	short Integer			
19	Substation	Substation	Polygon			100 kV	90				
20	Substation	Substation	Polygon			132 kV	110				
21	Substation	Substation	Polygon			220 kV					
22	Substation	Substation	Polygon			400 kV	260				
23	Substation	Substation	Polygon			0.24 kV	160			YES	
24	Substation	Substation	Polygon			0.43 kV	210				
25	Substation	Substation	Polygon			11 kV	340				
26	Substation	Substation	Polygon			22 kV	360				
27	Substation	Substation	Polygon			33 kV	380	short Integer			
28	Substation	Substation	Polygon			66 kV	80				
29	Substation	Substation	Polygon			100 kV	90				
30	Substation	Substation	Polygon			132 kV	110				
31	Substation	Substation	Polygon			02	01			YES	
32	Substation	Substation	Polygon			02	02				
33	Substation	Substation	Polygon			03	03				
34	Substation	Substation	Polygon			04	04				
35	Substation	Substation	Polygon			05	05				
36	Substation	Substation	Polygon			06	06				
37	Substation	Substation	Polygon			07	07				
38	Substation	Substation	Polygon			08	08				
39	Substation	Substation	Polygon			09	09				
40	Substation	Substation	Polygon			10	10				
41	Substation	Substation	Polygon			11	11				
42	Substation	Substation	Polygon			12	12				
43	Substation	Substation	Polygon	NoofIncomingFeeder	Number of Incoming Feeds	13	13	short Integer			
44	Substation	Substation	Polygon			14	14				
45	Substation	Substation	Polygon			15	15				
46	Substation	Substation	Polygon			16	16				
47	Substation	Substation	Polygon			17	17				
48	Substation	Substation	Polygon			18	18				
49	Substation	Substation	Polygon			19	19				
50	Substation	Substation	Polygon			20	20				
51	Substation	Substation	Polygon			21	21				
52	Substation	Substation	Polygon			22	22				
53	Substation	Substation	Polygon			23	23				
54	Substation	Substation	Polygon			24	24				
55	Substation	Substation	Polygon			25	25				
56	Substation	Substation	Polygon			01	01			YES	
57	Substation	Substation	Polygon			02	02				
58	Substation	Substation	Polygon			03	03				
59	Substation	Substation	Polygon			04	04				
60	Substation	Substation	Polygon			05	05				
61	Substation	Substation	Polygon			06	06				
62	Substation	Substation	Polygon			07	07				
63	Substation	Substation	Polygon			08	08				
64	Substation	Substation	Polygon			09	09				
65	Substation	Substation	Polygon			10	10				
66	Substation	Substation	Polygon			11	11				
67	Substation	Substation	Polygon			12	12				
68	Substation	Substation	Polygon	NoofOutgoingFeeder	Number of Outgoing Feeds	13	13	short Integer			
69	Substation	Substation	Polygon			14	14				
70	Substation	Substation	Polygon			15	15				
71	Substation	Substation	Polygon			16	16				
72	Substation	Substation	Polygon			17	17				
73	Substation	Substation	Polygon			18	18				
74	Substation	Substation	Polygon			19	19				
75	Substation	Substation	Polygon			20	20				
76	Substation	Substation	Polygon			21	21				
77	Substation	Substation	Polygon			22	22				
78	Substation	Substation	Polygon			23	23				
79	Substation	Substation	Polygon			24	24				
80	Substation	Substation	Polygon			25	25				
81	Substation	Substation	Polygon	AllInComingFeederName	Name of All Incoming Feeder			Text	250	YES	
82	Substation	Substation	Polygon	AllOutGoingFeederName	Name of All Outgoing Feeder			Text	250	YES	
83	Substation	Substation	Polygon	DateOfCommissioning	Date Of Commissioning			Date	DD/MM/YYYY	YES	
84	Substation	Substation	Polygon	TotalCapacityInMVA	Total Capacity in MVA			Text	10	YES	
85	Substation	Substation	Polygon	NoofPowerTransformer	Number Of Power Transformers			short Integer	10	YES	
86	Substation	Substation	Polygon	MaximumDemand	Maximum Demand			Text	10		
87	Substation	Substation	Polygon	EarthMatWithResistance	Status of Earth Mat With Resistance			Text	10		
88	Substation	Substation	Polygon	Cost	Cost			Text	10		
89	Substation	Substation	Polygon	EquipmentID	Equipment ID			Long Integer			
90	Substation	Substation	Polygon	SAPID	SAP ID			Text	50		
91	Substation	Substation	Polygon	WorkOrderID	Work Order ID			Text	50	Integration Field	
92	Substation	Substation	Polygon	SurveyorRemark	Surveyor Remark			Text	250		
93	Substation	Substation	Polygon			BRIT COLONY	1111			YES	
94	Substation	Substation	Polygon			DELTA	1112				
95	Substation	Substation	Polygon			POWER HOUSE-1	1113				
96	Substation	Substation	Polygon			UNIT-6	1114				
97	Substation	Substation	Polygon			POWER HOUSE-2	1115				
98	Substation	Substation	Polygon			KARVEL NAGAR	1121				
99	Substation	Substation	Polygon			UNIT-1	1122				
100	Substation	Substation	Polygon			UNIT-2	1123				
101	Substation	Substation	Polygon			UNIT-4	1124				
102	Substation	Substation	Polygon			BOARD COLONY	1131				
103	Substation	Substation	Polygon			SAHID NAGAR	1132				
104	Substation	Substation	Polygon			UNIT-9 FLAT	1133				
105	Substation	Substation	Polygon			BARAGADA	1221				
106	Substation	Substation	Polygon			BHARATPUR	1211				
107	Substation	Substation	Polygon			DUMUDUMA	1212				
108	Substation	Substation	Polygon			KALINGANAGAR	1213				
109	Substation	Substation	Polygon			KHANDGIRI S/O	1214				
110	Substation	Substation	Polygon			BARAGADA	1221				
111	Substation	Substation	Polygon			IRC NAYAPALLI	1222				
112	Substation	Substation	Polygon			VSS NAGAR	1223				
113	Substation	Substation	Polygon			XAVIER	1224				
114	Substation	Substation	Polygon			BARANG	1231				
115	Substation	Substation	Polygon			CS PUR-1	1232				
116	Substation	Substation	Polygon			CS PUR-2	1233				
117	Substation	Substation	Polygon			GODSAHI	1234				
118	Substation	Substation	Polygon			KANANNIHAR	1235				
119	Substation	Substation	Polygon			KALPANA-1	1311				
120	Substation	Substation	Polygon			KALPANA-2	1312				
121	Substation	Substation	Polygon			LAXMISAGAR	1313				
122	Substation	Substation	Polygon			MANCHESWAR	1314				
123	Substation	Substation	Polygon			PHULNAKHARA	1315				
124	Substation	Substation	Polygon			RASULGARRH S/O	1316				
125	Substation	Substation	Polygon			BARAGADA	1321				
126	Substation	Substation	Polygon			DHAULI	1322				
127	Substation	Substation	Polygon			OLD TOWN-1	1323				
128	Substation	Substation	Polygon			OLD TOWN-2	1324				
129	Substation	Substation	Polygon			OLD TOWN-3	1325				
130	Substation	Substation	Polygon			UTTARA	1326				
131	Substation	Substation	Polygon			ASTARANG	1411				
132	Substation	Substation	Polygon			KAKATPUR-1	1412				
133	Substation	Substation	Polygon			KAKATPUR-2	1413				

269	Substation	Substation	Polygon
270	Substation	Substation	Polygon
271	Substation	Substation	Polygon
272	Substation	Substation	Polygon
273	Substation	Substation	Polygon
274	Substation	Substation	Polygon
275	Substation	Substation	Polygon
276	Substation	Substation	Polygon
277	Substation	Substation	Polygon
278	Substation	Substation	Polygon
279	Substation	Substation	Polygon
280	Substation	Substation	Polygon
281	Substation	Substation	Polygon
282	Substation	Substation	Polygon
283	Substation	Substation	Polygon
284	Substation	Substation	Polygon
285	Substation	Substation	Polygon
286	Substation	Substation	Polygon
287	Substation	Substation	Polygon
288	Substation	Substation	Polygon
289	Substation	Substation	Polygon
290	Substation	Substation	Polygon
291	Substation	Substation	Polygon
292	Substation	Substation	Polygon
293	Substation	Substation	Polygon
294	Substation	Substation	Polygon
295	Substation	Substation	Polygon
296	Substation	Substation	Polygon
297	Substation	Substation	Polygon
298	Substation	Substation	Polygon
299	Substation	Substation	Polygon
300	Substation	Substation	Polygon
301	Substation	Substation	Polygon
302	Substation	Substation	Polygon
303	Substation	Substation	Polygon
304	Substation	Substation	Polygon
305	Substation	Substation	Polygon
306	Substation	Substation	Polygon
307	Substation	Substation	Polygon
308	Substation	Substation	Polygon
309	Substation	Substation	Polygon
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403	Substation	Substation	Polygon

BHUBAN	4141
K NAGAR	4142
KALAPANI	4143
KANKADA HADA	4144
M K GOLA	4145
R N PUR	4146
ANGUL-NO-1	4211
ANGUL-NO-2	4212
ANGUL-NO-3	4213
BANTALA	4214
BOINDA SEC OFF	4221
BAMUR	4222
ATHAMALLIK	4223
CHHENDIPADA	4231
JARPADA	4232
KOSALA	4233
BANKRAL	4311
CHAINPAL SEC OFF	4312
MERAMANDALI	4313
KHAMARA	4321
PALLAHARA SEC OFF	4322
PARBI	4323
RENGALI	4324
PARJANG-1	4331
PARJANG-2	4332
HATATOTA	4341
KANIYA	4342
SAMALA	4343
SOUTH BALANDA	4344
TALCHER SEC OFF	4345
AUL SEC OFF	5111
BHUNIPUR	5112
GLAVER	5113
RAIKANIK	5114
CHHATA	5121
DANPUR	5122
HINDAPUR	5123
KENDRAPARA-1	5124
KENDRAPARA-2	5125
KENDRAPARA-3	5126
DANDISAH	5131
PATRAPUR	5132
PATTAMUNDAI-1	5133
PATTAMUNDAI-2	5134
PATTAMUNDAI-3	5135
RAINAGAR-1	5141
RAINAGAR-2	5142
TALACHUA	5143
BABAR	5211
LUNA	5212
MAHAKALAPADA	5213
GASDAPUR	5221
KORJA	5222
MARSHAGHAI S/D	5223
NUAPADA	5224
BALIKUDA-1	5311
BALIKUDA-2	5312
NAUGAON	5313
DHIASAH	5321
J S PUR-1	5322
J S PUR-2	5323
MANASAH	5324
BIRDI	5331
RAGHUNATHPUR S/O	5332
CHATUA	5411
KUJANG	5412
RAKAMA	5413
BHUTAMUNDAI	5421
PARADEEP SEC OFF	5422
ERSAMA	5431
KOLAR	5432
BIRDI	5433
SUB DIVISION-1,BBSR	1110
SUB DIVISION-2,BBSR	1120
SUB DIVISION-3,BBSR	1130
KHANDAGIRI	1210
NAYAPALLI	1220
PERIPHERI	1230
RASULGARH	1310
TEMPLE	1320
KAKATPUR	1410
NIMAPARA	1420
PIPLI	1430
BANKI	2110
BEGUNIA	2120
JANKA	2130
JATNI	2140
KHURDA	2150
DASPALLA	2210
ITAMATI	2220
KHANDAPADA	2230
NAYAGARH	2240
BALLGAGAN	2310
TANGI	2320
PURI-1	2410
PURI-2	2420
PURI-3	2430
SAKHGOPAL	2440
SUB DIVISION-1,CTC	3110
SUB DIVISION-3,CTC	3120
SUB DIVISION-4,CTC	3130
SUB DIVISION-6,CTC	3140
BADAMBADI	3210
JOBRA	3220
MAHANADIVIHAR	3230
BADACHANA	3310
CHOUHDWAR	3320
GOPALPUR	3330
NIALI	3340
NARASINGPUR	3410
ATHAGADA	3420
MAHANGA	3510
N KOILI	3520
SALPUR	3530
DHEKANAL	4110
GONDIA	4120
HINDOL ROAD	4130
KAMAKHYA NAGAR	4140
ANGUL	4210
BOINDA	4220
CHHENDIPADA	4230
CHAINPAL	4310
PALLAHARA	4320
PARJANG	4330
TALCHER	4340
AUL	5110
KENDRAPARA	5120
PATTAMUNDAI	5130
RAINAGAR	5140
MAHAKALAPADA	5210
MARSHAGHAI	5220
BALIKUDA	5310
JAGATSIKPUR	5320
RAGHUNATHPUR	5330
KUJANGA	5410

YES

Subdivision

Subdivision

Text

14

539	Power Transformer	Power Transformer	Point	Earthing	Earthing	Yes	Yes		Text	20		YES
540	Power Transformer	Power Transformer	Point			No	No					
541	Power Transformer	Power Transformer	Point	TemperatureRise	Temperature Rise	Oil (Degree Centigrade)	Oil		Text	27		YES
542	Power Transformer	Power Transformer	Point			winding (Degree Centigrade)	winding					
543	Power Transformer	Power Transformer	Point	NCTStatus	NCT Status				Text	50		
544	Power Transformer	Power Transformer	Point	PercentageLoading	Percentage Loading				Text	50		
545	Power Transformer	Power Transformer	Point	RatedHVCurrentFC	Rated HV Current FC				Text	50		
546	Power Transformer	Power Transformer	Point	RatedLVCurrentNC	Rated LV Current NC				Text	50		
547	Power Transformer	Power Transformer	Point	RatedLVCurrentFC	Rated LV Current FC				Text	50		
548	Power Transformer	Power Transformer	Point	RatedLVCurrentNC	Rated LV Current NC				Text	50		
549	Power Transformer	Power Transformer	Point	NumberOfFans	Number Of Fans				Text	50		YES
550	Power Transformer	Power Transformer	Point	LifeSpan	Life Span				Text	50		
551	Power Transformer	Power Transformer	Point	AmbientTemperature	Ambient Temperature				Text	50		
552	Power Transformer	Power Transformer	Point	MeterID	Meter ID				Text	50		
553	Power Transformer	Power Transformer	Point	WeightOfOil	Weight of Oil				Text	50		
554	Power Transformer	Power Transformer	Point	OilQuantity	Oil Quantity				Text	50		
555	Power Transformer	Power Transformer	Point	LastDateOfFiltration	Last Date Of Filtration				Date	DDMMYYYY		YES
556	Power Transformer	Power Transformer	Point	TransformerWeight	Transformer Weight				Text	50		
557	Power Transformer	Power Transformer	Point	WeightCoreWinding	Weight Core and Winding				Text	50		
558	Power Transformer	Power Transformer	Point	ElectricStationName	Electric Station Name				Text	50		
559	Power Transformer	Power Transformer	Point	TapLocation	Tap Location	Primary	1		Text	9		YES
560	Power Transformer	Power Transformer	Point			Secondary	2					
561	Power Transformer	Power Transformer	Point			Tertiary	3					
562	Power Transformer	Power Transformer	Point	Configuration	Configuration	High Side Configuration	High Side Configuration		Text	23		YES
563	Power Transformer	Power Transformer	Point			Low Side Configuration	Low Side Configuration					
564	Power Transformer	Power Transformer	Point			Connected	1					YES
565	Power Transformer	Power Transformer	Point	ConnectionStatus	Connection Status	Disconnected	2		Text	12		
566	Power Transformer	Power Transformer	Point			Bypassed	3					
567	Power Transformer	Power Transformer	Point			Dismantle	4					
568	Power Transformer	Power Transformer	Point	Make	Make				Text	50		YES
569	Power Transformer	Power Transformer	Point	SerialNumber	Serial Number				Text	50		YES
570	Power Transformer	Power Transformer	Point	ManufacturingYear	Manufacturing Year				Text	4		YES
571	Power Transformer	Power Transformer	Point	DateOfCommissioning	Date Of Commissioning				Date	DDMMYYYY		YES
572	Power Transformer	Power Transformer	Point	LastMaintenanceDate	Last Maintenance Date				Date	DDMMYYYY		
573	Power Transformer	Power Transformer	Point	Warranty	Warranty				Text	50		
574	Power Transformer	Power Transformer	Point	JobNumber	Job Number				Text	50		
575	Power Transformer	Power Transformer	Point	Cost	Cost				Text	10		
576	Power Transformer	Power Transformer	Point	Impedance	Impedance				Text	50		YES
577	Power Transformer	Power Transformer	Point	MagnetizingCurrent	Magnetizing Current				Text	20		
578	Power Transformer	Power Transformer	Point	TotalLoss	Total Loss				Text	50		
579	Power Transformer	Power Transformer	Point			5 MVA	5					
580	Power Transformer	Power Transformer	Point			10 MVA	10					
581	Power Transformer	Power Transformer	Point	RatedPower	Rated Power	25 MVA	25					
582	Power Transformer	Power Transformer	Point			20 MVA	20					short Intenger
583	Power Transformer	Power Transformer	Point			50 MVA	50					
584	Power Transformer	Power Transformer	Point			100 MVA	100					
585	Power Transformer	Power Transformer	Point			50 MVA	50					
586	Power Transformer	Power Transformer	Point			5 MVA	5					
587	Power Transformer	Power Transformer	Point			10 MVA	10					
588	Power Transformer	Power Transformer	Point	RatedPowerONANinMVA	Rated Power ONAN in MVA	25 MVA	25					short Intenger
589	Power Transformer	Power Transformer	Point			20 MVA	20					
590	Power Transformer	Power Transformer	Point			100 MVA	100					
591	Power Transformer	Power Transformer	Point			100 MVA	100					
592	Power Transformer	Power Transformer	Point			Other	999					
593	Power Transformer	Power Transformer	Point	CODE	CODE				Text	14		YES
594	Power Transformer	Power Transformer	Point			BRIT COLONY	1111					YES
595	Power Transformer	Power Transformer	Point			DELTA	1112					
596	Power Transformer	Power Transformer	Point			POWER HOUSE-1	1113					
597	Power Transformer	Power Transformer	Point			UNIT-6	1114					
598	Power Transformer	Power Transformer	Point			POWER HOUSE-2	1115					
599	Power Transformer	Power Transformer	Point			KARVEL NAGAR	1121					
600	Power Transformer	Power Transformer	Point			UNIT-1	1122					
601	Power Transformer	Power Transformer	Point			UNIT-2	1123					
602	Power Transformer	Power Transformer	Point			UNIT-4	1124					
603	Power Transformer	Power Transformer	Point			BOARD COLONY	1131					
604	Power Transformer	Power Transformer	Point			SAHIB NAGAR	1132					
605	Power Transformer	Power Transformer	Point			UNIT FLAT	1133					
606	Power Transformer	Power Transformer	Point			UNIT-9 ROAD	1134					
607	Power Transformer	Power Transformer	Point			BHARATPUR	1211					
608	Power Transformer	Power Transformer	Point			DUMUDUMA	1212					
609	Power Transformer	Power Transformer	Point			KALINGANAGAR	1213					
610	Power Transformer	Power Transformer	Point			KHANDIGIRI S/O	1214					
611	Power Transformer	Power Transformer	Point			BARAMUNDA	1221					
612	Power Transformer	Power Transformer	Point			IRC NAYAPALLI	1222					
613	Power Transformer	Power Transformer	Point			VSS NAGAR	1223					
614	Power Transformer	Power Transformer	Point			XAVIER	1224					
615	Power Transformer	Power Transformer	Point			BARANG	1231					
616	Power Transformer	Power Transformer	Point			CS PUR-1	1232					
617	Power Transformer	Power Transformer	Point			CS PUR-2	1233					
618	Power Transformer	Power Transformer	Point			GODISAIH	1234					
619	Power Transformer	Power Transformer	Point			KANKANVIHAR	1235					
620	Power Transformer	Power Transformer	Point			KALPANA-1	1311					
621	Power Transformer	Power Transformer	Point			KALPANA-2	1312					
622	Power Transformer	Power Transformer	Point			LAXMISAGAR	1313					
623	Power Transformer	Power Transformer	Point			MANCHESWAR	1314					
624	Power Transformer	Power Transformer	Point			PHULANAKHARA	1315					
625	Power Transformer	Power Transformer	Point			RASILAGARH S/O	1316					
626	Power Transformer	Power Transformer	Point			BARAGADA	1321					
627	Power Transformer	Power Transformer	Point			DHAULI	1322					
628	Power Transformer	Power Transformer	Point			OLD TOWN-1	1323					
629	Power Transformer	Power Transformer	Point			OLD TOWN-2	1324					
630	Power Transformer	Power Transformer	Point			OLD TOWN-3	1325					
631	Power Transformer	Power Transformer	Point			UTTARA	1326					
632	Power Transformer	Power Transformer	Point			ASTARANG	1411					
633	Power Transformer	Power Transformer	Point			KAKATPUR-1	1412					
634	Power Transformer	Power Transformer	Point			KAKATPUR-2	1413					
635	Power Transformer	Power Transformer	Point			GOP	1421					
636	Power Transformer	Power Transformer	Point			KONARK	1422					
637	Power Transformer	Power Transformer	Point			NIMAPARA-1	1423					
638	Power Transformer	Power Transformer	Point			NIMAPARA-2	1424					
639	Power Transformer	Power Transformer	Point			BALAKATI	1431					
640	Power Transformer	Power Transformer	Point			BALPATNA	1432					
641	Power Transformer	Power Transformer	Point			BHARATIPUR	1433					
642	Power Transformer	Power Transformer	Point			PIPILI-1	1434					
643	Power Transformer	Power Transformer	Point			PIPILI-2	1435					
644	Power Transformer	Power Transformer	Point			BANKI-1	2111					
645	Power Transformer	Power Transformer	Point			BANKI-2	2112					
646	Power Transformer	Power Transformer	Point			BANKI-3	2113					
647	Power Transformer	Power Transformer	Point			BAGHAMARI	2121					
648	Power Transformer	Power Transformer	Point			BEGUNIA S/O	2122					
649	Power Transformer	Power Transformer	Point			KALAPATHAR	2123					
650	Power Transformer	Power Transformer	Point			RAISUNAKHALA	2124					
651	Power Transformer	Power Transformer	Point			JANKIA SEC OFF	2131					
652	Power Transformer	Power Transformer	Point			MALIPADA	2132					
653	Power Transformer	Power Transformer	Point			NIRAKARPUR	2133					
654	Power Transformer	Power Transformer	Point			HARIPUR	2141					
655	Power Transformer	Power Transformer	Point			JANLA	2142					
656	Power Transformer	Power Transformer	Point			JATANI-1	2143					
657	Power Transformer	Power Transformer	Point			JATANI-2	2144					
658	Power Transformer	Power Transformer	Point			KHURDA-1	2151					
659	Power Transformer	Power Transformer	Point			KHURDA-2	2152					
660	Power Transformer	Power Transformer	Point			KHURDA-3	2153					
661	Power Transformer	Power Transformer	Point			KHURDA-4	2154					
662	Power Transformer	Power Transformer	Point			DASPALLA	2211					
663	Power Transformer	Power Transformer	Point			GANNA	2212					
664	Power Transformer	Power Transformer	Point			NIJAGAON	2213					
665	Power Transformer	Power Transformer	Point			BOLAGARH	2221					
666	Power Transformer	Power Transformer	Point			ITAMATI-1	2222					
667	Power Transformer	Power Transformer	Point			ITAMATI-2	2223					
668	Power Transformer	Power Transformer	Point			BHAPUR-1	2231					
669	Power Transformer	Power Transformer	Point			BHAPUR-2	2232					
670	Power Transformer	Power Transformer	Point			KANTILO	2233					
671	Power Transformer	Power Transformer	Point			KHANDAPADA	2234					
672	Power Transformer	Power Transformer	Point			NAYAGARH	2241					
673	Power Transformer	Power Transformer	Point			ODAGAON-1	2242					

944	Power Transformer	Power Transformer	Point	StationFacilityIDFK	Station Facility ID FK			Text	50	System Field	
945	Power Transformer	Power Transformer	Point	CYMESubstationCode	CYME Substation Code			Text	5	System Field	
946	Power Transformer	Power Transformer	Point	SHAPE	Shape			Geometry	4	System Field	
947	TapChanger	Tap Changer	Point	OBJECTID	Object ID			Int		System Field	
948	TapChanger	Tap Changer	Point	Name	Name			Text	250		
949	TapChanger	Tap Changer	Point	GISID	GIS ID			Text	50		
950	TapChanger	Tap Changer	Point	NIN	NIN			Text	50		
951	TapChanger	Tap Changer	Point	FeederID	Feeder ID			Text	9	YES	Modify on 08.04.2021
952	TapChanger	Tap Changer	Point	FeederID2	Feeder ID2			Text	9		Modify on 08.04.2021
953	TapChanger	Tap Changer	Point	FeederName	Feeder Name			Text	50	YES	
954	TapChanger	Tap Changer	Point	InstalledLocation	Installed Location	Power Transformer	1	short Integer		YES	
955	TapChanger	Tap Changer	Point	LocationID	Location ID	Distribution Transformer (PW Code/DT Code)	2	Text	50	YES	
957	TapChanger	Tap Changer	Point	Type	Type	On Load	1	short Integer		YES	
958	TapChanger	Tap Changer	Point			Off Load	2				
959	TapChanger	Tap Changer	Point			0.11 kV	120			YES	
960	TapChanger	Tap Changer	Point			0.24 kV	160				
961	TapChanger	Tap Changer	Point			0.43 kV	210				
962	TapChanger	Tap Changer	Point			100 kV	90				
963	TapChanger	Tap Changer	Point			11 kV	340				
964	TapChanger	Tap Changer	Point			132 kV	110			short Integer	
965	TapChanger	Tap Changer	Point			22 kV	260				
966	TapChanger	Tap Changer	Point			33 kV	380				
967	TapChanger	Tap Changer	Point			66 kV	80				
968	TapChanger	Tap Changer	Point			220 kV	150				
969	TapChanger	Tap Changer	Point			400 kV	260				
970	TapChanger	Tap Changer	Point			Y	2			YES	
971	TapChanger	Tap Changer	Point			Y	2				
972	TapChanger	Tap Changer	Point			B	1				
973	TapChanger	Tap Changer	Point	Phasedesignation	Phase	RY	6	short Integer			
974	TapChanger	Tap Changer	Point			YB	3				
975	TapChanger	Tap Changer	Point			RB	6				
976	TapChanger	Tap Changer	Point			RYB	7				
977	TapChanger	Tap Changer	Point	MaximumStep	Maximum Step			Text	50		
978	TapChanger	Tap Changer	Point	MinimumStep	Minimum Step			Text	50		
979	TapChanger	Tap Changer	Point	AdoptedTap	Adopted Tap			Text	20		
980	TapChanger	Tap Changer	Point	NormalTapPosition	Normal Tap Position			Text	50		
981	TapChanger	Tap Changer	Point	CurrentRating	Current Rating			short Integer		YES	
982	TapChanger	Tap Changer	Point	ReverseLogic	Reverse logic			Text	50		
983	TapChanger	Tap Changer	Point	Make	Make			Text	50		
984	TapChanger	Tap Changer	Point	SerialNumber	Serial Number			Text	50		
985	TapChanger	Tap Changer	Point			BRIT COLONY	1111				
986	TapChanger	Tap Changer	Point			DELTA	1112			YES	
987	TapChanger	Tap Changer	Point			POWER HOUSE-1	1113				
988	TapChanger	Tap Changer	Point			UNIT-6	1114				
989	TapChanger	Tap Changer	Point			POWER HOUSE-2	1115				
990	TapChanger	Tap Changer	Point			KARVELI MAGAR	1121				
991	TapChanger	Tap Changer	Point			UNIT-1	1122				
992	TapChanger	Tap Changer	Point			UNIT-2	1123				
993	TapChanger	Tap Changer	Point			UNIT-4	1124				
994	TapChanger	Tap Changer	Point			BOARD COLONY	1131				
995	TapChanger	Tap Changer	Point			SHRID MAGAR	1132				
996	TapChanger	Tap Changer	Point			UNIT-9 FLAT	1133				
997	TapChanger	Tap Changer	Point			UNIT-9 ROAD	1134				
998	TapChanger	Tap Changer	Point			BHARATPUR	1211				
999	TapChanger	Tap Changer	Point			DUMJUDUMA	1212				
1000	TapChanger	Tap Changer	Point			KALINGAMAGAR	1213				
1001	TapChanger	Tap Changer	Point			KHANDAGIRI S/O	1214				
1002	TapChanger	Tap Changer	Point			BARAMUNDA	1221				
1003	TapChanger	Tap Changer	Point			IRC NAYAPALLI	1222				
1004	TapChanger	Tap Changer	Point			VSS MAGAR	1223				
1005	TapChanger	Tap Changer	Point			XAVIER	1224				
1006	TapChanger	Tap Changer	Point			BARANG	1231				
1007	TapChanger	Tap Changer	Point			CS PUR-1	1232				
1008	TapChanger	Tap Changer	Point			CS PUR-2	1233				
1009	TapChanger	Tap Changer	Point			GODDASHI	1234				
1010	TapChanger	Tap Changer	Point			KANKANIHAR	1235				
1011	TapChanger	Tap Changer	Point			KALPANA-1	1311				
1012	TapChanger	Tap Changer	Point			KALPANA-2	1312				
1013	TapChanger	Tap Changer	Point			LAXMISAGAR	1313				
1014	TapChanger	Tap Changer	Point			MANKCHESWAR	1314				
1015	TapChanger	Tap Changer	Point			PHULNANKHARA	1315				
1016	TapChanger	Tap Changer	Point			RASULGARH S/O	1316				
1017	TapChanger	Tap Changer	Point			BARAGADA	1321				
1018	TapChanger	Tap Changer	Point			DHAULI	1322				
1019	TapChanger	Tap Changer	Point			OLD TOWN-1	1323				
1020	TapChanger	Tap Changer	Point			OLD TOWN-2	1324				
1021	TapChanger	Tap Changer	Point			OLD TOWN-3	1325				
1022	TapChanger	Tap Changer	Point			UTTARA	1326				
1023	TapChanger	Tap Changer	Point			ASTARANG	1411				
1024	TapChanger	Tap Changer	Point			KAKATPUR-1	1412				
1025	TapChanger	Tap Changer	Point			KAKATPUR-2	1413				
1026	TapChanger	Tap Changer	Point			GOP	1421				
1027	TapChanger	Tap Changer	Point			KONARK	1422				
1028	TapChanger	Tap Changer	Point			NIMAPARA-1	1423				
1029	TapChanger	Tap Changer	Point			NIMAPARA-2	1424				
1030	TapChanger	Tap Changer	Point			BALAKATI	1431				
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1047	TapChanger	Tap Changer	Point			JATANI-1	2143				
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Section

Section

BALAFANDA	2411
KACHERI	2412
PASCHIMADWAR	2413
SWARGADWAR	2414
BRAHMAGIRI	2421
DELANGA	2422
KANAS	2423
SADAR	2424
SUNAMUHI	2425
CHARINALA	2431
GHODABAZAR	2432
POWER HOUSE	2433
TALABANIA	2434
CHANDANPUR	2441
SAKHIGOPAL-1	2442
SAKHIGOPAL-2	2443
SATKANAKYA	2444
BUXI BAZAAR	3111
COLLEGE SQUARE	3112
RANIHAT-1	3113
RANIHAT-2	3114
CITY	3121
GANESH GHAT	3122
KAZI BAZAAR	3123
TOWN HALL	3124
CANTONMENT	3131
CHANDNI CHOWK	3132
TINKONIA BAGICHA	3133
BIDANASI	3141
CDA	3142
TULSI PUR	3143
BADAMBAZI	3211
DOLAMUNDAI	3212
IND. ESTATE(OPP)	3213
MAUZA	3221
JAGAPUR	3222
JOBRA	3223
KANDARPUR	3224
KISHORNAGAR	3225
CHALLIAGANU	3231
MAHANADI VIHAR	3232
BADICHANVA	3311
BALICHANDRAPUR	3312
CHHATIA	3313
CHARBATIA	3321
CHOUDWAR-1	3322
CHOUDWAR-2	3323
ADASPUR	3331
BALKUDA	3332
GOBINDAPUR	3333
NIALI-1	3341
NIALI-2	3342
SITHALO	3343
BARAMBA	3411
KANPUR	3412
NARASINGPUR	3413
SECTON-4	3414
ATHAGADA-1	3421
ATHAGADA-2	3422
KHUNTUNI	3423
NUAPATNA	3424
LIGIRIA	3425
ERKANA	3511
KOTHAPADA	3512
MAHANGA SEC OFF	3513
ADURENWAR	3521
N KOLI	3522
GRIKANTA	3523
BAHUGRAM	3531
RALSINGUDA	3532
SALPUR-1	3533
SALPUR-2	3534
BHAPUR	4111
DKL SEC-1	4112
DKL SEC-2	4113
DKL SEC-3	4114
GHONDA SEC OFF	4121
JORANDA	4122
NIHAL PRASAD	4123
HINDOL	4131
HINDOL ROAD S/D	4132
KHALURIKATTA	4133
BHUBAN	4141
K NAGAR	4142
KALAPANI	4143
KANAKADI HADA	4144
M K COLA	4145
R N PUR	4146
ANGUL NO-1	4211
ANGUL NO-2	4212
ANGUL NO-3	4213
BANTALA	4214
BOINDA SEC OFF	4221
BAMUR	4222
ATHAMALLIK	4223
CHHENNDIPADA	4231
JARPADA	4232
KOSALA	4233
BANARPAL	4311
CHANDPAL SEC OFF	4312
MERAMANDALI	4313
KHAMARA	4321
PALLAHARA SEC OFF	4322
PARBIL	4323
RENGALI	4324
PARANG-1	4331
PARANG-2	4332
HATATOTA	4341
KANIHA	4342
SAMALA	4343
SOUTH BALANDA	4344
TALCHER SEC OFF	4345
AUL SEC OFF	5111
BHUIPUR	5112
OLAVER	5113
NAUKANIA	5114
CHHATA	5121
DANPUR	5122
INDUPUR	5123
KENDRAPARA-1	5124
KENDRAPARA-2	5125
KENDRAPARA-3	5126
DANDISAH	5131
PATRAPUR	5132
PATTAMUNDAL-1	5133
PATTAMUNDAL-2	5134
PATTAMUNDAL-3	5135
RAUNGAR-1	5141
RAUNGAR-2	5142
TALACHUA	5143
BARAB	5211
LUNA	5212
MAHAKALAPADA	5213
GARADAPUR	5221
KORUA	5222

Text

22

OBJECTID	Object ID	Object ID	System Field
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4319	Busbar	Busbar	Line	SCEquipmentIDFK	SG Equipment ID FK				Long Integer		System Field	
4320	Busbar	Busbar	Line	StationFacilityDFK	Station Facility ID FK				Text	50	System Field	
4321	Busbar	Busbar	Line	RMUFacilityDFK	RMU Facility ID FK				Text	50	System Field	
4322	Busbar	Busbar	Line	PillarFacilityDFK	Pillar Facility ID FK				Text	50	System Field	
4323	Busbar	Busbar	Line	CODE	CODE				Text	14	YES	
4324	Busbar	Busbar	Line	CYMESubstationCode	CYME Substation Code				Text	5		
4325	Busbar	Busbar	Line	SHAPE	Shape				Geometry	4	System Field	
4326	Busbar	Busbar	Line	MaterialCode	Material Code				Text	9	Integration Field	
4327	Busbar	Busbar	Line	ShapeLength	Shape Length						System Field	
4328	Busbar	Busbar	Line	SHAPE_STLength()	SHAPE_STLength()				Double		System Field	
4329	Busbar	Busbar	Line			New	New				Integration Field	
4330	Busbar	Busbar	Line	UpdationType	Updation Type	Modification	Modification		Text	12		
4331	Busbar	Busbar	Line			Delete	Delete					
4332	Meter	Meter	Point	OBJECTID	Object ID				Object ID		System Field	
4333	Meter	Meter	Point			Substation	1				YES	
4334	Meter	Meter	Point	InstalledLocation	Installed Location	Distribution Transformer	2			short Integer		
4335	Meter	Meter	Point			Pole	3					
4336	Meter	Meter	Point			HT Consumer	4					
4337	Meter	Meter	Point	Crossover	Crossover	Yes	Yes			Text	3	YES
4338	Meter	Meter	Point			No	No					
4339	Meter	Meter	Point			Feeder - Incomer	1				YES	
4340	Meter	Meter	Point			Feeder - Outgoing	2					
4341	Meter	Meter	Point			PowerTransformer - Primary	3			short Integer		
4342	Meter	Meter	Point	MeterInstalledCategory	Meter Installed Category	PowerTransformer - Secondary	4					
4343	Meter	Meter	Point			Distribution Transformer - Secondary	5					
4344	Meter	Meter	Point			LV Metering	6					
4345	Meter	Meter	Point			HV Metering	7					
4346	Meter	Meter	Point	LocationID	Location ID				Text	50	YES	
4347	Meter	Meter	Point	GISID	GIS ID				Text	50		
4348	Meter	Meter	Point	NIN	NIN				Text	50		
4349	Meter	Meter	Point			Electronic	0				YES	
4350	Meter	Meter	Point			Electronic Static	1					
4351	Meter	Meter	Point			Electronic Trivector	2			short Integer		
4352	Meter	Meter	Point	SubType	SubType	Mechanical	3					
4353	Meter	Meter	Point			Electro Mechanical	4					
4354	Meter	Meter	Point			Others	5					
4355	Meter	Meter	Point			Electrostatic mono vector	6					
4356	Meter	Meter	Point			Electrostatic Bi vector	7					
4357	Meter	Meter	Point	FeederID	Feeder ID				Text	9	YES	Modify on 08.04.2021
4358	Meter	Meter	Point	FeederID2	Feeder ID2				Text	9	YES	Modify on 08.04.2021
4359	Meter	Meter	Point	FeederName	Feeder Name				Text	50	YES	
4360	Meter	Meter	Point	MaximumDemand	Maximum Demand				Text	10		
4361	Meter	Meter	Point			Primary Meter		Primary Meter				
4362	Meter	Meter	Point	MeterCategory	Meter Category	Check Meter		Check Meter		Text	16	
4363	Meter	Meter	Point			Additional Meter		Additional Meter				
4364	Meter	Meter	Point			LT CT Operated		LT CT Operated			YES	
4365	Meter	Meter	Point			CT Operated		CT Operated				
4366	Meter	Meter	Point	Type	Type	HT Operated		HT Operated		Text	14	
4367	Meter	Meter	Point			W/C Meter		W/C Meter				
4368	Meter	Meter	Point			HTTV Meter		HTTV Meter				
4369	Meter	Meter	Point			Other		Other				
4370	Meter	Meter	Point			Ok		Ok			YES	
4371	Meter	Meter	Point			Hazy		Hazy				
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4373	Meter	Meter	Point			Burnt		Burnt				
4374	Meter	Meter	Point	MeterDisplayCondition	Meter Display Condition	Broken		Broken		Text	18	
4375	Meter	Meter	Point			CT Damage		CT Damage				
4376	Meter	Meter	Point			PT Damage		PT Damage				
4377	Meter	Meter	Point			Box Damage		Box Damage				
4378	Meter	Meter	Point			Cable Missing		Cable Missing				
4379	Meter	Meter	Point			Power Cable Damage		Power Cable Damage				
4380	Meter	Meter	Point	KwStatus	Kw	Yes	Yes	Yes		Text	3	
4381	Meter	Meter	Point			No	No	No				
4382	Meter	Meter	Point	KvarStatus	Kvar	Yes	Yes	Yes		Text	3	
4383	Meter	Meter	Point			No	No	No				
4384	Meter	Meter	Point	KvaStatus	Kva	Yes	Yes	Yes		Text	3	
4385	Meter	Meter	Point			No	No	No				
4386	Meter	Meter	Point	PowerFactor	Power Factor	Yes	Yes	Yes		Text	3	
4387	Meter	Meter	Point			No	No	No				
4388	Meter	Meter	Point			0.11 kv	120				YES	
4389	Meter	Meter	Point			0.24 kv	160					
4390	Meter	Meter	Point			0.43 kv	210					
4391	Meter	Meter	Point			100 kv	90					
4392	Meter	Meter	Point			11 kv	340					
4393	Meter	Meter	Point	Voltage	Voltage (KV)	132 kv	110			short Integer		
4394	Meter	Meter	Point			22 kv	360					
4395	Meter	Meter	Point			33 kv	380					
4396	Meter	Meter	Point			66 kv	80					
4397	Meter	Meter	Point			220 kv	150					
4398	Meter	Meter	Point			400 kv	260					
4399	Meter	Meter	Point	Ampere	Ampere				Text	50		
4400	Meter	Meter	Point			R	4				YES	
4401	Meter	Meter	Point			Y	2					
4402	Meter	Meter	Point			B	1					
4403	Meter	Meter	Point	Phasedesignation	Phase	RY	6			short Integer		
4404	Meter	Meter	Point			YB	3					
4405	Meter	Meter	Point			BB	5					
4406	Meter	Meter	Point			RYB	7					
4407	Meter	Meter	Point	kWhStatus	kWh				Text	3		
4408	Meter	Meter	Point	SerialNumber	Serial Number				Text	10	YES	
4409	Meter	Meter	Point			BENTEX LINGER SWITCHGEAR CC	BEN				YES	
4410	Meter	Meter	Point			Bharat Heavy Electricals Ltd	BHE					
4411	Meter	Meter	Point			Capital Meters Limited	CAP					
4412	Meter	Meter	Point			Elymer Electric Private Limited	ELY					
4413	Meter	Meter	Point			Himachal Energy Pvt. Ltd	HEL					
4414	Meter	Meter	Point			HPL Electric & Power Pvt. Ltd	HPL					
4415	Meter	Meter	Point			Indtech Switchgear & Controls (Delhi)	IND					
4416	Meter	Meter	Point			JAIPUR ELECTRONICS	JAI					
4417	Meter	Meter	Point			JUVAS	JUV					
4418	Meter	Meter	Point			Larsen & Toubro Limited	LNT					
4419	Meter	Meter	Point			Montal Limited	MON					
4420	Meter	Meter	Point			POWERTECH	POW					
4421	Meter	Meter	Point	Make	Make	Secure Meter Limited	SEC			Text	50	
4422	Meter	Meter	Point			Suzhou Power Meter Co.Ltd.	SUZ					
4423	Meter	Meter	Point			Visiontek Limited	VIS					
4424	Meter	Meter	Point			Havells	HAV					
4425	Meter	Meter	Point			GENUS Infrastructures	GEN					
4426	Meter	Meter	Point			GEC Alsthom	GEC					
4427	Meter	Meter	Point			Lands & Gyr	LNG					
4428	Meter	Meter	Point			JNJ Powercom	JNJ					
4429	Meter	Meter	Point			Palmohan	PAL					
4430	Meter	Meter	Point			AVON	AVO					
4431	Meter	Meter	Point			ZEN	ZEN					
4432	Meter	Meter	Point			ECE	ECE					
4433	Meter	Meter	Point			Other	OTH					
4434	Meter	Meter	Point	ManufacturingYear	Manufacturing Year				Text	4	YES	
4435	Meter	Meter	Point	DateOfCommissioning	Date Of Commissioning				Date	DD/MM/YYYY	YES	
4436	Meter	Meter	Point	LastMaintenanceDate	Last Maintenance Date				Date	DD/MM/YYYY		
4437	Meter	Meter	Point	Warranty	Warranty				Text	50		
4438	Meter	Meter	Point			20/5	20/5	20/5			YES	
4439	Meter	Meter	Point			25/5	25/5	25/5				
4440	Meter	Meter	Point			40/5	40/5	40/5				
4441	Meter	Meter	Point			50/5	50/5	50/5				
4442	Meter	Meter	Point			100/5	100/5	100/5				
4443	Meter	Meter	Point			150/5	150/5	150/5				
4444	Meter	Meter	Point			200/5	200/5	200/5				
4445	Meter	Meter	Point			300/5	300/5	300/5				
4446	Meter	Meter	Point			400/5	400/5	400/5				
4447	Meter	Meter	Point			500/5	500/5	500/5				
4448	Meter	Meter	Point			600/1	600/1	600/1				
4449	Meter	Meter	Point			600/5	600/5	600/5				
4450	Meter	Meter	Point			800/5	800/5	800/5				
4451	Meter	Meter	Point			1000/5	1000/5	1000/5				
4452	Meter	Meter	Point			1200/5	1200/5	1200/5				
4453	Meter	Meter	Point			1500/5	1500/5	1500/5				

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4854	Meter	Meter	Point
4855	Meter	Meter	Point
4856	Meter	Meter	Point
4857	Meter	Meter	Point
4858	Meter	Meter	Point

Subdivision

Division

Subdivision

Division

BANARPAL	4311
CHARNPAL SEC OFF	4312
MERAMANDALI	4313
KHAMARA	4321
PALLAHARA SEC OFF	4322
PARBL	4323
RENGALI	4324
PARJANG-1	4331
PARJANG-2	4332
HATATOTA	4341
KANHA	4342
SAMALA	4343
SOUTH BALANDA	4344
TALCHER SEC OFF	4345
AUL SEC OFF	5111
BHUINPUR	5112
OLIVER	5113
RAIKANIKA	5114
CHHATA	5121
DANPUR	5122
INDUPUR	5123
KENDRAPARA-1	5124
KENDRAPARA-2	5125
KENDRAPARA-3	5126
DANDISAH	5131
PATRAPUR	5132
PATTAMUNDAI-1	5133
PATTAMUNDAI-2	5134
PATTAMUNDAI-3	5135
RAINAGAR-1	5141
RAINAGAR-2	5142
TALACHUA	5143
BABAR	5211
LUNA	5212
MAHAKALAPADA	5213
GARADAPUR	5221
KORUA	5222
MARSHAGHAI S/D	5223
NUAPADA	5224
BALIKUDA-1	5311
BALIKUDA-2	5312
NAJAGAN	5313
DHASAH	5321
J S PUR-1	5322
J S PUR-2	5323
MANDASAH	5324
BIRDI	5331
RAGHUNATHPUR S/O	5332
CHATUA	5411
KUJANG	5412
RAHAMA	5413
BHUTAMUNDAI	5421
PARADEEP SEC OFF	5422
ERSAMA	5431
KOLAR	5432
TIRTOL	5433
SUB DIVISION-1,BBSR	1120
SUB DIVISION-2,BBSR	1120
SUB DIVISION-3,BBSR	1130
KHANDAGIRI	1210
NAYAPALLI	1220
PERIBHERI	1230
RASULGARH	1310
TEMPLE	1320
KAKATPUR	1410
NIMAPARA	1420
PRIPI	1430
BANKI	2110
BEGUNIA	2120
JANKIA	2130
JATNI	2140
KHURDA	2150
DASPALLA	2210
ITAMATI	2220
KHANDAPADA	2230
NAYAGARH	2240
BALJAGAN	2310
TANGI	2320
PURI-1	2410
PURI-2	2420
PURI-3	2430
SAKHIGOPAL	2440
SUB DIVISION-1,CTC	3110
SUB DIVISION-3,CTC	3120
SUB DIVISION-4,CTC	3130
SUB DIVISION-6,CTC	3140
BADAMBADI	3210
JOBRA	3220
MAHANADIVIHAR	3230
BADACHANA	3310
CHOUJWAR	3320
GOPALPUR	3330
NIALI	3340
NARASINGPUR	3410
ATHAGADA	3420
MAHANGA	3510
N KOLJ	3520
SALIPUR	3530
DHENKANAL	4110
GONDIA	4120
HINDOL ROAD	4130
KAMAKHYA NAGAR	4140
ANGUL	4210
BOINDA	4220
CHENDIPADA	4230
CHARNPAL	4310
PALLAHARA	4320
PARJANG	4330
TALCHER	4340
AUL	5110
KENDRAPARA	5120
PATTAMUNDAI	5130
RAINAGAR	5140
MAHAKALAPADA	5210
MARSHAGHAI	5220
BALIKUDA	5310
JAGTSINGPUR	5320
RAGHUNATHPUR	5330
KUJANGA	5410
PARADEEP	5420
TIRTOL	5430
BCDD-1	11
BCDD-2	12
BED	13
NED	14
KHD	21
NYED	22
BAED	23
PED	24
CDD-1	31
CDD-2	32
CED	33
AED	34
SED	35
DED	41

Text

Text

14

6

YES

YES

4859	Meter	Meter	Point			ANED	42							
4860	Meter	Meter	Point			DED	43							
4861	Meter	Meter	Point			KED-1	51							
4862	Meter	Meter	Point			KED-2	52							
4863	Meter	Meter	Point			JED	53							
4864	Meter	Meter	Point			PDP	54							
4865	Meter	Meter	Point			BBSR-1	1					YES		
4866	Meter	Meter	Point			BBSR-2	2							
4867	Meter	Meter	Point	Circle	Circle	CTC	3	Text	6					
4868	Meter	Meter	Point			DKL	4							
4869	Meter	Meter	Point			PDP	5							
4870	Meter	Meter	Point	zone	zone	TPCDL	1	Text	6		YES			
4871	Meter	Meter	Point			Connected	1	Text	12		YES			
4872	Meter	Meter	Point	ConnectionStatus	Connection Status	Disconnected	2							
4873	Meter	Meter	Point			Bypassed	3							
4874	Meter	Meter	Point			Dismantle	4							
4875	Meter	Meter	Point	DTCCode	DTC Code			Text	9		YES		Modify on 08.04.2021	
4876	Meter	Meter	Point	EquipmentID	Equipment ID			Long Integer						
4877	Meter	Meter	Point	SAPID	SAP ID			Text	50					
4878	Meter	Meter	Point	WorkOrderID	Work Order ID			Text	50		Integration Field			
4879	Meter	Meter	Point	SurveyorRemark	Surveyor Remark			Text	250					
4880	Meter	Meter	Point	LocationCodeX	Location Code X			Double			System Field			
4881	Meter	Meter	Point	LocationCodeY	Location Code Y			Double			System Field			
4882	Meter	Meter	Point	MMELECTRICTRACEWEIGHT	MM Electric Trace Weight			Long Integer			System Field			
4883	Meter	Meter	Point	FEEDERINFO	Feeder Info			Long Integer			System Field			
4884	Meter	Meter	Point	SHAPE	Shape			Geometry	4		System Field			
4885	Meter	Meter	Point	EASEquipment	EAS Equipment			Text	50					
4886	Meter	Meter	Point	DTEquipmentIDFK	DT Equipment ID FK			Long Integer			System Field			
4887	Meter	Meter	Point	SAPFunctionalLocation	SAP Functional Location			Text	50		Integration Field			
4888	Meter	Meter	Point	StationFacilityIDFK	Station Facility ID FK			Text	50		System Field			
4889	Meter	Meter	Point	CYMESubstationCode	CYME Substation Code			Text	5					
4890	Meter	Meter	Point	RMUFacilityIDFK	RMU Facility ID FK			Text						
4891	Meter	Meter	Point	ImportExportMeter		Yes	Yes	Text	3		System Field			
4892	Meter	Meter	Point			No	No	Text	3					
4893	Meter	Meter	Point			Main Meter	M	Text	50		YES			
4894	Meter	Meter	Point	EMeterType		Boundary Meter	B	Text	50					
4895	Meter	Meter	Point			Main Plus Boundary Meter	M+B	Text	50					
4896	Meter	Meter	Point	ConnectedtoBS				Text	10		YES			
4897	Meter	Meter	Point	ConnectedtoPW				Text	10		YES			
4898	Meter	Meter	Point			BBSR-1	11							
4899	Meter	Meter	Point			BBSR-2	12							
4900	Meter	Meter	Point	FromCircle	From Circle	CTC	13	Text	6					
4901	Meter	Meter	Point			DKL	14							
4902	Meter	Meter	Point			PDP	15							
4903	Meter	Meter	Point			BBSR-1	11							
4904	Meter	Meter	Point	ToCircle	To Circle	BBSR-2	12	Text	6					
4905	Meter	Meter	Point			CTC	13							
4906	Meter	Meter	Point			DKL	14							
4907	Meter	Meter	Point			PDP	15							
4908	Meter	Meter	Point			BCDD-1	1101							
4909	Meter	Meter	Point			BCDD-2	1102							
4910	Meter	Meter	Point			BED	1103							
4911	Meter	Meter	Point			NED	1104							
4912	Meter	Meter	Point			KHD	1201							
4913	Meter	Meter	Point			NYD	1202							
4914	Meter	Meter	Point			BAED	1203							
4915	Meter	Meter	Point			RED	1204							
4916	Meter	Meter	Point			CDD-1	1301							
4917	Meter	Meter	Point	FromDivision	From Division	CDD-2	1302	Text	6					
4918	Meter	Meter	Point			CED	1303							
4919	Meter	Meter	Point			AED	1304							
4920	Meter	Meter	Point			AED	1305							
4921	Meter	Meter	Point			DED	1401							
4922	Meter	Meter	Point			ANED	1402							
4923	Meter	Meter	Point			TED	1403							
4924	Meter	Meter	Point			KED	1501							
4925	Meter	Meter	Point			NED	1502							
4926	Meter	Meter	Point			JED	1503							
4927	Meter	Meter	Point			PDP	1504							
4928	Meter	Meter	Point			BCDD-1	11							
4929	Meter	Meter	Point			BCDD-2	12							
4930	Meter	Meter	Point			CTC	13							
4931	Meter	Meter	Point			NED	14							
4932	Meter	Meter	Point			KHD	21							
4933	Meter	Meter	Point			NYED	22							
4934	Meter	Meter	Point			BAED	23							
4935	Meter	Meter	Point			RED	24							
4936	Meter	Meter	Point			CDD-1	31							
4937	Meter	Meter	Point	ToDivision	To Division	CDD-2	32	Text	6					
4938	Meter	Meter	Point			CED	33							
4939	Meter	Meter	Point			AED	34							
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4942	Meter	Meter	Point			ANED	42							
4943	Meter	Meter	Point			TED	43							
4944	Meter	Meter	Point			KED-1	51							
4945	Meter	Meter	Point			KED-2	52							
4946	Meter	Meter	Point			JED	53							
4947	Meter	Meter	Point			PDP	54							
4948	Meter	Meter	Point			SUB DIVISION-1,BBSR	1110							
4949	Meter	Meter	Point			SUB DIVISION-2,BBSR	1120							
4950	Meter	Meter	Point			SUB DIVISION-3,BBSR	1130							
4951	Meter	Meter	Point			KHANDAGIRI	1210							
4952	Meter	Meter	Point			NAYAPALLI	1220							
4953	Meter	Meter	Point			PERIPHERI	1230							
4954	Meter	Meter	Point			RASULGARH	1310							
4955	Meter	Meter	Point			TEMPLE	1320							
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4957	Meter	Meter	Point			NIMAPARA	1420							
4958	Meter	Meter	Point			PIPLI	1430							
4959	Meter	Meter	Point			BANKI	2110							
4960	Meter	Meter	Point			BEGUNIA	2120							
4961	Meter	Meter	Point			JANKIA	2130							
4962	Meter	Meter	Point			JATNI	2140							
4963	Meter	Meter	Point			KHURDA	2150							
4964	Meter	Meter	Point			DASPALA	2210							
4965	Meter	Meter	Point			ITAMATI	2220							
4966	Meter	Meter	Point			KHANDAPADA	2230							
4967	Meter	Meter	Point			NAYAGARH	2240							
4968	Meter	Meter	Point			BALLUADON	2310							
4969	Meter	Meter	Point			TANGI	2320							
4970	Meter	Meter	Point			PURI-1	2410							
4971	Meter	Meter	Point			PURI-2	2420							
4972	Meter	Meter	Point			PURI-3	2430							
4973	Meter	Meter	Point			SARHGGOPAL	2440							
4974	Meter	Meter	Point			SUB DIVISION-1,CTC	3110							
4975	Meter	Meter	Point			SUB DIVISION-3,CTC	3120							
4976	Meter	Meter	Point			SUB DIVISION-4,CTC	3130							
4977	Meter	Meter	Point			SUB DIVISION-6,CTC	3140							
4978	Meter	Meter	Point			BADAMBADI	3210							
4979	Meter	Meter	Point			JOSBA	3220							
4980	Meter	Meter	Point	FromSubDivision	From SubDivision	MAHANADIVIHAR	3230	Text	14					
4981	Meter	Meter	Point			BADACHANA	3310							
4982	Meter	Meter	Point			CHOUHDAR	3320							
4983	Meter	Meter	Point			GGPALPUR	3330							
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4985	Meter	Meter	Point			NARASINGPUR	3410							
4986	Meter	Meter	Point			ATHAGADA	3420							
4987	Meter	Meter	Point			MAHANGA	3510							
4988	Meter	Meter	Point			N KOLI	3520							
4989	Meter	Meter	Point			SALPUR	3530							
4990	Meter	Meter	Point			DHENKANAL	4110							
4991	Meter	Meter	Point			GONDIA	4120							
4992	Meter	Meter	Point			HINDOL ROAD	4130							
4993	Meter	Meter	Point			KAMAKHYA NAGAR	4140							

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ToSubDivision

To SubDivision

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ANGUL	4210
BONDA	4220
CHEMDIPADA	4230
CHAINPAL	4310
PALLAHARA	4320
PARANG	4330
TALCHER	4340
AUL	5110
KENDRAPARA	5120
PATTAMUNDI	5130
RAINAGAR	5140
MAHAKALAPADA	5210
MARSHAGHA	5220
BALIKUDA	5310
JAGATSIINGPUR	5320
RAGHUNATHPUR	5330
KUJANGA	5410
PARADEEP	5420
TIRTOL	5430
SUB DIVISION-1,BBSR	1110
SUB DIVISION-2,BBSR	1120
SUB DIVISION-3,BBSR	1130
KHANDAGIRI	1210
NAYAPALLI	1220
PERIPHERI	1230
RASULGARH	1310
TEMLE	1320
KAKATPUR	1410
NIMAPARA	1420
PIPLI	1430
BANKI	2110
BEGUNIA	2120
JANKIA	2130
JATNI	2140
KHURDA	2150
DASPALLA	2210
ITAKATI	2220
KHANDAPADA	2230
NAYAGARH	2240
BALUGAON	2310
TANGI	2320
PURI-1	2410
PURI-2	2420
PURI-3	2430
SAKHIGOPAL	2440
SUB DIVISION-3,CTC	3110
SUB DIVISION-3,CTC	3120
SUB DIVISION-4,CTC	3130
SUB DIVISION-6,CTC	3140
BADAMBADI	3210
JOBRA	3220
MAHANADIVIHAR	3230
BADACHANA	3310
CHOUDWAR	3320
GOPALPUR	3330
NIALI	3340
KIRASINGPUR	3410
ATHAGADA	3420
MAHANGA	3510
N KOILI	3520
SALPUR	3530
DHENKANAL	4110
GONDIA	4120
HINDOL ROAD	4130
KAMAKHYA NAGAR	4140
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BONDA	4220
CHEMDIPADA	4230
CHAINPAL	4310
PALLAHARA	4320
PARANG	4330
TALCHER	4340
AUL	5110
KENDRAPARA	5120
PATTAMUNDI	5130
RAINAGAR	5140
MAHAKALAPADA	5210
MARSHAGHA	5220
BALIKUDA	5310
JAGATSIINGPUR	5320
RAGHUNATHPUR	5330
KUJANGA	5410
PARADEEP	5420
TIRTOL	5430
BRIT COLONY	1111
DELTA	1121
POWER HOUSE-1	1113
UNIT-6	1114
POWER HOUSE-2	1115
KARVEL NAGAR	1121
UNIT-1	1122
UNIT-2	1123
UNIT-4	1124
BOARD COLONY	1131
SAHIB NAGAR	1132
UNIT-5 FLAT	1133
UNIT-9 ROAD	1134
BHARATPUR	1211
DUMUDUMA	1212
KALINGANAGAR	1213
KHANDAGIRI S/O	1214
BARAMUNDIA	1221
IRC NAYAPALLI	1222
VSS NAGAR	1223
XAVIER	1224
BARANG	1231
CS PUR-1	1232
CS PUR-2	1233
GODISAH	1234
KANANVHAR	1235
KALPANA-1	1311
KALPANA-2	1312
LAXMISAGAR	1313
MANCHESWAR	1314
PHULNAKHARA	1315
RASULGARH S/O	1316
BARAGADA	1321
DHAULI	1322
OLD TOWN-1	1323
OLD TOWN-2	1324
OLD TOWN-3	1325
LUTTARA	1326
ASTARANG	1411
KAKATPUR-1	1412
KAKATPUR-2	1413
GOP	1421
KONARK	1422
NIMAPARA-1	1423
NIMAPARA-2	1424
BALAKATI	1431
BALUPATNA	1432
BHARATIPUR	1433
PIPLI-1	1434
PIPLI-2	1435
BANKI-1	2111

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IRC NAYAPALLI	1222
VSS NAGAR	1223
XAVIER	1224
BARANG	1231
CS PUR-1	1232
CS PUR-2	1233
GODSAMI	1234
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KALPANA-1	1311
KALPANA-2	1312
LAXMISAGAR	1313
MANCHESWAR	1314
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RASULAGARH S/O	1316
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OLD TOWN-1	1323
OLD TOWN-2	1324
OLD TOWN-3	1325
UTTARA	1326
ASTARANG	1411
KAKATPUR-1	1412
KAKATPUR-2	1413
GOP	1421
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NIMAPARA-2	1424
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BALIPATNA	1432
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PIPLI-2	1435
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BANKI-2	2112
BANKI-3	2113
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HARIRAJPUR	2141
JANLA	2142
JATANI-1	2143
JATANI-2	2144
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KHURDA-2	2152
KHURDA-3	2153
KHURDA-4	2154
DASPALLA	2211
GANKA	2212
NUAGAON	2213
BOLGARH	2221
ITAMATI-1	2222
ITAMATI-2	2223
BHAPUR-1	2231
BHAPUR-2	2232
KANTILO	2233
KHANDAPADA	2234
NAYAGARH	2241
ODAGAON-1	2242
ODAGAON-2	2243
PERIPHERY S/O	2244
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SARANAKUL-2	2246
BALLIGAON-1	2311
BALLIGAON-2	2312
BANAPUR-1	2313
BANAPUR-2	2314
NACHUNI	2315
BHUSANPUR	2321
KUHUDI	2322
RANAPUR	2323
TANGI-1	2324
TANGI-2	2325
BALUPANDA	2411
KACHERI	2412
PASCHIMADWAR	2413
SWARGADWAR	2414
BRAMAGIRI	2421
DELNGER	2422
KANAS	2423
SADAR	2424
SUNAMUHI	2425
CHARINILA	2431
GHODABAZAR	2432
POWER HOUSE	2433
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SARNGIPAL-2	2443
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RANIHAT-2	3114
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GANESH GHAT	3122
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CHANDNI CHOWK	3132
TINKONIA BAGICHA	3133
BIDANASI	3141
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TULSIKUR	3143
BADAMBADI	3211
DOLAMUNDJI	3212
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NALDA	3221
JAGATPUR	3222
JOBRA	3223
KANDARPUR	3224
KISHORNAGAR	3225
CHALLUGANI	3231
MAHANADI VIHAR	3232
BADACHANA	3311
BALICHANDRAPUR	3312
CHHATIA	3313
CHARIBATI	3321
CHOUHDWAR-1	3322
CHOUHDWAR-2	3323
ADASPUR	3331
BALIKUDA	3332
GOBINDPUR	3333
NIALI-1	3341
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SITHALO	3343
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ATHAGADA-2	3422

Section

Section

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5804	VoltageRegulator	Voltage Regulator	Point
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TEMPLE	1320
KAKATPUR	1410
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PIPILI	1430
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BEGUNIA	2120
JANKIA	2130
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Subdivision

Text

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Text

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KHANDAPADA	2234
NAYAGARH	2241
ODAGAON-1	2242
ODAGAON-2	2243
PERIPHERY S/O	2244
SARANAKUL-1	2245
SARANAKUL-2	2246
BALUGAON-1	2311
BALUGAON-2	2312
BANAPUR-1	2313
BANAPUR-2	2314
NACHUNI	2315
BHUSANDPUR	2321
KUHUDI	2322
RANAPUR	2323
TANGI-1	2324
TANGI-2	2325
BALAPANDA	2411
KACHERI	2412
PASCHIMADWAR	2413
SHARGADWAR	2414
BRAHMAGIRI	2421
DELANGA	2422
KANAS	2423
SADAR	2424
SUNAMUHI	2425
CHARINALA	2431
GHODABAZAR	2432
POWER HOUSE	2433
TALABANA	2434
CHANDMNPUR	2441
SAKHGOPAL-1	2442
SAKHGOPAL-2	2443
SATANAKHA	2444
BHUI BAZAR	3111
COLLEGE SQUARE	3112
RANHAT-1	3113
RANHAT-2	3114
CITY	3121
GANESH GHAT	3122
KAZI BAZAR	3123
TOWN HALL	3124
CANTONMENT	3131
CHANDNI CHOWK	3132
TINKOWA BAGICHA	3133
BIDANASI	3141
CDA	3142
TULSIPUR	3143
BADAMBADI	3211
DOLAMANDI	3212
IND ESTATE (OGP)	3213
MALIZA	3221
JAGATPUR	3222
JOBBA	3223
KANDARPUR	3224
KISHORNAGAR	3225
CHALLIAGANJ	3231
MAHANADI VIHAR	3232
BADACHANA	3311
BALACHANDRAPUR	3312
CHHATIA	3313
CHARIBATIA	3321
CHOUWAR-1	3322
CHOUWAR-2	3323
ADASPUR	3331
BALUDA	3332
GOBINDAPUR	3333
NIALI-1	3341
NIALI-2	3342
SITWALO	3343
BARAMBIA	3411
KANPUR	3412
NARASINGPUR	3413
SECTION-4	3414

Text

7424	ShuntCapacitor	Shunt Capacitor	Point
7425	ShuntCapacitor	Shunt Capacitor	Point
7426	ShuntCapacitor	Shunt Capacitor	Point
7427	ShuntCapacitor	Shunt Capacitor	Point
7428	ShuntCapacitor	Shunt Capacitor	Point
7429	ShuntCapacitor	Shunt Capacitor	Point
7430	ShuntCapacitor	Shunt Capacitor	Point
7431	ShuntCapacitor	Shunt Capacitor	Point
7432	ShuntCapacitor	Shunt Capacitor	Point
7433	ShuntCapacitor	Shunt Capacitor	Point
7434	ShuntCapacitor	Shunt Capacitor	Point
7435	ShuntCapacitor	Shunt Capacitor	Point
7436	ShuntCapacitor	Shunt Capacitor	Point
7437	ShuntCapacitor	Shunt Capacitor	Point
7438	ShuntCapacitor	Shunt Capacitor	Point
7439	ShuntCapacitor	Shunt Capacitor	Point
7440	ShuntCapacitor	Shunt Capacitor	Point
7441	ShuntCapacitor	Shunt Capacitor	Point
7442	ShuntCapacitor	Shunt Capacitor	Point
7443	ShuntCapacitor	Shunt Capacitor	Point
7444	ShuntCapacitor	Shunt Capacitor	Point
7445	ShuntCapacitor	Shunt Capacitor	Point
7446	ShuntCapacitor	Shunt Capacitor	Point
7447	ShuntCapacitor	Shunt Capacitor	Point
7448	ShuntCapacitor	Shunt Capacitor	Point
7449	ShuntCapacitor	Shunt Capacitor	Point
7450	ShuntCapacitor	Shunt Capacitor	Point
7451	ShuntCapacitor	Shunt Capacitor	Point
7452	ShuntCapacitor	Shunt Capacitor	Point
7453	ShuntCapacitor	Shunt Capacitor	Point
7454	ShuntCapacitor	Shunt Capacitor	Point
7455	ShuntCapacitor	Shunt Capacitor	Point
7456	ShuntCapacitor	Shunt Capacitor	Point
7457	ShuntCapacitor	Shunt Capacitor	Point
7458	ShuntCapacitor	Shunt Capacitor	Point
7459	ShuntCapacitor	Shunt Capacitor	Point
7460	ShuntCapacitor	Shunt Capacitor	Point
7461	ShuntCapacitor	Shunt Capacitor	Point
7462	ShuntCapacitor	Shunt Capacitor	Point
7463	ShuntCapacitor	Shunt Capacitor	Point
7464	ShuntCapacitor	Shunt Capacitor	Point
7465	ShuntCapacitor	Shunt Capacitor	Point
7466	ShuntCapacitor	Shunt Capacitor	Point
7467	ShuntCapacitor	Shunt Capacitor	Point
7468	ShuntCapacitor	Shunt Capacitor	Point
7469	ShuntCapacitor	Shunt Capacitor	Point
7470	ShuntCapacitor	Shunt Capacitor	Point
7471	ShuntCapacitor	Shunt Capacitor	Point
7472	ShuntCapacitor	Shunt Capacitor	Point
7473	ShuntCapacitor	Shunt Capacitor	Point
7474	ShuntCapacitor	Shunt Capacitor	Point
7475	ShuntCapacitor	Shunt Capacitor	Point
7476	ShuntCapacitor	Shunt Capacitor	Point
7477	ShuntCapacitor	Shunt Capacitor	Point
7478	ShuntCapacitor	Shunt Capacitor	Point
7479	ShuntCapacitor	Shunt Capacitor	Point
7480	ShuntCapacitor	Shunt Capacitor	Point
7481	ShuntCapacitor	Shunt Capacitor	Point
7482	ShuntCapacitor	Shunt Capacitor	Point
7483	ShuntCapacitor	Shunt Capacitor	Point
7484	ShuntCapacitor	Shunt Capacitor	Point
7485	ShuntCapacitor	Shunt Capacitor	Point
7486	ShuntCapacitor	Shunt Capacitor	Point
7487	ShuntCapacitor	Shunt Capacitor	Point
7488	ShuntCapacitor	Shunt Capacitor	Point
7489	ShuntCapacitor	Shunt Capacitor	Point
7490	ShuntCapacitor	Shunt Capacitor	Point
7491	ShuntCapacitor	Shunt Capacitor	Point
7492	ShuntCapacitor	Shunt Capacitor	Point
7493	ShuntCapacitor	Shunt Capacitor	Point
7494	ShuntCapacitor	Shunt Capacitor	Point
7495	ShuntCapacitor	Shunt Capacitor	Point
7496	ShuntCapacitor	Shunt Capacitor	Point
7497	ShuntCapacitor	Shunt Capacitor	Point
7498	ShuntCapacitor	Shunt Capacitor	Point
7499	ShuntCapacitor	Shunt Capacitor	Point
7500	ShuntCapacitor	Shunt Capacitor	Point
7501	ShuntCapacitor	Shunt Capacitor	Point
7502	ShuntCapacitor	Shunt Capacitor	Point
7503	ShuntCapacitor	Shunt Capacitor	Point
7504	ShuntCapacitor	Shunt Capacitor	Point
7505	ShuntCapacitor	Shunt Capacitor	Point
7506	ShuntCapacitor	Shunt Capacitor	Point
7507	ShuntCapacitor	Shunt Capacitor	Point
7508	ShuntCapacitor	Shunt Capacitor	Point
7509	ShuntCapacitor	Shunt Capacitor	Point
7510	ShuntCapacitor	Shunt Capacitor	Point
7511	ShuntCapacitor	Shunt Capacitor	Point
7512	ShuntCapacitor	Shunt Capacitor	Point
7513	ShuntCapacitor	Shunt Capacitor	Point
7514	ShuntCapacitor	Shunt Capacitor	Point
7515	ShuntCapacitor	Shunt Capacitor	Point
7516	ShuntCapacitor	Shunt Capacitor	Point
7517	ShuntCapacitor	Shunt Capacitor	Point
7518	ShuntCapacitor	Shunt Capacitor	Point
7519	ShuntCapacitor	Shunt Capacitor	Point
7520	ShuntCapacitor	Shunt Capacitor	Point
7521	ShuntCapacitor	Shunt Capacitor	Point
7522	ShuntCapacitor	Shunt Capacitor	Point
7523	ShuntCapacitor	Shunt Capacitor	Point
7524	ShuntCapacitor	Shunt Capacitor	Point
7525	ShuntCapacitor	Shunt Capacitor	Point
7526	ShuntCapacitor	Shunt Capacitor	Point
7527	ShuntCapacitor	Shunt Capacitor	Point
7528	ShuntCapacitor	Shunt Capacitor	Point
7529	ShuntCapacitor	Shunt Capacitor	Point
7530	ShuntCapacitor	Shunt Capacitor	Point
7531	ShuntCapacitor	Shunt Capacitor	Point
7532	ShuntCapacitor	Shunt Capacitor	Point
7533	ShuntCapacitor	Shunt Capacitor	Point
7534	ShuntCapacitor	Shunt Capacitor	Point
7535	ShuntCapacitor	Shunt Capacitor	Point
7536	ShuntCapacitor	Shunt Capacitor	Point
7537	ShuntCapacitor	Shunt Capacitor	Point
7538	ShuntCapacitor	Shunt Capacitor	Point
7539	ShuntCapacitor	Shunt Capacitor	Point
7540	ShuntCapacitor	Shunt Capacitor	Point
7541	ShuntCapacitor	Shunt Capacitor	Point
7542	ShuntCapacitor	Shunt Capacitor	Point
7543	ShuntCapacitor	Shunt Capacitor	Point
7544	ShuntCapacitor	Shunt Capacitor	Point
7545	ShuntCapacitor	Shunt Capacitor	Point
7546	ShuntCapacitor	Shunt Capacitor	Point
7547	ShuntCapacitor	Shunt Capacitor	Point
7548	ShuntCapacitor	Shunt Capacitor	Point
7549	ShuntCapacitor	Shunt Capacitor	Point
7550	ShuntCapacitor	Shunt Capacitor	Point
7551	ShuntCapacitor	Shunt Capacitor	Point
7552	ShuntCapacitor	Shunt Capacitor	Point
7553	ShuntCapacitor	Shunt Capacitor	Point
7554	ShuntCapacitor	Shunt Capacitor	Point
7555	ShuntCapacitor	Shunt Capacitor	Point
7556	ShuntCapacitor	Shunt Capacitor	Point
7557	ShuntCapacitor	Shunt Capacitor	Point
7558	ShuntCapacitor	Shunt Capacitor	Point

Subdivision

ATHAGADA-1	3421
ATHAGADA-2	3422
KHUNTUNI	3423
NUAPATNA	3424
TIGIRIA	3425
ERKANNA	3511
KOTHAPADA	3522
MAHANGA SEC OFF	3513
ASURESWAR	3521
N KOILI	3522
ORIKANTA	3523
BAHUSRAM	3531
RAISUNGUDA	3532
SALIPUR-1	3533
SALIPUR-2	3534
BHAPUR	4111
DKL SEC-1	4112
DKL SEC-2	4113
DKL SEC-3	4114
GONDIA SEC OFF	4121
JORANDA	4122
NIHAL PRASAD	4123
HINDOL	4131
HINDOL ROAD S/O	4132
KHAJURIKATA	4133
BHUBAN	4141
K NAGAR	4142
KALIAPANI	4143
KANKADA HADA	4144
M K GOLA	4145
R N PUR	4146
ANGUL NO-1	4211
ANGUL NO-2	4212
ANGUL NO-3	4213
BANTALA	4214
BOINDA SEC OFF	4221
BAMUIR	4222
ATHAMALLIK	4223
CHHENDIPADA	4231
JARPADA	4232
KOSALA	4233
BANKIPAL	4311
CHAINPAL SEC OFF	4312
MERAMANDALI	4313
KHAMARA	4321
PALLAHARA SEC OFF	4322
PARBIL	4323
RENGALI	4324
PARJANG-1	4331
PARJANG-2	4332
HATATOTA	4341
KANHI	4342
SAMALA	4343
SOUTH BALANDA	4344
TALCHER SEC OFF	4345
AUL SEC OFF	5111
BHUNIPUR	5112
GLAVER	5113
RAIKANIKA	5114
CHHATA	5121
DANPUR	5122
NEUPUR	5123
KENDRAPARA-1	5124
KENDRAPARA-2	5125
KENDRAPARA-3	5126
DANDISAHJI	5131
PATRAPUR	5132
PATTAMUNDAL-1	5133
PATTAMUNDAL-2	5134
PATTAMUNDAL-3	5135
RAUNAGAR-1	5141
RAUNAGAR-2	5142
TALACHUA	5143
BABAR	5211
LUNA	5212
MAHAKALADADA	5213
GABADAPUR	5221
KORUA	5222
MARSHAGHAI S/O	5223
NUAPADA	5224
BALUKUDA-1	5311
BALUKUDA-2	5312
NAUGAON	5313
DHASAHI	5321
J S PUR-1	5322
J S PUR-2	5323
MANAKASAHJI	5324
BIRDI	5331
RAGHUNATHPUR S/O	5332
CHATUA	5411
KUJANG	5412
BAHAMA	5413
BHUTAMUNDAL	5421
PARADEEP SEC OFF	5422
ERASAMA	5431
KOLAR	5432
TIRTOL	5433
SUB DIVISION-1,BBSR	1110
SUB DIVISION-2,BBSR	1120
SUB DIVISION-3,BBSR	1130
KHANDAGIRI	1210
NAYAPALLI	1220
PERIPHERI	1230
RASULGARH	1310
TEMPLE	1320
KAKATPUR	1410
NIMAPARA	1420
PIPLI	1430
BANKI	2110
BEGUNIA	2120
JANKA	2130
JATNI	2140
KHURDA	2150
DASPALLA	2210
ITAMATI	2220
KHANDAPADA	2230
NAYAGARH	2240
BALUGAON	2310
TANGI	2320
PURI-1	2410
PURI-2	2420
PURI-3	2430
SAKHIGOPAL	2440
SUB DIVISION-1,CTC	3110
SUB DIVISION-3,CTC	3120
SUB DIVISION-4,CTC	3130
SUB DIVISION-6,CTC	3140
BADAMBADI	3210
JOBRA	3220
MAHANADIVIHAR	3230
BAKACHANA	3310
CHOUNDWAR	3320
GOPALPUR	3330
NIALI	3340
NARASINGPUR	3410

Subdivision

Text

14

YES

7694	HTCable	HT Cable	Line			180 Sq mm	180					
7695	HTCable	HT Cable	Line			185 Sq mm	185					
7696	HTCable	HT Cable	Line			200 Sq mm	200					
7697	HTCable	HT Cable	Line			232 Sq mm	232					
7698	HTCable	HT Cable	Line			240 Sq mm	240					
7699	HTCable	HT Cable	Line			288 Sq mm	288					
7700	HTCable	HT Cable	Line			290 Sq mm	290					
7701	HTCable	HT Cable	Line			300 Sq mm	300					
7702	HTCable	HT Cable	Line			320 Sq mm	320					
7703	HTCable	HT Cable	Line			345 Sq mm	345					
7704	HTCable	HT Cable	Line			400 Sq mm	400					
7705	HTCable	HT Cable	Line			420 Sq mm	420					
7706	HTCable	HT Cable	Line	CableSize	Cable Size	465 Sq mm	465	Text	20			
7707	HTCable	HT Cable	Line			500 Sq mm	500					
7708	HTCable	HT Cable	Line			520 Sq mm	520					
7709	HTCable	HT Cable	Line			525 Sq mm	525					
7710	HTCable	HT Cable	Line			560 Sq mm	560					
7711	HTCable	HT Cable	Line			570 Sq mm	570					
7712	HTCable	HT Cable	Line			605 Sq mm	605					
7713	HTCable	HT Cable	Line			630 Sq mm	630					
7714	HTCable	HT Cable	Line			640 Sq mm	640					
7715	HTCable	HT Cable	Line			650 Sq mm	650					
7716	HTCable	HT Cable	Line			695 Sq mm	695					
7717	HTCable	HT Cable	Line			765 Sq mm	765					
7718	HTCable	HT Cable	Line			Other	Other					
7719	HTCable	HT Cable	Line			30 Sq mm	30					
7720	HTCable	HT Cable	Line			55 Sq mm	55					
7721	HTCable	HT Cable	Line			90 Sq mm	90					
7722	HTCable	HT Cable	Line			1x25+1x16 mm2	1x25+1x16					
7723	HTCable	HT Cable	Line			1x25+1x25 mm2	1x25+1x25					
7724	HTCable	HT Cable	Line			1x35+1x25 mm2	1x35+1x25					
7725	HTCable	HT Cable	Line			2x25+1x25 mm2	2x25+1x25					
7726	HTCable	HT Cable	Line			3x35+1x25 mm2	3x35+1x25					
7727	HTCable	HT Cable	Line			3x35+1x25+1x16 mm2	3x35+1x25+1x16					
7728	HTCable	HT Cable	Line			3x50+1x35 mm2	3x50+1x35					
7729	HTCable	HT Cable	Line			3x50+1x25+1x16 mm2	3x50+1x25+1x16					
7730	HTCable	HT Cable	Line			3x50+1x35+1x16 mm2	3x50+1x35+1x16					
7731	HTCable	HT Cable	Line			3x70+1x50+1x16 mm2	3x70+1x50+1x16					
7732	HTCable	HT Cable	Line			3x95+1x70+1x16 mm2	3x95+1x70+1x16					
7733	HTCable	HT Cable	Line			3x120+1x95+1x16 mm2	3x120+1x95+1x16					
7734	HTCable	HT Cable	Line	Armoured	Armoured	Yes	Yes	Text	3		YES	
7735	HTCable	HT Cable	Line			No	No					
7736	HTCable	HT Cable	Line			7	7				YES	
7737	HTCable	HT Cable	Line			12	12					
7738	HTCable	HT Cable	Line			33	33					
7739	HTCable	HT Cable	Line			64	64					
7740	HTCable	HT Cable	Line			70	70					
7741	HTCable	HT Cable	Line			84	84					
7742	HTCable	HT Cable	Line			88	88					
7743	HTCable	HT Cable	Line			107	107					
7744	HTCable	HT Cable	Line			110	110					
7745	HTCable	HT Cable	Line			115	115					
7746	HTCable	HT Cable	Line			116	116					
7747	HTCable	HT Cable	Line			120	120					
7748	HTCable	HT Cable	Line			130	130					
7749	HTCable	HT Cable	Line			134	134					
7750	HTCable	HT Cable	Line			138	138					
7751	HTCable	HT Cable	Line			140	140					
7752	HTCable	HT Cable	Line			146	146					
7753	HTCable	HT Cable	Line			150	150					
7754	HTCable	HT Cable	Line			160	160					
7755	HTCable	HT Cable	Line			175	175					
7756	HTCable	HT Cable	Line			178	178					
7757	HTCable	HT Cable	Line			190	190					
7758	HTCable	HT Cable	Line			194	194					
7759	HTCable	HT Cable	Line			201	201					
7760	HTCable	HT Cable	Line			225	225					
7761	HTCable	HT Cable	Line			244	244					
7762	HTCable	HT Cable	Line			246	246					
7763	HTCable	HT Cable	Line			250	250					
7764	HTCable	HT Cable	Line			268	268					
7765	HTCable	HT Cable	Line			274	274					
7766	HTCable	HT Cable	Line			283	283					
7767	HTCable	HT Cable	Line			291	291					
7768	HTCable	HT Cable	Line			305	305	Text	3			
7769	HTCable	HT Cable	Line			325	325					
7770	HTCable	HT Cable	Line			335	335					
7771	HTCable	HT Cable	Line			358	358					
7772	HTCable	HT Cable	Line			362	362					
7773	HTCable	HT Cable	Line			398	398					
7774	HTCable	HT Cable	Line			405	405					
7775	HTCable	HT Cable	Line			410	410					
7776	HTCable	HT Cable	Line			422	422					
7777	HTCable	HT Cable	Line			436	436					
7778	HTCable	HT Cable	Line			445	445					
7779	HTCable	HT Cable	Line			478	478					
7780	HTCable	HT Cable	Line			548	548					
7781	HTCable	HT Cable	Line			613	613					
7782	HTCable	HT Cable	Line			634	634					
7783	HTCable	HT Cable	Line			670	670					
7784	HTCable	HT Cable	Line			671	671					
7785	HTCable	HT Cable	Line			705	705					
7786	HTCable	HT Cable	Line			721	721					
7787	HTCable	HT Cable	Line			736	736					
7788	HTCable	HT Cable	Line			737	737					
7789	HTCable	HT Cable	Line			756	756					
7790	HTCable	HT Cable	Line			792	792					
7791	HTCable	HT Cable	Line			833	833					
7792	HTCable	HT Cable	Line			836	836					
7793	HTCable	HT Cable	Line			845	845					
7794	HTCable	HT Cable	Line			862	862					
7795	HTCable	HT Cable	Line			894	894					
7796	HTCable	HT Cable	Line			939	939					
7797	HTCable	HT Cable	Line			995	995					
7798	HTCable	HT Cable	Line			998	998					
7799	HTCable	HT Cable	Line			1351	1351					
7800	HTCable	HT Cable	Line			1689	1689					
7801	HTCable	HT Cable	Line	Cost	Cost			Text	10			
7802	HTCable	HT Cable	Line	CableType	Cable Type	HT Cable	1	short Intenger				
7803	HTCable	HT Cable	Line			HT Service Cable	2					
7804	HTCable	HT Cable	Line	FeederCode	Feeder Code			Text	3		YES	YES
7805	HTCable	HT Cable	Line			BRIT COLONY	1111					
7806	HTCable	HT Cable	Line			DELTA	1112					
7807	HTCable	HT Cable	Line			POWER HOUSE-1	1113					
7808	HTCable	HT Cable	Line			UNIT-6	1114					
7809	HTCable	HT Cable	Line			POWER HOUSE-2	1115					
7810	HTCable	HT Cable	Line			KARVEL NAGAR	1121					
7811	HTCable	HT Cable	Line			UNIT-1	1122					
7812	HTCable	HT Cable	Line			UNIT-2	1123					
7813	HTCable	HT Cable	Line			UNIT-4	1124					
7814	HTCable	HT Cable	Line			BOARD COLONY	1131					
7815	HTCable	HT Cable	Line			SAHID NAGAR	1132					
7816	HTCable	HT Cable	Line			UNIT-9 FLAT	1133					
7817	HTCable	HT Cable	Line			UNIT-9 ROAD	1134					
7818	HTCable	HT Cable	Line			BHARATPUR	1211					
7819	HTCable	HT Cable	Line			DUMKIDUMA	1212					
7820	HTCable	HT Cable	Line			KALINGANAGAR	1213					
7821	HTCable	HT Cable	Line			KHANDAGIRI S/O	1214					
7822	HTCable	HT Cable	Line			BARAMUNDA	1221					
7823	HTCable	HT Cable	Line			IRC NAYAPALLI	1222					
7824	HTCable	HT Cable	Line			VSS NAGAR	1223					
7825	HTCable	HT Cable	Line			XAVIER	1224					
7826	HTCable	HT Cable	Line			BARANG	1231					
7827	HTCable	HT Cable	Line			CS PUR-1	1232					
7828	HTCable	HT Cable	Line			CS PUR-2	1233					

8909	HTConductor	HT Conductor	Line									
8910	HTConductor	HT Conductor	Line									
8911	HTConductor	HT Conductor	Line									
8912	HTConductor	HT Conductor	Line									
8913	HTConductor	HT Conductor	Line									
8914	HTConductor	HT Conductor	Line									
8915	HTConductor	HT Conductor	Line									
8916	HTConductor	HT Conductor	Line									
8917	HTConductor	HT Conductor	Line									
8918	HTConductor	HT Conductor	Line	OverheadHeight	Overhead Height					Text	50	
8919	HTConductor	HT Conductor	Line	Cost	Cost					Text	10	
8920	HTConductor	HT Conductor	Line	SAPID	SAP ID					Text	50	
8921	HTConductor	HT Conductor	Line	FeederCode	Feeder Code					Text	5	YES
8922	HTConductor	HT Conductor	Line					BRIT COLONY	1111			YES
8923	HTConductor	HT Conductor	Line					DELTA	1112			
8924	HTConductor	HT Conductor	Line					POWER HOUSE-1	1113			
8925	HTConductor	HT Conductor	Line					UNIT-6	1114			
8926	HTConductor	HT Conductor	Line					POWER HOUSE-2	1115			
8927	HTConductor	HT Conductor	Line					KARVEL NAGAR	1121			
8928	HTConductor	HT Conductor	Line					UNIT-1	1122			
8929	HTConductor	HT Conductor	Line					UNIT-2	1123			
8930	HTConductor	HT Conductor	Line					UNIT-4	1124			
8931	HTConductor	HT Conductor	Line					BOARD COLONY	1131			
8932	HTConductor	HT Conductor	Line					SAHID NAGAR	1132			
8933	HTConductor	HT Conductor	Line					UNIT-9 FLAT	1133			
8934	HTConductor	HT Conductor	Line					UNIT-9 ROAD	1134			
8935	HTConductor	HT Conductor	Line					BHARATPUR	1211			
8936	HTConductor	HT Conductor	Line					DUMUDUMA	1212			
8937	HTConductor	HT Conductor	Line					KALINGANAGAR	1213			
8938	HTConductor	HT Conductor	Line					KHAMDAGIRI S/O	1214			
8939	HTConductor	HT Conductor	Line					BARAJMUNDA	1221			
8940	HTConductor	HT Conductor	Line					IRC NAYAPALLI	1222			
8941	HTConductor	HT Conductor	Line					VSS NAGAR	1223			
8942	HTConductor	HT Conductor	Line					XAVIER	1224			
8943	HTConductor	HT Conductor	Line					BARANG	1231			
8944	HTConductor	HT Conductor	Line					CS PUR-1	1232			
8945	HTConductor	HT Conductor	Line					CS PUR-2	1233			
8946	HTConductor	HT Conductor	Line					GODSAHI	1234			
8947	HTConductor	HT Conductor	Line					KANANVIHAR	1235			
8948	HTConductor	HT Conductor	Line					KALPANA-1	1311			
8949	HTConductor	HT Conductor	Line					KALPANA-2	1312			
8950	HTConductor	HT Conductor	Line					LUKARISAGAR	1313			
8951	HTConductor	HT Conductor	Line					MANCHESWAR	1314			
8952	HTConductor	HT Conductor	Line					PHULNAKHARA	1315			
8953	HTConductor	HT Conductor	Line					RASULGARH S/O	1316			
8954	HTConductor	HT Conductor	Line					BARAGADA	1321			
8955	HTConductor	HT Conductor	Line					DHALI	1322			
8956	HTConductor	HT Conductor	Line					OLD TOWN-1	1323			
8957	HTConductor	HT Conductor	Line					OLD TOWN-2	1324			
8958	HTConductor	HT Conductor	Line					OLD TOWN-3	1325			
8959	HTConductor	HT Conductor	Line					UTTARA	1326			
8960	HTConductor	HT Conductor	Line					ASTARANG	1421			
8961	HTConductor	HT Conductor	Line					KAKATPUR-1	1412			
8962	HTConductor	HT Conductor	Line					KAKATPUR-2	1413			
8963	HTConductor	HT Conductor	Line					GDP	1421			
8964	HTConductor	HT Conductor	Line					KONARK	1422			
8965	HTConductor	HT Conductor	Line					NIMAPARA-1	1423			
8966	HTConductor	HT Conductor	Line					NIMAPARA-2	1424			
8967	HTConductor	HT Conductor	Line					BALAKATI	1431			
8968	HTConductor	HT Conductor	Line					BALIPATNA	1432			
8969	HTConductor	HT Conductor	Line					BHARATIPUR	1433			
8970	HTConductor	HT Conductor	Line					PIPLI-1	1434			
8971	HTConductor	HT Conductor	Line					PIPLI-2	1435			
8972	HTConductor	HT Conductor	Line					BANKI-1	2111			
8973	HTConductor	HT Conductor	Line					BANKI-2	2112			
8974	HTConductor	HT Conductor	Line					BANKI-3	2113			
8975	HTConductor	HT Conductor	Line					BHAGHMARI	2121			
8976	HTConductor	HT Conductor	Line					BEGUNIA S/O	2122			
8977	HTConductor	HT Conductor	Line					KALAPATHAR	2123			
8978	HTConductor	HT Conductor	Line					RAJUNAKHALA	2124			
8979	HTConductor	HT Conductor	Line					JANKA SEC OFF	2131			
8980	HTConductor	HT Conductor	Line					MALIPADA	2132			
8981	HTConductor	HT Conductor	Line					NIRAKARPUR	2133			
8982	HTConductor	HT Conductor	Line					HARIRAPUR	2141			
8983	HTConductor	HT Conductor	Line					JANLA	2142			
8984	HTConductor	HT Conductor	Line					JATANI-1	2143			
8985	HTConductor	HT Conductor	Line					JATANI-2	2144			
8986	HTConductor	HT Conductor	Line					KHURDA-1	2151			
8987	HTConductor	HT Conductor	Line					KHURDA-2	2152			
8988	HTConductor	HT Conductor	Line					KHURDA-3	2153			
8989	HTConductor	HT Conductor	Line					KHURDA-4	2154			
8990	HTConductor	HT Conductor	Line					DASPALLA	2211			
8991	HTConductor	HT Conductor	Line					GANIA	2212			
8992	HTConductor	HT Conductor	Line					NUAGAON	2213			
8993	HTConductor	HT Conductor	Line					BOLAGARH	2221			
8994	HTConductor	HT Conductor	Line					ITAMATI-1	2222			
8995	HTConductor	HT Conductor	Line					ITAMATI-2	2223			
8996	HTConductor	HT Conductor	Line					BHAPUR-1	2231			
8997	HTConductor	HT Conductor	Line					BHAPUR-2	2232			
8998	HTConductor	HT Conductor	Line					KANTILO	2233			
8999	HTConductor	HT Conductor	Line					KHANDAPADA	2234			
9000	HTConductor	HT Conductor	Line					NAYAGARH	2241			
9001	HTConductor	HT Conductor	Line					ODAGAON-1	2242			
9002	HTConductor	HT Conductor	Line					ODAGAON-2	2243			
9003	HTConductor	HT Conductor	Line					PERIPHERY S/O	2244			
9004	HTConductor	HT Conductor	Line					SARANAKULI-1	2245			
9005	HTConductor	HT Conductor	Line					SARANAKULI-2	2246			
9006	HTConductor	HT Conductor	Line					BALUGAON-1	2311			
9007	HTConductor	HT Conductor	Line					BALUGAON-2	2312			
9008	HTConductor	HT Conductor	Line					BANAPUR-1	2313			
9009	HTConductor	HT Conductor	Line					BANAPUR-2	2314			
9010	HTConductor	HT Conductor	Line					NACHUNI	2315			
9011	HTConductor	HT Conductor	Line					BHUSANDPUR	2321			
9012	HTConductor	HT Conductor	Line					KUHUDI	2322			
9013	HTConductor	HT Conductor	Line					RANAPUR	2323			
9014	HTConductor	HT Conductor	Line					TANGI-1	2324			
9015	HTConductor	HT Conductor	Line					TANGI-2	2325			
9016	HTConductor	HT Conductor	Line					BALAPANDA	2411			
9017	HTConductor	HT Conductor	Line					KACHERI	2412			
9018	HTConductor	HT Conductor	Line					PASCHIMADWAR	2413			
9019	HTConductor	HT Conductor	Line					SAWAGADWAR	2414			
9020	HTConductor	HT Conductor	Line					BRAHMAGIRI	2421			
9021	HTConductor	HT Conductor	Line					DELANGA	2422			
9022	HTConductor	HT Conductor	Line					KANAS	2423			
9023	HTConductor	HT Conductor	Line					SADAR	2424			
9024	HTConductor	HT Conductor	Line					SUNAMUHI	2425			
9025	HTConductor	HT Conductor	Line					CHARINALA	2431			
9026	HTConductor	HT Conductor	Line					GHODABAZAR	2432			
9027	HTConductor	HT Conductor	Line					POWER HOUSE	2433			
9028	HTConductor	HT Conductor	Line					TALABANNA	2434			
9029	HTConductor	HT Conductor	Line					CHANDRAPUR	2441			
9030	HTConductor	HT Conductor	Line					SAKHIGOPAL-1	2442			
9031	HTConductor	HT Conductor	Line					SAKHIGOPAL-2	2443			
9032	HTConductor	HT Conductor	Line					SATASANKHA	2444			
9033	HTConductor	HT Conductor	Line					BUKI BAZAR	3111			
9034	HTConductor	HT Conductor	Line					COLLEGE SQUARE	3112			
9035	HTConductor	HT Conductor	Line					RANIHAT-1	3113			
9036	HTConductor	HT Conductor	Line					RANIHAT-2	3114			
9037	HTConductor	HT Conductor	Line					CITY	3121			
9038	HTConductor	HT Conductor	Line					GANESH GHAT	3122			
9039	HTConductor	HT Conductor	Line					KAZI BAZAR	3123			
9040	HTConductor	HT Conductor	Line					TOWN HALL	3124			
9041	HTConductor	HT Conductor	Line					CANTONMENT	3131			
9042	HTConductor	HT Conductor	Line					CHANDNI CHOWK	3132			
9043	HTConductor	HT Conductor	Line					TINKONIA BAGICHA	3133			

9044	HTConductor	HT Conductor	Line				BIDANASI	3141		
9045	HTConductor	HT Conductor	Line				CGA	3143		
9046	HTConductor	HT Conductor	Line				TULSI PUR	3143		
9047	HTConductor	HT Conductor	Line				BADAMBADI	3211		
9048	HTConductor	HT Conductor	Line				DOLAMUNDAI	3212		
9049	HTConductor	HT Conductor	Line				(IND. ESTATE)(OGP)	3213		
9050	HTConductor	HT Conductor	Line				NAUGA	3221		
9051	HTConductor	HT Conductor	Line				JAGATPUR	3222		
9052	HTConductor	HT Conductor	Line				JOBRA	3223		
9053	HTConductor	HT Conductor	Line				KANDARPUR	3224		
9054	HTConductor	HT Conductor	Line				KISHORNAGAR	3225		
9055	HTConductor	HT Conductor	Line				CHALUGGANI	3231		
9056	HTConductor	HT Conductor	Line				MAHANADI VIHAR	3232		
9057	HTConductor	HT Conductor	Line				BADACHANA	3311		
9058	HTConductor	HT Conductor	Line				BALICHANDRAPUR	3312		
9059	HTConductor	HT Conductor	Line				CHHATIA	3313		
9060	HTConductor	HT Conductor	Line				CHHIBATIA	3321		
9061	HTConductor	HT Conductor	Line				CHOUDWAR-1	3322		
9062	HTConductor	HT Conductor	Line				CHOUDWAR-2	3323		
9063	HTConductor	HT Conductor	Line				ADASPUR	3331		
9064	HTConductor	HT Conductor	Line				BALIKUDA	3332		
9065	HTConductor	HT Conductor	Line				GOBINDPUR	3333		
9066	HTConductor	HT Conductor	Line				NIALI-1	3341		
9067	HTConductor	HT Conductor	Line				NIALI-2	3342		
9068	HTConductor	HT Conductor	Line				SITHALO	3343		
9069	HTConductor	HT Conductor	Line				BARAMBA	3411		
9070	HTConductor	HT Conductor	Line				KANPUR	3412		
9071	HTConductor	HT Conductor	Line				NARASINGPUR	3413		
9072	HTConductor	HT Conductor	Line				SECTION-4	3414		
9073	HTConductor	HT Conductor	Line				ATHAGADA-1	3421		
9074	HTConductor	HT Conductor	Line				ATHAGADA-2	3422		
9075	HTConductor	HT Conductor	Line				KHURTHI	3423		
9076	HTConductor	HT Conductor	Line				NUAPATNA	3424		
9077	HTConductor	HT Conductor	Line				TIGIRIA	3425		
9078	HTConductor	HT Conductor	Line				ERKANA	3511		
9079	HTConductor	HT Conductor	Line				KOTHAPADA	3512		
9080	HTConductor	HT Conductor	Line				MAHANGA SEC OFF	3513		
9081	HTConductor	HT Conductor	Line				ASURESWAR	3521		
9082	HTConductor	HT Conductor	Line				N KOILI	3522		
9083	HTConductor	HT Conductor	Line				ORIKANTA	3523		
9084	HTConductor	HT Conductor	Line				BAHUGRAM	3531		
9085	HTConductor	HT Conductor	Line				RASILINGUDA	3532		
9086	HTConductor	HT Conductor	Line				SALIPUR-1	3533		
9087	HTConductor	HT Conductor	Line				SALIPUR-2	3534		
9088	HTConductor	HT Conductor	Line				BHAPUR	4111		
9089	HTConductor	HT Conductor	Line				DKL SEC-1	4112		
9090	HTConductor	HT Conductor	Line				DKL SEC-2	4113		
9091	HTConductor	HT Conductor	Line				DKL SEC-3	4114		
9092	HTConductor	HT Conductor	Line				GONDIA SEC OFF	4121		
9093	HTConductor	HT Conductor	Line				JORANDA	4122		
9094	HTConductor	HT Conductor	Line				NIHAL PRASAD	4123		
9095	HTConductor	HT Conductor	Line				HINDOL	4131		
9096	HTConductor	HT Conductor	Line				HINDOL ROAD S/O	4132		
9097	HTConductor	HT Conductor	Line				KHAJURIAKATA	4133		
9098	HTConductor	HT Conductor	Line				BHUBAN	4241		
9099	HTConductor	HT Conductor	Line				K NAGAR	4242		
9100	HTConductor	HT Conductor	Line				KALIPANI	4243		
9101	HTConductor	HT Conductor	Line				KANKADA HADA	4244		
9102	HTConductor	HT Conductor	Line				M K GOLA	4245		
9103	HTConductor	HT Conductor	Line				R N PUR	4246		
9104	HTConductor	HT Conductor	Line				ANGUL NO-1	4211		
9105	HTConductor	HT Conductor	Line				ANGUL NO-2	4212		
9106	HTConductor	HT Conductor	Line				ANGUL NO-3	4213		
9107	HTConductor	HT Conductor	Line				BANTALA	4214		
9108	HTConductor	HT Conductor	Line				BOINDA SEC OFF	4221		
9109	HTConductor	HT Conductor	Line				BAMUR	4222		
9110	HTConductor	HT Conductor	Line				ATHAMALIK	4223		
9111	HTConductor	HT Conductor	Line				CHHENDIPADA	4231		
9112	HTConductor	HT Conductor	Line				JARPADA	4232		
9113	HTConductor	HT Conductor	Line				KOSALA	4233		
9114	HTConductor	HT Conductor	Line				BANARIPAL	4311		
9115	HTConductor	HT Conductor	Line				CHARNIPAL SEC OFF	4312		
9116	HTConductor	HT Conductor	Line				MERAMANDALI	4313		
9117	HTConductor	HT Conductor	Line				KHAMARA	4321		
9118	HTConductor	HT Conductor	Line				PALLAHARA SEC OFF	4322		
9119	HTConductor	HT Conductor	Line				PARBI	4323		
9120	HTConductor	HT Conductor	Line				RENGALI	4324		
9121	HTConductor	HT Conductor	Line				PARJANG-1	4331		
9122	HTConductor	HT Conductor	Line				PARJANG-2	4332		
9123	HTConductor	HT Conductor	Line				HATATOTA	4341		
9124	HTConductor	HT Conductor	Line				KANINIA	4342		
9125	HTConductor	HT Conductor	Line				KAMALA	4343		
9126	HTConductor	HT Conductor	Line				SOUTH BALANDA	4344		
9127	HTConductor	HT Conductor	Line				TALCHER SEC OFF	4345		
9128	HTConductor	HT Conductor	Line				AUL SEC OFF	5111		
9129	HTConductor	HT Conductor	Line				BHUNIPUR	5121		
9130	HTConductor	HT Conductor	Line				OLAVER	5122		
9131	HTConductor	HT Conductor	Line				RAJIKANIKA	5123		
9132	HTConductor	HT Conductor	Line				CHHATA	5124		
9133	HTConductor	HT Conductor	Line				DANPUR	5125		
9134	HTConductor	HT Conductor	Line				HINDUPUR	5126		
9135	HTConductor	HT Conductor	Line				KENDRAPARA-1	5127		
9136	HTConductor	HT Conductor	Line				KENDRAPARA-2	5128		
9137	HTConductor	HT Conductor	Line				KENDRAPARA-3	5129		
9138	HTConductor	HT Conductor	Line				DANDISAI	5131		
9139	HTConductor	HT Conductor	Line				PATRAPUR	5132		
9140	HTConductor	HT Conductor	Line				PATTAMUNDAL-1	5133		
9141	HTConductor	HT Conductor	Line				PATTAMUNDAL-2	5134		
9142	HTConductor	HT Conductor	Line				PATTAMUNDAL-3	5135		
9143	HTConductor	HT Conductor	Line				RAINAGAR-1	5141		
9144	HTConductor	HT Conductor	Line				RAINAGAR-2	5142		
9145	HTConductor	HT Conductor	Line				TALACHUA	5143		
9146	HTConductor	HT Conductor	Line				BABAR	5211		
9147	HTConductor	HT Conductor	Line				LUNA	5212		
9148	HTConductor	HT Conductor	Line				MAHAKALAPADA	5213		
9149	HTConductor	HT Conductor	Line				GARDAPUR	5221		
9150	HTConductor	HT Conductor	Line				KORUA	5222		
9151	HTConductor	HT Conductor	Line				MARSHAGHA S/D	5223		
9152	HTConductor	HT Conductor	Line				NUAFADA	5224		
9153	HTConductor	HT Conductor	Line				BALIKUDA-1	5311		
9154	HTConductor	HT Conductor	Line				BALIKUDA-2	5312		
9155	HTConductor	HT Conductor	Line				NAUGAON	5313		
9156	HTConductor	HT Conductor	Line				DHIASAI	5321		
9157	HTConductor	HT Conductor	Line				J S PUR-1	5322		
9158	HTConductor	HT Conductor	Line				J S PUR-2	5323		
9159	HTConductor	HT Conductor	Line				MANDSAHI	5324		
9160	HTConductor	HT Conductor	Line				BIRDI	5331		
9161	HTConductor	HT Conductor	Line				RAGHUNATHPUR S/O	5332		
9162	HTConductor	HT Conductor	Line				CHATUA	5411		
9163	HTConductor	HT Conductor	Line				KUJANG	5412		
9164	HTConductor	HT Conductor	Line				RAHAMA	5413		
9165	HTConductor	HT Conductor	Line				BHUTAMUNDAI	5421		
9166	HTConductor	HT Conductor	Line				PARADEEP SEC OFF	5422		
9167	HTConductor	HT Conductor	Line				ERSAMA	5431		
9168	HTConductor	HT Conductor	Line				KOLAR	5432		
9169	HTConductor	HT Conductor	Line				TIRTOL	5433		
9170	HTConductor	HT Conductor	Line				SUB DIVISION-1,BBSR	1110		YES
9171	HTConductor	HT Conductor	Line				SUB DIVISION-2,BBSR	1120		
9172	HTConductor	HT Conductor	Line				SUB DIVISION-3,BBSR	1130		
9173	HTConductor	HT Conductor	Line				KHANDAGIRI	1210		
9174	HTConductor	HT Conductor	Line				NAIPALLI	1220		
9175	HTConductor	HT Conductor	Line				PERIPHERI	1230		
9176	HTConductor	HT Conductor	Line				RASULGARH	1310		
9177	HTConductor	HT Conductor	Line				TEMPLE	1320		
9178	HTConductor	HT Conductor	Line				KAKATPUR	1410		

9179	HTConductor	HT Conductor	Line			NIMAPARA	1420						
9180	HTConductor	HT Conductor	Line			PIPII	1438						
9181	HTConductor	HT Conductor	Line			BANKI	2110						
9182	HTConductor	HT Conductor	Line			BEGUNIA	2120						
9183	HTConductor	HT Conductor	Line			JANKIA	2130						
9184	HTConductor	HT Conductor	Line			JATNI	2140						
9185	HTConductor	HT Conductor	Line			KHURDA	2150						
9186	HTConductor	HT Conductor	Line			DASPALLA	2210						
9187	HTConductor	HT Conductor	Line			ITAMATI	2220						
9188	HTConductor	HT Conductor	Line			KHANDAPADA	2230						
9189	HTConductor	HT Conductor	Line			NAYAGARH	2240						
9190	HTConductor	HT Conductor	Line			BALISAGAN	2310						
9191	HTConductor	HT Conductor	Line			TANGI	2320						
9192	HTConductor	HT Conductor	Line			PURI-1	2410						
9193	HTConductor	HT Conductor	Line			PURI-2	2420						
9194	HTConductor	HT Conductor	Line			PURI-3	2430						
9195	HTConductor	HT Conductor	Line			SAKHIGOPAL	2440						
9196	HTConductor	HT Conductor	Line			SUB DIVISION-1,CTC	3110						
9197	HTConductor	HT Conductor	Line			SUB DIVISION-3,CTC	3120						
9198	HTConductor	HT Conductor	Line			SUB DIVISION-4,CTC	3130						
9199	HTConductor	HT Conductor	Line			SUB DIVISION-6,CTC	3140						
9200	HTConductor	HT Conductor	Line			BADAMBADI	3210						
9201	HTConductor	HT Conductor	Line			JOBRA	3220						
9202	HTConductor	HT Conductor	Line	Subdivision	Subdivision	MAHANADIVIHAR	3230	Text		14			
9203	HTConductor	HT Conductor	Line			BADACHANA	3310						
9204	HTConductor	HT Conductor	Line			CHOUJDWAR	3320						
9205	HTConductor	HT Conductor	Line			GOPALPUR	3330						
9206	HTConductor	HT Conductor	Line			NIALI	3340						
9207	HTConductor	HT Conductor	Line			NARASINGPUR	3410						
9208	HTConductor	HT Conductor	Line			ATHAGADA	3420						
9209	HTConductor	HT Conductor	Line			MAHANGA	3510						
9210	HTConductor	HT Conductor	Line			N KOLU	3520						
9211	HTConductor	HT Conductor	Line			SALPUR	3530						
9212	HTConductor	HT Conductor	Line			DHENKANAL	4110						
9213	HTConductor	HT Conductor	Line			GONDIA	4120						
9214	HTConductor	HT Conductor	Line			HINDOL ROAD	4130						
9215	HTConductor	HT Conductor	Line			KAMAKHYA NAGAR	4140						
9216	HTConductor	HT Conductor	Line			ANGUL	4210						
9217	HTConductor	HT Conductor	Line			BOINDA	4220						
9218	HTConductor	HT Conductor	Line			CHENDIPADA	4230						
9219	HTConductor	HT Conductor	Line			CHAINPAL	4310						
9220	HTConductor	HT Conductor	Line			PALASHARA	4320						
9221	HTConductor	HT Conductor	Line			PARIANG	4330						
9222	HTConductor	HT Conductor	Line			TALCHER	4340						
9223	HTConductor	HT Conductor	Line			AUL	5110						
9224	HTConductor	HT Conductor	Line			KENDRAPARA	5120						
9225	HTConductor	HT Conductor	Line			PATTARLINDAI	5130						
9226	HTConductor	HT Conductor	Line			RAINAGAR	5140						
9227	HTConductor	HT Conductor	Line			MAHAKALAPADA	5210						
9228	HTConductor	HT Conductor	Line			MARSHAGHAI	5220						
9229	HTConductor	HT Conductor	Line			BAKULUDA	5310						
9230	HTConductor	HT Conductor	Line			JAGATISINGPUR	5320						
9231	HTConductor	HT Conductor	Line			RAGHUNATHPUR	5330						
9232	HTConductor	HT Conductor	Line			KUJANGA	5410						
9233	HTConductor	HT Conductor	Line			PARADEEP	5420						
9234	HTConductor	HT Conductor	Line			TIRTOL	5430						
9235	HTConductor	HT Conductor	Line			BCDD-1	11					YES	
9236	HTConductor	HT Conductor	Line			BCDD-2	12						
9237	HTConductor	HT Conductor	Line			BED	13						
9238	HTConductor	HT Conductor	Line			NED	14						
9239	HTConductor	HT Conductor	Line			KHD	21						
9240	HTConductor	HT Conductor	Line			PATREDD	22						
9241	HTConductor	HT Conductor	Line			BAED	23						
9242	HTConductor	HT Conductor	Line			PED	24						
9243	HTConductor	HT Conductor	Line	Division	Division	CDD-1	31	Text		6			
9244	HTConductor	HT Conductor	Line			CDD-2	32						
9245	HTConductor	HT Conductor	Line			AED	33						
9246	HTConductor	HT Conductor	Line			AED	34						
9247	HTConductor	HT Conductor	Line			SED	35						
9248	HTConductor	HT Conductor	Line			DED	41						
9249	HTConductor	HT Conductor	Line			ANED	42						
9250	HTConductor	HT Conductor	Line			TED	43						
9251	HTConductor	HT Conductor	Line			KED-1	51						
9252	HTConductor	HT Conductor	Line			KED-2	52						
9253	HTConductor	HT Conductor	Line			JED	53						
9254	HTConductor	HT Conductor	Line			PJP	54						
9255	HTConductor	HT Conductor	Line			BBSR-1	1					YES	
9256	HTConductor	HT Conductor	Line			BBSR-2	2						
9257	HTConductor	HT Conductor	Line	Circle	Circle	CTC	3	Text		6			
9258	HTConductor	HT Conductor	Line			DKL	4						
9259	HTConductor	HT Conductor	Line			PPD	5						
9260	HTConductor	HT Conductor	Line	Zone	Zone	TPCODL	1	Text	6		YES		
9261	HTConductor	HT Conductor	Line	EA Equipment	EA Equipment			Text	50				
9262	HTConductor	HT Conductor	Line	WorkOrderID	Work Order ID			Text	50		Integration Field		
9263	HTConductor	HT Conductor	Line	SurveyorRemark	Surveyor Remark			Text	250				
9264	HTConductor	HT Conductor	Line	MMELECTRICTRACEWEIGHT	MM Electric Trace Weight			Long Integer			System Field		
9265	HTConductor	HT Conductor	Line	FEEDERINFO	Feeder Info			Long Integer			System Field		
9266	HTConductor	HT Conductor	Line	MaterialCode	Material Code			Text	9		Integration Field		
9267	HTConductor	HT Conductor	Line	SHAPE	Shape			Geometry	4		System Field		
9268	HTConductor	HT Conductor	Line	SAPFunctionalLocation	SAP Functional Location			Text	50		Integration Field		
9269	HTConductor	HT Conductor	Line	Impedance	Impedance			Text	50				
9270	HTConductor	HT Conductor	Line	Resistance	Resistance			Text	50				
9271	HTConductor	HT Conductor	Line	SSFacilityIDFK	SS Facility ID FK			Text	50		System Field		
9272	HTConductor	HT Conductor	Line	RMUFacilityIDFK	RMU Facility ID FK			Text	50		System Field		
9273	HTConductor	HT Conductor	Line	ShapeLength	Shape Length			Text	50		System Field		
9274	HTConductor	HT Conductor	Line	CYMESubstationCode	CYME Substation Code			Text	5				
9275	HTConductor	HT Conductor	Line	SHAPE.STLength()	SHAPE.STLength()			Double			System Field		
9276	HTConductor	HT Conductor	Line				New	New			Integration Field		
9277	HTConductor	HT Conductor	Line	UpdationType	Updation Type		Modification	Modification			Text	12	
9278	HTConductor	HT Conductor	Line				Delete	Delete					
9279	Jumper	Jumper	Point	OBJECTID	Object ID			Object ID			System Field		
9280	Jumper	Jumper	Point	InstalledL_location	Installed Location		Pole	1			short Integer	YES	
9281	Jumper	Jumper	Point	LocationID	Location ID						Text	50	YES
9282	Jumper	Jumper	Point	GISID	GIS ID						Text	50	
9283	Jumper	Jumper	Point	NIN	NIN						Text	50	
9284	Jumper	Jumper	Point	FeederID	Feeder ID						Text	9	YES
9285	Jumper	Jumper	Point	FeederID2	Feeder ID2						Text	9	Modify on 08.04.2021
9286	Jumper	Jumper	Point	FeederName	Feeder Name						Text	50	YES
9287	Jumper	Jumper	Point			R		4					YES
9288	Jumper	Jumper	Point			Y		2					
9289	Jumper	Jumper	Point			B		1					
9290	Jumper	Jumper	Point	Phasedesignation	Phase	RY		6			short Integer		
9291	Jumper	Jumper	Point			YB		3					
9292	Jumper	Jumper	Point			RB		5					
9293	Jumper	Jumper	Point			RBY		7					
9294	Jumper	Jumper	Point			0.11 kV		120					YES
9295	Jumper	Jumper	Point			0.24 kV		160					
9296	Jumper	Jumper	Point			0.43 kV		210					
9297	Jumper	Jumper	Point			100 kV		90					
9298	Jumper	Jumper	Point			11 kV		340					
9299	Jumper	Jumper	Point	Voltage	Voltage (kV)	132 kV		110			short Integer		
9300	Jumper	Jumper	Point			22 kV		360					
9301	Jumper	Jumper	Point			33 kV		380					
9302	Jumper	Jumper	Point			66 kV		80					
9303	Jumper	Jumper	Point			220 kV		150					
9304	Jumper	Jumper	Point			400 kV		260					
9305	Jumper	Jumper	Point			Open		0					YES
9306	Jumper	Jumper	Point	NormalStatus	Normal Status	Close		1			Long Integer		
9307	Jumper	Jumper	Point			Not Applicable		2					
9308	Jumper	Jumper	Point			Open		0					
9309	Jumper	Jumper	Point	NormalPositionR	Normal Position R	Close		1			Long Integer		
9310	Jumper	Jumper	Point			Not Applicable		2					
9311	Jumper	Jumper	Point			Open		0					
9312	Jumper	Jumper	Point	NormalPositionY	Normal Position Y	Close		1			Long Integer		
9313	Jumper	Jumper	Point			Not Applicable		2					

9314	Jumper	Jumper	Point	NormalPositionB	Normal Position B	Open	0				
9315	Jumper	Jumper	Point			Close	1				
9316	Jumper	Jumper	Point			Not Applicable	2	Long Integer			
9317	Jumper	Jumper	Point	PresentPositionR	Present Position R	Open	0				
9318	Jumper	Jumper	Point			Close	1	Long Integer			
9319	Jumper	Jumper	Point			Not Applicable	2				
9320	Jumper	Jumper	Point	PresentPositionY	Present Position Y	Open	0				
9321	Jumper	Jumper	Point			Close	1	Long Integer			
9322	Jumper	Jumper	Point			Not Applicable	2				
9323	Jumper	Jumper	Point	PresentPositionB	Present Position B	Open	0				
9324	Jumper	Jumper	Point			Close	1	Long Integer			
9325	Jumper	Jumper	Point			Not Applicable	2				
9326	Jumper	Jumper	Point			200	1		YES		
9327	Jumper	Jumper	Point			400	2				
9328	Jumper	Jumper	Point			600	3				
9329	Jumper	Jumper	Point	NormalRatedCurrent	Normal Rated Current	800	4	short Integer			
9330	Jumper	Jumper	Point			1000	5				
9331	Jumper	Jumper	Point			1250	6				
9332	Jumper	Jumper	Point			2000	7				
9333	Jumper	Jumper	Point			Other	999				
9334	Jumper	Jumper	Point	CurrentLimit	Current Limit			Text	50		
9335	Jumper	Jumper	Point	BreakingCurrent	Breaking Current			Text	10		
9336	Jumper	Jumper	Point			Make		Text	50		
9337	Jumper	Jumper	Point	SerialNumber	Serial Number			Text	50		
9338	Jumper	Jumper	Point			Cost		Text	10		
9339	Jumper	Jumper	Point	FeederCode	Feeder Code			Text	3		
9340	Jumper	Jumper	Point	CutPoint	Cut Point	Yes	Yes	Text	3	YES	
9341	Jumper	Jumper	Point			No	No	Text	3	YES	
9342	Jumper	Jumper	Point	SHAPE	Shape			Geometry	4	System Field	
9343	Jumper	Jumper	Point	SAPFunctionalLocation	SAP Functional Location			Text	50	Integration Field	
9344	Jumper	Jumper	Point			Connected	1			YES	
9345	Jumper	Jumper	Point	ConnectionStatus	Connection Status	Disconnected	2				
9346	Jumper	Jumper	Point			Bypassed	3	Text	12		
9347	Jumper	Jumper	Point			Dismanle	4				
9348	Jumper	Jumper	Point			BRIT COLONY	1111			YES	
9349	Jumper	Jumper	Point			DELTA	1112				
9350	Jumper	Jumper	Point			POWER HOUSE-1	1113				
9351	Jumper	Jumper	Point			UNIT-6	1114				
9352	Jumper	Jumper	Point			POWER HOUSE-2	1115				
9353	Jumper	Jumper	Point			KARVEL NAGAR	1121				
9354	Jumper	Jumper	Point			UNIT-1	1122				
9355	Jumper	Jumper	Point			UNIT-2	1123				
9356	Jumper	Jumper	Point			UNIT-4	1124				
9357	Jumper	Jumper	Point			BOARD COLONY	1131				
9358	Jumper	Jumper	Point			SAHD NAGAR	1132				
9359	Jumper	Jumper	Point			UNIT-9 FLAT	1133				
9360	Jumper	Jumper	Point			UNIT-9 ROAD	1134				
9361	Jumper	Jumper	Point			BHARATPUR	1211				
9362	Jumper	Jumper	Point			DUMUDUMA	1212				
9363	Jumper	Jumper	Point			KALINGANAGAR	1213				
9364	Jumper	Jumper	Point			KHAMDAGIRI S/O	1214				
9365	Jumper	Jumper	Point			BARAMUNDA	1221				
9366	Jumper	Jumper	Point			IRC NAYAPALLI	1222				
9367	Jumper	Jumper	Point			VSS NAGAR	1223				
9368	Jumper	Jumper	Point			XAVIER	1224				
9369	Jumper	Jumper	Point			BARANG	1231				
9370	Jumper	Jumper	Point			CS PUR-1	1232				
9371	Jumper	Jumper	Point			CS PUR-2	1233				
9372	Jumper	Jumper	Point			GODISAH	1234				
9373	Jumper	Jumper	Point			KANANVIHAR	1235				
9374	Jumper	Jumper	Point			KALPANA-1	1311				
9375	Jumper	Jumper	Point			KALPANA-2	1312				
9376	Jumper	Jumper	Point			LAXMISAGAR	1313				
9377	Jumper	Jumper	Point			MANCHESWAR	1314				
9378	Jumper	Jumper	Point			PHULNAKHARA	1315				
9379	Jumper	Jumper	Point			RASULAGARH S/O	1316				
9380	Jumper	Jumper	Point			BHARAGADA	1321				
9381	Jumper	Jumper	Point			DHAULI	1322				
9382	Jumper	Jumper	Point			OLD TOWN-1	1323				
9383	Jumper	Jumper	Point			OLD TOWN-2	1324				
9384	Jumper	Jumper	Point			OLD TOWN-3	1325				
9385	Jumper	Jumper	Point			LITTARA	1326				
9386	Jumper	Jumper	Point			ASTARANG	1411				
9387	Jumper	Jumper	Point			KAKATPUR-1	1412				
9388	Jumper	Jumper	Point			KAKATPUR-2	1413				
9389	Jumper	Jumper	Point			SOP	1421				
9390	Jumper	Jumper	Point			KONARK	1422				
9391	Jumper	Jumper	Point			NIMAPARA-1	1423				
9392	Jumper	Jumper	Point			NIMAPARA-2	1424				
9393	Jumper	Jumper	Point			BALAKATI	1431				
9394	Jumper	Jumper	Point			BALUPATIUA	1432				
9395	Jumper	Jumper	Point			BHARATPUR	1433				
9396	Jumper	Jumper	Point			PIPLI-1	1434				
9397	Jumper	Jumper	Point			PIPLI-2	1435				
9398	Jumper	Jumper	Point			BANKI-1	2111				
9399	Jumper	Jumper	Point			BANKI-2	2112				
9400	Jumper	Jumper	Point			BANKI-3	2113				
9401	Jumper	Jumper	Point			BAGHAMARI	2121				
9402	Jumper	Jumper	Point			BEGUNIA S/O	2122				
9403	Jumper	Jumper	Point			KALAPATHAR	2123				
9404	Jumper	Jumper	Point			RASULAGARH S/O	2124				
9405	Jumper	Jumper	Point			KANKIA SEC OFF	2131				
9406	Jumper	Jumper	Point			MALIPADA	2132				
9407	Jumper	Jumper	Point			NIRAKARPUR	2133				
9408	Jumper	Jumper	Point			HARIRAPUR	2141				
9409	Jumper	Jumper	Point			JANUA	2142				
9410	Jumper	Jumper	Point			JATANI-1	2143				
9411	Jumper	Jumper	Point			JATANI-2	2144				
9412	Jumper	Jumper	Point			KHURDA-1	2151				
9413	Jumper	Jumper	Point			KHURDA-2	2152				
9414	Jumper	Jumper	Point			KHURDA-3	2153				
9415	Jumper	Jumper	Point			KHURDA-4	2154				
9416	Jumper	Jumper	Point			DASPALLA	2211				
9417	Jumper	Jumper	Point			GANIA	2212				
9418	Jumper	Jumper	Point			NUAGAON	2213				
9419	Jumper	Jumper	Point			BOLAGARH	2221				
9420	Jumper	Jumper	Point			ITAMATI-1	2222				
9421	Jumper	Jumper	Point			ITAMATI-2	2223				
9422	Jumper	Jumper	Point			BHAPUR-1	2231				
9423	Jumper	Jumper	Point			BHAPUR-2	2232				
9424	Jumper	Jumper	Point			KANTILO	2233				
9425	Jumper	Jumper	Point			KHANDAPADA	2234				
9426	Jumper	Jumper	Point			NAYAGARH	2241				
9427	Jumper	Jumper	Point			ODAGAON-1	2242				
9428	Jumper	Jumper	Point			ODAGAON-2	2243				
9429	Jumper	Jumper	Point			PERIPHERY S/O	2244				
9430	Jumper	Jumper	Point			SARANAKUL-1	2245				
9431	Jumper	Jumper	Point			SARANAKUL-2	2246				
9432	Jumper	Jumper	Point			BALUGAON-1	2311				
9433	Jumper	Jumper	Point			BALUGAON-2	2312				
9434	Jumper	Jumper	Point			BANAPUR-1	2313				
9435	Jumper	Jumper	Point			BANAPUR-2	2314				
9436	Jumper	Jumper	Point			NACHUNI	2315				
9437	Jumper	Jumper	Point			BHUSANDPUR	2321				
9438	Jumper	Jumper	Point			KUHUDI	2322				
9439	Jumper	Jumper	Point			WANAPUR	2323				
9440	Jumper	Jumper	Point			TANGI-1	2324				
9441	Jumper	Jumper	Point			TANGI-2	2325				
9442	Jumper	Jumper	Point			BALAPANDA	2411				
9443	Jumper	Jumper	Point			KACHERI	2412				
9444	Jumper	Jumper	Point			PASCHIMADWAR	2413				
9445	Jumper	Jumper	Point			SWARGADWAR	2414				
9446	Jumper	Jumper	Point			BRAHMAGIRI	2421				
9447	Jumper	Jumper	Point			DELANGA	2422				
9448	Jumper	Jumper	Point			KANAS	2423				

9584	Jumper	Jumper	Point			J5 PUR-2	5323					
9585	Jumper	Jumper	Point			MANQSAHI	5324					
9586	Jumper	Jumper	Point			BRIDI	5331					
9587	Jumper	Jumper	Point			RAGHUNATHPUR S/O	5332					
9588	Jumper	Jumper	Point			CHATUA	5411					
9589	Jumper	Jumper	Point			KUJANG	5412					
9590	Jumper	Jumper	Point			RAVAMA	5413					
9591	Jumper	Jumper	Point			BHUTAMUNDAI	5421					
9592	Jumper	Jumper	Point			PARADEEP SEC OFF	5422					
9593	Jumper	Jumper	Point			ERSAMA	5431					
9594	Jumper	Jumper	Point			KOLAR	5432					
9595	Jumper	Jumper	Point			TIRTOL	5433					
9596	Jumper	Jumper	Point			SUB DIVISION-1,BBSR	1110			YES		
9597	Jumper	Jumper	Point			SUB DIVISION-2,BBSR	1120					
9598	Jumper	Jumper	Point			SUB DIVISION-3,BBSR	1130					
9599	Jumper	Jumper	Point			KHANDAGIRI	1210					
9600	Jumper	Jumper	Point			NAYAPALI	1220					
9601	Jumper	Jumper	Point			PERIPHERI	1230					
9602	Jumper	Jumper	Point			RASULGARH	1310					
9603	Jumper	Jumper	Point			TEMPLE	1320					
9604	Jumper	Jumper	Point			KAKATPUR	1410					
9605	Jumper	Jumper	Point			NIMAPARA	1420					
9606	Jumper	Jumper	Point			PIPLI	1430					
9607	Jumper	Jumper	Point			BANKI	2110					
9608	Jumper	Jumper	Point			BEGUNIA	2120					
9609	Jumper	Jumper	Point			JANKIA	2130					
9610	Jumper	Jumper	Point			JATNI	2140					
9611	Jumper	Jumper	Point			KHURDA	2150					
9612	Jumper	Jumper	Point			DASPALLA	2210					
9613	Jumper	Jumper	Point			ITAMATI	2220					
9614	Jumper	Jumper	Point			KHANDAPADA	2230					
9615	Jumper	Jumper	Point			NAYAGARH	2240					
9616	Jumper	Jumper	Point			BALLGAGN	2310					
9617	Jumper	Jumper	Point			TANGI	2320					
9618	Jumper	Jumper	Point			PURI-1	2410					
9619	Jumper	Jumper	Point			PURI-2	2420					
9620	Jumper	Jumper	Point			PURI-3	2430					
9621	Jumper	Jumper	Point			SAKHGOPAL	2440					
9622	Jumper	Jumper	Point			SUB DIVISION-1,CTC	3110					
9623	Jumper	Jumper	Point			SUB DIVISION-3,CTC	3120					
9624	Jumper	Jumper	Point			SUB DIVISION-4,CTC	3130					
9625	Jumper	Jumper	Point			SUB DIVISION-6,CTC	3140					
9626	Jumper	Jumper	Point			BADAMBADI	3210					
9627	Jumper	Jumper	Point			JOBRA	3220					
9628	Jumper	Jumper	Point	Subdivision	Subdivision	MAHANADIVIHAR	3230	Text	14			
9629	Jumper	Jumper	Point			BADACHANA	3310					
9630	Jumper	Jumper	Point			KALASIA	3320					
9631	Jumper	Jumper	Point			GOPALPUR	3330					
9632	Jumper	Jumper	Point			NIALI	3340					
9633	Jumper	Jumper	Point			NARASINGPUR	3410					
9634	Jumper	Jumper	Point			ATHAGADA	3420					
9635	Jumper	Jumper	Point			MAHANGA	3510					
9636	Jumper	Jumper	Point			N KOILI	3520					
9637	Jumper	Jumper	Point			SALIPUR	3530					
9638	Jumper	Jumper	Point			DHEKANAL	4110					
9639	Jumper	Jumper	Point			GONDIA	4120					
9640	Jumper	Jumper	Point			HINDOL ROAD	4130					
9641	Jumper	Jumper	Point			KAMAKHYA NAGAR	4140					
9642	Jumper	Jumper	Point			ANGULI	4210					
9643	Jumper	Jumper	Point			BOINDA	4220					
9644	Jumper	Jumper	Point			CHENDIPADA	4230					
9645	Jumper	Jumper	Point			CHAMPAL	4310					
9646	Jumper	Jumper	Point			PALLAHARA	4320					
9647	Jumper	Jumper	Point			PARANG	4330					
9648	Jumper	Jumper	Point			TALCHER	4340					
9649	Jumper	Jumper	Point			AUL	5110					
9650	Jumper	Jumper	Point			KENDRAPARA	5120					
9651	Jumper	Jumper	Point			PATTAMUNDAI	5130					
9652	Jumper	Jumper	Point			RAINAGAR	5140					
9653	Jumper	Jumper	Point			MAHAKALAPADA	5210					
9654	Jumper	Jumper	Point			MARSHAGHAI	5220					
9655	Jumper	Jumper	Point			BALUDA	5310					
9656	Jumper	Jumper	Point			JAGATSINGPUR	5320					
9657	Jumper	Jumper	Point			RAGHUNATHPUR	5330					
9658	Jumper	Jumper	Point			KUJANGA	5410					
9659	Jumper	Jumper	Point			PARADEEP	5420					
9660	Jumper	Jumper	Point			TIRTOL	5430					
9661	Jumper	Jumper	Point			BCDD-1	11			YES		
9662	Jumper	Jumper	Point			BCDD-2	12					
9663	Jumper	Jumper	Point			BED	13					
9664	Jumper	Jumper	Point			NED	14					
9665	Jumper	Jumper	Point			KHD	21					
9666	Jumper	Jumper	Point			NYED	22					
9667	Jumper	Jumper	Point			BAED	23					
9668	Jumper	Jumper	Point			PED	24					
9669	Jumper	Jumper	Point			CDD-1	31					
9670	Jumper	Jumper	Point			CDD-2	32					
9671	Jumper	Jumper	Point	Division	Division	CED	33	Text	6			
9672	Jumper	Jumper	Point			AED	34					
9673	Jumper	Jumper	Point			SED	35					
9674	Jumper	Jumper	Point			DED	41					
9675	Jumper	Jumper	Point			ANED	42					
9676	Jumper	Jumper	Point			TED	43					
9677	Jumper	Jumper	Point			KED-1	51					
9678	Jumper	Jumper	Point			KED-2	52					
9679	Jumper	Jumper	Point			HD	53					
9680	Jumper	Jumper	Point			PDP	54					
9681	Jumper	Jumper	Point			BBSR-1	1			YES		
9682	Jumper	Jumper	Point			BBSR-2	2					
9683	Jumper	Jumper	Point	Circle	Circle	CTC	3	Text	6			
9684	Jumper	Jumper	Point			DNL	4					
9685	Jumper	Jumper	Point			PDP	5					
9686	Jumper	Jumper	Point	Zone	Zone	TPCODL	1	Text	6	YES		
9687	Jumper	Jumper	Point	EA Equipment	EA Equipment			Text	50			
9688	Jumper	Jumper	Point	SAPID	SAP ID			Text	50			
9689	Jumper	Jumper	Point	MaterialCode	Material Code			Text	9	Integration Field		
9690	Jumper	Jumper	Point	WorkOrderID	Work Order ID			Text	50	Integration Field		
9691	Jumper	Jumper	Point	SurveyorRemark	Surveyor Remark			Text	250			
9692	Jumper	Jumper	Point	LocationCodeX	Location Code X			Double		System Field		
9693	Jumper	Jumper	Point	LocationCodeY	Location Code Y			Double		System Field		
9694	Jumper	Jumper	Point	MMLELECTRICTRACEWEIGHT	MM Electric Trace Weight			Long Integer		System Field		
9695	Jumper	Jumper	Point	FEEDERINFO	Feeder Info			Long Integer		System Field		
9696	Jumper	Jumper	Point	SSFacilityIDFK	SS Facility ID FK			Text	50	System Field		
9697	Jumper	Jumper	Point							Integration Field		
9698	Jumper	Jumper	Point	UpdationType	Updation Type	New	New	Text	12			
9699	Jumper	Jumper	Point			Modification	Modification					
9700	RingMainUnit	Ring Main Unit	Point	OBJECTID	Object ID	Delete	Delete	Object ID		System Field		
9701	RingMainUnit	Ring Main Unit	Point	Name	Name			Text	250	YES		
9702	RingMainUnit	Ring Main Unit	Point	GISID	GIS ID			Text	50			
9703	RingMainUnit	Ring Main Unit	Point	NIN	NIN			Text	50			
9704	RingMainUnit	Ring Main Unit	Point	ToGISID	To GIS ID			Text	50			
9705	RingMainUnit	Ring Main Unit	Point	FromGISID	From GIS ID			Text	50			
9706	RingMainUnit	Ring Main Unit	Point	FeederID	Feeder ID			Text	9	YES	Modify on 08.04.2021	
9707	RingMainUnit	Ring Main Unit	Point	FeederID2	Feeder ID2			Text	9	YES	Modify on 08.04.2021	
9708	RingMainUnit	Ring Main Unit	Point	FeederName	Feeder Name			Text	50	YES		
9709	RingMainUnit	Ring Main Unit	Point			0.11 kV	120					
9710	RingMainUnit	Ring Main Unit	Point			0.24 kV	160					
9711	RingMainUnit	Ring Main Unit	Point			0.43 kV	210					
9712	RingMainUnit	Ring Main Unit	Point			100 kV	90					
9713	RingMainUnit	Ring Main Unit	Point			11 kV	340					
9714	RingMainUnit	Ring Main Unit	Point			132 kV	110					
9715	RingMainUnit	Ring Main Unit	Point			22 kV	360					
9716	RingMainUnit	Ring Main Unit	Point			33 kV	380					
9717	RingMainUnit	Ring Main Unit	Point			66 kV	80					
9718	RingMainUnit	Ring Main Unit	Point			220 kV	150					

9719	RingMainUnit	Ring Main Unit	Point			400 kV	260						
9720	RingMainUnit	Ring Main Unit	Point			R	4					YES	
9721	RingMainUnit	Ring Main Unit	Point			Y	2						
9722	RingMainUnit	Ring Main Unit	Point			B	1						
9723	RingMainUnit	Ring Main Unit	Point	Phasedesignation	Phase	RY	6			short Intenger			
9724	RingMainUnit	Ring Main Unit	Point			YB	3						
9725	RingMainUnit	Ring Main Unit	Point			RB	5						
9726	RingMainUnit	Ring Main Unit	Point			RYB	5						
9727	RingMainUnit	Ring Main Unit	Point			Transformer RMU	1					YES	
9728	RingMainUnit	Ring Main Unit	Point			Circuit RMU	2						
9729	RingMainUnit	Ring Main Unit	Point	Type	Type	Other RMU	3			short Intenger			
9730	RingMainUnit	Ring Main Unit	Point			Switch Board	4						
9731	RingMainUnit	Ring Main Unit	Point			C TPT	5						
9732	RingMainUnit	Ring Main Unit	Point	RatedCurrent	Rated Current						Text	50	
9733	RingMainUnit	Ring Main Unit	Point	DTCCode	DTC Code						Text	9	Modify on 08.04.2021
9734	RingMainUnit	Ring Main Unit	Point	Make	Make						Text	50	YES
9735	RingMainUnit	Ring Main Unit	Point	SerialNumber	Serial Number						Text	50	YES
9736	RingMainUnit	Ring Main Unit	Point	ManufacturingYear	Manufacturing Year						Text	50	YES
9737	RingMainUnit	Ring Main Unit	Point	DateOfCommissioning	Date Of Commissioning						Date	DD/MM/YYYY	YES
9738	RingMainUnit	Ring Main Unit	Point	LastMaintenanceDate	Last Maintenance Date						Date	DD/MM/YYYY	
9739	RingMainUnit	Ring Main Unit	Point	Warranty	Warranty						Text	50	
9740	RingMainUnit	Ring Main Unit	Point	Cost	Cost						Text	10	
9741	RingMainUnit	Ring Main Unit	Point			Connected	1						YES
9742	RingMainUnit	Ring Main Unit	Point	ConnectionStatus	Connection Status	Disconnected	2				Text	12	
9743	RingMainUnit	Ring Main Unit	Point			Bypassed	3						
9744	RingMainUnit	Ring Main Unit	Point			Dismantle	4						
9745	RingMainUnit	Ring Main Unit	Point	NumberOfWays	Number of Ways						Text	5	YES
9746	RingMainUnit	Ring Main Unit	Point			BRIT COLONY	1111						YES
9747	RingMainUnit	Ring Main Unit	Point			DELTA	1112						
9748	RingMainUnit	Ring Main Unit	Point			POWER HOUSE-1	1113						
9749	RingMainUnit	Ring Main Unit	Point			UNIT-6	1114						
9750	RingMainUnit	Ring Main Unit	Point			POWER HOUSE-2	1115						
9751	RingMainUnit	Ring Main Unit	Point			KARVEL NAGAR	1121						
9752	RingMainUnit	Ring Main Unit	Point			UNIT-1	1122						
9753	RingMainUnit	Ring Main Unit	Point			UNIT-2	1123						
9754	RingMainUnit	Ring Main Unit	Point			UNIT-4	1124						
9755	RingMainUnit	Ring Main Unit	Point			BOARD COLONY	1131						
9756	RingMainUnit	Ring Main Unit	Point			SAHID NAGAR	1132						
9757	RingMainUnit	Ring Main Unit	Point			UNIT-9 FLAT	1133						
9758	RingMainUnit	Ring Main Unit	Point			UNIT-9 ROAD	1134						
9759	RingMainUnit	Ring Main Unit	Point			BHARATPUR	1211						
9760	RingMainUnit	Ring Main Unit	Point			DIKATPUR-1	1212						
9761	RingMainUnit	Ring Main Unit	Point			KALINGANAGAR	1213						
9762	RingMainUnit	Ring Main Unit	Point			KHANDAGIRI S/O	1214						
9763	RingMainUnit	Ring Main Unit	Point			BARAMUNDA	1221						
9764	RingMainUnit	Ring Main Unit	Point			IRC NAYAPALLI	1222						
9765	RingMainUnit	Ring Main Unit	Point			YSS NAGAR	1223						
9766	RingMainUnit	Ring Main Unit	Point			XAVIER	1224						
9767	RingMainUnit	Ring Main Unit	Point			BARANG	1231						
9768	RingMainUnit	Ring Main Unit	Point			CS PUR-1	1232						
9769	RingMainUnit	Ring Main Unit	Point			CS PUR-2	1233						
9770	RingMainUnit	Ring Main Unit	Point			GODSARI	1234						
9771	RingMainUnit	Ring Main Unit	Point			KANANVIHAR	1235						
9772	RingMainUnit	Ring Main Unit	Point			KALPANA-1	1311						
9773	RingMainUnit	Ring Main Unit	Point			KALPANA-2	1312						
9774	RingMainUnit	Ring Main Unit	Point			LAXMISAGAR	1313						
9775	RingMainUnit	Ring Main Unit	Point			MANCHESWAR	1314						
9776	RingMainUnit	Ring Main Unit	Point			PHULNAKHARA	1315						
9777	RingMainUnit	Ring Main Unit	Point			RASULGARH S/O	1316						
9778	RingMainUnit	Ring Main Unit	Point			BARAGADA	1321						
9779	RingMainUnit	Ring Main Unit	Point			DHAULI	1322						
9780	RingMainUnit	Ring Main Unit	Point			OLD TOWN-1	1323						
9781	RingMainUnit	Ring Main Unit	Point			OLD TOWN-2	1324						
9782	RingMainUnit	Ring Main Unit	Point			OLD TOWN-3	1325						
9783	RingMainUnit	Ring Main Unit	Point			UTTARA	1326						
9784	RingMainUnit	Ring Main Unit	Point			ASTARANG	1411						
9785	RingMainUnit	Ring Main Unit	Point			KAKATPUR-1	1412						
9786	RingMainUnit	Ring Main Unit	Point			KAKATPUR-2	1413						
9787	RingMainUnit	Ring Main Unit	Point			GOP	1421						
9788	RingMainUnit	Ring Main Unit	Point			KONARK	1422						
9789	RingMainUnit	Ring Main Unit	Point			NIMAPARA-1	1423						
9790	RingMainUnit	Ring Main Unit	Point			NIMAPARA-2	1424						
9791	RingMainUnit	Ring Main Unit	Point			BALAKATI	1431						
9792	RingMainUnit	Ring Main Unit	Point			BALIPATNA	1432						
9793	RingMainUnit	Ring Main Unit	Point			BHARATIPUR	1433						
9794	RingMainUnit	Ring Main Unit	Point			PIPLI-1	1434						
9795	RingMainUnit	Ring Main Unit	Point			PIPLI-2	1435						
9796	RingMainUnit	Ring Main Unit	Point			BANKI-1	2111						
9797	RingMainUnit	Ring Main Unit	Point			BANKI-2	2112						
9798	RingMainUnit	Ring Main Unit	Point			BANKI-3	2113						
9799	RingMainUnit	Ring Main Unit	Point			BADRAMARI	2121						
9800	RingMainUnit	Ring Main Unit	Point			BEGUNIA S/O	2122						
9801	RingMainUnit	Ring Main Unit	Point			KALAPATHAR	2123						
9802	RingMainUnit	Ring Main Unit	Point			RAISUNAKHALA	2124						
9803	RingMainUnit	Ring Main Unit	Point			JANKIA SEC OFF	2131						
9804	RingMainUnit	Ring Main Unit	Point			MAULPADA	2132						
9805	RingMainUnit	Ring Main Unit	Point			NIRAKAPUR	2133						
9806	RingMainUnit	Ring Main Unit	Point			HARIRAPUR	2141						
9807	RingMainUnit	Ring Main Unit	Point			JANLA	2142						
9808	RingMainUnit	Ring Main Unit	Point			JATANI-1	2143						
9809	RingMainUnit	Ring Main Unit	Point			JATANI-2	2144						
9810	RingMainUnit	Ring Main Unit	Point			KHURDA-1	2151						
9811	RingMainUnit	Ring Main Unit	Point			KHURDA-2	2152						
9812	RingMainUnit	Ring Main Unit	Point			KHURDA-3	2153						
9813	RingMainUnit	Ring Main Unit	Point			KHURDA-4	2154						
9814	RingMainUnit	Ring Main Unit	Point			KASIPALLA	2211						
9815	RingMainUnit	Ring Main Unit	Point			GANIA	2212						
9816	RingMainUnit	Ring Main Unit	Point			NUAGAON	2213						
9817	RingMainUnit	Ring Main Unit	Point			BOLAGARH	2221						
9818	RingMainUnit	Ring Main Unit	Point			ITAMATI-1	2222						
9819	RingMainUnit	Ring Main Unit	Point			ITAMATI-2	2223						
9820	RingMainUnit	Ring Main Unit	Point			BHAPUR-1	2231						
9821	RingMainUnit	Ring Main Unit	Point			BHAPUR-2	2232						
9822	RingMainUnit	Ring Main Unit	Point			KANTILO	2233						
9823	RingMainUnit	Ring Main Unit	Point			KHANDAPADA	2234						
9824	RingMainUnit	Ring Main Unit	Point			NAYAGARH	2241						
9825	RingMainUnit	Ring Main Unit	Point			ODAGAON-1	2242						
9826	RingMainUnit	Ring Main Unit	Point			ODAGAON-2	2243						
9827	RingMainUnit	Ring Main Unit	Point			PERIPHERY S/O	2244						
9828	RingMainUnit	Ring Main Unit	Point			SARANAKUL-1	2245						
9829	RingMainUnit	Ring Main Unit	Point			SARANAKUL-2	2246						
9830	RingMainUnit	Ring Main Unit	Point			BALLIGAON-1	2311						
9831	RingMainUnit	Ring Main Unit	Point			BALLIGAON-2	2312						
9832	RingMainUnit	Ring Main Unit	Point			BANAPUR-1	2313						
9833	RingMainUnit	Ring Main Unit	Point			BANAPUR-2	2314						
9834	RingMainUnit	Ring Main Unit	Point			NACHUNI	2315						
9835	RingMainUnit	Ring Main Unit	Point			BHUSANDPUR	2321						
9836	RingMainUnit	Ring Main Unit	Point			KUHUDI	2322						
9837	RingMainUnit	Ring Main Unit	Point			RANAPUR	2323						
9838	RingMainUnit	Ring Main Unit	Point			TANGI-1	2324						
9839	RingMainUnit	Ring Main Unit	Point			TANGI-2	2325						
9840	RingMainUnit	Ring Main Unit	Point			BALAPANDA	2411						
9841	RingMainUnit	Ring Main Unit	Point			KACHERI	2412						
9842	RingMainUnit	Ring Main Unit	Point			PASCHIMADWAR	2413						
9843	RingMainUnit	Ring Main Unit	Point			SWARGADWAR	2414						
9844	RingMainUnit	Ring Main Unit	Point			BRAHMAGIRI	2421						
9845	RingMainUnit	Ring Main Unit	Point			DELANGA	2422						
9846	RingMainUnit	Ring Main Unit	Point			KANAS	2423						
9847	RingMainUnit	Ring Main Unit	Point			SADAR	2424						
9848	RingMainUnit	Ring Main Unit	Point			SUNAMUHHI	2425						
9849	RingMainUnit	Ring Main Unit	Point			CHARWALA	2431						
9850	RingMainUnit	Ring Main Unit	Point			GHODABAZAR	2432						
9851	RingMainUnit	Ring Main Unit	Point			POWER HOUSE	2433						
9852	RingMainUnit	Ring Main Unit	Point			TALABANIA	2434						
9853	RingMainUnit	Ring Main Unit	Point			CHANDANPUR	2441						

10124	FeederPillar	Feeder Pillar	Point			22 kV	360					
10125	FeederPillar	Feeder Pillar	Point			33 kV	380					
10126	FeederPillar	Feeder Pillar	Point			66 kV	60					
10127	FeederPillar	Feeder Pillar	Point			220 kV	150					
10128	FeederPillar	Feeder Pillar	Point			400 kV	260					
10129	FeederPillar	Feeder Pillar	Point	UtilityOwnedPillar	Utility Owned Pillar	Yes	Yes		Text	3	YES	
10130	FeederPillar	Feeder Pillar	Point			No	No					
10131	FeederPillar	Feeder Pillar	Point	Make	Make				Text	50	YES	
10132	FeederPillar	Feeder Pillar	Point	SerialNumber	Serial Number				Text	50		
10133	FeederPillar	Feeder Pillar	Point	ManufacturingYear	Manufacturing Year				Text	50		
10134	FeederPillar	Feeder Pillar	Point	DateOfCommissioning	Date of Commissioning				Date	DD/MM/YYYY	YES	
10135	FeederPillar	Feeder Pillar	Point	LastMaintenanceDate	Last Maintenance Date				Date	DD/MM/YYYY		
10136	FeederPillar	Feeder Pillar	Point	Warranty	Warranty				Text	50		
10137	FeederPillar	Feeder Pillar	Point	Cost	Cost				Text	10		
10138	FeederPillar	Feeder Pillar	Point	EquipmentID	Equipment ID				Long Integer		Integration Field	
10139	FeederPillar	Feeder Pillar	Point	SAPID	SAP ID				Text	50		
10140	FeederPillar	Feeder Pillar	Point	WorkOrderID	Work Order ID				Text	50	Integration Field	
10141	FeederPillar	Feeder Pillar	Point	SurveyorRemark	Surveyor Remark				Text	250		
10142	FeederPillar	Feeder Pillar	Point	FeederCode	Feeder Code				Text	3	YES	
10143	FeederPillar	Feeder Pillar	Point	SAPFunctionalLocation	SAP Functional Location				Text	50	Integration Field	
10144	FeederPillar	Feeder Pillar	Point			Connected	1				YES	
10145	FeederPillar	Feeder Pillar	Point	ConnectionStatus	Disconnection Status	Disconnected	2		Text	12		
10146	FeederPillar	Feeder Pillar	Point			Bypassed	3					
10147	FeederPillar	Feeder Pillar	Point			Dismantle	4					
10148	FeederPillar	Feeder Pillar	Point	NumberOfWays	Number of Ways				Text	5	YES	
10149	FeederPillar	Feeder Pillar	Point			BRIT COLONY	1111				YES	
10150	FeederPillar	Feeder Pillar	Point			DELTA	1112					
10151	FeederPillar	Feeder Pillar	Point			POWER HOUSE-1	1113					
10152	FeederPillar	Feeder Pillar	Point			UNIT-6	1114					
10153	FeederPillar	Feeder Pillar	Point			POWER HOUSE-2	1115					
10154	FeederPillar	Feeder Pillar	Point			KARVEL NAGAR	1121					
10155	FeederPillar	Feeder Pillar	Point			UNIT-1	1122					
10156	FeederPillar	Feeder Pillar	Point			UNIT-2	1123					
10157	FeederPillar	Feeder Pillar	Point			UNIT-4	1124					
10158	FeederPillar	Feeder Pillar	Point			BOARD COLONY	1131					
10159	FeederPillar	Feeder Pillar	Point			SAHIB NAGAR	1132					
10160	FeederPillar	Feeder Pillar	Point			UNIT-3 FLAT	1133					
10161	FeederPillar	Feeder Pillar	Point			UNIT-9 ROAD	1134					
10162	FeederPillar	Feeder Pillar	Point			BHARATPUR	1211					
10163	FeederPillar	Feeder Pillar	Point			DUMUDUMA	1212					
10164	FeederPillar	Feeder Pillar	Point			KALINGANAGAR	1213					
10165	FeederPillar	Feeder Pillar	Point			KHANAGIRI S/O	1214					
10166	FeederPillar	Feeder Pillar	Point			BARAMUNDA	1221					
10167	FeederPillar	Feeder Pillar	Point			IRC NAYAPALLI	1222					
10168	FeederPillar	Feeder Pillar	Point			VSS NAGAR	1223					
10169	FeederPillar	Feeder Pillar	Point			XAVIER	1224					
10170	FeederPillar	Feeder Pillar	Point			BARANG	1231					
10171	FeederPillar	Feeder Pillar	Point			CS PUR-1	1232					
10172	FeederPillar	Feeder Pillar	Point			CS PUR-2	1233					
10173	FeederPillar	Feeder Pillar	Point			GODISAH	1234					
10174	FeederPillar	Feeder Pillar	Point			KANANVHAR	1235					
10175	FeederPillar	Feeder Pillar	Point			KALPANA-1	1311					
10176	FeederPillar	Feeder Pillar	Point			KALPANA-2	1312					
10177	FeederPillar	Feeder Pillar	Point			LAXMISAGAR	1313					
10178	FeederPillar	Feeder Pillar	Point			MANCHESWAR	1314					
10179	FeederPillar	Feeder Pillar	Point			PILUNAKHARA	1315					
10180	FeederPillar	Feeder Pillar	Point			KHANAGIRI S/O	1321					
10181	FeederPillar	Feeder Pillar	Point			BARAGADA	1321					
10182	FeederPillar	Feeder Pillar	Point			DHAULI	1322					
10183	FeederPillar	Feeder Pillar	Point			OLD TOWN-1	1323					
10184	FeederPillar	Feeder Pillar	Point			OLD TOWN-2	1324					
10185	FeederPillar	Feeder Pillar	Point			OLD TOWN-3	1325					
10186	FeederPillar	Feeder Pillar	Point			UTTARA	1326					
10187	FeederPillar	Feeder Pillar	Point			ASTARANG	1411					
10188	FeederPillar	Feeder Pillar	Point			KAKATPUR-1	1412					
10189	FeederPillar	Feeder Pillar	Point			KAKATPUR-2	1413					
10190	FeederPillar	Feeder Pillar	Point			GOP	1421					
10191	FeederPillar	Feeder Pillar	Point			KONARK	1422					
10192	FeederPillar	Feeder Pillar	Point			NIMAPARA-1	1423					
10193	FeederPillar	Feeder Pillar	Point			NIMAPARA-2	1424					
10194	FeederPillar	Feeder Pillar	Point			BALAKATI	1431					
10195	FeederPillar	Feeder Pillar	Point			BALPATNA	1432					
10196	FeederPillar	Feeder Pillar	Point			BHARATIPUR	1433					
10197	FeederPillar	Feeder Pillar	Point			PIPLI-1	1434					
10198	FeederPillar	Feeder Pillar	Point			PIPLI-2	1435					
10199	FeederPillar	Feeder Pillar	Point			BANKI-1	2111					
10200	FeederPillar	Feeder Pillar	Point			BANKI-2	2112					
10201	FeederPillar	Feeder Pillar	Point			BANKI-3	2113					
10202	FeederPillar	Feeder Pillar	Point			BAGHAMARI	2121					
10203	FeederPillar	Feeder Pillar	Point			BEGUNIA S/O	2122					
10204	FeederPillar	Feeder Pillar	Point			KALAPATHAR	2123					
10205	FeederPillar	Feeder Pillar	Point			RAJISINAKHALA	2124					
10206	FeederPillar	Feeder Pillar	Point			JANKIA SEC OFF	2131					
10207	FeederPillar	Feeder Pillar	Point			MALIPADA	2132					
10208	FeederPillar	Feeder Pillar	Point			NIRAKARPUR	2133					
10209	FeederPillar	Feeder Pillar	Point			HARIKAPUR	2141					
10210	FeederPillar	Feeder Pillar	Point			JANLA	2142					
10211	FeederPillar	Feeder Pillar	Point			JATANI-1	2143					
10212	FeederPillar	Feeder Pillar	Point			JATANI-2	2144					
10213	FeederPillar	Feeder Pillar	Point			KHURDA-1	2151					
10214	FeederPillar	Feeder Pillar	Point			KHURDA-2	2152					
10215	FeederPillar	Feeder Pillar	Point			KHURDA-3	2153					
10216	FeederPillar	Feeder Pillar	Point			KHURDA-4	2154					
10217	FeederPillar	Feeder Pillar	Point			DASPALLA	2211					
10218	FeederPillar	Feeder Pillar	Point			GANNA	2212					
10219	FeederPillar	Feeder Pillar	Point			NILGADN	2213					
10220	FeederPillar	Feeder Pillar	Point			BOLAGARH	2221					
10221	FeederPillar	Feeder Pillar	Point			ITAMATI-1	2222					
10222	FeederPillar	Feeder Pillar	Point			ITAMATI-2	2223					
10223	FeederPillar	Feeder Pillar	Point			BHAPUR-1	2231					
10224	FeederPillar	Feeder Pillar	Point			BHAPUR-2	2232					
10225	FeederPillar	Feeder Pillar	Point			KANTILO	2233					
10226	FeederPillar	Feeder Pillar	Point			KHANDAPADA	2234					
10227	FeederPillar	Feeder Pillar	Point			NAYAGARH	2241					
10228	FeederPillar	Feeder Pillar	Point			ODAGADN-1	2242					
10229	FeederPillar	Feeder Pillar	Point			ODAGADN-2	2243					
10230	FeederPillar	Feeder Pillar	Point			PERIPHERY S/O	2244					
10231	FeederPillar	Feeder Pillar	Point			SARANAKUL-1	2245					
10232	FeederPillar	Feeder Pillar	Point			SARANAKUL-2	2246					
10233	FeederPillar	Feeder Pillar	Point			BALLGADN-1	2311					
10234	FeederPillar	Feeder Pillar	Point			BALLGADN-2	2312					
10235	FeederPillar	Feeder Pillar	Point			BANAPUR-1	2313					
10236	FeederPillar	Feeder Pillar	Point			BANAPUR-2	2314					
10237	FeederPillar	Feeder Pillar	Point			NACHUNI	2315					
10238	FeederPillar	Feeder Pillar	Point			BHUSANDPUR	2321					
10239	FeederPillar	Feeder Pillar	Point			KHUNDI	2322					
10240	FeederPillar	Feeder Pillar	Point			RANAPUR	2323					
10241	FeederPillar	Feeder Pillar	Point			TANGI-1	2324					
10242	FeederPillar	Feeder Pillar	Point			TANGI-2	2325					
10243	FeederPillar	Feeder Pillar	Point			BALIPANDA	2411					
10244	FeederPillar	Feeder Pillar	Point			KACHERI	2412					
10245	FeederPillar	Feeder Pillar	Point			PASCHIMADWAR	2413					
10246	FeederPillar	Feeder Pillar	Point			SWARGADWAR	2414					
10247	FeederPillar	Feeder Pillar	Point			BRAHMAGIRI	2421					
10248	FeederPillar	Feeder Pillar	Point			DELINGA	2422					
10249	FeederPillar	Feeder Pillar	Point			HANKS	2423					
10250	FeederPillar	Feeder Pillar	Point			SADAR	2424					
10251	FeederPillar	Feeder Pillar	Point			SUNAMUHI	2425					
10252	FeederPillar	Feeder Pillar	Point			CHARINALA	2431					
10253	FeederPillar	Feeder Pillar	Point			GHOJABAZAR	2432					
10254	FeederPillar	Feeder Pillar	Point			POWER HOUSE	2433					
10255	FeederPillar	Feeder Pillar	Point			TALABANJA	2434					
10256	FeederPillar	Feeder Pillar	Point			CHANDANPUR	2441					
10257	FeederPillar	Feeder Pillar	Point			SAKHIGOPAL-1	2442					
10258	FeederPillar	Feeder Pillar	Point			SAKHIGOPAL-2	2443					

10394	FeederPillar	Feeder Pillar	Point			ERSAMA	5431					
10395	FeederPillar	Feeder Pillar	Point			KOLAR	5432					
10396	FeederPillar	Feeder Pillar	Point			TIRTOL	5433					
10397	FeederPillar	Feeder Pillar	Point			SUB DIVISION-1,BBSR	1110				YES	
10398	FeederPillar	Feeder Pillar	Point			SUB DIVISION-2,BBSR	1120					
10399	FeederPillar	Feeder Pillar	Point			SUB DIVISION-3,BBSR	1130					
10400	FeederPillar	Feeder Pillar	Point			KHANDAGIRI	1210					
10401	FeederPillar	Feeder Pillar	Point			NAYAPALLI	1220					
10402	FeederPillar	Feeder Pillar	Point			PERIPHERI	1230					
10403	FeederPillar	Feeder Pillar	Point			RASULGARH	1310					
10404	FeederPillar	Feeder Pillar	Point			TEMPLE	1320					
10405	FeederPillar	Feeder Pillar	Point			KAKATPUR	1410					
10406	FeederPillar	Feeder Pillar	Point			NIMAPARA	1420					
10407	FeederPillar	Feeder Pillar	Point			PIPLI	1430					
10408	FeederPillar	Feeder Pillar	Point			BANKI	2110					
10409	FeederPillar	Feeder Pillar	Point			BEGUNIA	2120					
10410	FeederPillar	Feeder Pillar	Point			JANKIA	2130					
10411	FeederPillar	Feeder Pillar	Point			JATNI	2140					
10412	FeederPillar	Feeder Pillar	Point			KHURDA	2150					
10413	FeederPillar	Feeder Pillar	Point			DASPALLA	2210					
10414	FeederPillar	Feeder Pillar	Point			ITAMATI	2220					
10415	FeederPillar	Feeder Pillar	Point			KHANDAPADA	2230					
10416	FeederPillar	Feeder Pillar	Point			NAYAGARH	2240					
10417	FeederPillar	Feeder Pillar	Point			BALUGAON	2310					
10418	FeederPillar	Feeder Pillar	Point			TANGI	2320					
10419	FeederPillar	Feeder Pillar	Point			PURI-1	2410					
10420	FeederPillar	Feeder Pillar	Point			PURI-2	2420					
10421	FeederPillar	Feeder Pillar	Point			PURI-3	2430					
10422	FeederPillar	Feeder Pillar	Point			SAKHIGOPAL	2440					
10423	FeederPillar	Feeder Pillar	Point			SUB DIVISION-1,CTC	3110					
10424	FeederPillar	Feeder Pillar	Point			SUB DIVISION-3,CTC	3120					
10425	FeederPillar	Feeder Pillar	Point			SUB DIVISION-4,CTC	3130					
10426	FeederPillar	Feeder Pillar	Point			SUB DIVISION-6,CTC	3140					
10427	FeederPillar	Feeder Pillar	Point			BADAMBADI	3210					
10428	FeederPillar	Feeder Pillar	Point	Subdivision	Subdivision	JOBRA	3220		Text	14		
10429	FeederPillar	Feeder Pillar	Point			MAHANADIVIHAR	3230					
10430	FeederPillar	Feeder Pillar	Point			BADACHAWA	3310					
10431	FeederPillar	Feeder Pillar	Point			CHOUDWAR	3320					
10432	FeederPillar	Feeder Pillar	Point			GOPALPUR	3330					
10433	FeederPillar	Feeder Pillar	Point			NIALI	3340					
10434	FeederPillar	Feeder Pillar	Point			NARASINGPUR	3410					
10435	FeederPillar	Feeder Pillar	Point			ATHAGADA	3420					
10436	FeederPillar	Feeder Pillar	Point			MAHANGA	3510					
10437	FeederPillar	Feeder Pillar	Point			N KOILI	3520					
10438	FeederPillar	Feeder Pillar	Point			SALIPUR	3530					
10439	FeederPillar	Feeder Pillar	Point			DHEMKANAL	4110					
10440	FeederPillar	Feeder Pillar	Point			GONDA	4120					
10441	FeederPillar	Feeder Pillar	Point			HINDOL ROAD	4130					
10442	FeederPillar	Feeder Pillar	Point			KAMAKHYA NAGAR	4140					
10443	FeederPillar	Feeder Pillar	Point			ANGUL	4210					
10444	FeederPillar	Feeder Pillar	Point			BOINDA	4220					
10445	FeederPillar	Feeder Pillar	Point			BADACHAWA	4230					
10446	FeederPillar	Feeder Pillar	Point			CHAINPAL	4310					
10447	FeederPillar	Feeder Pillar	Point			PALLAHARA	4320					
10448	FeederPillar	Feeder Pillar	Point			PARJANG	4330					
10449	FeederPillar	Feeder Pillar	Point			TALCHER	4340					
10450	FeederPillar	Feeder Pillar	Point			ATUL	5110					
10451	FeederPillar	Feeder Pillar	Point			KENDRAPARA	5120					
10452	FeederPillar	Feeder Pillar	Point			PATTAMUNDAI	5130					
10453	FeederPillar	Feeder Pillar	Point			RAINAGAR	5140					
10454	FeederPillar	Feeder Pillar	Point			MAHAKALAPADA	5210					
10455	FeederPillar	Feeder Pillar	Point			MAHAKALAPADA	5220					
10456	FeederPillar	Feeder Pillar	Point			BALIKUDA	5310					
10457	FeederPillar	Feeder Pillar	Point			JAGATSIKINGPUR	5320					
10458	FeederPillar	Feeder Pillar	Point			RAGHUNATHPUR	5330					
10459	FeederPillar	Feeder Pillar	Point			KUJANGA	5410					
10460	FeederPillar	Feeder Pillar	Point			PARADEEP	5420					
10461	FeederPillar	Feeder Pillar	Point			TIRTOL	5430					
10462	FeederPillar	Feeder Pillar	Point			BCDD-1	11				YES	
10463	FeederPillar	Feeder Pillar	Point			BCDD-2	12					
10464	FeederPillar	Feeder Pillar	Point			BED	13					
10465	FeederPillar	Feeder Pillar	Point			Location Code Y	14					
10466	FeederPillar	Feeder Pillar	Point			KHD	21					
10467	FeederPillar	Feeder Pillar	Point			NYED	22					
10468	FeederPillar	Feeder Pillar	Point			BAED	23					
10469	FeederPillar	Feeder Pillar	Point			PED	24					
10470	FeederPillar	Feeder Pillar	Point			CDD-1	31					
10471	FeederPillar	Feeder Pillar	Point			CDD-2	32					
10472	FeederPillar	Feeder Pillar	Point			CED	33		Text	6		
10473	FeederPillar	Feeder Pillar	Point			AED	34					
10474	FeederPillar	Feeder Pillar	Point			SED	35					
10475	FeederPillar	Feeder Pillar	Point			DED	41					
10476	FeederPillar	Feeder Pillar	Point			ANED	42					
10477	FeederPillar	Feeder Pillar	Point			TED	43					
10478	FeederPillar	Feeder Pillar	Point			KED-1	51					
10479	FeederPillar	Feeder Pillar	Point			KED-2	52					
10480	FeederPillar	Feeder Pillar	Point			IFD	53					
10481	FeederPillar	Feeder Pillar	Point			PDP	54					
10482	FeederPillar	Feeder Pillar	Point			BBSR-1	1				YES	
10483	FeederPillar	Feeder Pillar	Point			BBSR-2	2					
10484	FeederPillar	Feeder Pillar	Point	Circle	Circle	CTC	3		Text	6		
10485	FeederPillar	Feeder Pillar	Point			DKL	4					
10486	FeederPillar	Feeder Pillar	Point			PDP	5					
10487	FeederPillar	Feeder Pillar	Point	Zone	Zone	TPCODL	1		Text	6	YES	
10488	FeederPillar	Feeder Pillar	Point	LocationCodeX	Location Code X				Double		System Field	
10489	FeederPillar	Feeder Pillar	Point	LocationCodeY	Location Code Y				Double		System Field	
10490	FeederPillar	Feeder Pillar	Point	MMELECTRICTRACEWEIGHT	MM Electric Trace Weight				Long Integer		System Field	
10491	FeederPillar	Feeder Pillar	Point	FacilityID	Facility ID				Text	50		
10492	FeederPillar	Feeder Pillar	Point	FacilityIDFK	Facility ID FK				Text	50	System Field	
10493	FeederPillar	Feeder Pillar	Point	SHAPE	Shape			New	Geometry	4	System Field	
10494	FeederPillar	Feeder Pillar	Point			New	New	Modification			Integration Field	
10495	FeederPillar	Feeder Pillar	Point	UpdateType	Update Type			Modification		12		
10496	FeederPillar	Feeder Pillar	Point			Delete	Delete					
10497	FaultPassageIndicator	Fault Passage Indicator	Point	OBJECTID	Object ID				Object ID		System Field	
10498	FaultPassageIndicator	Fault Passage Indicator	Point	Name	Name				Text	250		
10499	FaultPassageIndicator	Fault Passage Indicator	Point	GISID	GIS ID				Text	50		
10500	FaultPassageIndicator	Fault Passage Indicator	Point	NIN	NIN				Text	50		
10501	FaultPassageIndicator	Fault Passage Indicator	Point	FeederID	Feeder ID				Text	9	YES	Modify on 08.04.2021
10502	FaultPassageIndicator	Fault Passage Indicator	Point	FeederID2	Feeder ID2				Text	9		Modify on 08.04.2021
10503	FaultPassageIndicator	Fault Passage Indicator	Point	FeederName	Feeder Name				Text	50	YES	
10504	FaultPassageIndicator	Fault Passage Indicator	Point	Directional	Directional				Text	50		
10505	FaultPassageIndicator	Fault Passage Indicator	Point	IndicatorType	Indicator Type				Text	50		
10506	FaultPassageIndicator	Fault Passage Indicator	Point			0.11 kV	120				YES	
10507	FaultPassageIndicator	Fault Passage Indicator	Point			0.24 kV	160					
10508	FaultPassageIndicator	Fault Passage Indicator	Point			0.43 kV	210					
10509	FaultPassageIndicator	Fault Passage Indicator	Point			100 kV	90					
10510	FaultPassageIndicator	Fault Passage Indicator	Point			11 kV	340					
10511	FaultPassageIndicator	Fault Passage Indicator	Point	Voltage	Voltage (kV)	132 kV	110		short Intenger			
10512	FaultPassageIndicator	Fault Passage Indicator	Point			22 kV	360					
10513	FaultPassageIndicator	Fault Passage Indicator	Point			33 kV	380					
10514	FaultPassageIndicator	Fault Passage Indicator	Point			66 kV	60					
10515	FaultPassageIndicator	Fault Passage Indicator	Point			220 kV	150					
10516	FaultPassageIndicator	Fault Passage Indicator	Point			400 kV	260					
10517	FaultPassageIndicator	Fault Passage Indicator	Point			200	1			</		

10529	FaultPassageIndicator	Fault Passage Indicator	Point			YB	3						
10530	FaultPassageIndicator	Fault Passage Indicator	Point			RB	5						
10531	FaultPassageIndicator	Fault Passage Indicator	Point			RYB	7						
10532	FaultPassageIndicator	Fault Passage Indicator	Point	CurrentLimit	Current Limit			Text	50				
10533	FaultPassageIndicator	Fault Passage Indicator	Point	Make	Make			Text	50				
10534	FaultPassageIndicator	Fault Passage Indicator	Point	SerialNumber	Serial Number			Text	50				
10535	FaultPassageIndicator	Fault Passage Indicator	Point	ManufacturingYear	Manufacturing Year			Text	4				
10536	FaultPassageIndicator	Fault Passage Indicator	Point	DateOfCommissioning	Date Of Commissioning			Date	DD/MM/YYYY	YES			
10537	FaultPassageIndicator	Fault Passage Indicator	Point	LastMaintenanceDate	Last Maintenance Date			Date	DD/MM/YYYY				
10538	FaultPassageIndicator	Fault Passage Indicator	Point	Warranty	Warranty			Text	50				
10539	FaultPassageIndicator	Fault Passage Indicator	Point	Cost	Cost			Text	10				
10540	FaultPassageIndicator	Fault Passage Indicator	Point	FacilityID	Facility ID			Text	20				
10541	FaultPassageIndicator	Fault Passage Indicator	Point	InstalledLocation	Installed Location	Pole	1	Text		short Intenger		YES	
10542	FaultPassageIndicator	Fault Passage Indicator	Point	LocationID	Location ID							YES	
10543	FaultPassageIndicator	Fault Passage Indicator	Point			BRIT COLONY	1111						YES
10544	FaultPassageIndicator	Fault Passage Indicator	Point			DELTA	1112						
10545	FaultPassageIndicator	Fault Passage Indicator	Point			POWER HOUSE-1							
10546	FaultPassageIndicator	Fault Passage Indicator	Point			UNIT-6	1114						
10547	FaultPassageIndicator	Fault Passage Indicator	Point			POWER HOUSE-2	1115						
10548	FaultPassageIndicator	Fault Passage Indicator	Point			KARVEL NAGAR	1121						
10549	FaultPassageIndicator	Fault Passage Indicator	Point			UNIT-1	1122						
10550	FaultPassageIndicator	Fault Passage Indicator	Point			UNIT-2	1123						
10551	FaultPassageIndicator	Fault Passage Indicator	Point			UNIT-4	1124						
10552	FaultPassageIndicator	Fault Passage Indicator	Point			BOARD COLONY	1131						
10553	FaultPassageIndicator	Fault Passage Indicator	Point			SAHID NAGAR	1132						
10554	FaultPassageIndicator	Fault Passage Indicator	Point			UNIT-9 FLAT	1133						
10555	FaultPassageIndicator	Fault Passage Indicator	Point			UNIT-9 ROAD	1134						
10556	FaultPassageIndicator	Fault Passage Indicator	Point			BHARATPUR	1211						
10557	FaultPassageIndicator	Fault Passage Indicator	Point			DUMUDUMA	1212						
10558	FaultPassageIndicator	Fault Passage Indicator	Point			KALINGANAGAR	1213						
10559	FaultPassageIndicator	Fault Passage Indicator	Point			KHANDGIRI S/O	1214						
10560	FaultPassageIndicator	Fault Passage Indicator	Point			BARAUNDA	1221						
10561	FaultPassageIndicator	Fault Passage Indicator	Point			JRC NAYAPALLI	1222						
10562	FaultPassageIndicator	Fault Passage Indicator	Point			VSS NAGAR	1223						
10563	FaultPassageIndicator	Fault Passage Indicator	Point			XAVIER	1224						
10564	FaultPassageIndicator	Fault Passage Indicator	Point			BARANG	1231						
10565	FaultPassageIndicator	Fault Passage Indicator	Point			CS PUR-1	1232						
10566	FaultPassageIndicator	Fault Passage Indicator	Point			CS PUR-2	1233						
10567	FaultPassageIndicator	Fault Passage Indicator	Point			GODISAH	1234						
10568	FaultPassageIndicator	Fault Passage Indicator	Point			KANANVIHAR	1235						
10569	FaultPassageIndicator	Fault Passage Indicator	Point			KALPANA-1	1311						
10570	FaultPassageIndicator	Fault Passage Indicator	Point			KALPANA-2	1312						
10571	FaultPassageIndicator	Fault Passage Indicator	Point			LAXMISAGAR	1313						
10572	FaultPassageIndicator	Fault Passage Indicator	Point			MANCHESWAR	1314						
10573	FaultPassageIndicator	Fault Passage Indicator	Point			PHULNAKHARA	1315						
10574	FaultPassageIndicator	Fault Passage Indicator	Point			RASULGARH S/O	1316						
10575	FaultPassageIndicator	Fault Passage Indicator	Point			BARAUNDA	1321						
10576	FaultPassageIndicator	Fault Passage Indicator	Point			DHAULI	1322						
10577	FaultPassageIndicator	Fault Passage Indicator	Point			OLD TOWN-1	1323						
10578	FaultPassageIndicator	Fault Passage Indicator	Point			OLD TOWN-2	1324						
10579	FaultPassageIndicator	Fault Passage Indicator	Point			OLD TOWN-3	1325						
10580	FaultPassageIndicator	Fault Passage Indicator	Point			LUITTA	1326						
10581	FaultPassageIndicator	Fault Passage Indicator	Point			ASTARANG	1411						
10582	FaultPassageIndicator	Fault Passage Indicator	Point			KAKATPUR-1	1412						
10583	FaultPassageIndicator	Fault Passage Indicator	Point			KAKATPUR-2	1413						
10584	FaultPassageIndicator	Fault Passage Indicator	Point			GOP	1421						
10585	FaultPassageIndicator	Fault Passage Indicator	Point			ONARK	1422						
10586	FaultPassageIndicator	Fault Passage Indicator	Point			NIMAPARA-1	1423						
10587	FaultPassageIndicator	Fault Passage Indicator	Point			NIMAPARA-2	1424						
10588	FaultPassageIndicator	Fault Passage Indicator	Point			BALAKATI	1431						
10589	FaultPassageIndicator	Fault Passage Indicator	Point			BALUPATMA	1432						
10590	FaultPassageIndicator	Fault Passage Indicator	Point			BHARATPUR	1433						
10591	FaultPassageIndicator	Fault Passage Indicator	Point			PIPLI-1	1434						
10592	FaultPassageIndicator	Fault Passage Indicator	Point			PIPLI-2	1435						
10593	FaultPassageIndicator	Fault Passage Indicator	Point			BANKI-1	2111						
10594	FaultPassageIndicator	Fault Passage Indicator	Point			BANKI-2	2112						
10595	FaultPassageIndicator	Fault Passage Indicator	Point			BANKI-3	2113						
10596	FaultPassageIndicator	Fault Passage Indicator	Point			BAGHAMARI	2121						
10597	FaultPassageIndicator	Fault Passage Indicator	Point			BEGUNA S/O	2122						
10598	FaultPassageIndicator	Fault Passage Indicator	Point			KALAPATHAR	2123						
10599	FaultPassageIndicator	Fault Passage Indicator	Point			RASULNAGHALA	2124						
10600	FaultPassageIndicator	Fault Passage Indicator	Point			BANKA SEC OFF	2131						
10601	FaultPassageIndicator	Fault Passage Indicator	Point			MALIPADA	2132						
10602	FaultPassageIndicator	Fault Passage Indicator	Point			NIRAKARPUR	2133						
10603	FaultPassageIndicator	Fault Passage Indicator	Point			HARRAJPUR	2141						
10604	FaultPassageIndicator	Fault Passage Indicator	Point			JANLA	2142						
10605	FaultPassageIndicator	Fault Passage Indicator	Point			JATANI-1	2143						
10606	FaultPassageIndicator	Fault Passage Indicator	Point			JATANI-2	2144						
10607	FaultPassageIndicator	Fault Passage Indicator	Point			KHURDA-1	2151						
10608	FaultPassageIndicator	Fault Passage Indicator	Point			KHURDA-2	2152						
10609	FaultPassageIndicator	Fault Passage Indicator	Point			KHURDA-3	2153						
10610	FaultPassageIndicator	Fault Passage Indicator	Point			KHURDA-4	2154						
10611	FaultPassageIndicator	Fault Passage Indicator	Point			DASPALLA	2211						
10612	FaultPassageIndicator	Fault Passage Indicator	Point			GANIA	2212						
10613	FaultPassageIndicator	Fault Passage Indicator	Point			NUAGADN	2213						
10614	FaultPassageIndicator	Fault Passage Indicator	Point			BCUGARH	2221						
10615	FaultPassageIndicator	Fault Passage Indicator	Point			ITAMATI-1	2222						
10616	FaultPassageIndicator	Fault Passage Indicator	Point			ITAMATI-2	2223						
10617	FaultPassageIndicator	Fault Passage Indicator	Point			BHAPUR-1	2231						
10618	FaultPassageIndicator	Fault Passage Indicator	Point			BHAPUR-2	2232						
10619	FaultPassageIndicator	Fault Passage Indicator	Point			KANTILO	2233						
10620	FaultPassageIndicator	Fault Passage Indicator	Point			KHAMDAPADA	2234						
10621	FaultPassageIndicator	Fault Passage Indicator	Point			NAYAGARH	2241						
10622	FaultPassageIndicator	Fault Passage Indicator	Point			ODAGADN-1	2242						
10623	FaultPassageIndicator	Fault Passage Indicator	Point			ODAGADN-2	2243						
10624	FaultPassageIndicator	Fault Passage Indicator	Point			PERHERI S/O	2244						
10625	FaultPassageIndicator	Fault Passage Indicator	Point			SARANAKUL-1	2245						
10626	FaultPassageIndicator	Fault Passage Indicator	Point			SARANAKUL-2	2246						
10627	FaultPassageIndicator	Fault Passage Indicator	Point			BALUGADN-1	2311						
10628	FaultPassageIndicator	Fault Passage Indicator	Point			BALUGADN-2	2312						
10629	FaultPassageIndicator	Fault Passage Indicator	Point			BANAPUR-1	2313						
10630	FaultPassageIndicator	Fault Passage Indicator	Point			BANAPUR-2	2314						
10631	FaultPassageIndicator	Fault Passage Indicator	Point			NACHUNI	2315						
10632	FaultPassageIndicator	Fault Passage Indicator	Point			BHUSANDPUR	2321						
10633	FaultPassageIndicator	Fault Passage Indicator	Point			KHUJDI	2322						
10634	FaultPassageIndicator	Fault Passage Indicator	Point			NANPUR	2323						
10635	FaultPassageIndicator	Fault Passage Indicator	Point			TANGI-1	2324						
10636	FaultPassageIndicator	Fault Passage Indicator	Point			TANGI-2	2325						
10637	FaultPassageIndicator	Fault Passage Indicator	Point			BALAPANDA	2411						
10638	FaultPassageIndicator	Fault Passage Indicator	Point			KACHERI	2412						
10639	FaultPassageIndicator	Fault Passage Indicator	Point			PASCHIMADWAR	2413						
10640	FaultPassageIndicator	Fault Passage Indicator	Point			SWARGADWAR	2414						
10641	FaultPassageIndicator	Fault Passage Indicator	Point			BRAHMAGIRI	2421						
10642	FaultPassageIndicator	Fault Passage Indicator	Point			DELANGA	2422						
10643	FaultPassageIndicator	Fault Passage Indicator	Point			KANAS	2423						
10644	FaultPassageIndicator	Fault Passage Indicator	Point			SADAR	2424						
10645	FaultPassageIndicator	Fault Passage Indicator	Point			SUNAMUHI	2425						
10646	FaultPassageIndicator	Fault Passage Indicator	Point			CHARINALA	2431						
10647	FaultPassageIndicator	Fault Passage Indicator	Point			GHODABAZAR	2432						
10648	FaultPassageIndicator	Fault Passage Indicator	Point			POWER HOUSE	2433						
10649	FaultPassageIndicator	Fault Passage Indicator	Point			KALABANA	2434						
10650	FaultPassageIndicator	Fault Passage Indicator	Point			CHANDNIPUR	2441						
10651	FaultPassageIndicator	Fault Passage Indicator	Point			SAKHIGOPAL-1	2442						
10652	FaultPassageIndicator	Fault Passage Indicator	Point			SAKHIGOPAL-2	2443						
10653	FaultPassageIndicator	Fault Passage Indicator	Point			SATASANKHA	2444						
10654	FaultPassageIndicator	Fault Passage Indicator	Point			KUXI BAZAR	3111						
10655	FaultPassageIndicator	Fault Passage Indicator	Point			COLLEGE SQUARE	3112						
10656	FaultPassageIndicator	Fault Passage Indicator	Point			RANIHAT-1	3113						
10657	FaultPassageIndicator	Fault Passage Indicator	Point			RANIHAT-2	3114						
10658	FaultPassageIndicator	Fault Passage Indicator	Point			CTTY	3121						
10659	FaultPassageIndicator	Fault Passage Indicator	Point			GANESH GHAT	3122						
10660	FaultPassageIndicator	Fault Passage Indicator	Point			KAZI BAZAR	3123						
10661	FaultPassageIndicator	Fault Passage Indicator	Point			TOWN HALL	3124						
10662	FaultPassageIndicator	Fault Passage Indicator	Point			CANTONMENT	3131						
10663	FaultPassageIndicator	Fault Passage Indicator	Point			CHANDNI CHOWK	3132						

10664	Fault/PassageIndicator	Fault Passage Indicator	Point			TINKONIA BAGICHA	5133			
10665	Fault/PassageIndicator	Fault Passage Indicator	Point			BIDANASI	5141			
10666	Fault/PassageIndicator	Fault Passage Indicator	Point			CDA	5142			
10667	Fault/PassageIndicator	Fault Passage Indicator	Point	Section	Section	TULSI PUR	5143	Text	22	
10668	Fault/PassageIndicator	Fault Passage Indicator	Point			BADAMBADI	5211			
10669	Fault/PassageIndicator	Fault Passage Indicator	Point			DOLAMUNDI	5212			
10670	Fault/PassageIndicator	Fault Passage Indicator	Point			IND STATE(OGP)	5223			
10671	Fault/PassageIndicator	Fault Passage Indicator	Point			MAIZA	5221			
10672	Fault/PassageIndicator	Fault Passage Indicator	Point			JAGATPUR	5222			
10673	Fault/PassageIndicator	Fault Passage Indicator	Point			JOBRA	5223			
10674	Fault/PassageIndicator	Fault Passage Indicator	Point			KANDARPUR	5224			
10675	Fault/PassageIndicator	Fault Passage Indicator	Point			KISHORNAGAR	5225			
10676	Fault/PassageIndicator	Fault Passage Indicator	Point			CHALLIAGANI	5231			
10677	Fault/PassageIndicator	Fault Passage Indicator	Point			MAHANADI VIHAR	5232			
10678	Fault/PassageIndicator	Fault Passage Indicator	Point			BADACHANA	5311			
10679	Fault/PassageIndicator	Fault Passage Indicator	Point			BALICHANDRAPUR	5312			
10680	Fault/PassageIndicator	Fault Passage Indicator	Point			CHIKATA	5313			
10681	Fault/PassageIndicator	Fault Passage Indicator	Point			CHARBIATIA	5321			
10682	Fault/PassageIndicator	Fault Passage Indicator	Point			CHOUDWAR-1	5322			
10683	Fault/PassageIndicator	Fault Passage Indicator	Point			CHOUDWAR-2	5323			
10684	Fault/PassageIndicator	Fault Passage Indicator	Point			ADASPUR	5331			
10685	Fault/PassageIndicator	Fault Passage Indicator	Point			BALILUDA	5332			
10686	Fault/PassageIndicator	Fault Passage Indicator	Point			GOBINDAPUR	5333			
10687	Fault/PassageIndicator	Fault Passage Indicator	Point			NIALI-1	5341			
10688	Fault/PassageIndicator	Fault Passage Indicator	Point			NIALI-2	5342			
10689	Fault/PassageIndicator	Fault Passage Indicator	Point			SITHALO	5343			
10690	Fault/PassageIndicator	Fault Passage Indicator	Point			SARABMA	5411			
10691	Fault/PassageIndicator	Fault Passage Indicator	Point			KANPUR	5412			
10692	Fault/PassageIndicator	Fault Passage Indicator	Point			NARASINGPUR	5413			
10693	Fault/PassageIndicator	Fault Passage Indicator	Point			SECTION-4	5414			
10694	Fault/PassageIndicator	Fault Passage Indicator	Point			ATHAGADA-1	5421			
10695	Fault/PassageIndicator	Fault Passage Indicator	Point			ATHAGADA-2	5422			
10696	Fault/PassageIndicator	Fault Passage Indicator	Point			KHUNTUNI	5423			
10697	Fault/PassageIndicator	Fault Passage Indicator	Point			NUAPATNA	5424			
10698	Fault/PassageIndicator	Fault Passage Indicator	Point			TIGIRIA	5425			
10699	Fault/PassageIndicator	Fault Passage Indicator	Point			ERKANA	5511			
10700	Fault/PassageIndicator	Fault Passage Indicator	Point			KOTHPADA	5512			
10701	Fault/PassageIndicator	Fault Passage Indicator	Point			MAHANGA SEC OFF	5513			
10702	Fault/PassageIndicator	Fault Passage Indicator	Point			ASURESWAR	5521			
10703	Fault/PassageIndicator	Fault Passage Indicator	Point			N KOILI	5522			
10704	Fault/PassageIndicator	Fault Passage Indicator	Point			DIRIKANTA	5523			
10705	Fault/PassageIndicator	Fault Passage Indicator	Point			BANIGRAM	5531			
10706	Fault/PassageIndicator	Fault Passage Indicator	Point			RAISINGUDA	5532			
10707	Fault/PassageIndicator	Fault Passage Indicator	Point			SALPUR-1	5533			
10708	Fault/PassageIndicator	Fault Passage Indicator	Point			SALPUR-2	5534			
10709	Fault/PassageIndicator	Fault Passage Indicator	Point			BIHAPUR	4111			
10710	Fault/PassageIndicator	Fault Passage Indicator	Point			DKL SEC-1	4112			
10711	Fault/PassageIndicator	Fault Passage Indicator	Point			DKL SEC-2	4113			
10712	Fault/PassageIndicator	Fault Passage Indicator	Point			DKL SEC-3	4114			
10713	Fault/PassageIndicator	Fault Passage Indicator	Point			GONDIA SEC OFF	4121			
10714	Fault/PassageIndicator	Fault Passage Indicator	Point			JORANDA	4122			
10715	Fault/PassageIndicator	Fault Passage Indicator	Point			HIMAL PRASAD	4123			
10716	Fault/PassageIndicator	Fault Passage Indicator	Point			HINDOL	4131			
10717	Fault/PassageIndicator	Fault Passage Indicator	Point			HINDOL ROAD S/O	4132			
10718	Fault/PassageIndicator	Fault Passage Indicator	Point			KHAIURIKATA	4133			
10719	Fault/PassageIndicator	Fault Passage Indicator	Point			BHUBAN	4141			
10720	Fault/PassageIndicator	Fault Passage Indicator	Point			K NAGAR	4142			
10721	Fault/PassageIndicator	Fault Passage Indicator	Point			KALAPANI	4143			
10722	Fault/PassageIndicator	Fault Passage Indicator	Point			KANKADA HADA	4144			
10723	Fault/PassageIndicator	Fault Passage Indicator	Point			M K GOLA	4145			
10724	Fault/PassageIndicator	Fault Passage Indicator	Point			R N PUR	4146			
10725	Fault/PassageIndicator	Fault Passage Indicator	Point			ANGUL NO-1	4211			
10726	Fault/PassageIndicator	Fault Passage Indicator	Point			ANGUL NO-2	4212			
10727	Fault/PassageIndicator	Fault Passage Indicator	Point			ANGUL NO-3	4213			
10728	Fault/PassageIndicator	Fault Passage Indicator	Point			BANTALA	4214			
10729	Fault/PassageIndicator	Fault Passage Indicator	Point			BINDIA SEC OFF	4221			
10730	Fault/PassageIndicator	Fault Passage Indicator	Point			BAMUIR	4222			
10731	Fault/PassageIndicator	Fault Passage Indicator	Point			ATHAMALLIK	4223			
10732	Fault/PassageIndicator	Fault Passage Indicator	Point			CHHENDIPADA	4231			
10733	Fault/PassageIndicator	Fault Passage Indicator	Point			JARPADA	4232			
10734	Fault/PassageIndicator	Fault Passage Indicator	Point			KOSALA	4233			
10735	Fault/PassageIndicator	Fault Passage Indicator	Point			BANKIPAL	4311			
10736	Fault/PassageIndicator	Fault Passage Indicator	Point			CHAINPAL SEC OFF	4312			
10737	Fault/PassageIndicator	Fault Passage Indicator	Point			MERAMANDALI	4313			
10738	Fault/PassageIndicator	Fault Passage Indicator	Point			KHAMARA	4321			
10739	Fault/PassageIndicator	Fault Passage Indicator	Point			PALLAHARA SEC OFF	4322			
10740	Fault/PassageIndicator	Fault Passage Indicator	Point			BARIL	4323			
10741	Fault/PassageIndicator	Fault Passage Indicator	Point			RENGALI	4324			
10742	Fault/PassageIndicator	Fault Passage Indicator	Point			PARANG-1	4331			
10743	Fault/PassageIndicator	Fault Passage Indicator	Point			PARANG-2	4332			
10744	Fault/PassageIndicator	Fault Passage Indicator	Point			HATTOTI	4341			
10745	Fault/PassageIndicator	Fault Passage Indicator	Point			KANHA	4342			
10746	Fault/PassageIndicator	Fault Passage Indicator	Point			SAMALA	4343			
10747	Fault/PassageIndicator	Fault Passage Indicator	Point			SOUTH BALANDA	4344			
10748	Fault/PassageIndicator	Fault Passage Indicator	Point			TALCHER SEC OFF	4345			
10749	Fault/PassageIndicator	Fault Passage Indicator	Point			AIJL SEC OFF	5111			
10750	Fault/PassageIndicator	Fault Passage Indicator	Point			HUHPUR	5112			
10751	Fault/PassageIndicator	Fault Passage Indicator	Point			GLAVER	5113			
10752	Fault/PassageIndicator	Fault Passage Indicator	Point			RAIKANIK	5114			
10753	Fault/PassageIndicator	Fault Passage Indicator	Point			CHHATA	5121			
10754	Fault/PassageIndicator	Fault Passage Indicator	Point			DANPUR	5122			
10755	Fault/PassageIndicator	Fault Passage Indicator	Point			INDIPLUR	5123			
10756	Fault/PassageIndicator	Fault Passage Indicator	Point			KENDRAPARA-1	5124			
10757	Fault/PassageIndicator	Fault Passage Indicator	Point			KENDRAPARA-2	5125			
10758	Fault/PassageIndicator	Fault Passage Indicator	Point			KENDRAPARA-3	5126			
10759	Fault/PassageIndicator	Fault Passage Indicator	Point			MANDASAH	5131			
10760	Fault/PassageIndicator	Fault Passage Indicator	Point			PATRAPUR	5132			
10761	Fault/PassageIndicator	Fault Passage Indicator	Point			PATTAMUNDAL-1	5133			
10762	Fault/PassageIndicator	Fault Passage Indicator	Point			PATTAMUNDAL-2	5134			
10763	Fault/PassageIndicator	Fault Passage Indicator	Point			PATTAMUNDAL-3	5135			
10764	Fault/PassageIndicator	Fault Passage Indicator	Point			RAINAGAR-1	5141			
10765	Fault/PassageIndicator	Fault Passage Indicator	Point			RAINAGAR-2	5142			
10766	Fault/PassageIndicator	Fault Passage Indicator	Point			TALACHUA	5143			
10767	Fault/PassageIndicator	Fault Passage Indicator	Point			BABAR	5211			
10768	Fault/PassageIndicator	Fault Passage Indicator	Point			LUNA	5212			
10769	Fault/PassageIndicator	Fault Passage Indicator	Point			MAHAKALAPADA	5213			
10770	Fault/PassageIndicator	Fault Passage Indicator	Point			GARADAPUR	5221			
10771	Fault/PassageIndicator	Fault Passage Indicator	Point			KORUA	5222			
10772	Fault/PassageIndicator	Fault Passage Indicator	Point			MARSHAGHAI S/O	5223			
10773	Fault/PassageIndicator	Fault Passage Indicator	Point			NUAPADA	5224			
10774	Fault/PassageIndicator	Fault Passage Indicator	Point			BALILUDA-1	5311			
10775	Fault/PassageIndicator	Fault Passage Indicator	Point			BALILUDA-2	5312			
10776	Fault/PassageIndicator	Fault Passage Indicator	Point			NAUGAON	5313			
10777	Fault/PassageIndicator	Fault Passage Indicator	Point			DHASAHI	5321			
10778	Fault/PassageIndicator	Fault Passage Indicator	Point			J S PUR-1	5322			
10779	Fault/PassageIndicator	Fault Passage Indicator	Point			J S PUR-2	5323			
10780	Fault/PassageIndicator	Fault Passage Indicator	Point			MANDASAH	5324			
10781	Fault/PassageIndicator	Fault Passage Indicator	Point			BIRDI	5331			
10782	Fault/PassageIndicator	Fault Passage Indicator	Point			RAGHUNATHPUR S/O	5332			
10783	Fault/PassageIndicator	Fault Passage Indicator	Point			CHITUA	5411			
10784	Fault/PassageIndicator	Fault Passage Indicator	Point			KUJANG	5412			
10785	Fault/PassageIndicator	Fault Passage Indicator	Point			RAHAMA	5413			
10786	Fault/PassageIndicator	Fault Passage Indicator	Point			BHUTAMUNDAL	5421			
10787	Fault/PassageIndicator	Fault Passage Indicator	Point			PARADEEP SEC OFF	5422			
10788	Fault/PassageIndicator	Fault Passage Indicator	Point			ERSAMA	5431			
10789	Fault/PassageIndicator	Fault Passage Indicator	Point			KOLAR	5432			
10790	Fault/PassageIndicator	Fault Passage Indicator	Point			TIRTOL	5433			
10791	Fault/PassageIndicator	Fault Passage Indicator	Point			SUB DIVISION-1,BBSR	1110			YES
10792	Fault/PassageIndicator	Fault Passage Indicator	Point			SUB DIVISION-2,BBSR	1120			
10793	Fault/PassageIndicator	Fault Passage Indicator	Point			SUB DIVISION-3,BBSR	1130			
10794	Fault/PassageIndicator	Fault Passage Indicator	Point			KHANDAGIRI	1210			
10795	Fault/PassageIndicator	Fault Passage Indicator	Point			NAYAPALLI	1220			
10796	Fault/PassageIndicator	Fault Passage Indicator	Point			PERIPHERI	1230			
10797	Fault/PassageIndicator	Fault Passage Indicator	Point			RASULGARH	1310			
10798	Fault/PassageIndicator	Fault Passage Indicator	Point			TEMPLE	1320			

LightningArrestor	Lightning Arrestor	Point	DrainVoltage	Drain Voltage	Text	10
10934	LightningArrestor	Point	DischargeCurrentRating	Discharge Current Rating	sheet	Intenger
10935	LightningArrestor	Point	Make	Make	Text	50
10937	LightningArrestor	Point	SerialNumber	Serial Number	Text	50
10938	LightningArrestor	Point	ManufacturingYear	Manufacturing Year	Text	4
10939	LightningArrestor	Point	DateOfcommissioning	Date Of Commissioning	Date	DD/MM/YYYY YES
10940	LightningArrestor	Point	LastMaintenanceDate	Last Maintenance Date	Date	DD/MM/YYYY
10941	LightningArrestor	Point	Warranty	Warranty	Text	50
10942	LightningArrestor	Point	Cost	Cost	Text	10
10943	LightningArrestor	Point	FeederCode	Feeder Code	Text	3 YES
10944	LightningArrestor	Point	ConnectionStatus	Connection Status	Text	12
10945	LightningArrestor	Point		Connected		
10946	LightningArrestor	Point		Disconnected		
10947	LightningArrestor	Point		Bypassed		
10948	LightningArrestor	Point		Dismantle		
10949	LightningArrestor	Point	Resistance	Resistance	Text	50
10949	LightningArrestor	Point				YES
10950	LightningArrestor	Point		BRIT COLONY		
10951	LightningArrestor	Point		DELTA		
10952	LightningArrestor	Point		POWER HOUSE-1		
10953	LightningArrestor	Point		UNIT-6		
10954	LightningArrestor	Point		POWER HOUSE-2		
10955	LightningArrestor	Point		KARVEL NAGAR		
10956	LightningArrestor	Point		UNIT-1		
10957	LightningArrestor	Point		UNIT-2		
10958	LightningArrestor	Point		UNIT-4		
10959	LightningArrestor	Point		BOARD COLONY		
10960	LightningArrestor	Point		SAHID NAGAR		
10961	LightningArrestor	Point		UNIT-9 FLAT		
10962	LightningArrestor	Point		UNIT-9 ROAD		
10963	LightningArrestor	Point		BHARATPUR		
10964	LightningArrestor	Point		DUMUDUMA		
10965	LightningArrestor	Point		KALINAGNAGAR		
10966	LightningArrestor	Point		KHANLAGIRI S/O		
10967	LightningArrestor	Point		BARAMUNDA		
10968	LightningArrestor	Point		IRC NAYAPALLI		
10969	LightningArrestor	Point		VSS NAGAR		
10970	LightningArrestor	Point		XAVIER		
10971	LightningArrestor	Point		BARANG		
10972	LightningArrestor	Point		CS PUR-1		
10973	LightningArrestor	Point		CS PUR-2		
10974	LightningArrestor	Point		GODISAIH		
10975	LightningArrestor	Point		KANANVHAR		
10976	LightningArrestor	Point		KALPANA-1		
10977	LightningArrestor	Point		KALPANA-2		
10978	LightningArrestor	Point		LAXMISAGAR		
10979	LightningArrestor	Point		MANCHESWAR		
10980	LightningArrestor	Point		PULINAKHARA		
10981	LightningArrestor	Point		RASULAGIRI S/O		
10982	LightningArrestor	Point		BARAGADA		
10983	LightningArrestor	Point		DHAULI		
10984	LightningArrestor	Point		OLD TOWN-1		
10985	LightningArrestor	Point		OLD TOWN-2		
10986	LightningArrestor	Point		OLD TOWN-3		
10987	LightningArrestor	Point		UTTARA		
10988	LightningArrestor	Point		ASTARANG		
10989	LightningArrestor	Point		KAKATPUR-1		
10990	LightningArrestor	Point		KAKATPUR-2		
10991	LightningArrestor	Point		GOP		
10992	LightningArrestor	Point		KONARK		
10993	LightningArrestor	Point		NIMAPARA-1		
10994	LightningArrestor	Point		NIMAPARA-2		
10995	LightningArrestor	Point		BALAKATI		
10996	LightningArrestor	Point		BALPATNA		
10997	LightningArrestor	Point		BHARATIPUR		
10998	LightningArrestor	Point		PIPILI-1		
10999	LightningArrestor	Point		PIPILI-2		
11000	LightningArrestor	Point		BANKI-1		
11001	LightningArrestor	Point		BANKI-2		
11002	LightningArrestor	Point		BANKI-3		
11003	LightningArrestor	Point		BAGHAMARI		
11004	LightningArrestor	Point		BEGUNIA S/O		
11005	LightningArrestor	Point		KALAFATNAR		
11006	LightningArrestor	Point		RASULMIRKHA		
11007	LightningArrestor	Point		JANKIA SEC OFF		
11008	LightningArrestor	Point		MALIPADA		
11009	LightningArrestor	Point		NIRAKARPUR		
11010	LightningArrestor	Point		HARIRAPUR		
11011	LightningArrestor	Point		ANILA		
11012	LightningArrestor	Point		JATANI-1		
11013	LightningArrestor	Point		JATANI-2		
11014	LightningArrestor	Point		KHURDA-1		
11015	LightningArrestor	Point		KHURDA-2		
11016	LightningArrestor	Point		KHURDA-3		
11017	LightningArrestor	Point		KHURDA-4		
11018	LightningArrestor	Point		DASPALLA		
11019	LightningArrestor	Point		GANNA		
11020	LightningArrestor	Point		NUAGAON		
11021	LightningArrestor	Point		BOLAGARH		
11022	LightningArrestor	Point		ITAMATI-1		
11023	LightningArrestor	Point		ITAMATI-2		
11024	LightningArrestor	Point		BHAPUR-1		
11025	LightningArrestor	Point		BHAPUR-2		
11026	LightningArrestor	Point		KANTILO		
11027	LightningArrestor	Point		KHANDAPADA		
11028	LightningArrestor	Point		NAYAGARH		
11029	LightningArrestor	Point		ODDAGAN-1		
11030	LightningArrestor	Point		ODDAGAN-2		
11031	LightningArrestor	Point		PERIPHERY S/O		
11032	LightningArrestor	Point		SARANAKUL-1		
11033	LightningArrestor	Point		SARANAKUL-2		
11034	LightningArrestor	Point		BALLUGAON-1		
11035	LightningArrestor	Point		BALLUGAON-2		
11036	LightningArrestor	Point		BANAPUR-1		
11037	LightningArrestor	Point		BANAPUR-2		
11038	LightningArrestor	Point		NACHUNI		
11039	LightningArrestor	Point		BHUSANDPUR		
11040	LightningArrestor	Point		KHURDI		
11041	LightningArrestor	Point		RANAPUR		
11042	LightningArrestor	Point		TANGI-1		
11043	LightningArrestor	Point		TANGI-2		
11044	LightningArrestor	Point		BALAPANDA		
11045	LightningArrestor	Point		KACHERI		
11046	LightningArrestor	Point		PASCHIMADWAR		
11047	LightningArrestor	Point		SWARGADWAR		
11048	LightningArrestor	Point		BRAHMAGIRI		
11049	LightningArrestor	Point		DELANGA		
11050	LightningArrestor	Point		KANKS		
11051	LightningArrestor	Point		SADAR		
11052	LightningArrestor	Point		SUNAMUHI		
11053	LightningArrestor	Point		CHARINALA		
11054	LightningArrestor	Point		GHODABAZAR		
11055	LightningArrestor	Point		POWER HOUSE		
11056	LightningArrestor	Point		TALABANIA		
11057	LightningArrestor	Point		CHANDANPUR		
11058	LightningArrestor	Point		SAKHIGOPAL-1		
11059	LightningArrestor	Point		SAKHIGOPAL-2		
11060	LightningArrestor	Point		SATASANKHA		
11061	LightningArrestor	Point		BUXI BAZAAR		
11062	LightningArrestor	Point		COLLEGE SQUARE		
11063	LightningArrestor	Point		RANIHAT-1		
11064	LightningArrestor	Point		RANIHAT-2		
11065	LightningArrestor	Point		CITY		
11066	LightningArrestor	Point		GANESH GHAT		
11067	LightningArrestor	Point		KAZI BAZAAR		
11068	LightningArrestor	Point		TOWN HALL		
11069	LightningArrestor	Point		CANTONMENT		

11339	Fuse	Fuse	Point	Phase designation	Phase	B	1						
11340	Fuse	Fuse	Point			RY	6	short Integer					
11341	Fuse	Fuse	Point			YB	3						
11342	Fuse	Fuse	Point			RB	5						
11343	Fuse	Fuse	Point			RVB	7						
11344	Fuse	Fuse	Point			5	5						
11345	Fuse	Fuse	Point			10	10						
11346	Fuse	Fuse	Point			15	15						
11347	Fuse	Fuse	Point			20	20						
11348	Fuse	Fuse	Point			30	30						
11349	Fuse	Fuse	Point			32	32						
11350	Fuse	Fuse	Point			40	40						
11351	Fuse	Fuse	Point			60	60						
11352	Fuse	Fuse	Point	Rating	Rating	63	63	Text	10				
11353	Fuse	Fuse	Point			70	70						
11354	Fuse	Fuse	Point			100	100						
11355	Fuse	Fuse	Point			200	200						
11356	Fuse	Fuse	Point			300	300						
11357	Fuse	Fuse	Point			315	315						
11358	Fuse	Fuse	Point			400	400						
11359	Fuse	Fuse	Point			500	500						
11360	Fuse	Fuse	Point	NormalStatus	Normal Status	Open	0	Long Integer			YES		
11361	Fuse	Fuse	Point			Close	1						
11362	Fuse	Fuse	Point			Not Applicable	2						
11363	Fuse	Fuse	Point	NormalPositionR	Normal Position R	Open	0	Long Integer					
11364	Fuse	Fuse	Point			Close	1						
11365	Fuse	Fuse	Point			Not Applicable	2						
11366	Fuse	Fuse	Point	NormalPositionY	Normal Position Y	Open	0	Long Integer					
11367	Fuse	Fuse	Point			Close	1						
11368	Fuse	Fuse	Point			Not Applicable	2						
11369	Fuse	Fuse	Point	NormalPositionB	Normal Position B	Open	0	Long Integer					
11370	Fuse	Fuse	Point			Close	1						
11371	Fuse	Fuse	Point			Not Applicable	2						
11372	Fuse	Fuse	Point	PresentPositionR	Present Position R	Open	0	Long Integer					
11373	Fuse	Fuse	Point			Close	1						
11374	Fuse	Fuse	Point			Not Applicable	2						
11375	Fuse	Fuse	Point	PresentPositionY	Present Position Y	Open	0	Long Integer					
11376	Fuse	Fuse	Point			Close	1						
11377	Fuse	Fuse	Point			Not Applicable	2						
11378	Fuse	Fuse	Point	PresentPositionB	Present Position B	Open	0	Long Integer					
11379	Fuse	Fuse	Point			Close	1						
11380	Fuse	Fuse	Point			Not Applicable	2						
11381	Fuse	Fuse	Point	FaultCurrent	Fault Current			short Integer					
11382	Fuse	Fuse	Point	DTCCode	DTC Code			Text	9	YES	Modify on 08.04.2021		
11383	Fuse	Fuse	Point	ConnectionStatus	Connection Status	Connected	1	Text	12	YES			
11384	Fuse	Fuse	Point			Disconnected	2						
11385	Fuse	Fuse	Point			Open	3						
11386	Fuse	Fuse	Point			Dismantle	4						
11387	Fuse	Fuse	Point	Cost	Cost			Text	10				
11388	Fuse	Fuse	Point	FeederCode	Feeder Code			Text	3	YES			
11389	Fuse	Fuse	Point	Class	Class	HT	1	short Integer		YES			
11390	Fuse	Fuse	Point			T	2						
11391	Fuse	Fuse	Point			BRIT COLONY	1111			YES			
11392	Fuse	Fuse	Point			DELTA	1112						
11393	Fuse	Fuse	Point			POWER HOUSE-1	1113						
11394	Fuse	Fuse	Point			UNIT-6	1114						
11395	Fuse	Fuse	Point			POWER HOUSE-2	1115						
11396	Fuse	Fuse	Point			KARVEL NAGAR	1121						
11397	Fuse	Fuse	Point			UNIT-1	1122						
11398	Fuse	Fuse	Point			UNIT-2	1123						
11399	Fuse	Fuse	Point			UNIT-4	1124						
11400	Fuse	Fuse	Point			BOARD COLONY	1131						
11401	Fuse	Fuse	Point			SAHID NAGAR	1132						
11402	Fuse	Fuse	Point			UNIT-9 FLAT	1133						
11403	Fuse	Fuse	Point			UNIT-9 ROAD	1134						
11404	Fuse	Fuse	Point			BHARATI PUR	1211						
11405	Fuse	Fuse	Point			DUMDUMA	1212						
11406	Fuse	Fuse	Point			KALINGANAGAR	1213						
11407	Fuse	Fuse	Point			KHANDGIRI S/O	1214						
11408	Fuse	Fuse	Point			BARAMUNDA	1221						
11409	Fuse	Fuse	Point			IRC NAYAPALLI	1222						
11410	Fuse	Fuse	Point			YES NAGAR	1223						
11411	Fuse	Fuse	Point			XAVIER	1224						
11412	Fuse	Fuse	Point			BARANG	1231						
11413	Fuse	Fuse	Point			CS PUR-1	1232						
11414	Fuse	Fuse	Point			CS PUR-2	1233						
11415	Fuse	Fuse	Point			GODSAH	1234						
11416	Fuse	Fuse	Point			KANANVIHAR	1235						
11417	Fuse	Fuse	Point			KALPANA-1	1311						
11418	Fuse	Fuse	Point			KALPANA-2	1312						
11419	Fuse	Fuse	Point			LAXMISAGAR	1313						
11420	Fuse	Fuse	Point			MANCHESWAR	1314						
11421	Fuse	Fuse	Point			PHULNAKHARA	1315						
11422	Fuse	Fuse	Point			RASULGARH S/O	1316						
11423	Fuse	Fuse	Point			BARAGADA	1321						
11424	Fuse	Fuse	Point			DHAULI	1322						
11425	Fuse	Fuse	Point			OLD TOWN-1	1323						
11426	Fuse	Fuse	Point			OLD TOWN-2	1324						
11427	Fuse	Fuse	Point			OLD TOWN-3	1325						
11428	Fuse	Fuse	Point			UTTARA	1326						
11429	Fuse	Fuse	Point			ASTRANG	1411						
11430	Fuse	Fuse	Point			KAKATPUR-1	1412						
11431	Fuse	Fuse	Point			KAKATPUR-2	1413						
11432	Fuse	Fuse	Point			GDP	1421						
11433	Fuse	Fuse	Point			KONARK	1422						
11434	Fuse	Fuse	Point			NIMAPARA-1	1423						
11435	Fuse	Fuse	Point			NIMAPARA-2	1424						
11436	Fuse	Fuse	Point			BALAKATI	1431						
11437	Fuse	Fuse	Point			BALPATNA	1432						
11438	Fuse	Fuse	Point			BHARATI PUR	1433						
11439	Fuse	Fuse	Point			PIPLI-1	1434						
11440	Fuse	Fuse	Point			PIPLI-2	1435						
11441	Fuse	Fuse	Point			BANKI-1	2111						
11442	Fuse	Fuse	Point			BANKI-2	2112						
11443	Fuse	Fuse	Point			BANKI-3	2113						
11444	Fuse	Fuse	Point			BAGRIMARI	2121						
11445	Fuse	Fuse	Point			BEGUNIA S/O	2122						
11446	Fuse	Fuse	Point			KALAPATHAR	2123						
11447	Fuse	Fuse	Point			RAISUNAKHALA	2124						
11448	Fuse	Fuse	Point			JANKIA SEC OFF	2131						
11449	Fuse	Fuse	Point			MALIPADA	2132						
11450	Fuse	Fuse	Point			NIRAKARPUR	2133						
11451	Fuse	Fuse	Point			HARIRAJPUR	2141						
11452	Fuse	Fuse	Point			JANLA	2142						
11453	Fuse	Fuse	Point			JATANI-1	2143						
11454	Fuse	Fuse	Point			JATANI-2	2144						
11455	Fuse	Fuse	Point			KHURDA-1	2151						
11456	Fuse	Fuse	Point			KHURDA-2	2152						
11457	Fuse	Fuse	Point			KHURDA-3	2153						
11458	Fuse	Fuse	Point			KHURDA-4	2154						
11459	Fuse	Fuse	Point			DASPALA	2211						
11460	Fuse	Fuse	Point			GANIA	2212						
11461	Fuse	Fuse	Point			NUAGAON	2213						
11462	Fuse	Fuse	Point			BOLAGARH	2221						
11463	Fuse	Fuse	Point			ITAMATI-1	2222						
11464	Fuse	Fuse	Point			ITAMATI-2	2223						
11465	Fuse	Fuse	Point			BHAPUR-1	2231						
11466	Fuse	Fuse	Point			BHAPUR-2	2232						
11467	Fuse	Fuse	Point			KANTILO	2233						
11468	Fuse	Fuse	Point			KHANDAPADA	2234						
11469	Fuse	Fuse	Point			NIYAGARH	2241						
11470	Fuse	Fuse	Point			ODAGAON-1	2242						
11471	Fuse	Fuse	Point			ODAGAON-2	2243						
11472	Fuse	Fuse	Point			PERIPHERY S/O	2244						
11473	Fuse	Fuse	Point			SARANAKUL-1	2245						

11609	Fuse	Fuse	Point		PATTAMUNDAI-1	5133						
11610	Fuse	Fuse	Point		PATTAMUNDAI-2	5134						
11611	Fuse	Fuse	Point		PATTAMUNDAI-3	5135						
11612	Fuse	Fuse	Point		RAINAGAR-1	5141						
11613	Fuse	Fuse	Point		RAINAGAR-2	5142						
11614	Fuse	Fuse	Point		TALACHUA	5143						
11615	Fuse	Fuse	Point		BASAR	5221						
11616	Fuse	Fuse	Point		LUNA	5212						
11617	Fuse	Fuse	Point		MAHAKALAPADA	5213						
11618	Fuse	Fuse	Point		GARADAPUR	5221						
11619	Fuse	Fuse	Point		KORUA	5222						
11620	Fuse	Fuse	Point		MARSHAGHAI S/O	5223						
11621	Fuse	Fuse	Point		NUJAPADA	5224						
11622	Fuse	Fuse	Point		BALIKUDA-1	5311						
11623	Fuse	Fuse	Point		BALIKUDA-2	5312						
11624	Fuse	Fuse	Point		NAUGADN	5313						
11625	Fuse	Fuse	Point		DHAGSAH	5321						
11626	Fuse	Fuse	Point		J S PUR-1	5322						
11627	Fuse	Fuse	Point		J S PUR-2	5323						
11628	Fuse	Fuse	Point		MANDASAH	5324						
11629	Fuse	Fuse	Point		BIRDI	5331						
11630	Fuse	Fuse	Point		RAGHUNATHPUR S/O	5332						
11631	Fuse	Fuse	Point		CHATUA	5411						
11632	Fuse	Fuse	Point		KUJANG	5412						
11633	Fuse	Fuse	Point		RAHAMA	5413						
11634	Fuse	Fuse	Point		BHUTAMUNDAI	5421						
11635	Fuse	Fuse	Point		PARADEEP SEC OFF	5422						
11636	Fuse	Fuse	Point		ERSAMA	5431						
11637	Fuse	Fuse	Point		KOLAR	5432						
11638	Fuse	Fuse	Point		TIRTOL	5433						
11639	Fuse	Fuse	Point		SUB DIVISION-3, BBSR	1110				YES		
11640	Fuse	Fuse	Point		SUB DIVISION-2, BBSR	1120						
11641	Fuse	Fuse	Point		SUB DIVISION-3, BBSR	1130						
11642	Fuse	Fuse	Point		KHANDAGIRI	1210						
11643	Fuse	Fuse	Point		NAYAPALLI	1220						
11644	Fuse	Fuse	Point		PERIPHERI	1230						
11645	Fuse	Fuse	Point		RASULGARH	1310						
11646	Fuse	Fuse	Point		TEMPLE	1320						
11647	Fuse	Fuse	Point		KAKATPUR	1410						
11648	Fuse	Fuse	Point		NIMAPARA	1420						
11649	Fuse	Fuse	Point		PIPLI	1430						
11650	Fuse	Fuse	Point		BANKI	2110						
11651	Fuse	Fuse	Point		BEGUNIA	2120						
11652	Fuse	Fuse	Point		JANKIA	2130						
11653	Fuse	Fuse	Point		JATNI	2140						
11654	Fuse	Fuse	Point		KHURDA	2150						
11655	Fuse	Fuse	Point		DOSPALLA	2210						
11656	Fuse	Fuse	Point		ITAMATI	2220						
11657	Fuse	Fuse	Point		KHANDAPADA	2230						
11658	Fuse	Fuse	Point		NAYAGARH	2240						
11659	Fuse	Fuse	Point		BALLGADN	2310						
11660	Fuse	Fuse	Point		ITANGI	2320						
11661	Fuse	Fuse	Point		PURI-1	2410						
11662	Fuse	Fuse	Point		PURI-2	2420						
11663	Fuse	Fuse	Point		PURI-3	2430						
11664	Fuse	Fuse	Point		SAKHIGOPAL	2440						
11665	Fuse	Fuse	Point		SUB DIVISION-1, CTC	3120						
11666	Fuse	Fuse	Point		SUB DIVISION-3, CTC	3120						
11667	Fuse	Fuse	Point		SUB DIVISION-4, CTC	3130						
11668	Fuse	Fuse	Point		SUB DIVISION-6, CTC	3140						
11669	Fuse	Fuse	Point		BADAMBADI	3210						
11670	Fuse	Fuse	Point		JORBA	3220						
11671	Fuse	Fuse	Point	Subdivision	MAHANADIVIHAR	3230	Text		14			
11672	Fuse	Fuse	Point		BADACHANA	3310						
11673	Fuse	Fuse	Point		CHOUWAR	3320						
11674	Fuse	Fuse	Point		IGOPALPUR	3330						
11675	Fuse	Fuse	Point		NIALI	3410						
11676	Fuse	Fuse	Point		NARASINGPUR	3410						
11677	Fuse	Fuse	Point		ATHAGADA	3420						
11678	Fuse	Fuse	Point		MAHANGA	3510						
11679	Fuse	Fuse	Point		N KOLI	3520						
11680	Fuse	Fuse	Point		SALPUR	3530						
11681	Fuse	Fuse	Point		DHENKANAL	4110						
11682	Fuse	Fuse	Point		GONDIA	4120						
11683	Fuse	Fuse	Point		HINDOL ROAD	4130						
11684	Fuse	Fuse	Point		KAMAKHYA NAGAR	4140						
11685	Fuse	Fuse	Point		ANGUL	4210						
11686	Fuse	Fuse	Point		BOINDA	4220						
11687	Fuse	Fuse	Point		CHENDIPADA	4230						
11688	Fuse	Fuse	Point		CHANNPAL	4310						
11689	Fuse	Fuse	Point		PALLAHARA	4320						
11690	Fuse	Fuse	Point		PARANGI	4330						
11691	Fuse	Fuse	Point		TALCHER	4340						
11692	Fuse	Fuse	Point		AUL	5110						
11693	Fuse	Fuse	Point		KENDRAPARA	5120						
11694	Fuse	Fuse	Point		PATTAMUNDAI	5130						
11695	Fuse	Fuse	Point		RAINAGAR	5140						
11696	Fuse	Fuse	Point		MAHAKALAPADA	5210						
11697	Fuse	Fuse	Point		MARSHAGHAI	5220						
11698	Fuse	Fuse	Point		BALIKUDA	5310						
11699	Fuse	Fuse	Point		JAGTINSINGPUR	5320						
11700	Fuse	Fuse	Point		RAGHUNATHPUR	5330						
11701	Fuse	Fuse	Point		KUJANGA	5410						
11702	Fuse	Fuse	Point		PARADEEP	5420						
11703	Fuse	Fuse	Point		TIRTOL	5430						
11704	Fuse	Fuse	Point		BCDD-1	11				YES		
11705	Fuse	Fuse	Point		BCDD-2	12						
11706	Fuse	Fuse	Point		BED	13						
11707	Fuse	Fuse	Point		NED	14						
11708	Fuse	Fuse	Point		KHD	21						
11709	Fuse	Fuse	Point		NED	22						
11710	Fuse	Fuse	Point		BAED	23						
11711	Fuse	Fuse	Point		PED	24						
11712	Fuse	Fuse	Point		CDD-1	31						
11713	Fuse	Fuse	Point	Division	CDD-2	32	Text		6			
11714	Fuse	Fuse	Point		CDD	33						
11715	Fuse	Fuse	Point		AED	34						
11716	Fuse	Fuse	Point		SED	35						
11717	Fuse	Fuse	Point		DED	41						
11718	Fuse	Fuse	Point		ANED	42						
11719	Fuse	Fuse	Point		TED	43						
11720	Fuse	Fuse	Point		KED-1	51						
11721	Fuse	Fuse	Point		KED-2	52						
11722	Fuse	Fuse	Point		JED	53						
11723	Fuse	Fuse	Point		POP	54						
11724	Fuse	Fuse	Point		BBSR-1	1				YES		
11725	Fuse	Fuse	Point		BBSR-2	2						
11726	Fuse	Fuse	Point	Circle	CTC	3	Text		6			
11727	Fuse	Fuse	Point		DKL	4						
11728	Fuse	Fuse	Point		POP	5						
11729	Fuse	Fuse	Point	Zone	TPCOOL	1	Text		6			
11730	Fuse	Fuse	Point	EAEquipment	EAEquipment		Text		50			
11731	Fuse	Fuse	Point	SAP ID	SAP ID		Text		50			
11732	Fuse	Fuse	Point	MaterialCode	Material Code		Text		9			Integration Field
11733	Fuse	Fuse	Point	WorkOrderID	Work Order ID		Text		50			Integration Field
11734	Fuse	Fuse	Point	SurveyorRemark	Surveyor Remark		Text		250			
11735	Fuse	Fuse	Point	LocationCodeX	Location Code X		Double					System Field
11736	Fuse	Fuse	Point	LocationCodeY	Location Code Y		Double					System Field
11737	Fuse	Fuse	Point	MMELECTRICTRACEWEIGHT	MM Electric Trace Weight		Long Integer					System Field
11738	Fuse	Fuse	Point	FEEDERINFO	Feeder Info		Long Integer					System Field
11739	Fuse	Fuse	Point	SHAPE	Shape		Geometry		4			System Field
11740	Fuse	Fuse	Point	SAPFunctionalLocation	SAP Functional Location		Text		50			Integration Field
11741	Fuse	Fuse	Point	StationFacilityIDFK	Station Facility ID FK		Text		50			System Field
11742	Fuse	Fuse	Point	RMUFacilityIDFK	RMU Facility ID FK		Text		50			System Field
11743	Fuse	Fuse	Point	SSFacilityIDFK	SS Facility ID FK		Text		50			System Field

12149	Switch	Switch	Point			JAGATYINGPUR	5320						
12150	Switch	Switch	Point			RAJGUNAHPUR	5330						
12151	Switch	Switch	Point			KUJANGA	5410						
12152	Switch	Switch	Point			PARADEEP	5420						
12153	Switch	Switch	Point			TIRTOL	5430						
12154	Switch	Switch	Point			BCDD-1	11					YES	
12155	Switch	Switch	Point			BCDD-2	12						
12156	Switch	Switch	Point			BED	13						
12157	Switch	Switch	Point			NED	14						
12158	Switch	Switch	Point			KHD	21						
12159	Switch	Switch	Point			NVED	22						
12160	Switch	Switch	Point			BAED	23						
12161	Switch	Switch	Point			PED	24						
12162	Switch	Switch	Point			CDD-1	31						
12163	Switch	Switch	Point	Division	Division	CDD-2	32			Text	6		
12164	Switch	Switch	Point			CED	33						
12165	Switch	Switch	Point			AED	34						
12166	Switch	Switch	Point			SED	35						
12167	Switch	Switch	Point			DED	41						
12168	Switch	Switch	Point			ANED	42						
12169	Switch	Switch	Point			TED	43						
12170	Switch	Switch	Point			KED-1	51						
12171	Switch	Switch	Point			KED-2	52						
12172	Switch	Switch	Point			JED	53						
12173	Switch	Switch	Point			PDP	54						
12174	Switch	Switch	Point			BBSR-1	1					YES	
12175	Switch	Switch	Point			BBSR-2	2						
12176	Switch	Switch	Point			CTC	3			Text	6		
12177	Switch	Switch	Point			DKL	4						
12178	Switch	Switch	Point			PDP	5						
12179	Switch	Switch	Point	Zone	Zone	TPCODL	1			Text	6	YES	
12180	Switch	Switch	Point	ESAEquipment	ESAEquipment					Text	50		
12181	Switch	Switch	Point	SAPID	SAP ID					Text	50		
12182	Switch	Switch	Point	WorkOrderID	Work Order ID					Text	50	Integration Field	
12183	Switch	Switch	Point	SurveyorRemark	Surveyor Remark					Text	250		
12184	Switch	Switch	Point	LocationCodeX	Location Code X					Double		System Field	
12185	Switch	Switch	Point	LocationCodeY	Location Code Y					Double		System Field	
12186	Switch	Switch	Point	MMELECTRICTRACEWEIGHT	MM Electric Trace Weight					Long Integer		System Field	
12187	Switch	Switch	Point	FEEDERINFO	Feeder Info					Long Integer		System Field	
12188	Switch	Switch	Point	SSFaciItyIDFK	SS Facility ID FK					Text	50	System Field	
12189	Switch	Switch	Point	RMUFaciItyIDFK	RMU Facility ID FK					Text	50	System Field	
12190	Switch	Switch	Point	PillarFaciItyIDFK	Pillar Facility ID FK					Text	50	System Field	
12191	Switch	Switch	Point	StationFaciItyIDFK	Station Facility ID FK					Text	50	System Field	
12192	Switch	Switch	Point	CYME	CYME					Text	11		
12193	Switch	Switch	Point	CYMESubstationCode	CYME Substation Code					Text	5		
12194	Switch	Switch	Point	SHAPE	Shape					Geometry	4	System Field	
12195	Switch	Switch	Point			New		New					
12196	Switch	Switch	Point	UpdateType	Update Type	Modification		Modification		Text	12		
12197	Switch	Switch	Point			Delete		Delete					
12198	DistributionTransformer	Distribution Transformer	Point	OBJECTID	Object ID					Object ID		System Field	
12199	DistributionTransformer	Distribution Transformer	Point	Name	Name					Text	250	YES	
12200	DistributionTransformer	Distribution Transformer	Point	DTCCode	DTC Code					Text	9		Modify on 08.04.2021
12201	DistributionTransformer	Distribution Transformer	Point	ExistingCESUDTCCode	CESU DTC Code (Existing)					Text	10		
12202	DistributionTransformer	Distribution Transformer	Point	GISID	GIS ID					Text	50		
12203	DistributionTransformer	Distribution Transformer	Point	NIN	NIN					Text	50		
12204	DistributionTransformer	Distribution Transformer	Point	TOGISID	To GIS ID					Text	50		
12205	DistributionTransformer	Distribution Transformer	Point	FromGISID	From GIS ID					Text	50		
12206	DistributionTransformer	Distribution Transformer	Point	FeederID	Feeder ID					Text	9	YES	Modify on 08.04.2021
12207	DistributionTransformer	Distribution Transformer	Point	FeederID2	Feeder ID2					Text	9		Modify on 08.04.2021
12208	DistributionTransformer	Distribution Transformer	Point	FeederName	Feeder Name					Text	50	YES	
12209	DistributionTransformer	Distribution Transformer	Point			R	4					YES	
12210	DistributionTransformer	Distribution Transformer	Point			B	2						
12211	DistributionTransformer	Distribution Transformer	Point			B	1						
12212	DistributionTransformer	Distribution Transformer	Point	Phasedesignation	Phase	RY	6			short Integer			
12213	DistributionTransformer	Distribution Transformer	Point			YB	3						
12214	DistributionTransformer	Distribution Transformer	Point			RY	5						
12215	DistributionTransformer	Distribution Transformer	Point			RYB	7						
12216	DistributionTransformer	Distribution Transformer	Point			16 kVA	16					YES	
12217	DistributionTransformer	Distribution Transformer	Point			25 kVA	25						
12218	DistributionTransformer	Distribution Transformer	Point			50 kVA	50						
12219	DistributionTransformer	Distribution Transformer	Point			63 kVA	63						
12220	DistributionTransformer	Distribution Transformer	Point			80 kVA	75						
12221	DistributionTransformer	Distribution Transformer	Point			100 kVA	100						
12222	DistributionTransformer	Distribution Transformer	Point			150 kVA	150						
12223	DistributionTransformer	Distribution Transformer	Point			200 kVA	200						
12224	DistributionTransformer	Distribution Transformer	Point			250 kVA	250						
12225	DistributionTransformer	Distribution Transformer	Point			300 kVA	300						
12226	DistributionTransformer	Distribution Transformer	Point			315 kVA	315						
12227	DistributionTransformer	Distribution Transformer	Point			350 kVA	350						
12228	DistributionTransformer	Distribution Transformer	Point			400 kVA	400						
12229	DistributionTransformer	Distribution Transformer	Point			500 kVA	500						
12230	DistributionTransformer	Distribution Transformer	Point			630 kVA	630						
12231	DistributionTransformer	Distribution Transformer	Point			650 kVA	650						
12232	DistributionTransformer	Distribution Transformer	Point			750 kVA	750						
12233	DistributionTransformer	Distribution Transformer	Point			800 kVA	800						
12234	DistributionTransformer	Distribution Transformer	Point	CapacityInkVA	Capacity (kVA)	1000 kVA	1000			short Integer			
12235	DistributionTransformer	Distribution Transformer	Point			1200 kVA	1200						
12236	DistributionTransformer	Distribution Transformer	Point			1500 kVA	1500						
12237	DistributionTransformer	Distribution Transformer	Point			1750 kVA	1750						
12238	DistributionTransformer	Distribution Transformer	Point			2000 kVA	2000						
12239	DistributionTransformer	Distribution Transformer	Point			Other	999						
12240	DistributionTransformer	Distribution Transformer	Point			160 kVA	160						
12241	DistributionTransformer	Distribution Transformer	Point			30 kVA	30						
12242	DistributionTransformer	Distribution Transformer	Point			950 kVA	950						
12243	DistributionTransformer	Distribution Transformer	Point			125 kVA	125						
12244	DistributionTransformer	Distribution Transformer	Point			1250 kVA	1250						
12245	DistributionTransformer	Distribution Transformer	Point			415 kVA	415						
12246	DistributionTransformer	Distribution Transformer	Point			900 kVA	900						
12247	DistributionTransformer	Distribution Transformer	Point			1600 kVA	1600						
12248	DistributionTransformer	Distribution Transformer	Point			2500 kVA	2500						
12249	DistributionTransformer	Distribution Transformer	Point			10 kVA	10						
12250	DistributionTransformer	Distribution Transformer	Point			220 kVA	220						
12251	DistributionTransformer	Distribution Transformer	Point			990 kVA	990						
12252	DistributionTransformer	Distribution Transformer	Point			995 kVA	995						
12253	DistributionTransformer	Distribution Transformer	Point	PercentageImpedance	Percentage Impedance					Text	10		
12254	DistributionTransformer	Distribution Transformer	Point			0.11 kV	120					YES	
12255	DistributionTransformer	Distribution Transformer	Point			11 kV	340						
12256	DistributionTransformer	Distribution Transformer	Point			22 kV	360						
12257	DistributionTransformer	Distribution Transformer	Point			33 kV	380						
12258	DistributionTransformer	Distribution Transformer	Point	HighSideVoltage	High Voltage Side Volts	66 kV	80			short Integer			
12259	DistributionTransformer	Distribution Transformer	Point			100 kV	90						
12260	DistributionTransformer	Distribution Transformer	Point			132 kV	110						
12261	DistributionTransformer	Distribution Transformer	Point			220 kV	150						
12262	DistributionTransformer	Distribution Transformer	Point			400 kV	260						
12263	DistributionTransformer	Distribution Transformer	Point			Breaker		Breaker				YES	
12264	DistributionTransformer	Distribution Transformer	Point			Isolator+Fuse		Isolator+Fuse					
12265	DistributionTransformer	Distribution Transformer	Point	HTProtection	HT Protection	Fuse		Fuse		Text	13		
12266	DistributionTransformer	Distribution Transformer	Point			None		None					
12267	DistributionTransformer	Distribution Transformer	Point			ACB		ACB				YES	
12268	DistributionTransformer	Distribution Transformer	Point	LTProtection	LT Protection	MCCB		MCCB		Text	4		
12269	DistributionTransformer	Distribution Transformer	Point			Fuse		Fuse					
12270	DistributionTransformer	Distribution Transformer	Point			None		None					
12271	DistributionTransformer	Distribution Transformer	Point			0.11 kV	120					YES	
12272	DistributionTransformer	Distribution Transformer	Point	LowSideVoltage	Low Side Voltage	0.24 kV	160			short Integer			
12273	DistributionTransformer	Distribution Transformer	Point			0.43 kV	210						
12274	DistributionTransformer	Distribution Transformer	Point			Single Pole		Single Pole				YES	
12275	DistributionTransformer	Distribution Transformer	Point			Double Pole		Double Pole					
12276	DistributionTransformer	Distribution Transformer	Point	TransformerMounting	Transformer Mounting	Tri pole		Tri pole		Text	16		
12277	DistributionTransformer	Distribution Transformer	Point			Four Pole		Four Pole					
12278	DistributionTransformer	Distribution Transformer	Point			Platform Mounted		Platform Mounted					
12279	DistributionTransformer	Distribution Transformer	Point			Indoor		Indoor					
12280	DistributionTransformer	Distribution Transformer	Point			Good		Good				YES	
12281	DistributionTransformer	Distribution Transformer	Point			Poor		Poor					
12282	DistributionTransformer	Distribution Transformer	Point			New		New					
12283	DistributionTransformer	Distribution Transformer	Point			Damage		Damage					

12284	Distribution Transformer	Distribution Transformer	Point	DTCondition	DT Condition	Faulty	Releasable	Faulty	Text	6		
12285	Distribution Transformer	Distribution Transformer	Point			Releasable	Releasable	Releasable				
12286	Distribution Transformer	Distribution Transformer	Point			Repairable	Repairable	Repairable				
12287	Distribution Transformer	Distribution Transformer	Point			Under disposal review		Under disposal review				
12288	Distribution Transformer	Distribution Transformer	Point			CRGO	CRGO	CRGO	Text	9		
12289	Distribution Transformer	Distribution Transformer	Point	TypeOfCore	Type of Core	Amorphous	Amorphous	Amorphous			YES	
12290	Distribution Transformer	Distribution Transformer	Point			Dyn11	Dyn11	Dyn11				
12291	Distribution Transformer	Distribution Transformer	Point	VectorGroup	Vector Group	Yyn0	Yyn0	Yyn0	Text	24		
12292	Distribution Transformer	Distribution Transformer	Point			Other	Other	Other				
12293	Distribution Transformer	Distribution Transformer	Point			No Load Loss			Text	10		
12294	Distribution Transformer	Distribution Transformer	Point			Copper Loss			Text	10		
12295	Distribution Transformer	Distribution Transformer	Point			Total Loss			Text	50		
12296	Distribution Transformer	Distribution Transformer	Point								YES	
12297	Distribution Transformer	Distribution Transformer	Point			Agricultural		Agricultural				
12298	Distribution Transformer	Distribution Transformer	Point			Industrial		Industrial				
12299	Distribution Transformer	Distribution Transformer	Point	CustomerClassCode	Customer Class code	Residential		Residential	Text	12		
12300	Distribution Transformer	Distribution Transformer	Point			Commercial		Commercial				
12301	Distribution Transformer	Distribution Transformer	Point			Mixed		Mixed				
12302	Distribution Transformer	Distribution Transformer	Point	MaximumTap	Maximum Tap				Text	20		
12303	Distribution Transformer	Distribution Transformer	Point	MinimumTap	Minimum Tap				Text	20		
12304	Distribution Transformer	Distribution Transformer	Point	NumberOfSteps	Number of Steps				Text	20		
12305	Distribution Transformer	Distribution Transformer	Point	AdoptedTap	Adopted Tap				Text	20		
12306	Distribution Transformer	Distribution Transformer	Point			3 Star		3 Star				
12307	Distribution Transformer	Distribution Transformer	Point	StarRating	Star Rating	4 Star		4 Star	Text	6		
12308	Distribution Transformer	Distribution Transformer	Point			5 Star		5 Star				
12309	Distribution Transformer	Distribution Transformer	Point			Other		Other				
12310	Distribution Transformer	Distribution Transformer	Point			CSP (new)						
12311	Distribution Transformer	Distribution Transformer	Point	CSPType	CSP Type	Without CSP (new)			Text	17		
12312	Distribution Transformer	Distribution Transformer	Point			Normal						
12313	Distribution Transformer	Distribution Transformer	Point	MaximumDemand	Maximum Demand				Text	10		
12314	Distribution Transformer	Distribution Transformer	Point	JobNumber	Job Number				Text	50		
12315	Distribution Transformer	Distribution Transformer	Point	DateOfManufacturing	Date of Manufacturing				Date	DDMMYYYY		
12316	Distribution Transformer	Distribution Transformer	Point	ConsumptionType	Consumption Type				Text	50		
12317	Distribution Transformer	Distribution Transformer	Point	TotalLoad	Total Load				Float			
12318	Distribution Transformer	Distribution Transformer	Point	ConsumerCount	Consumer Count				Text	4		
12319	Distribution Transformer	Distribution Transformer	Point	HighSideCurrentRating	High Side Current Rating				Text	20		
12320	Distribution Transformer	Distribution Transformer	Point	LowSideCurrentRating	Low Side Current Rating				Text	20		
12321	Distribution Transformer	Distribution Transformer	Point			Dry		1				
12322	Distribution Transformer	Distribution Transformer	Point	CoolingType	Cooling Type	Oil		2	Text	5		
12323	Distribution Transformer	Distribution Transformer	Point			Other		Other				
12324	Distribution Transformer	Distribution Transformer	Point			Yes			Text	20		
12325	Distribution Transformer	Distribution Transformer	Point	Earthing	Earthing	NO						
12326	Distribution Transformer	Distribution Transformer	Point	DateOfCommissioning	Date Of Commissioning				Date	DDMMYYYY	YES	
12327	Distribution Transformer	Distribution Transformer	Point			Yes		Yes				
12328	Distribution Transformer	Distribution Transformer	Point	CompactType	Compact Type	No		No	Text	3		
12329	Distribution Transformer	Distribution Transformer	Point			0.11 kV		120				
12330	Distribution Transformer	Distribution Transformer	Point			0.24 kV		160				
12331	Distribution Transformer	Distribution Transformer	Point			0.43 kV		210				
12332	Distribution Transformer	Distribution Transformer	Point			100 kV		90				
12333	Distribution Transformer	Distribution Transformer	Point			11 kV		340				
12334	Distribution Transformer	Distribution Transformer	Point	TertiaryVoltage	Tertiary Voltage	132 kV		110	Text	50		short intenger
12335	Distribution Transformer	Distribution Transformer	Point			22 kV		360				
12336	Distribution Transformer	Distribution Transformer	Point			33 kV		380				
12337	Distribution Transformer	Distribution Transformer	Point			66 kV		80				
12338	Distribution Transformer	Distribution Transformer	Point			220 kV		150				
12339	Distribution Transformer	Distribution Transformer	Point			400 kV		260				
12340	Distribution Transformer	Distribution Transformer	Point			Agriculture		Agriculture			YES	
12341	Distribution Transformer	Distribution Transformer	Point			Commercial Complex		Commercial Complex				
12342	Distribution Transformer	Distribution Transformer	Point			Cinema		Cinema				
12343	Distribution Transformer	Distribution Transformer	Point			Departmental Store		Departmental Store				
12344	Distribution Transformer	Distribution Transformer	Point			Govt Offices		Govt Offices				
12345	Distribution Transformer	Distribution Transformer	Point			Govt Otrs		Govt Otrs				
12346	Distribution Transformer	Distribution Transformer	Point			Hotel		Hotel				
12347	Distribution Transformer	Distribution Transformer	Point	DTCTType	DTCT Type	Govt Hospital		Govt Hospital	Text	19		
12348	Distribution Transformer	Distribution Transformer	Point			Private Hospital		Private Hospital				
12349	Distribution Transformer	Distribution Transformer	Point			Industrial Non MIDC		Industrial Non MIDC				
12350	Distribution Transformer	Distribution Transformer	Point			Residential Complex		Residential Complex				
12351	Distribution Transformer	Distribution Transformer	Point			Slum Area		Slum Area				
12352	Distribution Transformer	Distribution Transformer	Point			Industrial MIDC		Industrial MIDC				
12353	Distribution Transformer	Distribution Transformer	Point			Any Other Type		Any Other Type				
12354	Distribution Transformer	Distribution Transformer	Point			RCI Excluding AG		RCI Excluding AG				
12355	Distribution Transformer	Distribution Transformer	Point	WeightOfOil	Weight of Oil				Text	6		
12356	Distribution Transformer	Distribution Transformer	Point	OilQuantity	Oil Quantity				Text	6		
12357	Distribution Transformer	Distribution Transformer	Point	TransformerWeight	Transformer Weight				Text	50		
12358	Distribution Transformer	Distribution Transformer	Point	PercentageLoading	Percentage Loading				Text	50		
12359	Distribution Transformer	Distribution Transformer	Point	NeutralEarthing	Neutral Earthing	Yes		Yes	Text	3	YES	
12360	Distribution Transformer	Distribution Transformer	Point			No		No				
12361	Distribution Transformer	Distribution Transformer	Point	TemperatureRisingWDG	Temperature Rising WDG				Text	20		
12362	Distribution Transformer	Distribution Transformer	Point	TemperatureRisingOil	Temperature Rising Oil				Text	20		
12363	Distribution Transformer	Distribution Transformer	Point			Utility		Utility			YES	
12364	Distribution Transformer	Distribution Transformer	Point	Ownership	Ownership	Private		Private	Text	7		
12365	Distribution Transformer	Distribution Transformer	Point			Other		Other				
12366	Distribution Transformer	Distribution Transformer	Point	LifeSpan	Life Span				Text	50		
12367	Distribution Transformer	Distribution Transformer	Point	SwitchID	Switch ID				Text	10		
12368	Distribution Transformer	Distribution Transformer	Point			Primary		1				
12369	Distribution Transformer	Distribution Transformer	Point	TapLocation	Tap Location	Secondary		2	Text	9		
12370	Distribution Transformer	Distribution Transformer	Point			Tertiary		3				
12371	Distribution Transformer	Distribution Transformer	Point	Configuration	Configuration	High Side Configuration		High Side Configuration	Text	23		
12372	Distribution Transformer	Distribution Transformer	Point			Low Side Configuration		Low Side Configuration				
12373	Distribution Transformer	Distribution Transformer	Point			Connected		1			YES	
12374	Distribution Transformer	Distribution Transformer	Point	ConnectionStatus	Connection Status	Disconnected		2	Text	12		
12375	Distribution Transformer	Distribution Transformer	Point			Bypassed		3				
12376	Distribution Transformer	Distribution Transformer	Point			Dismantle		4				
12377	Distribution Transformer	Distribution Transformer	Point			3						
12378	Distribution Transformer	Distribution Transformer	Point	Make	Make				Text	50	YES	
12379	Distribution Transformer	Distribution Transformer	Point	SerialNumber	Serial Number				Text	50		
12380	Distribution Transformer	Distribution Transformer	Point	ManufacturingYear	Manufacturing Year				Text	4		
12381	Distribution Transformer	Distribution Transformer	Point	LastMaintenanceDate	Last Maintenance Date				Date	DDMMYYYY		
12382	Distribution Transformer	Distribution Transformer	Point	Warranty	Warranty				Text	50		
12383	Distribution Transformer	Distribution Transformer	Point	Cost	Cost				Text	10		
12384	Distribution Transformer	Distribution Transformer	Point	FeederCode	Feeder Code				Text	3	YES	
12385	Distribution Transformer	Distribution Transformer	Point	EquipmentID	Equipment ID				Text	10		
12386	Distribution Transformer	Distribution Transformer	Point			LT DT		LT DT			YES	
12387	Distribution Transformer	Distribution Transformer	Point	DTUtilization	DT Utilization	HT DT		HT DT	Text	9		
12388	Distribution Transformer	Distribution Transformer	Point			HT SUB DT		HT SUB DT				
12389	Distribution Transformer	Distribution Transformer	Point	HTConsumerNumber	HT Consumer Number				Text	12		
12390	Distribution Transformer	Distribution Transformer	Point	Metering	Metering	HV Meter		HV Meter	Text	8	YES	
12391	Distribution Transformer	Distribution Transformer	Point	SAPFunctionalLocation	SAP Functional Location	LV Meter		LV Meter				
12392	Distribution Transformer	Distribution Transformer	Point						Text	50		
12393	Distribution Transformer	Distribution Transformer	Point	LoadTapChangerIndicator	Load Tap Changer Indicator	Yes		Yes	Text	3		
12394	Distribution Transformer	Distribution Transformer	Point			No		No				
12395	Distribution Transformer	Distribution Transformer	Point	MagnetizingCurrent	Magnetizing Current				Text	20		
12396	Distribution Transformer	Distribution Transformer	Point	NumberofWays	Number of Ways				Text	5	YES	
12397	Distribution Transformer	Distribution Transformer	Point			BRIT COLONY		1111			YES	
12398	Distribution Transformer	Distribution Transformer	Point			DELTA		1112				
12399	Distribution Transformer	Distribution Transformer	Point			POWER HOUSE-1		1113				
12400	Distribution Transformer	Distribution Transformer	Point			UNIT-6		1114				
12401	Distribution Transformer	Distribution Transformer	Point			POWER HOUSE-2		1115				
12402	Distribution Transformer	Distribution Transformer	Point			KARVEL NAGAR		1121				
12403	Distribution Transformer	Distribution Transformer	Point			UNIT-1		1122				
12404	Distribution Transformer	Distribution Transformer	Point			UNIT-2		1123				
12405	Distribution Transformer	Distribution Transformer	Point			UNIT-4		1124				
12406	Distribution Transformer	Distribution Transformer	Point			BOARD COLONY		1131				
12407	Distribution Transformer	Distribution Transformer	Point			SAHID NAGAR		1132				
12408	Distribution Transformer	Distribution Transformer	Point			UNIT-9 FLAT		1133				
12409	Distribution Transformer	Distribution Transformer	Point			UNIT-9 ROAD		1134				
12410	Distribution Transformer	Distribution Transformer	Point			BHARAPUR		1211				
12411	Distribution Transformer	Distribution Transformer	Point			DUMDUDUMA		1212				
12412	Distribution Transformer	Distribution Transformer	Point			KALINGANAGAR		1213				
12413	Distribution Transformer	Distribution Transformer	Point			KHANDAGIRI S/O		1214				
12414	Distribution Transformer	Distribution Transformer	Point			BARAMUNDA		1221				
12415	Distribution Transformer	Distribution Transformer	Point			IRC NAYAPALLI		1222				
12416	Distribution Transformer	Distribution Transformer	Point			VSS NAGAR		1223				
12417	Distribution Transformer	Distribution Transformer	Point			XAVIER		1224				
12418	Distribution Transformer	Distribution Transformer	Point			BARANG		1231				
						CS PUR-1		1232				

12419	Distribution Transformer	Distribution Transformer	Point			CS PUR-2	1233	
12420	Distribution Transformer	Distribution Transformer	Point			GODSAH	1234	
12421	Distribution Transformer	Distribution Transformer	Point			KANANVIHAR	1235	
12422	Distribution Transformer	Distribution Transformer	Point			KALPANA-1	1311	
12423	Distribution Transformer	Distribution Transformer	Point			KALPANA-2	1312	
12424	Distribution Transformer	Distribution Transformer	Point			LAXMISAGAR	1313	
12425	Distribution Transformer	Distribution Transformer	Point			MANCHESWAR	1314	
12426	Distribution Transformer	Distribution Transformer	Point			PHULNACHARA	1315	
12427	Distribution Transformer	Distribution Transformer	Point			RASULGARH S/O	1316	
12428	Distribution Transformer	Distribution Transformer	Point			BARAGADA	1321	
12429	Distribution Transformer	Distribution Transformer	Point			DHAULI	1322	
12430	Distribution Transformer	Distribution Transformer	Point			OLD TOWN-1	1323	
12431	Distribution Transformer	Distribution Transformer	Point			OLD TOWN-2	1324	
12432	Distribution Transformer	Distribution Transformer	Point			OLD TOWN-3	1325	
12433	Distribution Transformer	Distribution Transformer	Point			LUTTARA	1326	
12434	Distribution Transformer	Distribution Transformer	Point			ASTARANG	1411	
12435	Distribution Transformer	Distribution Transformer	Point			KAKATPUR-1	1412	
12436	Distribution Transformer	Distribution Transformer	Point			KAKATPUR-2	1413	
12437	Distribution Transformer	Distribution Transformer	Point			GOP	1421	
12438	Distribution Transformer	Distribution Transformer	Point			KONARK	1422	
12439	Distribution Transformer	Distribution Transformer	Point			NIMAPARA-1	1423	
12440	Distribution Transformer	Distribution Transformer	Point			NIMAPARA-2	1424	
12441	Distribution Transformer	Distribution Transformer	Point			BALAKATI	1431	
12442	Distribution Transformer	Distribution Transformer	Point			BALIPATNA	1432	
12443	Distribution Transformer	Distribution Transformer	Point			BHARATIPUR	1433	
12444	Distribution Transformer	Distribution Transformer	Point			PILPI-1	1434	
12445	Distribution Transformer	Distribution Transformer	Point			PILPI-2	1435	
12446	Distribution Transformer	Distribution Transformer	Point			BANKI-1	2111	
12447	Distribution Transformer	Distribution Transformer	Point			BANKI-2	2112	
12448	Distribution Transformer	Distribution Transformer	Point			BANKI-3	2113	
12449	Distribution Transformer	Distribution Transformer	Point			BAGHAMARI	2121	
12450	Distribution Transformer	Distribution Transformer	Point			BEGUNIA S/O	2122	
12451	Distribution Transformer	Distribution Transformer	Point			KALAPATHAR	2123	
12452	Distribution Transformer	Distribution Transformer	Point			RAISUNAKHALA	2124	
12453	Distribution Transformer	Distribution Transformer	Point			JANKIA SEC OFF	2131	
12454	Distribution Transformer	Distribution Transformer	Point			MALIPADA	2132	
12455	Distribution Transformer	Distribution Transformer	Point			HIRASARPUR	2133	
12456	Distribution Transformer	Distribution Transformer	Point			HARIRAPUR	2141	
12457	Distribution Transformer	Distribution Transformer	Point			JANLA	2142	
12458	Distribution Transformer	Distribution Transformer	Point			JATANI-1	2143	
12459	Distribution Transformer	Distribution Transformer	Point			JATANI-2	2144	
12460	Distribution Transformer	Distribution Transformer	Point			KHURDA-1	2151	
12461	Distribution Transformer	Distribution Transformer	Point			KHURDA-2	2152	
12462	Distribution Transformer	Distribution Transformer	Point			KHURDA-3	2153	
12463	Distribution Transformer	Distribution Transformer	Point			KHURDA-4	2154	
12464	Distribution Transformer	Distribution Transformer	Point			DASPALLA	2211	
12465	Distribution Transformer	Distribution Transformer	Point			GANIA	2212	
12466	Distribution Transformer	Distribution Transformer	Point			NUAGAON	2213	
12467	Distribution Transformer	Distribution Transformer	Point			BOLGARH	2221	
12468	Distribution Transformer	Distribution Transformer	Point			ITAMATI-1	2222	
12469	Distribution Transformer	Distribution Transformer	Point			ITAMATI-2	2223	
12470	Distribution Transformer	Distribution Transformer	Point			BHAPUR-1	2231	
12471	Distribution Transformer	Distribution Transformer	Point			BHAPUR-2	2232	
12472	Distribution Transformer	Distribution Transformer	Point			KANTILO	2233	
12473	Distribution Transformer	Distribution Transformer	Point			KHANDAPADA	2234	
12474	Distribution Transformer	Distribution Transformer	Point			NAYAGARI	2241	
12475	Distribution Transformer	Distribution Transformer	Point			GDAGAON-1	2243	
12476	Distribution Transformer	Distribution Transformer	Point			GDAGAON-2	2243	
12477	Distribution Transformer	Distribution Transformer	Point			PERIPHERY S/O	2244	
12478	Distribution Transformer	Distribution Transformer	Point			SARANAKUL-1	2245	
12479	Distribution Transformer	Distribution Transformer	Point			SARANAKUL-2	2246	
12480	Distribution Transformer	Distribution Transformer	Point			BALLIGAON-1	2311	
12481	Distribution Transformer	Distribution Transformer	Point			BALLIGAON-2	2312	
12482	Distribution Transformer	Distribution Transformer	Point			BANAPUR-1	2313	
12483	Distribution Transformer	Distribution Transformer	Point			BANAPUR-2	2314	
12484	Distribution Transformer	Distribution Transformer	Point			NACHUNI	2315	
12485	Distribution Transformer	Distribution Transformer	Point			BHUSANDOPUR	2321	
12486	Distribution Transformer	Distribution Transformer	Point			KUHDI	2322	
12487	Distribution Transformer	Distribution Transformer	Point			RANAPUR	2323	
12488	Distribution Transformer	Distribution Transformer	Point			TANGI-1	2324	
12489	Distribution Transformer	Distribution Transformer	Point			TANGI-2	2325	
12490	Distribution Transformer	Distribution Transformer	Point			KALUPANDA	2411	
12491	Distribution Transformer	Distribution Transformer	Point			KACHERI	2412	
12492	Distribution Transformer	Distribution Transformer	Point			PASCHIMADWAR	2413	
12493	Distribution Transformer	Distribution Transformer	Point			SWARGADWAR	2414	
12494	Distribution Transformer	Distribution Transformer	Point			BIRAHMAGIRI	2421	
12495	Distribution Transformer	Distribution Transformer	Point			DELANGAR	2423	
12496	Distribution Transformer	Distribution Transformer	Point			KANAS	2423	
12497	Distribution Transformer	Distribution Transformer	Point			SADAR	2424	
12498	Distribution Transformer	Distribution Transformer	Point			SUNAMUHI	2425	
12499	Distribution Transformer	Distribution Transformer	Point			CHARINILA	2426	
12500	Distribution Transformer	Distribution Transformer	Point			CHODABAZAR	2432	
12501	Distribution Transformer	Distribution Transformer	Point			POWER HOUSE	2433	
12502	Distribution Transformer	Distribution Transformer	Point			TALABANIA	2434	
12503	Distribution Transformer	Distribution Transformer	Point			CHANDANPUR	2441	
12504	Distribution Transformer	Distribution Transformer	Point			SAKHIGOPAL-1	2443	
12505	Distribution Transformer	Distribution Transformer	Point			SAKHIGOPAL-2	2443	
12506	Distribution Transformer	Distribution Transformer	Point			SATASANKHA	2444	
12507	Distribution Transformer	Distribution Transformer	Point			BUKI BAZAAR	3111	
12508	Distribution Transformer	Distribution Transformer	Point			COLLEGE SQUARE	3112	
12509	Distribution Transformer	Distribution Transformer	Point			RANIHAT-1	3113	
12510	Distribution Transformer	Distribution Transformer	Point			RANIHAT-2	3114	
12511	Distribution Transformer	Distribution Transformer	Point			QTY	3121	
12512	Distribution Transformer	Distribution Transformer	Point			GANESH GHAT	3122	
12513	Distribution Transformer	Distribution Transformer	Point			KAZI BAZAAR	3123	
12514	Distribution Transformer	Distribution Transformer	Point			CROWN HALL	3124	
12515	Distribution Transformer	Distribution Transformer	Point			CANTONMENT	3131	
12516	Distribution Transformer	Distribution Transformer	Point			CHANDNI CHOWK	3132	
12517	Distribution Transformer	Distribution Transformer	Point			TINKONIA BAGICHA	3133	
12518	Distribution Transformer	Distribution Transformer	Point			BIDANASI	3141	
12519	Distribution Transformer	Distribution Transformer	Point			GDA	3142	
12520	Distribution Transformer	Distribution Transformer	Point	Section	Section	TULSI PUR	3143	Text
12521	Distribution Transformer	Distribution Transformer	Point			BADAMBADI	3211	
12522	Distribution Transformer	Distribution Transformer	Point			DOLAMUNDAI	3212	
12523	Distribution Transformer	Distribution Transformer	Point			IND. ESTATE(GDP)	3213	
12524	Distribution Transformer	Distribution Transformer	Point			MALDA	3221	
12525	Distribution Transformer	Distribution Transformer	Point			JAGATPUR	3222	
12526	Distribution Transformer	Distribution Transformer	Point			JOBRA	3223	
12527	Distribution Transformer	Distribution Transformer	Point			KANDARPUR	3224	
12528	Distribution Transformer	Distribution Transformer	Point			KISHORMAGAR	3225	
12529	Distribution Transformer	Distribution Transformer	Point			CHALUJGANJ	3231	
12530	Distribution Transformer	Distribution Transformer	Point			MAHANADI VIHAR	3232	
12531	Distribution Transformer	Distribution Transformer	Point			BADACHANA	3311	
12532	Distribution Transformer	Distribution Transformer	Point			BALICHANDRAPUR	3312	
12533	Distribution Transformer	Distribution Transformer	Point			OHATTIA	3313	
12534	Distribution Transformer	Distribution Transformer	Point			CHARIBATIA	3321	
12535	Distribution Transformer	Distribution Transformer	Point			CHOUDWAR-1	3322	
12536	Distribution Transformer	Distribution Transformer	Point			CHOUDWAR-2	3323	
12537	Distribution Transformer	Distribution Transformer	Point			ADASPUR	3331	
12538	Distribution Transformer	Distribution Transformer	Point			BALIKUDA	3332	
12539	Distribution Transformer	Distribution Transformer	Point			GOBINDPUR	3333	
12540	Distribution Transformer	Distribution Transformer	Point			NIALI-1	3341	
12541	Distribution Transformer	Distribution Transformer	Point			NIALI-2	3342	
12542	Distribution Transformer	Distribution Transformer	Point			SITHALO	3343	
12543	Distribution Transformer	Distribution Transformer	Point			BARAMBIA	3411	
12544	Distribution Transformer	Distribution Transformer	Point			KANPUR	3412	
12545	Distribution Transformer	Distribution Transformer	Point			NARASINGPUR	3413	
12546	Distribution Transformer	Distribution Transformer	Point			SECTION-4	3414	
12547	Distribution Transformer	Distribution Transformer	Point			ATHAGADA-1	3421	
12548	Distribution Transformer	Distribution Transformer	Point			ATHAGADA-2	3422	
12549	Distribution Transformer	Distribution Transformer	Point			KHURTURI	3423	
12550	Distribution Transformer	Distribution Transformer	Point			NIJAPATNA	3424	
12551	Distribution Transformer	Distribution Transformer	Point			TIGIRIA	3425	
12552	Distribution Transformer	Distribution Transformer	Point			ERKANA	3511	
12553	Distribution Transformer	Distribution Transformer	Point			KOTHPADA	3512	

12824	LTCable	LT Cable	Line					525 Sq mm	525				
12825	LTCable	LT Cable	Line					580 Sq mm	580				
12826	LTCable	LT Cable	Line					570 Sq mm	570				
12827	LTCable	LT Cable	Line					605 Sq mm	605				
12828	LTCable	LT Cable	Line					630 Sq mm	630				
12829	LTCable	LT Cable	Line					640 Sq mm	640				
12830	LTCable	LT Cable	Line					680 Sq mm	680				
12831	LTCable	LT Cable	Line					695 Sq mm	695				
12832	LTCable	LT Cable	Line					765 Sq mm	765				
12833	LTCable	LT Cable	Line					Other	Other				
12834	LTCable	LT Cable	Line					30 Sq mm	30				
12835	LTCable	LT Cable	Line					55 Sq mm	55				
12836	LTCable	LT Cable	Line					90 Sq mm	90				
12837	LTCable	LT Cable	Line					1x25+1x16 mm2	1x25+1x16				
12838	LTCable	LT Cable	Line					1x25+1x25 mm2	1x25+1x25				
12839	LTCable	LT Cable	Line					1x35+1x25 mm2	1x35+1x25				
12940	LTCable	LT Cable	Line					2x35+1x25 mm2	2x35+1x25				
12841	LTCable	LT Cable	Line					3x35+1x25 mm2	3x35+1x25				
12842	LTCable	LT Cable	Line					3x35+1x25+1x16 mm2	3x35+1x25+1x16				
12843	LTCable	LT Cable	Line					3x50+1x35 mm2	3x50+1x35				
12844	LTCable	LT Cable	Line					3x50+1x25+1x16 mm2	3x50+1x25+1x16				
12845	LTCable	LT Cable	Line					3x50+1x35+1x16 mm2	3x50+1x35+1x16				
12846	LTCable	LT Cable	Line					3x70+1x50+1x16 mm2	3x70+1x50+1x16				
12847	LTCable	LT Cable	Line					3x95+1x70+1x16 mm2	3x95+1x70+1x16				
12848	LTCable	LT Cable	Line					3x120+1x95+1x16 mm2	3x120+1x95+1x16				
12849	LTCable	LT Cable	Line	Armoured	Armoured			Yes	Yes	Text	3	YES	
12850	LTCable	LT Cable	Line					No	No				
12851	LTCable	LT Cable	Line					7	6			YES	
12852	LTCable	LT Cable	Line					12	7				
12853	LTCable	LT Cable	Line					33	33				
12854	LTCable	LT Cable	Line					64	64				
12855	LTCable	LT Cable	Line					70	70				
12856	LTCable	LT Cable	Line					84	84				
12857	LTCable	LT Cable	Line					88	88				
12858	LTCable	LT Cable	Line					107	107				
12859	LTCable	LT Cable	Line					110	110				
12860	LTCable	LT Cable	Line					115	115				
12861	LTCable	LT Cable	Line					116	116				
12862	LTCable	LT Cable	Line					120	120				
12863	LTCable	LT Cable	Line					130	130				
12864	LTCable	LT Cable	Line					134	134				
12865	LTCable	LT Cable	Line					138	138				
12866	LTCable	LT Cable	Line					140	140				
12867	LTCable	LT Cable	Line					146	146				
12868	LTCable	LT Cable	Line					150	150				
12869	LTCable	LT Cable	Line					160	160				
12870	LTCable	LT Cable	Line					175	175				
12871	LTCable	LT Cable	Line					178	178				
12872	LTCable	LT Cable	Line					190	190				
12873	LTCable	LT Cable	Line					194	194				
12874	LTCable	LT Cable	Line					201	201				
12875	LTCable	LT Cable	Line					225	225				
12876	LTCable	LT Cable	Line					244	244				
12877	LTCable	LT Cable	Line					246	246				
12878	LTCable	LT Cable	Line					250	250				
12879	LTCable	LT Cable	Line					268	268				
12880	LTCable	LT Cable	Line					271	271				
12881	LTCable	LT Cable	Line					283	283				
12882	LTCable	LT Cable	Line					291	291				
12883	LTCable	LT Cable	Line	Rated Current	Rated Current			305	305	Text	3		
12884	LTCable	LT Cable	Line					325	325				
12885	LTCable	LT Cable	Line					335	335				
12886	LTCable	LT Cable	Line					358	358				
12887	LTCable	LT Cable	Line					362	362				
12888	LTCable	LT Cable	Line					398	398				
12889	LTCable	LT Cable	Line					405	405				
12890	LTCable	LT Cable	Line					410	410				
12891	LTCable	LT Cable	Line					422	422				
12892	LTCable	LT Cable	Line					436	436				
12893	LTCable	LT Cable	Line					445	445				
12894	LTCable	LT Cable	Line					478	478				
12895	LTCable	LT Cable	Line					548	548				
12896	LTCable	LT Cable	Line					613	613				
12897	LTCable	LT Cable	Line					634	634				
12898	LTCable	LT Cable	Line					670	670				
12899	LTCable	LT Cable	Line					671	671				
12900	LTCable	LT Cable	Line					705	705				
12901	LTCable	LT Cable	Line					721	721				
12902	LTCable	LT Cable	Line					736	736				
12903	LTCable	LT Cable	Line					737	737				
12904	LTCable	LT Cable	Line					756	756				
12905	LTCable	LT Cable	Line					792	792				
12906	LTCable	LT Cable	Line					833	833				
12907	LTCable	LT Cable	Line					836	836				
12908	LTCable	LT Cable	Line					845	845				
12909	LTCable	LT Cable	Line					862	862				
12910	LTCable	LT Cable	Line					894	894				
12911	LTCable	LT Cable	Line					939	939				
12912	LTCable	LT Cable	Line					995	995				
12913	LTCable	LT Cable	Line					998	998				
12914	LTCable	LT Cable	Line					1351	1351				
12915	LTCable	LT Cable	Line					1689	1689				
12916	LTCable	LT Cable	Line	Cost	Cost					Text	10		
12917	LTCable	LT Cable	Line	TracingStatus	Tracing Status	Traceable	0			Long Integer		System Field	
12918	LTCable	LT Cable	Line			NonTraceable	1						
12919	LTCable	LT Cable	Line	CableType	Cable Type	LT Cable	1			short Integer			
12920	LTCable	LT Cable	Line			LT Service Cable	2						
12921	LTCable	LT Cable	Line	FeederCode	Feeder Code					Text	3	YES	
12922	LTCable	LT Cable	Line			BRIT COLONY	1111					YES	
12923	LTCable	LT Cable	Line			DELTA	1112						
12924	LTCable	LT Cable	Line			POWER HOUSE-1	1113						
12925	LTCable	LT Cable	Line			UNIT-6	1114						
12926	LTCable	LT Cable	Line			POWER HOUSE-2	1115						
12927	LTCable	LT Cable	Line			KARVEL NAGAR	1121						
12928	LTCable	LT Cable	Line			UNIT-1	1122						
12929	LTCable	LT Cable	Line			UNIT-2	1123						
12930	LTCable	LT Cable	Line			UNIT-4	1124						
12931	LTCable	LT Cable	Line			BOARD COLONY	1131						
12932	LTCable	LT Cable	Line			SAHID NAGAR	1132						
12933	LTCable	LT Cable	Line			UNIT-9 FLAT	1133						
12934	LTCable	LT Cable	Line			UNIT-9 ROAD	1134						
12935	LTCable	LT Cable	Line			BHARATPUR	1211						
12936	LTCable	LT Cable	Line			DUMUDUMA	1212						
12937	LTCable	LT Cable	Line			KALINGANAGAR	1213						
12938	LTCable	LT Cable	Line			KHANDGIRI S/O	1214						
12939	LTCable	LT Cable	Line			BARAMUNDA	1221						
12940	LTCable	LT Cable	Line			JRC NAYAPALLI	1222						
12941	LTCable	LT Cable	Line			VSS NAGAR	1223						
12942	LTCable	LT Cable	Line			XAVIER	1224						
12943	LTCable	LT Cable	Line			BARANG	1231						
12944	LTCable	LT Cable	Line			CS PUR-1	1232						
12945	LTCable	LT Cable	Line			CS PUR-2	1233						
12946	LTCable	LT Cable	Line			GODSAHI	1234						
12947	LTCable	LT Cable	Line			KANANVIHAR	1235						
12948	LTCable	LT Cable	Line			KALPANA-1	1311						
12949	LTCable	LT Cable	Line			KALPANA-2	1312						
12950	LTCable	LT Cable	Line			LAXMISAGAR	1313						
12951	LTCable	LT Cable	Line			MANCHESWAR	1314						
12952	LTCable	LT Cable	Line			PHULNAKHARA	1315						
12953	LTCable	LT Cable	Line			RASULGARH S/O	1316						
12954	LTCable	LT Cable	Line			BARAGADA	1321						
12955	LTCable	LT Cable	Line			DHAULI	1322						
12956	LTCable	LT Cable	Line			OLD TOWN-1	1323						
12957	LTCable	LT Cable	Line			OLD TOWN-2	1324						
12958	LTCable	LT Cable	Line			OLD TOWN-3	1325						

13094	LTCable	LT Cable	Line
13095	LTCable	LT Cable	Line
13096	LTCable	LT Cable	Line
13097	LTCable	LT Cable	Line
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13228	LTCable	LT Cable	Line

Subdivision

Subdivision

NIHAL PRASAD	4123
HINDOL	4131
HINDOL ROAD S/O	4132
KHAURIKATA	4133
BHUBAN	4141
K NAGAR	4142
KALIPANHI	4143
KANKADA HADA	4144
M K GOLA	4145
R N PUR	4146
ANGUL NO-1	4211
ANGUL NO-2	4212
ANGUL NO-3	4213
BANTALA	4214
BOINDA SEC OFF	4221
BAMUR	4222
ATHAMALIK	4223
CHHENDIPADA	4231
JARPADA	4232
KOSALA	4233
BANARPAL	4311
CHAIHPAL SEC OFF	4312
MERAMANDALI	4313
KHAMARA	4321
PALLAHARA SEC OFF	4322
PARBL	4323
RENGALI	4324
PARJANG-1	4331
PARJANG-2	4332
HATATOTA	4341
KANHA	4342
SAMALA	4343
SOUTH BALANDA	4344
TALCHER SEC OFF	4345
AUL SEC OFF	5111
BHUNIPUR	5112
OLAUER	5113
RAJKANIKA	5114
CHHATA	5121
DANPUR	5122
INDUPUR	5123
KENDRAPARA-1	5124
KENDRAPARA-2	5125
KENDRAPARA-3	5126
DANDISAH	5131
PATRAPUR	5132
PATTAMUNDI-1	5133
PATTAMUNDI-2	5134
PATTAMUNDI-3	5135
RAINAGAR-1	5141
RAINAGAR-2	5142
RAJKUCHIA	5143
BABAR	5211
LUNA	5212
MAHAKALAPADA	5213
GARADAPUR	5221
KORUA	5222
MARSHAGHAI S/D	5223
NUAPADA	5224
BALKUDA-1	5311
BALKUDA-2	5312
BAJUGAON	5313
DHASAH	5321
J S PUR-1	5322
J S PUR-2	5323
MANDASAH	5324
BIRDI	5331
RAGHUNATHPUR S/O	5332
CHATUA	5411
KUJANG	5412
RAHAMMA	5413
BHUTAMUNDI	5421
PARADEEP SEC OFF	5422
ERSAMA	5431
KOLAR	5432
TIRTOL	5433
SUB DIVISION-1,BBSR	1110
SUB DIVISION-2,BBSR	1120
SUB DIVISION-3,BBSR	1130
KHANDAGIRI	1210
NAVAPALLI	1220
PERIPHERI	1230
RASULGARH	1310
TEMPLE	1320
KAKATPUR	1410
NIMAPARA	1420
PIPLI	1430
BANKI	2110
BEGUNIA	2120
JANKIA	2130
JATNI	2140
KHURDA	2150
DASPALLA	2210
ITAMATI	2220
KHAMDAPADA	2230
NAVAGARH	2240
BALIGAON	2310
TANGI	2320
PURI-1	2410
PURI-2	2420
PURI-3	2430
SAKHIGOPAL	2440
SUB DIVISION-1,CTC	3110
SUB DIVISION-3,CTC	3120
SUB DIVISION-4,CTC	3130
SUB DIVISION-6,CTC	3140
BADAMBADI	3210
JOBRA	3220
MAHANADIVIHAR	3230
BADACHANA	3310
CHOUJWAR	3320
GOPALPUR	3330
NIALI	3340
NARASINGPUR	3410
ATHAGADA	3420
MAHANGA	3510
N KOLLI	3520
SALIPUR	3530
DHENKANAL	4110
GONDIA	4120
HINDOL ROAD	4130
KAMAKHYA NAGAR	4140
ANGUL	4210
BOINDA	4220
CHHENDIPADA	4230
CHAIHPAL	4310
PALLAHARA	4320
PARJANG	4330
TALCHER	4340
AUL	5110
KENDRAPARA	5120
PATTAMUNDI	5130
RAINAGAR	5140
MAHAKALAPADA	5210
MARSHAGHAI	5220

Text

14

YES

SupportStructure	Support Structure	Point	FeederCode	Feeder Code	Text	3	YES
14039	SupportStructure	Point		Rail 110 lbs. 11 m Long			
14040	SupportStructure	Point		Rail 90 lbs. 11 m Long			
14041	SupportStructure	Point		Narrow Base Towers (NBT)/ Slim Towers			
14042	SupportStructure	Point		Connected	1		
14043	SupportStructure	Point		Disconnected	2		
14044	SupportStructure	Point		Bypassed	3		
14045	SupportStructure	Point		Dismantle	4		
14047	SupportStructure	Point		BRIT COLONY	1111		YES
14048	SupportStructure	Point		DELTA	1112		
14049	SupportStructure	Point		POWER HOUSE-1	1113		
14050	SupportStructure	Point		UNIT-6	1114		
14051	SupportStructure	Point		POWER HOUSE-2	1115		
14052	SupportStructure	Point		KARVEL NAGAR	1121		
14053	SupportStructure	Point		UNIT-1	1122		
14054	SupportStructure	Point		UNIT-2	1123		
14055	SupportStructure	Point		UNIT-4	1124		
14056	SupportStructure	Point		BOARD COLONY	1131		
14057	SupportStructure	Point		SAHID NAGAR	1132		
14058	SupportStructure	Point		UNIT-9 FLAT	1133		
14059	SupportStructure	Point		UNIT-9 ROAD	1134		
14060	SupportStructure	Point		BHARATPUR	1221		
14061	SupportStructure	Point		DUMUDUMA	1212		
14062	SupportStructure	Point		KALINGANAGAR	1213		
14063	SupportStructure	Point		KHANDAGIRI S/O	1214		
14064	SupportStructure	Point		BARAMUNDA	1221		
14065	SupportStructure	Point		IRC NAYAPALLI	1222		
14066	SupportStructure	Point		VSS NAGAR	1223		
14067	SupportStructure	Point		XAVIER	1224		
14068	SupportStructure	Point		BARANG	1231		
14069	SupportStructure	Point		CS PUR-1	1232		
14070	SupportStructure	Point		CS PUR-2	1233		
14071	SupportStructure	Point		GODSAHI	1234		
14072	SupportStructure	Point		KANANVIHAR	1235		
14073	SupportStructure	Point		KALPANA-1	1311		
14074	SupportStructure	Point		KALPANA-2	1312		
14075	SupportStructure	Point		LAKSHMIGAR	1321		
14076	SupportStructure	Point		MANCHESWAR	1314		
14077	SupportStructure	Point		PHULNACHARA	1315		
14078	SupportStructure	Point		RASULGARH S/O	1316		
14079	SupportStructure	Point		BARAGADA	1321		
14080	SupportStructure	Point		THALU	1322		
14081	SupportStructure	Point		OLD TOWN-1	1323		
14082	SupportStructure	Point		OLD TOWN-2	1324		
14083	SupportStructure	Point		OLD TOWN-3	1325		
14084	SupportStructure	Point		UTTARA	1326		
14085	SupportStructure	Point		ASTRANG	1421		
14086	SupportStructure	Point		KAKATPUR-1	1412		
14087	SupportStructure	Point		KAKATPUR-2	1413		
14088	SupportStructure	Point		GDP	1421		
14089	SupportStructure	Point		KONARK	1422		
14090	SupportStructure	Point		NIMAPARA-1	1423		
14091	SupportStructure	Point		NIMAPARA-2	1424		
14092	SupportStructure	Point		BALAKATI	1431		
14093	SupportStructure	Point		BALPATNA	1432		
14094	SupportStructure	Point		BHARATPUR	1433		
14095	SupportStructure	Point		PIPLI-1	1434		
14096	SupportStructure	Point		PIPLI-2	1435		
14097	SupportStructure	Point		BANKI-1	2111		
14098	SupportStructure	Point		BANKI-2	2112		
14099	SupportStructure	Point		BANKI-3	2113		
14100	SupportStructure	Point		BHAGAMARI	2121		
14101	SupportStructure	Point		BEGUNIA S/O	2122		
14102	SupportStructure	Point		KALAPATHAR	2123		
14103	SupportStructure	Point		RAJSUNAKHALA	2124		
14104	SupportStructure	Point		JANKA SEC OFF	2131		
14105	SupportStructure	Point		MALLADA	2132		
14106	SupportStructure	Point		NIRAKARPUR	2133		
14107	SupportStructure	Point		HARIRAPUR	2141		
14108	SupportStructure	Point		JANLA	2142		
14109	SupportStructure	Point		JATANI-1	2143		
14110	SupportStructure	Point		JATANI-2	2144		
14111	SupportStructure	Point		KHURDA-1	2151		
14112	SupportStructure	Point		KHURDA-2	2152		
14113	SupportStructure	Point		KHURDA-3	2153		
14114	SupportStructure	Point		KHURDA-4	2154		
14115	SupportStructure	Point		DASPALLA	2211		
14116	SupportStructure	Point		GANIA	2212		
14117	SupportStructure	Point		NUAGAON	2213		
14118	SupportStructure	Point		BOLAGARH	2221		
14119	SupportStructure	Point		ITAMATI-1	2222		
14120	SupportStructure	Point		ITAMATI-2	2223		
14121	SupportStructure	Point		BHAPUR-1	2231		
14122	SupportStructure	Point		BHAPUR-2	2232		
14123	SupportStructure	Point		KANTILO	2233		
14124	SupportStructure	Point		KHANDAPADA	2234		
14125	SupportStructure	Point		NAYAGARH	2241		
14126	SupportStructure	Point		ODAGAON-1	2242		
14127	SupportStructure	Point		ODAGAON-2	2243		
14128	SupportStructure	Point		PERIPHERY S/O	2244		
14129	SupportStructure	Point		SARANANIL-1	2245		
14130	SupportStructure	Point		SARANANIL-2	2246		
14131	SupportStructure	Point		BALUGAON-1	2311		
14132	SupportStructure	Point		BALUGAON-2	2312		
14133	SupportStructure	Point		BANAPUR-1	2313		
14134	SupportStructure	Point		BANAPUR-2	2314		
14135	SupportStructure	Point		NACHUNI	2315		
14136	SupportStructure	Point		BHUSANDPUR	2321		
14137	SupportStructure	Point		KURUDI	2322		
14138	SupportStructure	Point		RANAPUR	2323		
14139	SupportStructure	Point		TANGI-1	2324		
14140	SupportStructure	Point		TANGI-2	2325		
14141	SupportStructure	Point		BALAPANDA	2411		
14142	SupportStructure	Point		KACHERI	2412		
14143	SupportStructure	Point		PASCHIMADWAR	2413		
14144	SupportStructure	Point		SHARADADWAR	2414		
14145	SupportStructure	Point		BRAHMAGIRI	2421		
14146	SupportStructure	Point		DELANGA	2422		
14147	SupportStructure	Point		KANAS	2423		
14148	SupportStructure	Point		SADAR	2424		
14149	SupportStructure	Point		SUNAMUHI	2425		
14150	SupportStructure	Point		CHARINALA	2431		
14151	SupportStructure	Point		GHODABAZAR	2432		
14152	SupportStructure	Point		POWER HOUSE	2433		
14153	SupportStructure	Point		TALABANNA	2434		
14154	SupportStructure	Point		CHANDRAPUR	2441		
14155	SupportStructure	Point		SAKHIGOPAL-1	2442		
14156	SupportStructure	Point		SAKHIGOPAL-2	2443		
14157	SupportStructure	Point		SATASANKHA	2444		
14158	SupportStructure	Point		BUXI BAZAR	3111		
14159	SupportStructure	Point		COLLEGE SQUARE	3121		
14160	SupportStructure	Point		RANIHAT-1	3113		
14161	SupportStructure	Point		RANIHAT-2	3114		
14162	SupportStructure	Point		CITY	3121		
14163	SupportStructure	Point		GANESH GHAT	3122		
14164	SupportStructure	Point		KAZI BAZAR	3123		
14165	SupportStructure	Point		TOWN HALL	3124		
14166	SupportStructure	Point		CANTONMENT	3131		
14167	SupportStructure	Point		CHANDNI CHOWK	3132		
14168	SupportStructure	Point		THIKONIA BAGICHA	3133		
14169	SupportStructure	Point		BIJANASH	3141		
14170	SupportStructure	Point		CDA	3142		
14171	SupportStructure	Point		TULSIPUR	3143		
14172	SupportStructure	Point		BADAMBADI	3211		
14173	SupportStructure	Point		DOLAMUNDAI	3212		

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DUMUDUMA	2212
KALINGANAGAR	2213
KHANDGIRI S/O	2214
BARAMUNDA	2221
IRC NAYAPALLI	2222
VSS MAGAR	2223
XAVIER	2224
BARANG	2231
CS PUR-1	2232
CS PUR-2	2233
GODSAH	2234
KANAKVHAR	2235
KALPANA-1	2311
KALPANA-2	2312
LAXMISAGAR	2313
MANCHESWAR	2314
PHULNIMARA	2325
RASULAGARH S/O	2316
BARAGADA	2321
DHAULI	2322
OLD TOWN-1	2323
OLD TOWN-2	2324
OLD TOWN-3	2325
UTTARA	2326
ASTARANG	2411
KAKATPUR-1	2412
KAKATPUR-2	2413
GOP	2421
KONARK	2422
NIMAPARA-1	2423
NIMAPARA-2	2424
BALAKATI	2431
BALPATNA	2432
BHARATIPUR	2433
PIPLI-1	2434
PIPLI-2	2435
BANKI-1	2111
BANKI-2	2112
BANKI-3	2113
BAGHAMARI	2121
BEGUNJA S/O	2122
KALAPATHAR	2123
RAJUNAKHALA	2124
JANKIA SEC OFF	2131
MALIPADA	2132
NIRAKARPUR	2133
HARIPUR	2141
JANLA	2142
JATANI-1	2143
JATANI-2	2144
KHURDA-1	2151
KHURDA-2	2152
KHURDA-3	2153
KHURDA-4	2154
DASPALLA	2211
GANIA	2212
KALUGADN	2221
BOLAGARH	2221
ITAMATI-1	2222
ITAMATI-2	2223
BHAPUR-1	2231
BHAPUR-2	2232
KANTILO	2233
KHANDAPADA	2234
NAYAGARH	2241
ODGACHN-1	2242
ODGACHN-2	2243
PERIPHERY S/O	2244
SARANAKUL-1	2245
SARANAKUL-2	2246
BALLIGACHN-1	2311
BALLIGACHN-2	2312
BANAPUR-1	2313
BANAPUR-2	2314
NACHUNI	2315
BHUSANDPUR	2321
KHURDI	2322
RANAPUR	2323
TANGI-1	2324
TANGI-2	2325
BALUPANDA	2411
KACHERI	2412
PASCHIMADWAR	2413
SWARGADWAR	2414
BRAHMAGIRI	2421
DELANGA	2422
KANAS	2423
SADAR	2424
SUNAMUHI	2425
CHARINALA	2431
GHOSHABAZAR	2432
POWER HOUSE	2433
TALABANIA	2434
CHANDANPUR	2441
SAKHIGOPAL-1	2442
SAKHIGOPAL-2	2443
SATASANKHA	2444
BUXI BAZAAR	3111
COLLEGE SQUARE	3112
RANHAT-1	3113
RANHAT-2	3114
CITY	3121
GANESH GHAT	3122
KAZI BAZAAR	3123
TOWN HALL	3124
CANTONMENT	3131
CHANDNI CHOWK	3132
TINKONIA BAGICHA	3133
BIDANASI	3141
CDA	3142
TILESPUR	3143
BADAMBADI	3211
DOLAMUNDAJ	3212
IND. ESTATE(GOP)	3213
MAUZA	3221
JAGATPUR	3222
JDBRA	3223
KANDARPUR	3224
KISHORNAGAR	3225
CHALLUGANI	3231
MAHANAD VIHAR	3232
BADACHANA	3311
BALCHANDRAPUR	3312
CHHATIA	3313
CHARBATIA	3321
CHOUDWAR-1	3322
CHOUDWAR-2	3323
ADASPUR	3331
BALKUDA	3332
GOBINDAPUR	3333
NIALI-1	3341
NIALI-2	3342
SITHALO	3343
BARAMBA	3411
KANPUR	3412

Section

Section

Text

22

14984	LTServicePoint	LT Service Point	Point
14985	LTServicePoint	LT Service Point	Point
14986	LTServicePoint	LT Service Point	Point
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Subdivision

NARASINGPUR	3413
SECTION-4	3414
ATHAGADA-1	3421
ATHAGADA-2	3422
KHUNTUNI	3423
NUAPTANA	3424
TIGRIA	3425
ERKANA	3511
KOTHAPADA	3512
MAHANGA SEC OFF	3513
ASURSEWAR	3521
N KOLI	3522
ORIKANTA	3523
BAHUGRAM	3531
RAISUNGUDA	3532
SALPUR-1	3533
SALPUR-2	3534
BHAPUR	4111
DKL SEC-1	4112
DKL SEC-2	4113
DKL SEC-3	4114
IGNDIA SEC OFF	4121
JDRANDA	4122
NIHAL PRASAD	4123
HINDOL	4131
HINDOL ROAD S/O	4132
KHALURMATA	4133
BHUBAN	4141
K NAGAR	4142
KALAPANI	4143
KANKADA HADA	4144
N K GOLA	4145
R N PUR	4146
ANGUL NO-1	4211
ANGUL NO-2	4212
ANGUL NO-3	4213
BANTALA	4214
BOINDA SEC OFF	4221
BAMUR	4222
ATHAMALLIK	4223
CHHENDIPADA	4231
JHARADA	4232
KOSALA	4233
BANARPAL	4311
CHAINPAL SEC OFF	4312
MERAMANDALI	4313
KHAMARA	4321
PALLAHARA SEC OFF	4322
PARBIL	4323
RENGALI	4324
PARJANG-1	4331
PARJANG-2	4332
HATATOTA	4341
KANIHA	4342
SAMALA	4343
SOUTH BALANDA	4344
JALHIER SEC OFF	4345
AUL SEC OFF	5111
BHUINPUR	5112
OLAVER	5113
RAUKANIKA	5114
IRIATA	5121
DANPUR	5122
INDUPUR	5123
KENDRAPARA-1	5124
KENDRAPARA-2	5125
KENDRAPARA-3	5126
DANDISAI	5131
PATRAPUR	5132
PATTAMUNDAL-1	5133
PATTAMUNDAL-2	5134
PATTAMUNDAL-3	5135
RAINAGAR-1	5141
RAINAGAR-2	5142
TALACHUA	5143
BABAR	5211
LUNA	5212
MAHAKALAPADA	5213
GARADAPUR	5221
KORIA	5222
MARSIGHAS S/D	5223
NUJAPADA	5224
BALIKUDA-1	5311
BALIKUDA-2	5312
NAUGADN	5313
DHIGARI	5321
J S PUR-1	5322
J S PUR-2	5323
MANDASAI	5324
BRIDI	5331
RAGHUNATHPUR S/O	5332
CHATUA	5411
KUJANG	5412
RAHAMA	5413
BHUTAMUNDI	5421
PARADEEP SEC OFF	5422
ERSAMA	5431
KOLAR	5432
TIRTOL	5433
SUB DIVISION-1,BBSR	1110
SUB DIVISION-2,BBSR	1120
SUB DIVISION-3,BBSR	1130
KHANDAGIRI	1210
NAYAPALLI	1220
PERIPHERI	1230
RASULGARH	1310
TEMPLE	1320
KAKATPUR	1410
NIMAPARA	1420
PIPLI	1430
BANKI	2110
BEGUNIA	2120
JANKIA	2130
JATNI	2140
KHURDA	2150
DASPALLA	2210
ITAMATI	2220
KHANDAPADA	2230
NAYAGARH	2240
BALLAGDN	2310
TANGI	2320
PURI-1	2410
PURI-2	2420
PURI-3	2430
SARHIGOPAL	2440
SUB DIVISION-1,CTC	3110
SUB DIVISION-3,CTC	3120
SUB DIVISION-4,CTC	3130
SUB DIVISION-5,CTC	3140
BADAMBADI	3210
JOBA	3220
MAHANADIVIHAR	3230
BADACHANA	3310
CHOUJDWAR	3320
GOPALPUR	3330

Subdivision

Text

SR	Table Name (Object Name)	Geometry	Field Name in database	Alias Name	Enumerator List	Domain Coded Value	Data Type	Length	Mandatory Field	Remarks
1	CONSUMERINFO	Table	BPNumber	BP Number			Text	(10) null,		
2	CONSUMERINFO	Table	ConsumerNumber	Consumer Number			Text	(12) null,		
3	CONSUMERINFO	Table	LegacyConsumerNumber	Legacy Consumer Number			Text	(8) null,	YES	
4	CONSUMERINFO	Table	CIN	Consumer information number (CIN)			Text	(50) null,		Modify on 11.06.2021
5	CONSUMERINFO	Table	NameofConsumer	Name of Consumer			Text	(100) null,	YES	
6	CONSUMERINFO	Table	Father/Husband'sname	Father/Husband's name			Text	(100) null,	YES	
7	CONSUMERINFO	Table	ContactPersonforHT	Contact Person for HT			Text	(20) null,		
8	CONSUMERINFO	Table	HouseNumber	House Number			Text	(250) null,	YES	
9	CONSUMERINFO	Table	PlotNumber	Plot Number			Text	(250) null,	YES	
10	CONSUMERINFO	Table	LaneNumber	Lane Number (If any)			Text	(250) null,		
11	CONSUMERINFO	Table	Locality	Locality			Text	(250) null,	YES	
12	CONSUMERINFO	Table	KhataenNumber	Khataen Number			Text	(50) null,		Newly Added
13	CONSUMERINFO	Table	RoadName	Road Name			Text	(250) null,		
14	CONSUMERINFO	Table	Pincode	Pin code			Text	(250) null,	YES	
15	CONSUMERINFO	Table	Landmark	Landmark			Text	(250) null,	YES	
16	CONSUMERINFO	Table	LegacyAddress	Legacy Address			Text	(250) null,		
17	CONSUMERINFO	Table	District	District			Text	(15) null,		
18	CONSUMERINFO	Table	State	State			Text	(15) null,		
19	CONSUMERINFO	Table	PhonenumberMobile	Phone number Mobile			Text	(15) null,		
20	CONSUMERINFO	Table	MobileNumber	Mobile Number			Text	(15) null,	YES	
21	CONSUMERINFO	Table	BankName	Bank Name			Text	(20) null,		
22	CONSUMERINFO	Table	BankAccountNumber	Bank Account Number			Text	(20) null,		
23	CONSUMERINFO	Table	BankIFSCCode	Bank IFSC Code			Text	(20) null,		
24	CONSUMERINFO	Table	EmailID	Email ID			Text	(150) null,		
25	CONSUMERINFO	Table	Gender	Gender	Male Female Other	Male Female Other	Text	(20) null,	YES	
26	CONSUMERINFO	Table	AadharNumber	Aadhar Number			Text	(20) null,		
27	CONSUMERINFO	Table	PANNumber	PAN Number			Text	(20) null,		
28	CONSUMERINFO	Table	MapPDFNumber	Map PDF Number			Text	(50) null,		
31	CONSUMERINFO	Table	MapBlockNumber	Map Block Number			Text	(5) null,		
32	CONSUMERINFO	Table	BuildingID	Building ID			Text	(50) null,		
33	CONSUMERINFO	Table	ServicePointID	Service Point ID			Text	(50) null,	YES	
34	CONSUMERINFO	Table	NumberOfFloors	Number of Floors			Text	(5) null,	YES	
35	CONSUMERINFO	Table	ConnectedToPoleNumber	Connected To Pole Number			Text	(30) null,		
36	CONSUMERINFO	Table	ConnectedDTCCode	Connected DTC Code			Text	(9) null,	YES	Modify on 08.04.2021
37	CONSUMERINFO	Table	BillingDTCode	Billing DT Code			Text	(9) null,		Modify on 08.04.2021
38	CONSUMERINFO	Table	FeederCode	Feeder Code			Text	(20) null,		
39	CONSUMERINFO	Table	FeederName	Feeder Name			Text	(20) null,		
40	CONSUMERINFO	Table	SubstationCode	Substation Code			Text	(20) null,		
41	CONSUMERINFO	Table	SubstationName	Substation Name			Text	(20) null,		
42	CONSUMERINFO	Table	ConsumerStatus	Consumer Status	Connected (C) Temporary Connected (TC) Temporary Disconnected (TD) Permanent Disconnected (PD)	C TC TD PD	Text	(10) null,		
43	CONSUMERINFO	Table	ServiceCondition	Service Condition	OK Bypass Doubtful Damage	OK Bypass Doubtful Damage	Text	(20) null,	YES	
44	CONSUMERINFO	Table	Typeofsupply	Type of supply	Single Three	Single Three	Text	(20) null,	YES	
45	CONSUMERINFO	Table	ConnectedPhase	Connected Phase	Y B	2 1	short Integer	null	YES	
46	CONSUMERINFO	Table	Conductorcorrelation	Conductor Correlation	RYB Top Middle Bottom Top Middle Bottom	7 Top Middle Bottom Top Middle Bottom	Text	(20) null,		
47	CONSUMERINFO	Table	CustomerSupplyVoltage	Customer Supply Voltage	400 kV 132 kV 33 kV 11 kV 22 kV 0.43 kV	260 110 380 340 360 210	short Integer	null	YES	
48	CONSUMERINFO	Table	ConsumerCategory	Consumer Category	HT Consumer LT Consumer	HT Consumer LT Consumer	Text	(11) null,	YES	
49	CONSUMERINFO	Table	ConsumerSubCategory	Consumer Sub Category	SBM Non-SBM	SBM Non-SBM	Text	(7) null,		
50	CONSUMERINFO	Table	CustomerType	Customer Type	DOMS - Domestic Service HTSC - High Tension Service Customer IASS - Irrigation and Agriculture Ser LTIS - Low tension Industrial Service NDOM - Non Domestic Service PWWS - Public Water work Service SLS - Street Light Service Customer NMSC - Net Meter Service Customer	1 2 3 4 5 6 7 8	short Integer	null		
51	CONSUMERINFO	Table	PurposeofConnection	Purpose of Connection			Text	(20) null,		
52	CONSUMERINFO	Table	ConsumerClass	Consumer Class	Central Government State-Government General	Central Government State-Government General	Text	(10) null,		
53	CONSUMERINFO	Table	CustomerSubTypeValue	Customer Subtype Value	DS-I-UNMTR: DS-I-UNMETERED DS-II-M-S DS-II- Metered Single Phase DSI MTR: Domestic I Metered HTS-I-I: HTS - I (33 kV) HTS-I: HTS-I (11 kV/6.6 kV) HTS-II: HTS - II (132 kV) IAS-I-URMT : IAS-I-Urban Metered IASI-RURUM : IAS-I-Rural Unmetered IASI-URJUM : IAS-I-Urban Unmetered IASI-RRUNM : IAS-II-Rural Unmetered IASI-URJUM : IAS-II-Urban Unmetered KJ-RUR-MET : Kulri Jyoti Rural Metered KJ-UR-MET : KJ URBAN METERED Connection KJ-RUR-UM : KJ RURAL UNMETERED LT-PWW : Public water work Tariff LTIS - I : LTIS - I-Connected load upto 25 HP LTISI-DEM : LTIS I Demand LTISI-DEM: LTIS II Demand Rate Category LTSII-HP: LTIS II 25HP and upto 99 HP NDS-I-METR : NDS-I-Metered Connections NDS-I-UNMTR: NDS-I- Unmetered Connections SLS-II-UNM: SS-II- Unmetered SS-I-GP-M : Street Light Service I Metered SLS-II-M-T: DS II Metered Three Phase DS-II-M-DS: DS II Demand Based Single Phase DS-II-M-DT: DS II Demand Based Three Phase DS-II-M : DS-II-Metered IASI-M-RUR : IAS-I-Metered-Rural IASI-M-RUR : IAS-I-Metered-Rural NDS-II-SPH : NDS - II Single Phase NDS-II-TPH : NDS - II Three Phase NDS-II-DEM: NDS - II - Demand NDSII-MTR: NDS - II-Metered NDSII-DEM: NDS - II-Demand SLS-I-NACM: Street Light Ser I-NAC Metered SLS-I-MCM : Street Light Ser I-MC Meter SLSI-UM-GP: Street Light Serv I-UM-GP SLSIUM-NAC : Street Light Serv-I-UM-NAC SLSIUM-MC : Street Light Serv -I-UM-MC	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39	short Integer	null		
54	CONSUMERINFO	Table	Generator	Generator	Yes No	Yes No	Text	(10) null,		
55	CONSUMERINFO	Table	ConsumerUpdatedFrom	Consumer Updated From	SAP-CRM SURVEY	SAP-CRM SURVEY	Text			
56	CONSUMERINFO	Table	ServiceRequestNumber	ServiceRequestNumber			Text			
57	CONSUMERINFO	Table	ServiceRequestCreationDate	ServiceRequestCreationDate			Date	DD/MM/YYYY		
58	CONSUMERINFO	Table	ConnectionReleaseDate	ConnectionReleaseDate			Date	DD/MM/YYYY		
59	CONSUMERINFO	Table			BRIT COLONY	1111				
60	CONSUMERINFO	Table			DELTA	1112				
61	CONSUMERINFO	Table			POWER HOUSE-1	1113				
62	CONSUMERINFO	Table			UNIT-6	1114				
63	CONSUMERINFO	Table			POWER HOUSE-2	1115				
64	CONSUMERINFO	Table			KARVEL NAGAR	1121				
65	CONSUMERINFO	Table			UNIT-1	1122				
66	CONSUMERINFO	Table			UNIT-2	1123				
67	CONSUMERINFO	Table			UNIT-4	1124				
68	CONSUMERINFO	Table			BOARD COLONY	1131				
69	CONSUMERINFO	Table			SAHID NAGAR	1132				
70	CONSUMERINFO	Table			UNIT-9 FLAT	1133				
71	CONSUMERINFO	Table			UNIT-8 ROAD	1134				
72	CONSUMERINFO	Table			BHARATPUR	1211				
73	CONSUMERINFO	Table			DUMUDUMA	1212				
74	CONSUMERINFO	Table			KALINGANAGAR	1213				
75	CONSUMERINFO	Table			KHANDAGIRI S/O	1214				
76	CONSUMERINFO	Table			BARAMUNDA	1221				
77	CONSUMERINFO	Table			IRC NAYAPALLI	1222				
78	CONSUMERINFO	Table			VSS NAGAR	1223				
79	CONSUMERINFO	Table			XAVIER	1224				
80	CONSUMERINFO	Table			BARANG	1231				

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308	CONSUMERINFO	Table			KANKADA HADA	4144			
309	CONSUMERINFO	Table			M K GOLA	4145			
310	CONSUMERINFO	Table			R N PUR	4146			
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332	CONSUMERINFO	Table			SAMALA	4343			
333	CONSUMERINFO	Table			SOUTH BALANDA	4344			
334	CONSUMERINFO	Table			TALCHER SEC OFF	4345			
335	CONSUMERINFO	Table			AUL SEC OFF	5111			
336	CONSUMERINFO	Table			BHUINPUR	5112			
337	CONSUMERINFO	Table			OLAVER	5113			
338	CONSUMERINFO	Table			RAJAKANIKA	5114			
339	CONSUMERINFO	Table			CHHATA	5121			
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343	CONSUMERINFO	Table			KENDRAPARA-2	5125			
344	CONSUMERINFO	Table			KENDRAPARA-3	5126			
345	CONSUMERINFO	Table			DANDISAH	5131			
346	CONSUMERINFO	Table			PATRAPUR	5132			
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348	CONSUMERINFO	Table			PATTAMUNDAL-2	5134			
349	CONSUMERINFO	Table			PATTAMUNDAL-3	5135			
350	CONSUMERINFO	Table			RAJNAGAR-1	5141			
351	CONSUMERINFO	Table			RAJNAGAR-2	5142			
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356	CONSUMERINFO	Table			GARADAPUR	5221			
357	CONSUMERINFO	Table			KORUA	5222			
358	CONSUMERINFO	Table			MARSHAGHAI S/D	5223			
359	CONSUMERINFO	Table			NUJAPADA	5224			
360	CONSUMERINFO	Table			BALIKUDA-1	5311			
361	CONSUMERINFO	Table			BALIKUDA-2	5312			
362	CONSUMERINFO	Table			NAUGAON	5313			
363	CONSUMERINFO	Table			DHIASAH	5321			
364	CONSUMERINFO	Table			J S PUR-1	5322			
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366	CONSUMERINFO	Table			MANDASAH	5324			
367	CONSUMERINFO	Table			BIRIDI	5331			
368	CONSUMERINFO	Table			RAGHUNATHPUR S/O	5332			
369	CONSUMERINFO	Table			CHATUA	5411			
370	CONSUMERINFO	Table			KLIJANG	5412			
371	CONSUMERINFO	Table			RAHAMA	5413			
372	CONSUMERINFO	Table			BHUTAMUNDAI	5421			
373	CONSUMERINFO	Table			PARADEEP SEC OFF	5422			
374	CONSUMERINFO	Table			ERSAMA	5431			
375	CONSUMERINFO	Table			KALUR	5432			
376	CONSUMERINFO	Table			TIRTOL	5433			
377	CONSUMERINFO	Table			SUB DIVISION-1.BBSR	1110			
378	CONSUMERINFO	Table			SUB DIVISION-2.BBSR	1120			
379	CONSUMERINFO	Table			SUB DIVISION-3.BBSR	1130			
380	CONSUMERINFO	Table			KHANDAGIRI	1220			
381	CONSUMERINFO	Table			NAYAPALLI	1220			
382	CONSUMERINFO	Table			PERIPHERI	1230			
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389	CONSUMERINFO	Table			BEGUNIA	2120			
390	CONSUMERINFO	Table			JANKIA	2130			
391	CONSUMERINFO	Table			JATNI	2140			
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402	CONSUMERINFO	Table			SAKHIGOPAL	2440			
403	CONSUMERINFO	Table			SUB DIVISION-1.CTC	3110			
404	CONSUMERINFO	Table			SUB DIVISION-3.CTC	3120			
405	CONSUMERINFO	Table			SUB DIVISION-4.CTC	3130			
406	CONSUMERINFO	Table			SUB DIVISION-6.CTC	3140			
407	CONSUMERINFO	Table			BADAMBADI	3210			
408	CONSUMERINFO	Table			JOBRA	3220			
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410	CONSUMERINFO	Table			BADACHANA	3310			
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414	CONSUMERINFO	Table			NARASINGPUR	3410			
415	CONSUMERINFO	Table			ATHAGADA	3420			
416	CONSUMERINFO	Table			MAHANGA	3510			
417	CONSUMERINFO	Table			N KOILI	3520			
418	CONSUMERINFO	Table			SALIPUR	3530			
419	CONSUMERINFO	Table			DHEWKANAL	4110			
420	CONSUMERINFO	Table			GONDIA	4120			
421	CONSUMERINFO	Table			HINDOL ROAD	4130			
422	CONSUMERINFO	Table			KAMAKHYA NAGAR	4140			
423	CONSUMERINFO	Table			ANGUL	4210			
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426	CONSUMERINFO	Table			CHAINPAL	4310			
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430	CONSUMERINFO	Table			AUL	5110			
431	CONSUMERINFO	Table			KENDRAPARA	5120			
432	CONSUMERINFO	Table			PATTAMUNDAI	5130			
433	CONSUMERINFO	Table			RAJNAGAR	5140			
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435	CONSUMERINFO	Table			MARSHAGHAI	5220			
436	CONSUMERINFO	Table			BALIKUDA	5310			
437	CONSUMERINFO	Table			JAGATSINGPUR	5320			
438	CONSUMERINFO	Table			RAGHUNATHPUR	5330			
439	CONSUMERINFO	Table			KLIJANG	5410			
440	CONSUMERINFO	Table			PARADEEP	5420			
441	CONSUMERINFO	Table			TIRTOL	5430			
442	CONSUMERINFO	Table			BCDD-1	11			
443	CONSUMERINFO	Table			BCDD-2	12			
444	CONSUMERINFO	Table			SED	13			
445	CONSUMERINFO	Table			NED	14			
446	CONSUMERINFO	Table			KHD	21			
447	CONSUMERINFO	Table			NYED	22			
448	CONSUMERINFO	Table			BAED	23			
449	CONSUMERINFO	Table			PEE	24			
450	CONSUMERINFO	Table			CDD-1	31			
451	CONSUMERINFO	Table			CDD-2	32			
452	CONSUMERINFO	Table			CEC	33			
453	CONSUMERINFO	Table			AED	34			
454	CONSUMERINFO	Table			SED	35			

911	CONSUMERMETER	Table	Remarks	Remarks			Text	(250) null.		
912	CONSUMERMETER	Table	XLocation	X Location			Double			
913	CONSUMERMETER	Table	YLocation	Y Location			Double			
914	CONSUMERMETER	Table			MODEM	MODEM				
915	CONSUMERMETER	Table	HW_AMR	HW_AMR	DCU	DCU	Text	50		
916	CONSUMERMETER	Table			GPRS	GPRS				
917	CONSUMERMETER	Table	HW_TECH	HW_TECH	EDGE	EDGE	Text	50		
918	CONSUMERMETER	Table			CDMA	CDMA				
919	CONSUMERMETER	Table			ANALOGICS	ANALOGICS				
920	CONSUMERMETER	Table	HW_MAKE	HW_MAKE	AMI	AMI	Text	50		
921	CONSUMERMETER	Table			SECURE	SECURE				
922	CONSUMERMETER	Table	HW_MODEL_NO	HW_MODEL_NO			Text	50		
923	CONSUMERMETER	Table	HW_SR_NO	HW_SR_NO			Text	50		
924	CONSUMERMETER	Table	HW_IMEI_NO	HW_IMEI_NO			Text	50		
925	CONSUMERMETER	Table	SIM_MDN_NO	SIM_MDN_NO			Text	50		
926	CONSUMERMETER	Table	SIM_SR_NO	SIM_SR_NO			Text	50		
927	CONSUMERMETER	Table	SIM_IP_ADDRESS	SIM_IP_ADDRESS			Text	50		
928	CONSUMERMETER	Table			New	New				
929	CONSUMERMETER	Table	UpdationType	Updation Type	Modification	Modification	Text	12		

SR	Landbase(ObjectName)	Landbase(AliasName)	Geometry	FieldNameInDatabase	Alias Name	Enumerator List	Domain Code Value	Data Type	Length	Remarks
1	Building	Building	Polygon	OBJECTID	Object ID			Object ID		
2	Building	Building	Polygon	GISID	GISID			Text	25	
3	Building	Building	Polygon	Name	Name			Text	75	
4	Building	Building	Polygon	Building	Building			Text	75	
5	Building	Building	Polygon	Authority	Authority			Text	50	
6	Building	Building	Polygon			Residential Sector	0			
7	Building	Building	Polygon			Commercial Sector	1			
8	Building	Building	Polygon			Industrial Estates	2			
9	Building	Building	Polygon	Type	Type	Slum	3	Short Integer		
10	Building	Building	Polygon			Mixed	4			
11	Building	Building	Polygon			Others	5			
12	Waterbody	Waterbody	Polygon	OBJECTID	OBJECTID			Object ID		
13	Waterbody	Waterbody	Polygon	GISID	GISID			Text	25	
14	Waterbody	Waterbody	Polygon	Name	Name			Text	75	
15	Waterbody	Waterbody	Polygon	DisplayScale	DisplayScale			Number	9	
16	Waterbody	Waterbody	Polygon	Depth	Depth			Float		
17	Waterbody	Waterbody	Polygon			River	0			
18	Waterbody	Waterbody	Polygon			Canal	1			
19	Waterbody	Waterbody	Polygon			Seasonal Water Bodies	2			
20	Waterbody	Waterbody	Polygon			OH Water Tanks	3			
21	Waterbody	Waterbody	Polygon	Type	Type	Open Drain	4	Short Integer		
22	Waterbody	Waterbody	Polygon			Pond	5			
23	Waterbody	Waterbody	Polygon			Nallah	6			
24	Waterbody	Waterbody	Polygon			Dams	7			
25	Waterbody	Waterbody	Polygon			Others	8			
26	WaterbodyL	Waterbody L	Line	OBJECTID	OBJECTID			Object ID		
27	WaterbodyL	Waterbody L	Line	GISID	GISID			Text	25	
28	WaterbodyL	Waterbody L	Line	Name	Name			Text	75	
29	WaterbodyL	Waterbody L	Line	DisplayScale	DisplayScale			Number(9)	9	
30	WaterbodyL	Waterbody L	Line	Depth	Depth			Float		
31	WaterbodyL	Waterbody L	Line			Canal	0			
32	WaterbodyL	Waterbody L	Line			Seasonal Water Bodies	1			
33	WaterbodyL	Waterbody L	Line	Type	Type	Open Drain	2	Short Integer		
34	WaterbodyL	Waterbody L	Line			Nallah	3			
35	WaterbodyL	Waterbody L	Line			Others	4			
36	Facilities	Facilities	Polygon	OBJECTID	OBJECTID			Object ID		
37	Facilities	Facilities	Polygon	GISID	GISID			Text	25	
38	Facilities	Facilities	Polygon	Name	Name			Text	75	
39	Facilities	Facilities	Polygon	DisplayScale	DisplayScale			Number	9	
40	Facilities	Facilities	Polygon			Airport	0			
41	Facilities	Facilities	Polygon			Railway Station	1			
42	Facilities	Facilities	Polygon			Bus Depot	2			
43	Facilities	Facilities	Polygon	Type	Type	Taxi Stand	3	Short Integer		
44	Facilities	Facilities	Polygon			Bus Terminal	4			
45	Facilities	Facilities	Polygon			Rickshaw Stand	5			
46	Facilities	Facilities	Polygon			Others	6			
47	Rail	Rail	Line	OBJECTID	OBJECTID			Object ID		
48	Rail	Rail	Line	GISID	GISID			Text	25	
49	Rail	Rail	Line	RailGauge	RailGauge			Text	25	
50	Rail	Rail	Line	DisplayScale	DisplayScale			Number	9	
51	Rail	Rail	Line	Tracks	Tracks			Integer		
52	Rail	Rail	Line	Width	Width			Float		
53	Rail	Rail	Line	Type	Type	Rail Route	0	Short Integer		
54	Rail	Rail	Line			Others	1			
55	RoadCenterLine	Road Center Line	Line	OBJECTID	OBJECTID			Object ID		
56	RoadCenterLine	Road Center Line	Line	GISID	GISID			Text	25	
57	RoadCenterLine	Road Center Line	Line	Name	Name			Text	75	
58	RoadCenterLine	Road Center Line	Line	Surface	Surface			Short Integer		
59	RoadCenterLine	Road Center Line	Line	SpeedClass	SpeedClass			Integer		
60	RoadCenterLine	Road Center Line	Line	Hierarchy	Hierarchy			Integer		
61	RoadCenterLine	Road Center Line	Line	RoadCode	Road Code	National Highway	0	Text	2	Newly added 11.06.2021
62	RoadCenterLine	Road Center Line	Line			State Highway	1			
63	RoadCenterLine	Road Center Line	Line			Major Road	2			
64	RoadCenterLine	Road Center Line	Line	Type	Type	Minor Road	3	Short Integer		
65	RoadCenterLine	Road Center Line	Line			Lane	4			
66	RoadCenterLine	Road Center Line	Line			Rural Road	5			
67	RoadCenterLine	Road Center Line	Line			Backside Service Lane	6			
68	RoadCenterLine	Road Center Line	Line			Others	7			
69	RoadCenterLine	Road Center Line	Line							
70	RouteNDS	Route NDS	Line	OBJECTID	OBJECTID			Object ID		
71	RouteNDS	Route NDS	Line	GISID	GISID			Text	25	
72	RouteNDS	Route NDS	Line	Name	Name			Text	75	
73	RouteNDS	Route NDS	Line	Surface	Surface			Short Integer		
74	RouteNDS	Route NDS	Line	SpeedClass	SpeedClass			Integer		
75	RouteNDS	Route NDS	Line	Hierarchy	Hierarchy			Integer		
76	RouteNDS	Route NDS	Line			National Highway	0			
77	RouteNDS	Route NDS	Line			State Highway	1			
78	RouteNDS	Route NDS	Line			Major Road	2			
79	RouteNDS	Route NDS	Line	Type	Type	Minor Road	3	Short Integer		
80	RouteNDS	Route NDS	Line			Lane	4			
81	RouteNDS	Route NDS	Line			Rural Road	5			
82	RouteNDS	Route NDS	Line			Backside Service Lane	6			
83	RouteNDS	Route NDS	Line			ByPass	7			
84	RouteNDS	Route NDS	Line			Others	8			
85	MiscTransport	Misc Transport	Line	OBJECTID	OBJECTID			Object ID		
86	MiscTransport	Misc Transport	Line	GISID	GISID			Text	25	
87	MiscTransport	Misc Transport	Line	Name	Name			Text	75	
88	MiscTransport	Misc Transport	Line	Width	Width			Float		
89	MiscTransport	Misc Transport	Line	Surface	Surface			Text	25	
90	MiscTransport	Misc Transport	Line	DisplayScale	DisplayScale			Long Integer		
91	MiscTransport	Misc Transport	Line			Flyover	0			
92	MiscTransport	Misc Transport	Line	Type	Type	Bridge	1	Short Integer		
93	MiscTransport	Misc Transport	Line			Underpass	2			
94	Landmarks	Landmark	Point	OBJECTID	OBJECTID			Object ID		
95	Landmarks	Landmark	Point	GISID	GISID			Text	25	
96	Landmarks	Landmark	Point	Name	Name			Text	75	
97	Landmarks	Landmark	Point	SubType	Sub Type			Text	50	
98	Landmarks	Landmark	Point	DisplayScale	DisplayScale			Long Integer		
99	Landmarks	Landmark	Point			Administrative	0			
100	Landmarks	Landmark	Point			Religious&Historic Services	1			
101	Landmarks	Landmark	Point			Commercial	2			
102	Landmarks	Landmark	Point			Media&Entertainment	3			
103	Landmarks	Landmark	Point			Education	4			
104	Landmarks	Landmark	Point			Medical	5			
105	Landmarks	Landmark	Point			Sports	6			
106	Landmarks	Landmark	Point	Type	Type	Industries	7	Short Integer		
107	Landmarks	Landmark	Point			Transportation	8			
108	Landmarks	Landmark	Point			IT&Telecom	9			
109	Landmarks	Landmark	Point			Landuse	10			
110	Landmarks	Landmark	Point			Hydrology	11			
111	Landmarks	Landmark	Point			Utility & Facility	12			
112	Landmarks	Landmark	Point			CityAreaName	13			
113	Landmarks	Landmark	Point			FillingStation	14			
114	Landmarks	Landmark	Point			Others	15			
115	Landmarks	Landmark	Point			Others	16			
116	Landmarks	Landmark	Point			BRT COLONY	1111			Newly added
117	Landmarks	Landmark	Point			DELTA	1112			
118	Landmarks	Landmark	Point			POWER HOUSE-1	1113			
119	Landmarks	Landmark	Point			UNIT-6	1114			
120	Landmarks	Landmark	Point			POWER HOUSE-2	1115			
121	Landmarks	Landmark	Point			KARVEL NAGAR	1121			
122	Landmarks	Landmark	Point			UNIT-1	1122			
123	Landmarks	Landmark	Point			UNIT-2	1123			
124	Landmarks	Landmark	Point			UNIT-4	1124			
125	Landmarks	Landmark	Point			BOARD COLONY	1131			
126	Landmarks	Landmark	Point			SAHID NAGAR	1132			
127	Landmarks	Landmark	Point			UNIT-9 FLAT	1133			

637	Office_Location	Office_Location	Point
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764	Office_Location	Office_Location	Point
765	Office_Location	Office_Location	Point

CHHATIA	3313
CHARIBATIA	3321
CHOUHWAR-1	3322
CHOUHWAR-2	3323
ADASPUR	3331
BALIKUDA	3332
GOBINDAPUR	3333
NIALI-1	3341
NIALI-2	3342
SITHALO	3343
BARAMBA	3411
KANPUR	3412
NARASINGPUR	3413
SECTION-4	3414
ATHAGADA-1	3421
ATHAGADA-2	3422
KHUNTUNI	3423
NUAPATNA	3424
TIGIRIA	3425
ERKANA	3511
KOTHAPADA	3512
MAHANGA SEC OFF	3513
JASURESWAR	3521
N KULI	3522
ORIKANTA	3523
BAHUGRAM	3531
RAISUNGUDA	3532
SALIPUR-1	3533
SALIPUR-2	3534
BHAPUR	4111
DKL SEC-1	4112
DKL SEC-2	4113
DKL SEC-3	4114
GONDIA SEC OFF	4121
JORANDA	4122
NIHAL PRASAD	4123
HINDOL	4131
HINDOL ROAD S/O	4132
KHAJURIAKATA	4133
BHUBAN	4141
R K NAGAR	4142
KALIAPANI	4143
KANKADA HADA	4144
M K GOLA	4145
R N PUR	4146
ANGUL NO-1	4211
ANGUL NO-2	4212
ANGUL NO-3	4213
BANTALA	4214
BOINDA SEC OFF	4221
BAMUR	4222
ATHAKALLIK	4223
CHHENDIPADA	4231
JARPADA	4232
KOSALA	4233
BANARPAL	4311
CHAINPAL SEC OFF	4312
MERAMANDALI	4313
KHAMARA	4321
PALLAHARA SEC OFF	4322
PARBIL	4323
RENGALI	4324
PARLIANG-1	4331
PARJIANG-2	4332
HATATOTA	4341
KANIHA	4342
SAMALA	4343
SOUTH BALANDA	4344
TALCHER SEC OFF	4345
AUL SEC OFF	5111
BHUNIPUR	5112
OLAVER	5113
RAJAKANIK	5114
CHHATA	5121
DANPUR	5122
INDUPUR	5123
KENDRAPARA-1	5124
KENDRAPARA-2	5125
KENDRAPARA-3	5126
DANDSAHI	5131
PATRAPUR	5132
PATTAMUNDAL-1	5133
PATTAMUNDAL-2	5134
PATTAMUNDAL-3	5135
RAJNAGAR-1	5141
RAJNAGAR-2	5142
TALACHUA	5143
BABAR	5211
LUNA	5212
MAHAKALAPADA	5213
GARADAPUR	5221
KORUA	5222
MARSHAGHAI S/D	5223
NUAPADA	5224
BALIKUDA-1	5311
BALIKUDA-2	5312
NAUGAON	5313
DHIASAH	5321
J S PUR-1	5322
J S PUR-2	5323
MANDASAH	5324
BIRDI	5331
RAGHUNATHPUR S/O	5332
CHATUA	5411
KUJANG	5412
RAHAMA	5413
BHUTAMUNDAI	5421
PARADEEP SEC OFF	5422
ERSAMA	5431
KOLAR	5432
TIRTOL	5433
SUB DIVISION-1.BBSR	1110
SUB DIVISION-2.BBSR	1120
SUB DIVISION-3.BBSR	1130
KHANDAGIRI	1210
NAYAPALLI	1220
PERIPHERI	1230
RASULGARH	1310
TEMPLE	1320
KAKATPUR	1410
NIMAPARA	1420
PIPLI	1430
BANKI	2110
BEGUNA	2120
JANKIA	2130
JATNI	2140
KHURDA	2150
DASPALLA	2210
ITAMATI	2220

Newly added

1282	SectionBoundary	Section Boundary	Polygon		RAJNAGAR-1	5141			
1283	SectionBoundary	Section Boundary	Polygon		RAJNAGAR-2	5142			
1284	SectionBoundary	Section Boundary	Polygon		TALACHILJA	5143			
1285	SectionBoundary	Section Boundary	Polygon		BABAR	5211			
1286	SectionBoundary	Section Boundary	Polygon		LUNA	5212			
1287	SectionBoundary	Section Boundary	Polygon		MAHAKALAPADA	5213			
1288	SectionBoundary	Section Boundary	Polygon		GARADAPUR	5221			
1289	SectionBoundary	Section Boundary	Polygon		KORUA	5222			
1290	SectionBoundary	Section Boundary	Polygon		MARSHAGHAI S/D	5223			
1291	SectionBoundary	Section Boundary	Polygon		NUAPADA	5224			
1292	SectionBoundary	Section Boundary	Polygon		BALIKUDA-1	5311			
1293	SectionBoundary	Section Boundary	Polygon		BALIKUDA-2	5312			
1294	SectionBoundary	Section Boundary	Polygon		NAUGAON	5313			
1295	SectionBoundary	Section Boundary	Polygon		DIHASAHI	5321			
1296	SectionBoundary	Section Boundary	Polygon		J S PUR-1	5322			
1297	SectionBoundary	Section Boundary	Polygon		J S PUR-2	5323			
1298	SectionBoundary	Section Boundary	Polygon		MANDASAHI	5324			
1299	SectionBoundary	Section Boundary	Polygon		BIRDI	5331			
1300	SectionBoundary	Section Boundary	Polygon		RAGHUNATHPUR S/O	5332			
1301	SectionBoundary	Section Boundary	Polygon		CHATUA	5411			
1302	SectionBoundary	Section Boundary	Polygon		KUJANG	5412			
1303	SectionBoundary	Section Boundary	Polygon		RAHAMA	5413			
1304	SectionBoundary	Section Boundary	Polygon		BHUTAMUNDAI	5421			
1305	SectionBoundary	Section Boundary	Polygon		PARADEEP SEC OFF	5422			
1306	SectionBoundary	Section Boundary	Polygon		ERSAMA	5431			
1307	SectionBoundary	Section Boundary	Polygon		KOLAR	5432			
1308	SectionBoundary	Section Boundary	Polygon		TIRTOL	5433			
1309	SectionBoundary	Section Boundary	Polygon	SectionCode	Section Code		Text	4	Newly added
1310	DistrictBoundary	District Boundary	Polygon	DistrictName	District Name		Text	25	Newly added
1311	WardBoundary	Ward Boundary	Polygon	WardName	Ward Name		Text	25	Newly added
1312	WardBoundary	Ward Boundary	Polygon	MunicipalityName	Municipality Name		Text	25	Newly added
1313	PINCodeBoundary	PIN Code Boundary	Polygon	PINCode	PIN Code		Text	6	Newly added
1314	Locality	Locality	Polygon	LocalityName	Locality Name		Text	25	Newly added
1315	CensusBoundary	Census Boundary	Polygon	VillageName	Village Name		Text	25	Newly added
1316	VillageBoundary	Village Boundary	Polygon	VillageName	Village Name		Text	25	Newly added 03.04.2021

ANNEXURE- 3

LIST OF APPLICATIONS COMPLIANCE AS PER RAPDRP SRS

Sr. No.	Test Scenario ID	Test Scenario Name	Brief Scenario Description	GIS To-Be Ref.	SRS Req. Ref.	Test Case Ref
1	TS_GIS_001	MAP NAVIGATION	While user navigates through the map, it carries out following navigation activities using interactive tools provided with the solution - Pan facilities - Zoom In/Out facilities - Focus on specific area - Default extent - Next/Previous Extent - Cluttering & Decluttering - Define objects at various zoom levels	8, 15 (A7)	G.3.2.2, G.3.6.3 a, G.3.7.34, G.3.7.35, G.3.6.4 c, G.3.6.46, G.3.4.17, G.3.4.15, G.3.5.1b, G.3.6.19	TC_GIS_WB_001
2	TS_GIS_002	LAYERS	User On or Off various Layers while viewing the GIS. User also views, partial network area of interest	8, 15 (A7)	G.3.4.7, G.3.5.1e, G.3.6.11gg	TC_GIS_WB_002
3	TS_GIS_003	IDENTIFY	With the help of identification tool, GIS displays the information for the selected feature/object.	8, 15 (A7)	G.3.6.39	TC_GIS_WB_003
4	TS_GIS_004	LEGEND	A legend tells a map reader/user the meaning of symbols used to represent features on the GIS map. -Software facility to represent internals -Multi circuit representation -Equipment status display facility on GIS	8, 15 (A7)	G.3.7.47, G.3.6.35, G.3.7.41, G.3.6.50, G.3.7.39	TC_GIS_WB_004
5	TS_GIS_005	MEASURE	User measures any network feature by drawing different shapes on map. - line - Polygon - Predefined symbols	8, 15 (A7)	G.3.2.13	TC_GIS_WB_005
6	TS_GIS_006	SELECT	The user selects the single or multiple attributes of a particular area of interest using this feature.	8, 15 (A7)	G.3.6.4.e, G.3.6.6 d	TC_GIS_WB_006
7	TS_GIS_007	MAPINFOS	GIS shows representation of - Cables - Switchgears - HT-EHV cables	8, 15 (A7)	G.3.7.20	TC_GIS_WB_007

Sr. No.	Test Scenario ID	Test Scenario Name	Brief Scenario Description	GIS To-Be Ref.	SRS Req. Ref.	Test Case Ref
8	TS_GIS_008	RED LINING	The user operates redlining tool and draw/add/edit a red line on the map at the desired location.	8, 15 (A7)	G.3.6.3.e, G.3.6.3.a, G.3.6.3.b	TC_GIS_WB_008
9	TS_GIS_009	EASY SEARCH	With the help of easy search, user searches/retrieves any required information in GIS with the help of customized queries and get the result on the map or result panel. - Search depends on any defined attribute value - Availability of Customize report - User takes the printout of search result/report	8, 15 (A7)	G.3.7.30 b, G.3.6.47, G.3.15.2, G.3.2.37, G.3.6.3 h, G.3.2.34, G.3.4.13, G.3.6.6 g, G.3.7.42, G.3.6.48 (f), G.3.7.30 e, G.3.2.25, G.3.13.2, G.3.13.6, G.3.4.11, G.3.7.22, G.3.6.41, G.3.2.24, G.3.7.30, G.3.6.6 e	TC_GIS_WB_009
10	TS_GIS_010	BOOKMARK	The user creates, edits & saves a special bookmark that identifies a work area. If the user pan and zoom to the surrounded area of the map, then users easily returns to the work area by accessing the bookmark.	8, 15 (A7)	G.3.6.3 d, G.3.4.10, G.3.2.14	TC_GIS_WB_010
11	TS_GIS_011	ATTRIBUTE TABLE	The user views the search result in the attribute table after performing any attribute/feature selection. - Sort, filter & display records in the table/browser format. - Availability of customized report facility	8, 15 (A7)	G.3.2.35, G.3.4.14, G.3.6.13a, G.3.6.45, G.3.6.48(a), G.3.13.3, G.3.6.48(b), G.3.7.48	TC_GIS_WB_011
12	TS_GIS_012	MENU/TOOLBAR	Availability of all the functions in GIS menu & toolbar icons	8, 15 (A7)	G.3.7.2	TC_GIS_WB_012

Sr. No.	Test Scenario ID	Test Scenario Name	Brief Scenario Description	GIS To-Be Ref.	SRS Req. Ref.	Test Case Ref
13	TS_GIS_013	COORDINATES	The user locates & zooms the features/attributes using Geographical attribute query. - facility to display a given location - provision of buffering. - Search & zoom as per user defined distance.	8, 15 (A7)	G.3.7.30 a, G.3.6.3 c, G.3.5.22, G.3.5.23, G.3.2.8, G.3.6.15a, G.3.6.15b, G.3.7.26	TC_GIS_WB_013
14	TS_GIS_014	QUICK SEARCH	The user quickly searches areawise attributes by providing - Name, - Object ID	8, 15 (A7)	G.3.7.30 c, G.3.13.3	TC_GIS_WB_014
15	TS_GIS_015	ELECTRIC TRACE	User traces electrical network using electric trace feature - Upstream & Downstream trace - Facility to save the trace report - Create, maintain & save barriers	8, 15 (A7)	G.3.5.4, G.3.5.5, G.3.5.6, G.3.5.7, G.3.5.8, G.3.5.12, G.3.7.9 a, G.3.7.24, G.3.7.21, G.3.5.18, G.3.5.20, G.3.5.24, G.3.13.9, G.3.6.20, G.2.9, G.3.7.30 d, G.3.6.48 d, G.3.7.9, G.2.9	TC_GIS_WB_015
16	TS_GIS_016	HOTLINK	The user selects the hot link feature and views the stored CAD & Sketch documents.	8, 15 (A7)	G.3.2.39, G.3.6.3 b, G.3.7.25, G.3.6.1c, G.3.2.33, G.3.6.48 g	TC_GIS_WB_016
17	TS_GIS_017	PRINT	User prints the reports as per pre-defined templates - Facility to print the features required by users. - Plotting & Printing of graphical areas - Support print preview feature as well as various drivers.	8, 15 (A7)	G.3.12.2.13, G.3.12.1.1, G.3.12.1.2, G.3.12.1.3, G.3.12.1.4, G.3.12.1.5, G.3.12.2, G.3.7.44, G.3.13.1, G.3.13.8	TC_GIS_WB_017

Sr. No.	Test Scenario ID	Test Scenario Name	Brief Scenario Description	GIS To-Be Ref.	SRS Req. Ref.	Test Case Ref
18	TS_GIS_018	CONSUMER SEARCH	User searches consumer information based on <ul style="list-style-type: none"> - Consumer No./BP No., - Consumer Meter Sr No, - Consumer Address, - Tariff category, - Connected load, - Connected DT - Mobile No. 	8, 15 (A7)	G.3.6.48 (c) , G.3.2.5, G.3.6.47(b), G.3.2.17, G.3.2.16	TC_GIS_WB_018
19	TS_GIS_019	REPORTS	User views the reports of consumers & network attributes/assets.	8, 15 (A7)	G.3.6.49(b), G.3.6.49(c) , G.3.6.49 (e) , G.3.6.49, G.3.13.5, G.3.13.7	TC_GIS_WB_019
20	TS_GIS_020	SYSTEM SOFTWARE SUPPLY & INSTALLATION	GIS System capables: <ul style="list-style-type: none"> - To create various version (database instances). - User digitizes electric network using ArcGIS & ArcFM software 	8, 15 (A7)	G.2.3, G.2.4, G.3.2.21, G.3.8.3, G.3.14	TC_GIS_DK_001
21	TS_GIS_021	GENERIC SPECIFICATIONS	Software package consist of <ul style="list-style-type: none"> - GIS softwares for working with maps and geographic information - Spatial database 	8, 15 (A7)	G.3.1, G.3.1.3	TC_GIS_DK_002
22	TS_GIS_022	DATABASE MANAGEMENT	Database stores the GIS data in central location for users for access & management. GIS Database having capabilities like, <ul style="list-style-type: none"> - Moving, Copying, Deletion, Storing - Backup & restoring, discovering, compiling - Data validation, - Data import/export While using GIS database user can perform: <ul style="list-style-type: none"> - searching consumers & diff. equipments data on GIS - tracing the electrical network - Control map drawing - Data analysis 	8, 15 (A7)	G.3.2.2 to G.3.2.19, G.3.2.22, G.3.2.28 to G.3.2.32, G.3.2.34 to G.3.2.37, G.3.2.39, G.3.2.41, G.3.2.44, G.3.3.4, G.3.3.8, G.3.5.4, G.3.5.8, G.3.5.12, G.3.5.24, G.3.6.3e, G.3.6.3h, G.3.6.6a, G.3.6.6b, G.3.6.7c, G.3.6.8a, G.3.6.9a, G.3.6.10c to G.3.6.10 e, G.3.6.12c, G.3.6.42, G.3.7.45, G.3.12.2.11, G.3.2.4, G.3.2.6, G.3.2.12, G.3.2.42, G.3.6.31	TC_GIS_DK_003

Sr. No.	Test Scenario ID	Test Scenario Name	Brief Scenario Description	GIS To-Be Ref.	SRS Req. Ref.	Test Case Ref
23	TS_GIS_023	SPATIAL DATABASE FEATURES	User indexes spatial database in ArcGIS in order to locate features in feature class. The features include like identifying, selection by pointer or dragging a box. User generates schemas for object in XML using the CASE tools subsystem.	8, 15 (A7)	G.3.3.3, G.3.3.7, G.3.3.9 to G.3.3.19, G.3.4.3, G.3.7.37	TC_GIS_DK_004
24	TS_GIS_024	CORE GIS FUNCTIONALITIES	User creates layers from all supported data sources (shp file, CAD, TIN, raster and geo database or xy coordinate). This includes : - layer configurations - Data Preview: Should provide facility to preview the data before Loading. Drag &Drop layer from the preview window to the map. - Open an existing network. - Enable to assign descriptions to the layer. - Support for direct editing of spatial data in the DBMS including multiple user editing with long transactions and advanced rule-based editing with GIS Client. - Facility to Create, Edit and Move To Bookmarks.	8, 15 (A7)	G.3.3.6, G.3.4.2, G.3.4.4 to G.3.4.16, G.3.4.20, G.3.4.21, G.3.5.1b, G.3.6.2b, G.3.7.28, G.3.13.4, G.3.5.1a , G.3.5.1c , G.3.5.1f, G.3.5.2, G.3.5.10, G.3.5.19, G.3.14 , G.3.6.1g, G.3.6.11a, G.3.6.11b, G.3.6.11d, G.3.6.11j, G.3.6.11n, G.3.6.11o, G.3.6.11p, G.3.6.11q, G.3.6.11s, G.3.6.11w, G.3.6.11x, G.3.6.11y, G.3.6.11ff, G.3.6.47(a) &(c), G.3.6.49 (a), G.3.6.49 (d), G.3.7.5, G.3.7.7, G.3.7.8, G.3.7.8.3, G.3.7.8.4, G.3.7.8.5, G.3.7.8.6, G.3.7.8.7, G.3.7.8.8, G.3.7.8.9, G.3.7.23, G.3.7.32, G.2.9, G.3.7.30 d	TC_GIS_DK_005
25	TS_GIS_025	NETWORK MANAGEMENT	Users can perform network management activity which means and includes create, merging, cut and paste, delete part of network. The application provides facilities like create, maintain and save flags or starting point. Similarly provides functionalities like - create and save barriers for trace operations, - disconnect & reconnect network feature, - keep track changes, switching and looped network - attribute level QA/QC - allows storing predefined display of layout and symbology - allows change of symbology of elements on the fly without changing the database	8, 15 (A7)	G.3.4.19, G.3.5.1a, G.3.5.1c, G.3.5.1d, G.3.5.1f, G.3.5.2, G.3.5.3, G.3.5.5 to G.3.5.7, G.3.5.9, G.3.5.10, G.3.5.14, G.3.5.16.2, G.3.5.17 to G.3.5.20, G.3.5.21a, G.3.5.21d, G.3.5.21e G.3.5.22, G.3.5.23, G.3.5.25, G.3.5.27.1, G.3.5.27.2, G.3.5.28, G.3.6.7 b, G.3.6.7 l, G.3.7.11a, G.3.7.49, G.2.5, G.2.6, G.3.5.21a, G.3.5.21b, G.3.5.21c, G.3.5.21d, G.3.5.21e, G.3.2.40, G.3.7.18, G.3.9.1, G.3.9.2, G.3.9.3	TC_GIS_DK_006

Sr. No.	Test Scenario ID	Test Scenario Name	Brief Scenario Description	GIS To-Be Ref.	SRS Req. Ref.	Test Case Ref
26	TS_GIS_026	DIGITIZATION OF ELECTRICAL AND LAND BASE SYMBOLS	The customizable graphical user interface supports the application. The user identifies all the electrical entities and accessories by their name, information and alphanumeric code in database(which is associated with each item). In addition, user labels the definition and position of any asset/entities in the system. Positioning of text, orientation of labels and graphics, map layout are some of the other functionalities available.	8, 15 (A7)	G.3.5.1e, G.3.6.1a to G.3.6.1f, G.3.6.2a, G.3.6.2c to G.3.6.2e G.3.6.3f, G.3.6.3g, G.3.6.4a to G.3.6.4f, G.3.6.5a to G.3.6.5c, G.3.6.6c, G.3.6.6d, G.3.6.6f, G.3.6.7a, G.3.6.7d to G.3.6.7k, G.3.6.8b to G.3.6.8i, G.3.6.9b to G.3.6.9n, G.3.6.10a, G.3.6.10b, G.3.9.11c, G.3.6.11e to G.3.6.11i, G.3.6.11k to G.3.6.11m, G.3.6.11r, G.3.6.11t, G.3.6.11u, G.3.6.11z to G.3.6.11ee, G.3.6.11hh to G.3.6.11ll, G.3.6.12a, G.3.6.12b, G.3.6.12d, G.3.6.12e, G.3.6.13b to G.3.6.13f, G.3.6.14a, G.3.6.14b, G.3.6.15a, G.3.6.15b, G.3.6.16a, G.3.6.17a to G.3.6.17c, G.3.6.18, G.3.6.24 to G.3.6.28, G.3.6.30, G.3.6.32 to G.3.6.34, G.3.6.37 to G.3.6.41, G.3.6.43 to G.3.6.45, G.3.6.48.e, G.3.7.1, G.3.7.4, G.3.7.13, G.3.7.14g, G.3.7.19, G.3.7.50, G.3.12.1.7, G.3.12.2.8, G.3.6.29, G.3.7.6	TC_GIS_DK_007

Sr. No.	Test Scenario ID	Test Scenario Name	Brief Scenario Description	GIS To-Be Ref.	SRS Req. Ref.	Test Case Ref
27	TS_GIS_027	CABLES AND OTHER ELECTRICAL COMPONENTS REPRESENTATION	<p>Cable and other electrical components are represented considering the following :</p> <ul style="list-style-type: none"> - connecting two different lines at an intersection point project from the same angle and direction by ignoring the switch position conditions, - the tracing shall be possible <p>The user identifies equipment status on the basis of its switch position/status at the time of survey.</p> <p>The customer indexed database recognizes any change in shift/addition/deletion of consumers. This is applicable at the time of switching of isolators, modification of jumpers for the purpose of improving the availability of supply.</p> <p>The system provides user-friendly screens for inputting the information for all manual switching operations carried out. It also provides facility to recognise any automatic switching wherever provided at a later date.</p> <p>The user have options to drag objects from the stencil into the drawing area and enter data for the object in the form and save the data into the backend database.</p>	8, 15 (A7)	G.3.5.13, G.3.5.15, G.3.5.16.1, G.3.5.16.2, G.3.6.2f, G.3.6.17d, G.3.6.36, G.3.7.2, G.3.7.3, G.3.7.8.2, G.3.7.9.b to G.3.7.9.d, G.3.7.10, G.3.7.11b to G.3.7.11e, G.3.7.12, G.3.7.14a to G.3.7.14f, G.3.7.15 to G.3.7.17, G.3.7.20, G.3.7.29, G.3.7.31, G.3.7.33, G.3.7.36, G.3.7.38, G.3.7.40, G.3.7.41, G.3.7.43	TC_GIS_DK_008
28	TS_GIS_028	MODES OF DIGITIZATION	The user digitizes either a single line diagram not to scale or geographical network to scale in user given coordinates or Global coordinates.	8, 15 (A7)	G.3.8.1, G.3.8.2, G.3.6.22	TC_GIS_DK_009
29	TS_GIS_029	PRINTING & PLOTTING	<p>User prints the reports as per pre-defined templates</p> <ul style="list-style-type: none"> - Facility to print the features required by users. - Plotting & Printing of graphical areas - Support print preview feature as well as various drivers. 	8, 15 (A7)	G.3.12.1.6, G.3.12.2.1 to G.3.12.2.7, G.3.12.2.9, G.3.12.2.10, G.3.12.2.12, G.3.12.2.14, G.3.7.46,	TC_GIS_DK_010
30	TS_GIS_030	REPORT GENERATION	User generates report both on Server & Desktops. Various facilities like aerial display, projection and surface distance, labelling, topological editing capabilities etc are enabled.	8, 15 (A7)	G.3.13.9	TC_GIS_DK_011

Sr. No.	Test Scenario ID	Test Scenario Name	Brief Scenario Description	GIS To-Be Ref.	SRS Req. Ref.	Test Case Ref
31	TS_GIS_031	INTEGRATION	Integration Capability of GIS system with other modules like - Network Analysis - EA - SAP - SCADA	8, 15 (A7)	G.3.5.11, G.3.10.1 a, G.3.10.1 b, G.3.10.1 c, G.3.10.1 d, G.3.10.1 e, G.3.10.2, G.3.10.3	TC_GIS_DK_012
32	TS_GIS_032	DATA MODEL	The application provides a data model specific for electric utilities.	8, 15 (A7)	G.3.2.26, G.3.2.27	NA
33	TS_GIS_033	Product Feature	Features and capabilities of system software	8, 15 (A7)	G.3.4.16, G.3.6.1e, G.3.1.4, G.3.1.5, G.3.2.23, G.3.2.38, G.1.1, G.2.1, G.2.2, G.2.7, G.2.8, G.3.1.1, G.3.1.2, G.3.1.6, G.3.2.20, G.3.2.36, G.3.2.43, G.3.2.45, G.3.3.1, G.3.3.2, G.3.3.5, G.3.6.6 e, G.3.11.1, G.3.11.2, G.3.11.3, G.3.11.4, G.3.11.5, G.3.11.6, G.3.11.7, G.3.11.8	NA
34	TS_GIS_034	Help	User views help document of GIS system.	8, 15 (A7)	G.3.15.1 G.3.15.3 G.3.15.4	NA

ANNEXURE- 4
GIS INTEGRATION WITH OTHER MODULES DETAILS

Sr no	Activity	Service Description/Purpose	From	To	Service Owner	Staging Table	Frequency	Service Type
1	Single Sign on integration	Single Sign on Application	GIS	SSO	IDM	Not Required	Not Required	Not Required
2	New/Modify / Delete Asset updation (TECO) for Equipment & Material	SAP Will Push all Equipment & Material to GIS	SAP-PM	GIS	GIS		As an when	Web Service
3	Pass Asset details to SAP (GIS ID, GIS URL)	GIS will push Asset details (GISID, URL, etc) to SAP	GIS	SAP-PM	SAP	Not Required	Daily	Batch process
4	New & Modified Consumer details updation.	SAP will send Consumer details for new connection and updation	SAP-CRM-NSC	GIS	GIS	INT_CRM_GIS_CONSUMER	As an when	Web Service
5	Pass consumer details to SAP (DTC code, Feeder ID, GIS URL, CIN etc.)	GIS will Send Consumer details after any change (insert/update) in the table.	GIS	SAP-CRM-NSC	SAP	Not Required	Daily	Batch process
6	Updation of Consumer Arrears, Average Consumption in GIS (Daily)	SAP CRM will provide Consumer Arrears and AverageConsumption to GIS.	SAP-BILLING	GIS	SAP	INT_CONSUMERARREARS	Daily	Table
7	To Check the Commercial Feasibility - SAP will pass the Building ID to GIS and GIS will show the consumer arrears.	SAP will pass the Building ID to GIS and GIS will show the consumer arrears.	SAP-CRM-NSC	GIS	GIS	Not Required	As an when	Application Request
8	Consumer shifting from one DT to another. SAP will pass the BP Nos. of LT consumers and Old & New Network details (DT/FDR/SS etc.)	SAP will pass Consumer details to GIS	SAP-CRM-NSC	GIS	GIS	INT_CONSUMERSHIFTING	As an when	Web Service
9	Updation of Switch/Switchgear position	SCADA Will send switching position to GIS	SCADA	GIS	GIS	INT_SCADA_GIS_SWITCHINGPOSITION	As an when	Web Service
10	Updation of Network modification (Any change in network SCADA will collect the feeder wise shape files form GIS which is kept in common path)	GIS will provide shape file to SCADA	GIS	SCADA	GIS	Not Required	Monthly	Batch Process
11	Creation & View SLD using GIS URL.	Creation & View SLD using GIS URL.	MDAS & EA	GIS	GIS	Not Required	As an when	Application Request
12	DT Technical Loss and AT & C Loss (on Request)	DT Technical Loss and AT & C Loss	EA	GIS	EA	INT_NA_EA_TECHLOSS	As an when	Table
13	Updation of Outage to CRM	GIS to send Outage details to CRM	GIS	CRM	GIS	INT_SCADA_GIS_SWITCHINGPOSITION	As an when	Web Service
14	GIS Workorder Interface for TECO	SAP will send all workorder details to GIS	SAP-PM	GIS	GIS	INT_GISWORKORDER	As an when	Web Service

ANNEXURE- 5
POST IMPLEMENTATION SLA

Post Implementation Support (AMC) SLA

SLA Calculation Criteria

The Service Level Agreements will be based on the Task Type and the overall adherence to the timelines as per Task Type.

A sample calculation criterion is illustrated below.

Total Tasks assigned	Tasks Completed within timelines	Tasks completed beyond timelines	Score Obtained
A	B	C	(B/A)*100
43	40	3	93

Task Type and Timelines

Task Type	Task Description	Timelines
CAT_1	Maximum downtime for system/database maintenance	30 Min.
CAT_2	Bug fixes on existing deployed applications	0.5 day
CAT_3	Modification in existing application (generic query based logic)	1 day
CAT_4	Modification in existing application (Trace or geo-analytics based logic)	3 days
CAT_5	Modification in existing application (Complex applications with Map, Trace and/or geo-analytics based logic)	5 days
CAT_6	New application development	As per mutually agreed timelines
CAT_7	upgrades (except major architecture changes)	As per mutually agreed timelines

Note:

Above timelines are required to be met in accordance with the onsite resources as mentioned in this document. In case timeline is not achievable, bidder has to deploy additional resources to meet the timelines to avoid penalty.

4.3 Payment Weightage

On deriving marks for each categories based on the above mentioned methodology, the Payment shall be as illustrated:

Range of Score Obtained	% Payment
90-100 (incl. 90)	100
80-90 (incl. 80)	95
65-80 (incl. 65)	90
55-65 (incl. 55)	85
Less than 55	60

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9.3	Affirmative Action
9.4	Compliance to Labour Laws
9.5	Compliance to C&D Waste Management Rules & Environment (Protection) Amendment Rules
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10.3	Adherence to Rules & Regulations
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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 submit any grievance on ethics violation to Mr. Rajeev Kharyal, Chief Ethics Counselor.

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 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

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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 (detailed in section 12 of this document) 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 LOI/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 work done and accepted and certified by the authorized 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.

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- 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 J. 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

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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 Technical Evaluation

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

S. No.	Evaluation Parameter	Max. Score
A	Bidders already Registered with TPCODL	100
	Quality of the Products & Services	
	a. <u>For Supply Part:</u> No Material Rejections in last 2 years Deduction of 3 marks for each PO/ RO (for same product category) with major rejections in last 2 years. (Major rejection shall be considered when material is taken back by the vendor for rectification and the quantity of rejected material is more than 10%).	12
A.1.	b. <u>For Service Part:</u> No violation of statutory compliances in last 1 year. Deduction of 2 marks for each instance of violation in last 1 year.	12
	c. <u>Safety</u> Deduction of 2 marks for each instance of safety violation in last 1 year. Deduction of 4 marks for each reported Non-Fatal Accident in last 1 year. In case of any reported fatal accident: ZERO MARKS	16
A.2.	Timely Execution of Contracts Total Achieved Score = {30 – 3 x (Avg. %age LD deductions in last 2 years)}	30
A.3.	Legal Issues with TPCODL Zero instances of Arbitration procedures / Court Cases / PBG forfeitures in last 2 years: 30 marks else 'Zero' marks	30
B	Bidders new to TPCODL	100
	Visits <u>For Supply Part:</u> Factory Visit and Evaluation. <u>For Service Part:</u> Client Site Visit where the bidder is providing similar services.	30
B.1.	The visits as above shall be arranged by the bidder. However all costs towards conveyance, lodging, boarding etc. shall be borne by TPCODL. The score assigned by TPCODL based on the above visits shall be final and binding on the bidder.	
	Safety:	20

S. No.	Evaluation Parameter	Max. Score
	Score achieved against the BA safety Management System questionnaire.	
B.2.	<p>Client Referrals At least 3 nos. Customer References for similar products/ services in last 3 years. All customer references shall be either of the following:</p> <ul style="list-style-type: none"> ▪ Govt. Organizations/ PSUs/ Power Distribution Utilities. ▪ Private Organizations with an annual turnover of \geq 500 cr. PO copies or Completion Certificates are admissible. <p>Each reference: 10 marks</p>	30
B.3.	<p>Blacklisting Information Not blacklisted by any reputed organization / utility in last 2 years: 20 marks else 'Zero' marks.</p>	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.

4.2 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 or negligence 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-E to Order Issuing Authority.

Contract 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- E to Order Issuing Authority.

4.3 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.

4.4 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.

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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.
- 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.

4.5 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.

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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 – H.

4.6 Damages to 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.

4.7 Issuance of Material

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.

4.8 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 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.

4.9 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.

5.0 PRICES/ RATES/ TAXES

5.1 For Supply part of Contract

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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, 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/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.

5.2 For Service part of Contract

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.

5.3 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

- A. 5% of the Release Order/ Purchase Order price shall be paid as initial interest free advance on fulfillment of the following by the Associate:
 - a) Acceptance of PO/ LOI.
 - b) Submission of advance payment BG of 15% of the Release Order/ Purchase Order price which shall remain valid till the advance is fully adjusted.

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- c) Submission of Contract Performance Bank Guarantee of 5/10% of the RC/ PO price valid till 30 days after taking over of the works.
- B. 10% of the Release Order/ Purchase Order price shall be paid as interest free advance against approval of drawings under Category-1 of major drawings, Quality Plans, Pert Chart, Field Quality Plan, posting of Project Manager and commencement of the first mile stone of the work mutually agreed including C-3 Form, and submission of a true copy of 'Erection All Risk Insurance Policy' taken for the awarded jobs. The drawing list shall be mutually agreed at the time of award of work.
- C. 50% on account payment of the total of item wise cost of material Release Order/ Purchase Order shall be paid against receipt of material at site in good condition and certification by TPCODL along with bills complete in all respects viz. MDCCs etc.
- D. 20% on account payment of the actual executed value shall be paid against mechanical completion of erection on prorata basis against monthly bills and 70% on account of the actual executed value shall be paid against the service line item including composite line item. In case this milestone is not completed beyond 120 days for reasons attributable to TPCODL, the payment corresponding to supply part shall be released subject to submission of BG of equivalent amount by the BA valid for a period of further 12 months. If required, it shall be extended by the BA on request of TPCODL.
- E. 15% payment of the actual executed Release Order/ Purchase Order shall be paid after completion of acceptance test and Taking Over of the complete systems specified in the enquiry, including clearance of Electrical Inspection, compliance of final punch point and after reconciliation & adjustment of payments, if any, towards Quantities of materials issued from purchaser's stock and consumed by the contractor for expeditious completion of the job. In case this milestone is not completed beyond 120 days beyond schedule for reasons attributable to TPCODL, the payment corresponding to supply part shall be released subject to submission of BG of equivalent amount by the BA valid for a period of further 12 months. If required, it shall be extended by the BA on request of TPCODL.

The Contractor shall submit all Operation & Maintenance manuals and "As Built Drawings" etc. and shall also submit Equipment Warranty Bank Guarantee (EWBG) equivalent to 5/10% of actual executed contract price before the release of this last payment and return of CPBG. The validity of EWBG shall be for a period of 15 months from the date of taking over of the works or specified guarantee period in drawing/tender/technical specification documents etc. whichever is later. The associate shall also submit 'No Demand Certificate' at the time of receipt of full and final 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 undertaken joint measurement of the work executed along with TPCODL's Engineer-in-charge

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- 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 Bill Inward Receipt Desk (BIRD) located at IDCO Towers, Janpath, 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.

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 IDCO Towers, Janpath, Bhubaneswar.

6.4 Guidelines for Raising Running/Final Bills

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

All Bills shall be processed only when all bank Guarantees are in place and before payments of Final Bill Associate have to furnish NDC.

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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-D.

7.0 MODE OF PAYMENT

Payment shall be made through RTGS mode for which Business Associated shall submit the details of Bank Account and other details as per annexure K. 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.

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.

8.0 SECURITY CUM PERFORMANCE DEPOSIT

Associates shall submit within 15 days from the effective date of issue of PO/RC, Security cum Performance 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

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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 TPCODL indemnified always till completion of contracts.

9.2 Social Accountability

TPCODL expects its Associates to follow guidelines of best practices 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	25% relaxation in PBG for order value above 50 lacs else 50% relaxation	All limited and Open tenders
4	Turnover	25% relaxation in company turnover under qualifying requirement criteria	All Open Tenders

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

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

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 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

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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:

- 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 L and is an integral part of this GCC.

12.0 INSPECTION/PARTICIPATION

12.1 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.

- 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 within maximum of two weeks of 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.

12.2 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.

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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.

12.3 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.

12.4 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.

12.5 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.

13.0 MDCC & DELIVERY OF MATERIALS

13.1 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 utilised by the associate for protection against moisture during transit of all Plant and Equipment.

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

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

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

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

- 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.

13.2 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.

13.3 Consignee

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

13.4 Submission of mandatory documents on Delivery

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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
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

13.5 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.

14.0 GUARANTEE

14.1 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. for a specific period termed as Guarantee Period(as elaborated elsewhere in this clause) The

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

14.2 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 15 Months from the Date of Commissioning or 24 months from the date of delivery of final lot of supplies made, whichever is earlier.

14.3 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.

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.

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

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14.5 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.

14.6 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.

14.7 Support beyond the Guarantee Period

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

15.0 LIQUIDATED DAMAGES

Liquidated damages @1% of the total executed contract value per week or part thereof, for the period of delay in integrated completion, subject to maximum 10% of the value of the contract shall become leviable without prejudice to other rights of the TPCODL. This amount shall be recoverable from any amount due or becoming due to the Business Associates under this or any other contract. In specific cases, TPCODL reserves the right to apply LD only on the unexecuted portion of the supply and works for standalone use, provided full quantity is executed within a maximum 30% additional time. Deduction of LD shall be on landed cost i.e contract value inclusive of taxes and in pursuant statutory compliance GST would be applicable at the stipulated rate and the same shall be borne by Business Associate. In case of LD deduction, a GST invoice shall be issued by TPCODL as a proof of deduction/ recovery.

15.1 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.

15.2 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.

16.0 ASSIGNMENT OR SUBCONTRACTING

Associates shall not assign/subcontract/outsourced the schedule of activities of contract TPCODL enters with the associate, in part or full, without TPCODL's prior written approval.

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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.

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.

17.0 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.

18.0 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.

18.1 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.

18.2 Geographical Data

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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.

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

18.4 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.

18.5 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.

19.0 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

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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.

20.0 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.

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.

21.0 LIABILITY & LIMITATIONS

21.1 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.***

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.

21.2 Limitation of Liability

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

22.0 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.

23.0 SUSPENSION Of CONTRACT

23.1 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 days' notice for all other contracts.

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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,

23.2 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 27 for breach/default of contract conditions.

23.3 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.

24 TERMINATION OF CONTRACTS

24.1 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:

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- 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 24 (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:

- i) Associate shall discontinue the supply, on the expiry of the said period of two weeks.

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ii) 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.

iii) 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.

iv) 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.

v) 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.

24.2 Termination for convenience of Associate

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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. 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.

24.3 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.

25.0 DISPUTE RESOLUTION & ARBITRATION

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

25.1 Governing law 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.

26.0 ATTRIBUTES OF GCC

26.1 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.

26.2 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.

26.3 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.

27.0 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 (PO/RO) 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.

28.0 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.

29.0 TRANSFER OF TITLES

The title of ownership and property to all equipment, installations, erections, constructions materials, drawings & documents shall pass to the TPCODL 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.

30.0 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-I. You can also log on to our website www.tpcentralodisha.com to provide your feedback according to the guidelines mentioned below:

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31.0 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

32.0 LIST OF ANNEXURES

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

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ANNEXURE-B

PROFORMA FOR ADVANCE PAYMENT BANK GUARANTEE

(On Rs.100/- Stamp Paper)

Note:

- (a) Format shall be followed in toto
- (b) Claim period of six months 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

Advance Payment B.G.No.....

Contract No.....dated.....

1. You have entered into a Contract No _____ with M/s. _____ (hereinafter referred to as "the Vendor") for the supply and delivery 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, you have agreed to make an advance payment of Rs. _____ (Rupees _____ only) being _____% (_____percent) of the total value of the contract on "the Vendor" furnishing you with an irrevocable, unconditional and acceptable bank guarantee to be valid till the date of receipt of "the said equipment" covered by your above mentioned contract. For this purpose you have agreed to accept our 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 three months 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

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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 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)**
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 month from _____ (expiry date) i.e. on or before _____ (claim period end date), we shall be discharged from all liabilities under this guarantee thereafter.

Dated at _____ this _____ day of _____ 200_____

Witness

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

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ANNEXURE- C

PROFORMA FOR 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-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 three 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

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available to you, and our Bank shall not be released from its obligations under this guarantee by your exercising any of your rights with reference to matters aforesaid or any of them or by reasons of any other act or forbearance or other acts of omission or commission on your part or any other indulgence shown by you or by any other matter or thing whatsoever which under the law would, but for this provision have the effect of relieving our bank from its obligation under this guarantee.

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 |
| 2. _____ | Banks full address |
| | Designation of Signatory |
| | Bank official number |

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ANNEXURE-D

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 – E

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-F

**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 - G

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 Tata 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 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.

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

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

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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. Business Associate Cell (BA Cell) 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 BA Cell for completion of statutory requirements.
- c) Normally, the work will be started only after 'Clearance for Commencement of Work (CCW)' is issued by BA Cell 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 BA Cell about the same. Statutory requirements in this case may be completed in parallel.
- 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 BA Cell 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).
- i) Affidavit with regard to payment of wages through cheque / bank transfer only.

7.0 Requirements during execution of work:

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

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

- a) Submission of duly filled up Form VI A (Notice of Completion).
- b) Copy of Half yearly / Annual return for ESI / PF / CL(R&A).

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- 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
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 fulfill 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 it's 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 –

- (i) Canteen : _____
- (ii) Rest rooms : _____

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(iii) Drinking water : _____

(iv) Crèches : _____

(v) First Aid : _____

Signature of contractor

Place _____

Date _____

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ANNEXURE – H

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-I

BUSINESS ASSOCIATE FEEDBACK FORM

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

You are associated with us as

- OEMs Service Contractor Material Suppliers Material & Manpower Supplier

You are associated with us for

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

Your office is located at

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

Your nearly turnover with TPCODL

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

Additional information

Your Name	
Your Designation	
Your Organization	
Contact Nos.	
Email	

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

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						

S. No.	Parameters	1	2	3	4	5	Remarks/ Suggestion
		Do Not Agree	Slightly in Agreement	In Fair Agreement	Mostly in Agreement	Fully Agree	
11	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 behaviour						

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	Division / Sub-Division						
1.3	Projects/HOG						
1.4	Inspection & Quality Assurance						
1.5	Stores						
1.6	Metering & Billing						
1.7	Accounts / Finance						
1.8	Administration						
1.9	IT & Automation						
2	How would you rate TPCODL in comparison to your other clients in terms of fairness of treatment and transparency with its Business Associates?						
3	How would you rate TPCODL in comparison to your other clients in terms of processes and systems to manage partnership with its Business Associates						
4	How would you rate TPCODL in comparison to your other clients in terms of building long term & mutually relationship with its Business Associates						

SECTION-C

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

SNo	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 & Contracts</i>	
2	<i>Timely response to quarries</i>	
	<i>Timely certification of works executed</i>	
3	<i>Clarity in Specs, drawings, other docs etc.</i>	
	<i>Adequate information provided on website for tender notification, parties qualified etc.</i>	
4	<i>Timely receipt of material at site for execution</i>	
	<i>Performance Guarantee/EMD released in time</i>	
5	<i>Inspection & quality assurance support for timely job completion</i>	

We thank you for your time and courtesy!!

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ANNEXURE-J

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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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 _____

(Authorized 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 authorized 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-L
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, AML, 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 concerned official 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 concerned official, BA cell and receiving temporary I-card issued by TPCODL, Business Associate shall commence the working.

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**

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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.

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

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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, EHV Projects, maintenance of Sub-Transmission Network, MMG & EAG, 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 concerned official 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

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 concerned official, 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*)

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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.

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

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- 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

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,	Engineer In-charge

<i>if any.</i>	
↓	
HoG (Safety – II) & HoG (Safety & Quality – Commercial) and CAPS to generate the MIS of the violations and the amount deducted.	SAFETY Group
↓	
The pool of the amount generated after the deduction to be utilized in safety welfare of BA employees.	SAFETY Group with approval of CFO/Chief (O & S) /CEO&MD

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

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

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

Once the BA reaches the “BLACK” (color – “5”) category, i.e. highest level of safety violation, “Termination” notice to BA will be issued from the office of the Head of Department (equivalent to GM/ Sr. GM level) and further, *if required*, continuation / extension of contract will only be initiated by Functional Chief / Head of the department (equivalent to Sr. GM / Chief 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 MAJOR contract)		Incident / Accident				Action Required
Sl. No	Type of the injury	1st	2nd	3rd	4th	
1	Slight injury (First Aid Case)	F (Strengthening of process through continuous improvement in the work procedure)				Take risk reduction measures
2	Minor injury (No or Hospitalization less than 48 Hrs)	F	G	G	H	
3	Major injury (Bone injury or burn or Hospitalization more than 48 Hrs)	G	G	H	I	
4	Single fatality	J	K			Intolerable
5	Multiple fatalities (Two or more fatalities during one event)	K				
Legend	Action to be taken	Responsibility	Penalty (in Rs.)	<i>The number of violations are to be calculated cumulatively over the contract period and not on monthly basis.</i>		
F	Memo to BA and levy of penalty	Engineer Incharge	5,000/-			
G	Memo to BA and levy of penalty	Head of Group	20,000/-			
H	Memo to BA and levy of penalty	Head of Group	50,000/-			
I	Memo to BA and levy of penalty	Head of Department	2,00,000/-			
J	Memo to BA and levy of penalty	Head of Department	5,00,000/-			
K	Memo to BA, levy of penalty, termination of contract and black listing of BA	Functional Head	10,00,000/-			

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

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

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

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

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

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

6.3.2 COMPENSATION FOR BA PERSONNEL

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

I. For Death or Permanent / Total Disablement

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

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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 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

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CFO / Chief (O & S)/ CEO & MD	Chief Finance Officer / Chief (Operating & Safety) / Chief Executive Officer & Managing Director
COS	Corporate Operation Services
CAP	Centralized Account Payable System
PTW	Permit To Work
GCC	General Conditions of Contract.

- END -

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Annexure 1 (Refer Para 3.1)

Business Associate Safety Management System Questionnaire

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

Certification				
- Comments				
- Is there a register of injury or accident? - If yes provide a copy (format)	1			
- Is there a documented incident or accident investigation procedure? - If yes provide a copy of a standard incident report form, if No please refer Note 2. - Comments	1			
<i>Safety Training</i>				
- Describe how occupational health and safety training is conducted in your company If No please refer Note 1.	2			
- Is a record maintained of all training and induction programs undertaken for employees in your company? - If yes provide examples of safety training records, if No please refer Note 2.	1			
- Are regular safety inspections / audits are undertaken at worksites? -If yes provide details (formats), if No please refer Note 3.	1			
- Is there a procedure by which employees can report hazards at workplaces? - If yes provide details if No please refer Note 1.	1			
<i>Safety Monitoring</i>				
- Is there an officer / supervisor responsible for monitoring workplace / worksite safety?	1			

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Certification				
- If yes provide details				
<i>Safety Performance Monitoring</i>				
- Are employees regularly provided with information on company health and safety performance? - If yes provide details	1			
- Has the company ever been convicted of an occupational health and safety offence? - If yes provide details	NO Marks (Negative mark ONE for each case)			
- Has there been any major accident of employee at TPCODL site in past	NO Marks (Negative mark ONE for each case)			
- Has there been any fatal accident of employee at TPCODL site in past. - (Note: Bid evaluation committee has to take cognizance of the incident and shall evaluate the bid only after formal approval of competent authority i.e. CTO. - In case of yes please refer Note 4.	NO Mark (Negative mark FIVE for each case)			
Minimum of 75% marks is required for qualification.		Total Marks achieved		
<i>Company Reference</i>				
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.

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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.

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"> 1. Mandatory usage of JSA checklist prior to start of work 2. Use appropriate ladder 3. Use full body safety harness having double lanyard. 4. Use Electrical Safety Shoes if working on electrical network otherwise use safety shoes. 5. Use Safety helmet. 6. Use PPE as per the annexure 7 of this CSM document 7. Refer Work instruction related to Working at Height for other details 8. Use of metal scaffold to be ensured in height work (cup lock type) 9. Deploy competent workforce who are medically fit

Specific Task/Activity	Potential Hazards/Consequences	Class of Risk	Control Measures
Working on electrical equipment / network	Electric flash / electrocution	3	<ol style="list-style-type: none"> 1. Mandatory usage of JSA checklist prior to start of work 2. Use Electrical Safety Shoes while working on electrical network. 3. Use Electrical Safety gloves of appropriate voltage rating. 4. Use face shield / visor attached with helmet. 5. Use Safety helmet. 6. Use PPE as per the annexure 7 of this CSM document 7. Mandatory usage of Insulated tools & tackles on electrical system 8. Mandatory compliance for Lock Out & Tag out system. Refer Work instruction related to Working on electrical equipment / network for other details
Excavation / Civil work	Collapse of soil, Fall in excavated pit leading to Injury	2	<ol style="list-style-type: none"> 1. Use safety shoes. 2. Use Safety helmet. 3. Use PPE as per the annexure 7 of this CSM document 4. Hard Barricading of the worksite. 5. Refer Work instruction related to excavation / civil work for other details
Material lifting & Mechanical Erection work	Fall of material/object, Topple of crane,	2	<ol style="list-style-type: none"> 1. Mandatory compliance of crane checklist 2. Visual condition check of lifting tools and tackles such as wire rope sling, belt sling, chain, pulley block, D-shackles, etc. shall be ensured. 3. The operator's physical fitness and alertness should be judged by sup. / EIC. 4. Use PPE as per the annexure 7 of this CSM document 5. Refer Work instruction related to Material lifting & Mechanical Erection work
Road Safety	Road Accidents	3	<ol style="list-style-type: none"> 1. Mandatory compliance of TPCODL Road Safety policy W07(COR-P-12)

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Specific Task/Activity	Potential Hazards/Consequences	Class of Risk	Control Measures
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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:

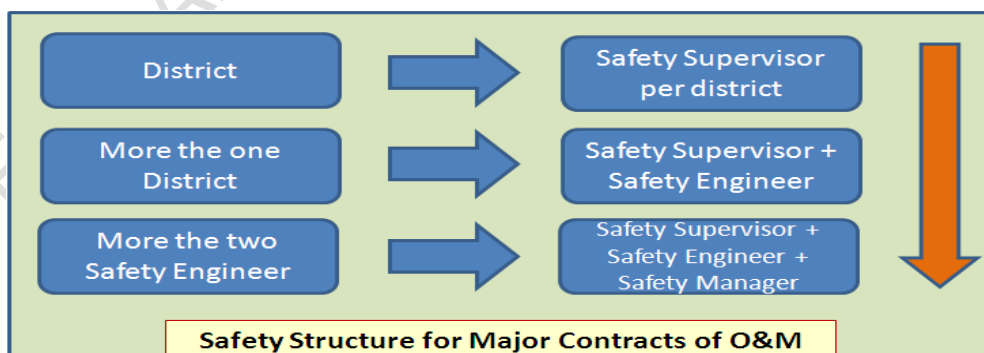
- Class 1: Potential to cause injury treatable with first aid
- Class 2: Potential to cause death or permanent injury
- Class 3: Potential to cause more than one or more lost time injuries.

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.

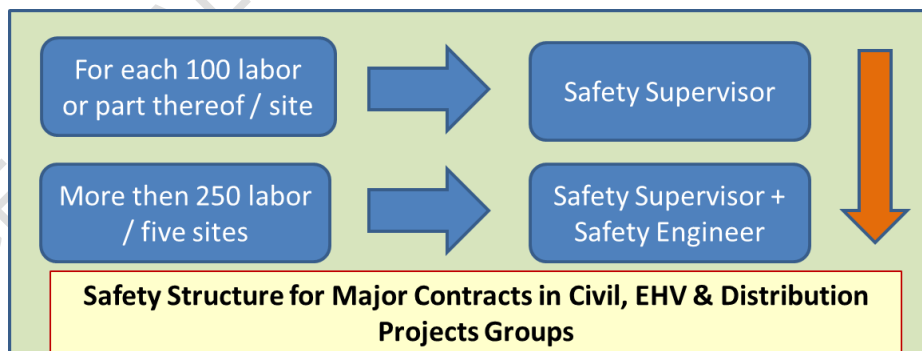


Annexure 3.2 (Refer Para 4.0)

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.

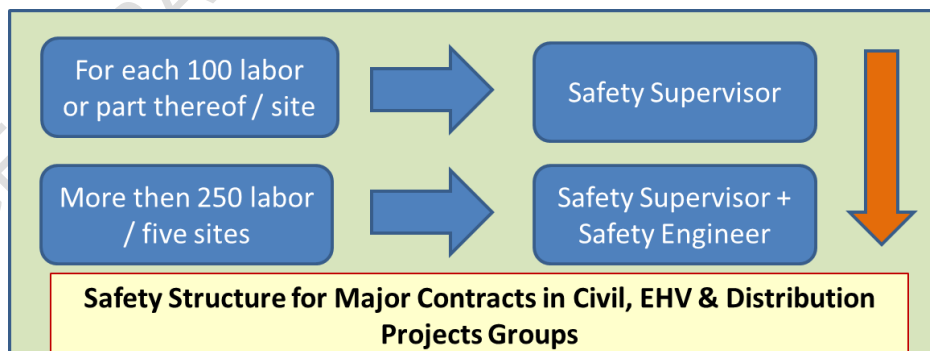


Annexure 3.3 (Refer Para 4.0)

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.



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.



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.

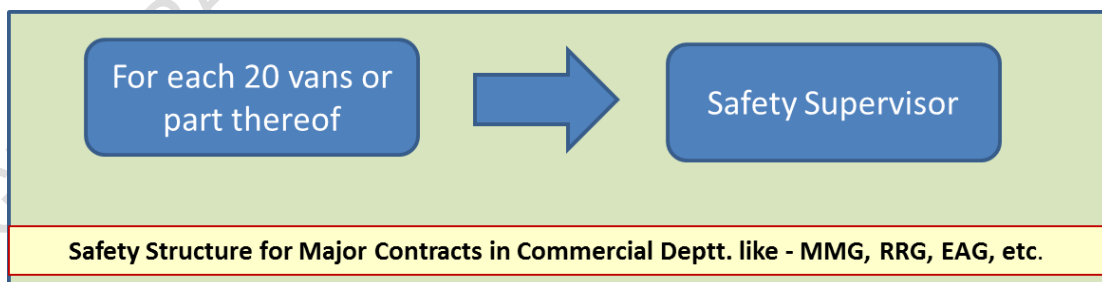


Annexure 3.6 (Refer Para 4.0)

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 The 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.
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.

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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 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
 - Permit to Work
 - Safety Tagging and Lock Out Tag out

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- 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.

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 5th of every month along with bill. List of training of the current month and status of PPE to be also mentioned individual wise.

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

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ANNEXURE-M
VENDOR APPRAISAL FORM

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

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

	9.8	WORKMANSHIP	:
	9.9	MATERIAL IN STOCK AND VALUE	:
	9.10	TRANSPORT FACILITIES	:
	9.11	CARE IN HANDLING	:
10.0	INSPECTION / QC / QA / TESTING		
	10.1	NUMBER OF PERSONNEL (INDICATE NO.OF YEARS OF EXPERIENCE)	:
	10.2	INDEPENDENCE FROM PRODUCTION	:
	10.3	AVAILABILITY OF PROCEDURAL WRITE UP/QUALITY PLAN	:
	10.4	INCOMING MATERIAL CONTROL AND DOCUMENTATION	:
	10.5	RELIABILITY/REPUTATION OF SUPPLY SOURCES	:
	10.6	STAGE INSPECTION AND DOCUMENTATION	:
	10.7	SUB-ASSEMBLY & DOCUMENTATION	:
	10.8	FINAL INSPECTION AND DOCUMENTATION	:
	10.9	PREPARATION OF FINAL DOCUMENTATION PACKAGE	:
	10.10	TYPE TEST FACILITIES	:
	10.11	ACCEPTANCE TEST FACILITIES	:
	10.12	CALIBRATION OF INSTRUMENTS AND GAUGES (WITH TRACEABILITY TO NATIONAL STANDARDS) (ATTACH LIST)	:
	10.13	STATUTORY APPROVALS LIKE BIS, IBR, ETC.(AS APPLICABLE)	:
	10.14	SUB-VENDOR APPROVAL SYSTEM AND QUALITY CONTROL	:
	10.15	DETAILS OF TESTS CARRIED OUT AT INDEPENDENT RECOGNISED LABORATORIES	:
		i) FURNISH LIST OF TESTS CARRIED OUT AND THE NAME OF THE LABORATORY WHERE THE TESTS WERE CONDUCTED	:
		ii) CHECK AVAILABILITY OF CERTIFICATES AND REVIEW THESE WHEREVER POSSIBLE	:
11.0	EXPERIENCE (INCLUDING CONSTRUCTION / ERECTION / COMMISSIONING) TO BE FURNISHED IN THE FORMAT INDICATED IN APPENDIX)		
12.0	SALES, SERVICE AND SITE ORANISATIONAL DETAILS		

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

* 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-N

MANUFACTURER AUTHORIZATION FORM

(To be submitted on OEM's Letter Head)

Date:

Tender Enquiry No.:

To,
Chief (Procurement & Stores)
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

