

**TPCODL**

TP Central Odisha Distribution Limited

**TPNODL**

TP Northern Odisha Distribution Limited

**TPSODL**

TP Southern Odisha Distribution Limited

**TPWODL**

TP Western Odisha Distribution Limited

**CENTRALIZED CONTRACTS GROUP****NIT No.: TPCODL / CCG / 2023-24 / 023****Corrigendum- I****TPCODL / CCG / 2023-24 / 023****Rate Contract  
for Single Phase & Three Phase Meter Installation and Associated Activities for  
TPNODL for 2 (Two) Years****Dated 25<sup>th</sup> July 2023**

Following changes in Calendar of Events in page no 6 of tender document is made;

**1.3 Revised Calendar of Events:**

(b)	Last Date of receipt of Tender Fee	26.07.2023 ; 15:00 Hrs
(e)	Last date and time of receipt of Bids	29.07.2023 up to 15:00 Hrs
(f)	Date & Time of opening technical bids & EMD	After 29.07.2023 15:00 Hrs
(g)	Date & Time of opening of Price of qualified bids	Will be notified to the successful bidders through our website / e-mail.

**Revised Annexure-1 (Schedule of Prices) attached below****Safety Bid documents attached below. Please submit the safety related documents.**

All other terms and conditions of the above tender shall remain unaltered.

**Yours faithfully,****-sd-****Head-Contracts  
CCG, Bhubaneswar**

**Tender No.:- TPCODL / CCG / 23-24 / 023**

**RATE CONTRACT FOR SINGLE PHASE AND THREE PHASE METER INSTALLATION AND ASSOCIATED ACTIVITIES FOR TPNODL FOR 2 (TWO) YEARS**

**Pre-Bid Clarification**

<b>S. No.</b>	<b>Detailed Reference to TPCODL Technical Document.Please specify Document No./Clause No./Page No.</b>	<b>Description as per Bid Document</b>	<b>Remarks-QUERY/Clarification</b>	<b>TATA Power Response</b>
1	2.2/b/29	One linemen – (ITI – Electrical - The line man should be ELBO certified to work on LT network), having 2 years relevant experience. He should be capable of reading/ writing (Hindi/English/Odia).	It is difficult to find Lineman with ELBO certificate in such a big number. So the certified Lineman should be deployed for new connection and cable change activities only.	As per NIT
	2.2/c/29	One Helper – (ITI – Electrical ), having 2 years relevant experience. He should be capable of reading/ writing (Hindi/English/Odia).	Qualification of Helper should be 10th or 12th because a person having ITI will not work as Helper.	As per NIT
2	2.2/-/28	A team shall comprise of one Supervosor, One Lineman and One Helper.	In case of critical job, all three are required but for routine work like replacement etc One Lineman and one helper is sufficient and also two persons can travel on Bike because in most of the cases there are narrow lanes in villages and it is difficult to travel in 4 wheeler in such area's.	As per NIT
3 .A	2.2.1/b/30	50% of Single Phase teams should be operated through 4 wheeler vehicles.	It is not feasible taking into consideration the geographical area, road conditons and distance covered to install the meter. Rather it should be make mandotory for New connection and cable replacement instead of pecentage basis.	As per NIT
3.B	2.2.1/d&g/30	(d) 4 wheeler vehicles should not be more than 2 years old and should not have total KM run more than 50000 KM at the start of contract. (g) Bikes should not be more than 2 years old and should not have run more than 20000 KM at the start of contract.	The age of Vehicles should be atleast 5 Years irrespective of KM because the no. of Vehicles below 2 years are very limited.	As per NIT
4		GI Pipe for service line support	Please mention the length of pipe	6 Feet (maximum)
5	2.2.8/a/35	Agency shall provide Daily Meter Installation Report in format provided by DISCOM to capture site visit details and submit the same to MMG/MRT in the same evening. DISCOM may change the format of control sheet as per requirement of EIC on time to time basis.	Report submission should be on next day instead of same evening as some Lineman/record reaches late at our office.	As per NIT
6		Safety Bid		Attach Seperately

## **CENTRALIZED CONTRACTS GROUP**

### **CSM F8 – Safety Competency Assessment Form**

*(To be submitted by Associates)*

#### **Criteria for Separate Safety Bid**

Separate Safety bid is applicable for contract value  $\geq 1\text{Cr}$  for a duration more than 6 months having major services jobs where high risk critical activities like working at height (more than 1.8 meter from ground), working on our networks under live or dead conditions, laying of new networks and working through heavy equipment's like Crane etc.

The main jobs under above categories are as follows:

1. Zonal AMC Contract
2. Distribution Project Contract
3. EHV Project Contracts
4. STS Line/Grids AMC Contracts
5. Meter Installation Contract
6. Civil Works
7. Street Lighting works/AMC Contracts
8. Any other contract deemed fit under above cited conditions

**CENTRALIZED CONTRACTS GROUP**

**CSM F8 - Safety Competency Form**

**Bidder Name: -**

**Tender Description: -**

**Tender No.: -**

**Rfx No: -**

Bidder to mandatorily provide the below safety competency related information.

**1. Proposed Manpower Deployment Schedule:**

Type of manpower	Qualification	Experience	Month 1	Month 2	Month 3	Month 4	..... ...
Project Manager							
Site In Charge							
Safety Manager							
Safety Officer							
Supervisors							
Technicians							
High Skilled workmen							
Skilled workmen							
Semiskilled workmen							
Lineman							
Helpers							
Drivers							

Bidders to provide the overall site manpower deployment as above. Separate Sheet can be attached for providing complete details

**Instruction to Bidders:**

- i. Indicate the overall site manpower deployment schedule as above
- ii. Indicate direct or subcontracted employees by using color code given below:

**Direct Bidder Employee – Green**

**Partly Direct / partly Subcontracted – Yellow**

**Subcontracted – Red**

- iii. Against each category, indicate minimum educational qualification and work experience

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**CENTRALIZED CONTRACTS GROUP**

- iv. Add rows to include other specialized manpower, if any.
- v. Extend columns to cover the entire duration of the proposed contract.
- vi. If the operation is in shifts, then indicate shift in charge and / or safety officers required for each shift operation.

**2. List of Tools, Tackles & 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, power tools like welding set, gas cutter etc. duly verified by EIC.

Sl. No	Description of Tools / Tackles	Capacity / Rating	Quantity	Make	Year of manufacture	Remarks
1						
2						
3						
4						
5						
6						
.....						

Bidders to ensure that all tools and tackles are provided as per specifications and requirement of the Discoms. Bidders to change the tools, tackles and equipment if there is any change in specifications after award of contract. Separate List can be attached as per above format.

**3. Safety Records:**

Bidder to provide the details of fatalities and lost work day cases (LWDC) which may have happened during the last three years (data to be provided for the last completed year and preceding 2 years) as per below format.

Description	Safety Data for Last 3 Years		
	Year 1	Year 2	Year 3
	Last FY		
Fatalities (Nos.)			
Lost Work Day Cases (Non Fatal Nos.)			

**CENTRALIZED CONTRACTS GROUP**

In case of no fatalities or LWDC during any year, the form may be filled stating NIL against the respective year. Bidders are encouraged to provide the learning's implemented out of the above reported incident.

**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.

**5. PPE Requirements:**

DISCOM Requirement	Bidders Response
The Bidder/Vendor shall ensure that all PPE of Approved standards as per Annexure No. 7 of CSM (GCC), shall be available at all time and shall be used by his employees with no exception whatsoever. Bidders to also ensure Standard PPE matrix of Tata Power to be followed for all activities.	
10% Buffer stock of PPEs to be provided by bidders at each circle to meet any contingency	
Bidder will ensure that sample PPEs to be submitted/approved by Safety Department along with EIC at the time of submission of Safety bids for evaluation In case bidder manpower found using substandard or any PPEs which are not approved by the Discom representative, then Discom will provide the same to manpower deployed at the cost of bidders.	

**6. Vehicle Deployment:** Bidders to provide details of all vehicles deployed during execution of work

S. No.	Vehicle No.	Vehicle Type	Location	CNG/Diesel/Petrol	Year	Whether CNG endorsed on RC

## CENTRALIZED CONTRACTS GROUP

**7. Crane Deployment:** Bidders to provide details of crane to be deployed during the execution of work as and when required. Bidders to provide approved new gen hydra crane ACE Model SX150, ACE FX150 and Escorts Model TRX 1550.

S. No.	Crane No.	Location	Year

**8. Training Records:** Bidders to provide training records of employees deployed for the execution of work during last one year. These training includes OHS (Occupational Health and Safety) Training, Training on SOP/Work Procedures and Medical Emergency trainings imparted at their own facility, cost and expenses. Bidders to provide the following details:

DISCOM Requirement	Bidders Response
Training records of employees at their own facility, cost and expenses for last one year	
Training facility available with Bidders	
Future road map for enhancing the competency of workforce	

**9. Rewards and Recognition:** Bidders to provide the details of process deployed in their organization for sharing and resolution of safety concerns raised by their employees. Also, bidders to provide the details of Rewards and Recognition process in their organization for safety to encourage the morale of their workforce.

**10. Accreditations:**

S. No.	Certification	Yes / No	If Yes, Year of Certification	If No, Planned date for Certification
1.	ISO 9001			
2.	OHSAS 18001/ISO 45001			
3.	SA8000			

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

## CENTRALIZED CONTRACTS GROUP

### Evaluation Criteria

S. No.	Description	Max Marks	Criteria for evaluation
1.	Qualification and Experience of manpower	15	As per Clause No. 1
2.	Tools and Tackles to be provided by bidder	15	To be evaluated as per approved tool list of concerned departments.
3.	PPE Requirements	5	To be evaluated as per approved PPEs standard and PPE Matrix specified in CSM
4	Job Safety Plan/ Method	15	To be evaluated as per as per SOP/WI/HIRA
5	Vehicle Deployment	5	Weightage will be given for CNG Vehicles with endorsement of CNG kit on RC
6	Crane and Mechanized heavy equipment Deployment	15	
7	Training Records	5	Training records to be evaluated with evidences and scoring to be done as per availability of records
8	Certificate Accreditation	5	ISO 9001-2.5 Marks ISO 45001- 2.5 Marks ISO 14001- 2.5 Marks. Total Max 5 Marks for all Three
9	Safety Initiative for learnings implemented in accidents in organization and work force (Fatal / Non-Fatal)	15	Maximum 15 marks will be awarded for visible evidence in terms of safety initiative deployed based on learning of accident in organization and workforce in case of accident
10	Rewards and Recognition Process	5	Maximum 5 marks will be awarded for R&R process evidence
<b>Total</b>		<b>100</b>	

### Safety Records (Lag Parameter)

1	Fatal Accident	(-) 20 Marks	For any fatality in Tata power /Other company in Current and last three years 10 marks will be deducted with maximum up to 15 marks. For new entrant BA, these marks will be deducted for Past safety records. If and BA found hiding such facts, then contract will be terminated immediately during the execution stage.
2	LWDC (Non-fatal)	(-) 10 Marks for each case with max of 20 marks	For each LWDC (Non-Fatal) case 10 marks will be deducted with maximum up to 20 marks. For new entrant BA, these marks will be deducted for safety records other than TPSODL works. If and BA found hiding such facts, then contract will be terminated immediately during the execution stage.



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**CENTRALIZED CONTRACTS GROUP****Final Qualifying Criteria**

<b>S. No.</b>	<b>Description</b>	<b>Max Marks</b>	<b>Criteria for evaluation</b>
1.	Qualified Bidders	More than 70 marks	Marks Obtained. 60 Marks for New business-like Odisha Discom for one year from CSCC implementation date.

<b>The Tata Power Company Ltd</b>	     	<i>Contractor's Safety Code of Conduct</i>
<i>Document no TPSMS/GSP/CSM/015/REV 07</i>		<i>Date of Issue: 01/08/2023</i>

## Contractor's Safety Code of Conduct

Reason for Change	Date of Last Revision	Prepared By	Reviewed By	Approved by
Inclusion of Odisha Discom and periodic Revision	<u>11-May-2015-</u> <u>R1</u> <u>15 August-2021-</u> <u>R6</u>	All Discom and CFT members from all cluster	Debi Prasad Acharya (Head-Safety-Odisha Discom)	Suresh H Khetwani <i>(Chief safety and Environment)</i>

The Tata Power Company Ltd	     	Contractor's Safety Code of Conduct
Document no TPSMS/GSP/ CSM/015/REV 07		Date of Issue: 01/08/2023

## CONTENTS

Clause	Sub-clause	Description	Page No
1.0		<b>Objectives</b>	4
2.0		<b>Scope</b>	4
3.0		<b>Definitions</b>	4
	3.1	Order Manager (Engineer in Charge)	4
	3.2	Site Safety Management Plan	4
	3.3	Contractor / Business Associate/Vendor (BA)	4
	3.4	Emergency	4
	3.5	Expert service job	4
	3.6	CEO/Chief/Head of division/Unit/Utility	5
	3.7	Category A Vendor	5
	3.8	Category B Vendor	5
	3.9	Category C Vendor	5
	3.10	Category D Vendor	5
	3.11	High Risk Jobs	5
	3.12	Medium Risk Jobs	5
	3.13	Low Risk jobs	5
	3.14	Long Duration jobs	5
	3.15	High Value Jobs	5
	3.16	<i>Strategic Business Unit-SBU/Division/Discom-R7</i>	5
4.0		<b>Responsibilities</b>	6
	4.1	Order Manager / Engineer In Charge	6
	4.2	Contractor	6
	4.3	Safety Concurrence Group (SCG)	7
5.0		<b>Procedure</b>	7
	5.1	Registration of Business Associate (Vendor)	7
	5.2	Bid Evaluation	8
	5.3	Capability Building	9
	5.4	Recognition to prior learning in Safety	10
	5.5	Safety performance retention	10
	5.6	Safety Performance Evaluation	11

## APPENDICES-R7

Appendix No.	Description	Page No.
1	CSM F1 – Process Flow Chart for Vendor Registration	12
2	CSM F2 – Safety Category Qualification Form	13
3	CSM F3 – Safety Terms and Conditions	16

<b>4</b>	CSM F4– Safety Potential Evaluation Criteria for vendor registration	16
<b>5</b>	CSM F5 – Flow Chart for Issuing RFQ and PO	18
<b>6</b>	CSM F6 – Safety Competency Assessment Form	19
<b>7</b>	CSM F7 – Safety Bid Evaluation Criteria	23
<b>8</b>	CSM F8 – PPE Requirements	27
<b>9</b>	CSM F9– Site Safety Management Plan	30
<b>10</b>	CSM F10 – Process Flow Chart for Safety Performance Evaluation	35
<b>11</b>	CSM F11– Safety Performance Evaluation Criteria	36
<b>12</b>	CSM F12 – Safety Violation Penalty Criteria	38
<b>13</b>	CHECKLIST TO BE USED DURING SITE VISIT	42
<b>14</b>	Indicative List of High-Risk Jobs	43

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The Tata Power Company Ltd		Contractor's Safety Code of Conduct
Document no TPSMS/GSP/ CSM/015/REV 07		Date of Issue: 01/08/2023

### 1.0 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.

### 2.0 Scope:

- This procedure applies to all operating and project sites of The Tata Power Company Ltd and Group companies including new businesses like Electric Vehicle charging, Home Automation, Microgrid, Roof top solar etc. This Code of Conduct also applies to all operating and project sites of four Odisha Discoms and New business based on mutually agreed timeline for implementation. R7
- This document is applicable to Odisha Discoms also. Odisha Discoms are a joint venture between Tata Power and the Government of Odisha with the majority stake being held by Tata Power Company (51%). ODISHA DISCOMS is a state electricity distribution utility with sole rights to distribution of electricity in the Odisha covering the distribution companies such as TPNODL, TPCODL, TPSODL and TPWODL. In accordance with the Electricity Act. ODISHA DISCOMS engages contractor workforce to execute, run and maintain various operating sites and facilities across locations The activities range from project execution, operation & maintenance of facilities. (R7)

### 3.0 Definitions

- 3.1. Order Manager/Engineer in charge:** Order Manager/Engineer in charge is the Tata Power-Division /DISCOM 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-Division/DISCOM. It will contain the entire job specific safety requirement and will be signed by the contractor.
- 3.3. Contractor/Business Associate/Vendor (BA):** An individual or a company that provides services to Tata Power-Division/DISCOM under a signed contract.
- 3.4. Emergency:** It is a serious, unexpected, or dangerous situation requiring immediate action, which may result in loss of life, 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 and approved by adequate authority of MB level or 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

The Tata Power Company Ltd	  	Contractor's Safety Code of Conduct
Document no TPSMS/GSP/CSM/015/REV 07	  	Date of Issue: 01/08/2023

supervisory work such as expert for AI-ML, expert for transmission and distribution network, expert for civil works, expert on transformers, expert for PSSC, expert for equipment overhaul etc.

- 3.6. **CEO/Chief/Head of division/Unit/Utility:** Business in charge who is overall custodian of the Tata Power-Division/DISCOM.
- 3.7. **Category A Vendor:** Vendor eligible to carry out Very High & High risk (as per Tata Power-Division 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 4-CSMF-4 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 4-CSMF-4 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 4-CSMF-4 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 14 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 calculated 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 more than 12 months, it is considered as long duration job. R7*
- 3.15. **High Value Jobs:** When the value of the job contract is Rs. One Crore or more, it is considered as High value job.
- 3.16. **Strategic Business Unit-SBU/Division/Discom:** *A strategic business unit is a fully functional, independently operational setup of a particular business and an important part of the Tata power company. R7*

The Tata Power Company Ltd	     	Contractor's Safety Code of Conduct
Document no TPSMS/GSP/CSM/015/REV 07		Date of Issue: 01/08/2023

#### 4.0 Responsibilities

**4.1 Order Manager/Engineer in Charge:** Order Manager is Tata Power-Division /DISCOM 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 Ensure 100% safety capability building L1, L2, L3 for contractor work force and supervisor before start of Job
- 4.1.3 Ensure Contractor safety revalidation test for all work force quarterly or Half yearly for new business such as Odisha Discom (R7).
- 4.1.4 Conduct competency assessment of all critical work force working on High-Risk Jobs based on Experience, Technical skill and Safety capability through contractor representative along with division/Discom safety representative. R7
- 4.1.5 Supervise and ensure work is carried out as per the Site Safety Management Plan including agreed Risk Assessment (HIRA/JSA) and Method Statement.
- 4.1.6 Conduct audit and evaluate Safety Performance of contractor.
- 4.1.7 Ensure contractors adhere to all statutory provisions.
- 4.1.8 In case any Exception needed in agreed safety management plan or in CSCC process for execution of job, document control procedure- TPSMS/GSP/DC/014 Clouse 6.3 will be applicable, and approval may be obtained by the Order Manager from adequate authority of Chief of Division/CEO of Discom. (R7)

**4.2 Contractor/Business Associate/Vendor (BA):** The person, entity or organisation who is executing the job for Tata Power-Division /Odisha Discoms under a contractual agreement and will be responsible for the following

- 4.2.1 To follow all Tata Power-Division /DISCOM Critical Safety Procedure, Rules and guidelines given in **CSM F3 Safety Terms and Conditions.**
- 4.2.2 Undertake job as per **CSM F9 Site Safety Management Plan** and method statements agreed with the Tata Power-Division /DISCOM.
- 4.2.3 Ensure 100% safety capability building L1, L2, L3 for contractor work force and supervisor before start of Job
- 4.2.4 Ensure Contractor safety revalidation test for all workforce quarterly or Half yearly for new business such as Odisha Discom up to three years. R7.
- 4.2.5 Ensure competency assessment of all critical work force working on High-Risk Jobs based on Experience, Technical skill and Safety capability through Order manager or Engineer in charge representative along with division/Discom safety representative. R7
- 4.2.6 Raise any concerns about their work and its safety with the Order Manager.

<b>The Tata Power Company Ltd</b>	     	Contractor's Safety Code of Conduct
Document no TPSMS/GSP/ CSM/015/REV 07		Date of Issue: 01/08/2023

- 4.2.7 Report all injuries, near misses, unsafe acts/conditions, and occurrences to the Order Manager immediately.
- 4.2.8 Ensure that all sub-contractors follow the Tata Power Safety Procedure and agreed **CSM F9 Site Safety Management Plan**. If subcontractor detail is not available at stage of Bid evaluation, then this can be agreed with Order manager or Engineer in charge before deployment. Ensure that all sub-contractors follow the Tata Power Safety Procedure and agreed CSM F9 Site Safety Management Plan.**R7**
- 4.2.9 To follow all statutory requirements as per the laws of the land.
- 4.2.10 All vendors applying for category "A" jobs or submitting quote for high-risk jobs shall obtain certificates of ISO:9001, ISO:14001 and ISO:45001 before submitting quote for high-risk Jobs or otherwise mention plan to get the certification. **R7**
- 4.3 Safety Concurrence Group (SCG):** It is Cross Functional Team constituted by Contract department with active support from Safety Team of the Tata Power Division/Discom safety team having representatives from Execution Department, Operation Department, Contract Department, and any other department as deemed fit. SCG will be responsible for the following:
- 4.3.1 Assessment of Safety Potential of new vendor before registration using **CSM F1 Process Flowchart for Vendor Registration** and **CSM F2 Safety Category Qualification Form**.
- 4.3.2 Safety Evaluation of the bids as per evaluation format **CSM F7 Safety Bid Evaluation Criteria**
- 4.3.3 Finalization of the **CSM F9 Site Safety Management Plan** submitted by the contractor.
- 4.3.4 During Safety Bid Evaluation for following types of jobs are evaluated: R7
- 4.3.4.1 High-Risk jobs, Medium Risk job, Major Shutdowns and Outages.
- 4.3.4.2 Capex jobs of High-Risk Category

## 5.0 Procedure

### 5.1 Registration of Business Associates (Vendors)

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

- 1) **CSM F2 Safety Category Qualification Form**
- 2) **CSM F3 Safety Terms and Conditions**

The document **CSM F3 Safety Terms and Conditions** provides the information about Tata Power-Division /Odisha Discom safety System to the contractor. Contractor will submit the **CSM F2 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



The Tata Power Company Ltd	     	Contractor's Safety Code of Conduct
Document no TPSMS/GSP/ CSM/015/REV 07		Date of Issue: 01/08/2023

on a predetermined criteria **CSM F4 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: CSM F1 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 /Medium Risk" then RFQ will be attached with following documents:

- 1) **CSM F3 Safety Terms and Conditions**
- 2) **CSM F6 Safety Competency Assessment Form**
- 3) **CSM F8 PPE requirements**
- 4) **CSM F9 Site Safety Management Plan 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 **CSM F3 Safety Terms and Conditions.** Contracts department will collect duly filled **CSM F6 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 F7 Safety bid evaluation criteria.** If any specific condition related to Contract is required to be conveyed to the 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. Contract will attach a copy of Site Safety Management Plan along with PO to the successful bidder. Please refer **CSM F5 Process Flow Chart for issuing RFQ and PO significant health and safety risk associated with it.**

### 5.3 Capability Building:

**Before issuing gate pass:**

For Odisha Discom: All Tata Power contractor and subcontractor workforce is required to

The Tata Power Company Ltd		Contractor's Safety Code of Conduct
Document no TPSMS/GSP/ CSM/015/REV 07		Date of Issue: 01/08/2023

attend Site Safety Orientation Training to receive a Safety Training Card, which is required to obtain a Gate Pass to the site, prior to entry. This Safety Orientation Course will be for duration of minimum half day. The information provided during the orientation will include, but is not limited to Job rules, personal safety, and conduct, Hazard's reporting, reporting of injuries, Emergency procedures, Safety Activities and Program including disciplinary measure and incentives, Critical safety procedure relevant to the job

For Tata Power Divisions: All Tata Power contractor and subcontractor workforce is required to attend L1 Training to receive a Safety Training Card, which is required to obtain a Gate Pass to the site, prior to entry.

For TataPower and Discom: Appropriate practical training such as SHE L1, L2& L3 is given to ensure that a jobholder, either supervisor or worker, is competent to do his/her job safely. The skill training is provided through TPSDI, and other agencies authorized by Tata Power on the list of 15 critical Safety procedures mentioned under safety procedures. Duration of course is as specified by Division/Discom. Contractor shall ensure that concerned workmen are provided with adequate training before he/she is allowed to execute the work. An evaluation test will be conducted after the completion of the training. Those BA employees, who meet the minimum required competency, will be provided with Certificate or Training /Competency Card, which is valid for 3 years, post which the employee must reappear for the assessment. If the workman is not able to qualify the assessment, he/she will be given 3 additional attempts to clear in 3-month time frame failing which he/she will not be allowed to work on Division/Discom any jobs. After expiry of Certificate or Training /Competency Card again one day recertification of L1, L2 and L3 skill training will be provided. R7.

The Contactor shall bear the conveyance and food expenses of his staff for attending training sessions and capability building sessions in new business-like Odisha Discom.

The Contactor shall bear the entire cost of L1/L2/L3, the costs towards training, salaries/wages, boarding and lodging of his staff for attending training sessions and capability building sessions. These trainings are offered on nominal chargeable basis payable by Contractor and rates shall be decided by TPSDI from time to time in case of training through TPSDI. Generally, L0 is of one day, L1 is for 2 days for each critical procedure and L3 is for one day. Around Rs 700+GST is approx. cost /Day/Candidate. - R7

All contractors' workmen and Business Associate must attend Safety foundation course Training, all workmen engaged in critical jobs must clear and get certified for critical procedures applicable on his work like Work at Height and Electrical safety-LT & HT/LOTO&LC separately and all supervisors must complete supervisor certification in safety.

<b>The Tata Power Company Ltd</b>	  	Contractor's Safety Code of Conduct
Document no TPSMS/GSP/ CSM/015/REV 07	  	Date of Issue: 01/08/2023

Competency assessment of all critical workforce to be carried out for all who has taken L2 training. R7

**5.4 Recognition to the Prior Learning in Safety-R7**

If "Order Manager" recommends and "Head of the Safety Department of Discom" is satisfied with the safety knowledge and competency of the employee of contractor, a test may be conducted by Tata power Skill development Institute/ other recognized institute to assess the prior learning in safety. If employees of the contractors pass in such test, he will be exempted from appearing in SHE L1 training. This assessment is on nominal chargeable basis and rates are decided by TPSDI from time to time.

**5.5 Safety performance retention(R7):** 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. ( R7)

Risk Category-(R7)	Contract Value	Retention Amount (%)
<u>Very high/High risk job/ Medium Risk jobs</u>	Up to 10 Lakhs	2.5
<u>Very high/High risk job/ Medium Risk jobs</u>	10 – 50 Lakhs	2
<u>Low/Very Low Risk jobs</u>	10 – 50 Lakhs	1
<u>Very high/High risk job</u>	0.5 to 10 Cr	2
<u>Medium Risk jobs</u>	0.5 to 10 Cr	1.5
<u>Low/Very Low Risk jobs</u>	0.5 to 10 Cr	1
<u>Very high/High risk job</u>	>10 Cr	1.5
<u>Medium Risk jobs</u>	>10 Cr	1

- The safety retention amount will not be applicable if there is clause of Contract Performance Bank Guarantee (CPBG) and safety performance of contractor is as per desired criteria.
- If safety performance of contractor is not as per desired criteria (as per Appendix 10 – CSM F10 – Process Flow Chart for Safety Performance Evaluation and Appendix 11: CSM F11 - Safety Performance Evaluation Criteria- R7.) then safety retention percentage as mentioned in table above will be deducted from running bill.
- Bidder to give understanding that if there are any deductions required to be made for safety non-performance as per the Safety Performance Score, then Tata Power shall recover any such deductions against safety non-performance directly from the monthly bills / final settlement or it shall be within its right to recover such sum from accounts payable or the CPBG or the retention of the Contractor available with Tata Power for the said contract between the Contractor and Tata Power. R7

The Tata Power Company Ltd	    	Contractor's Safety Code of Conduct
Document no TPSMS/GSP/ CSM/015/REV 07		Date of Issue: 01/08/2023

For all other contracts retention amount is applicable as per table given above.

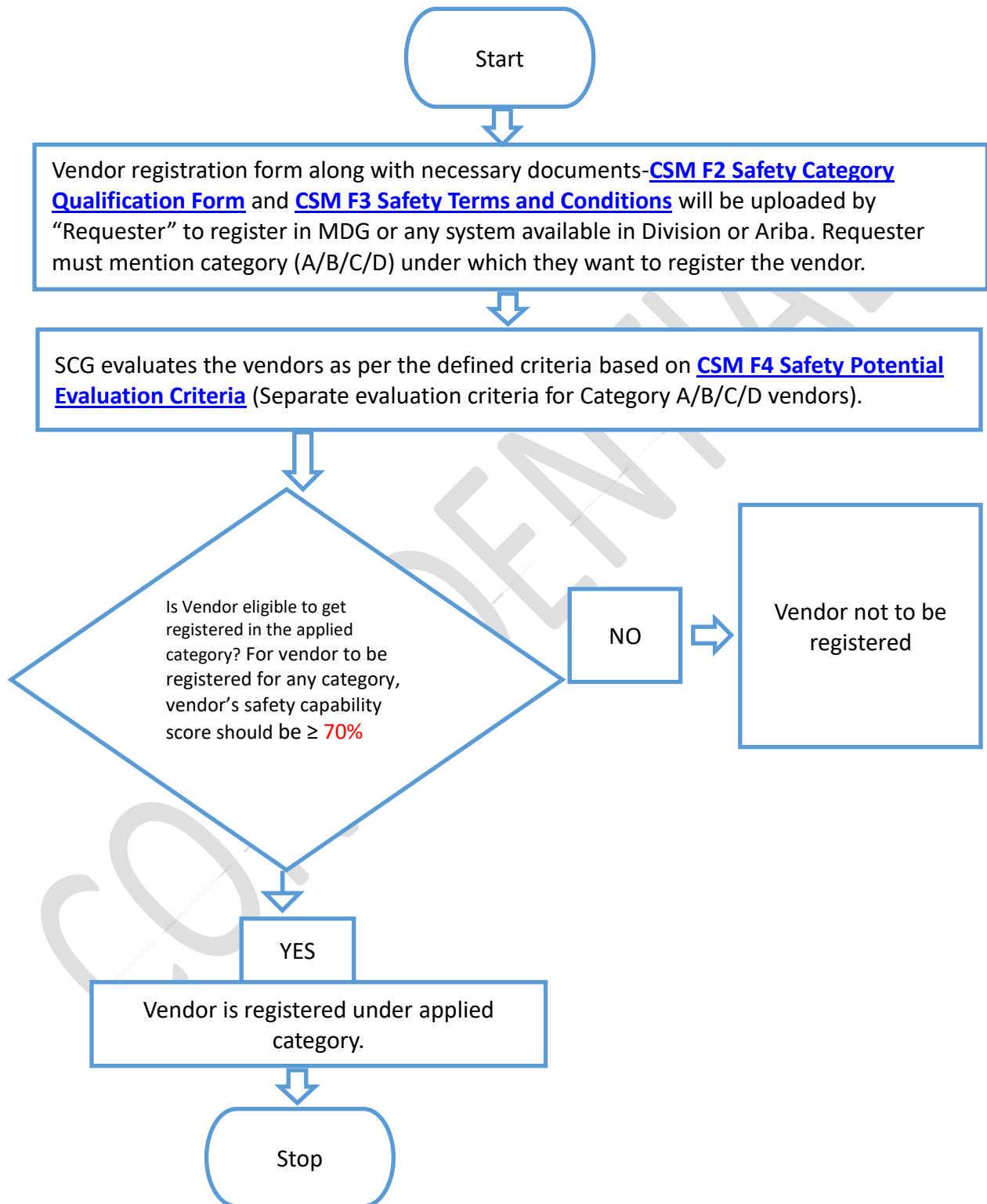
4. The retention amount against non-safety performance saved and Penalty will go to a separate Safety Improvement Fund.R7
5. For the contract value of more than Rs 1 Cr or contract duration more than 12 months, the retention amount shall be released half yearly based on safety performance. For all remaining contracts, the retention amount will be released with the final bill.
6. Safety performance bonus 1% (limiting to 50 lakhs) of the invoice value will be considered at the end of the job if the contractual safety performance score is 100%.

### 5.6 Safety Performance Evaluation:

During the time of job execution, regular site inspection will be carried out by the Tata Power-Division /DISCOM officials to evaluate monthly safety performance of the contractor as per **CSM F11 Safety Performance Evaluation Report** and monthly score will be maintained by the Order Manager. Violations will be dealt as per **CSM F12 Safety Violation Penalty Criteria**. Please refer **CSM F10 Process Flow Chart for Safety Performance Evaluation**. Percentage of retention amount is usually mentioned in safety terms and conditions.

1. During the progress of the work, concerned site Supervisor/Engineer/Safety representative will visit and inspect the work site regularly and evaluate the safety performance of the contractor based on matrix **Appendix 13** and apply the Consequence management policy/Penalty criteria as applicable.
2. The evaluation criteria include Lead Indicators such as percentage of workers trained in TPSDI, inspection of critical equipment. Lag indicators such as Fatalities, LWDC and man-days lost.
3. In case of job stoppage due to safety violations / unsafe observations at the site, no time extension from PO completion date shall be given to the contractor, if such delays are attributable to contractor.
4. 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 by Division Chief/CEO. This charge is over and above the retention amount. The committee will finalize penalty amount based on factors such as advice by statutory authorities, contract value and impact of accident etc.
5. Order Manager, Head of Business and functional Chief have the authority to terminate the contract as per **CSM F12 Safety Violation Penalty Criteria** Through contract department.

**Appendix 1: CSM F1 - Process Flow Chart for Vendor Registration**



<b>The Tata Power Company Ltd</b>		Contractor's Safety Code of Conduct
Document no TPSMS/GSP/ CSM/015/REV 07		Date of Issue: 01/08/2023

**Appendix 2: CSM F2 - 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).
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/Project 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 job

**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	Yes / No	Remarks				
1	Certified for i. ISO 45001, ii. ISO: 14001 iii. ISO: 9001 <b>(ISO certificates to be issued from reputed accreditation agencies specified by Tata Power)</b>	i. Y/ N ii. Y/ N iii. Y/ N	If Yes, Attach copy of the certification.  If No, mention plan to get the certification.				
2	Safety Statistics for current and Last Three (3) Years - LTIFR - LTISR	Yes/No		Current Year	Year 1(Last FY)	Year 2	Year 3
			LTIFR				
			LTISR				

**Name of the Vendor:**

3	Any Compensation paid due to accidents during current and last three years?	Yes/No	Amount (INR)	Manhour
			Current Year	
Y1 (Last FY)				
Y2				
Y3				
4	Any prosecution against you by statutory bodies/clients during last three years due to statutory violations, criminal negligence towards safety and dereliction of duty of care towards your employees?  Is any case still pending against you?	Yes/No	If yes, give details.  If no, give an undertaking that no case is pending against you and you have not been prosecuted by statutory bodies or clients.	
5	Do you have Safety Policy? Safety Principles? And Lifesaving Rules?	Yes/No	If yes, attach copy of the documents available.	
6	Do you have Safety training process?	Yes/No	If yes, attach safety training process and average training manhour of your employees for the last three years.	
7	Do you have a system for recording, reporting, and investigating all incidents or near misses?	Yes / No	If yes, show the incident statistics of last three years and implementation of CAPA.	
8	Do you have a disciplinary action program against your employees for violation towards safety rules and procedures?	Yes/No	If yes, show the records of disciplinary action taken the last three years.	

<b>Name of the Vendor:</b>			
9	Do you have a reward and recognition scheme for your employees who show exemplary safe behavior and contribute to overall safety improvement at site?	Yes/No	If yes, show the records of Reward and Recognition given during the last three years.
10	Do you engage in safety promotional activities?	Yes/No	If Yes, Show the proof of engagement in safety promotional activities.
11	Have you been recognized or awarded or rewarded by government bodies of clients for showing excellence in safety management in your jobs during last three years?	Yes / No	If Yes, Show proof.
12	Do you provide adequate quality of PPEs to your workmen?	Yes/No	If yes, please provide details of PPE Matrix and if required, samples for inspection.
13	Do you have Safety organization structure e.g., Safety Officers and Safety Committees?	Yes/No	If yes, attach copy of the safety organization structure, details of safety committees and safety professionals.
14	Name and address of sites where work is in progress or worked earlier	Yes/No	Site details to be attached for inspection by Tata Power-Division /DISCOM Officials.

Note: If you respond NO to any of the above questions, you can mention your plan to get the required documents.

I hereby confirm that the information provided above are true. I give my consent to be penalized as deemed fit in case any information given above are found to be false.

I will abide the general safety guidelines mentioned in the purchase order / work order and will ensure to prepare and follow site specific safe operating practices in consultation with the site-in-charge and safety professional. I will abide by penalty scheme in case of non-compliance.

Signature :

Name and Designation:

Stamp of Organization :



The Tata Power Company Ltd		Contractor's Safety Code of Conduct
Document no TPSMS/GSP/ CSM/015/REV 07		Date of Issue: 01/08/2023

### Appendix 3: CSM F3 - Safety Terms and Conditions

**(Attached as a separate document under the title CSM F3 – Safety Terms and Conditions)**

### Appendix 4: CSM F4 - Safety Potential Evaluation Criteria for Vendor Registration

At the time of vendor registration, vendor will be registered under 4 categories

- 1) **Category A**- Vendors eligible to carry out High risk Jobs
- 2) **Category B**- Vendors eligible to carry out technical jobs that are Medium/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/B**, a safety potential evaluation will be carried out based on following parameters. (Actual score is safety capability score)

Sr No	Description	Weight age (%)	Actual Score
1	Does the service provider have a valid 45001 Certification?	10	
2	During site visit check for safety adequacy at site	20	
3	Check the Safety statistics of Service provider (If available than 10 otherwise Zero)	10	
4	Check the trend LTIFR/LTISR for last 3 years (If less than 0.2 than give 10 Marks if between 0.2 to 0.3 than give 5 marks and otherwise Zero	10	
5	Has there been any prosecution / conviction for any Contravention regarding safety and Health provision under the factories Act/Electricity Act / BOCW Act and Rules framed there under? If yes Give Zero otherwise 10 Marks.	10	
6	Check the Safety orientation & training process of Service provider- Records of Safety training provided to safety officer/supervisor /workmen during last 1 year as percentage (%) of total employed by service provider ✓ <b>Safety Officer:</b> >80% of employees: 5 Marks, 50 to 79% of employee: 2.5 Marks and <50%: Zero. ✓ <b>Safety supervisor:</b> >80% of employees: 5 Marks, 50 to 79% of employee: 2.5 Marks and <50%: Zero. ✓ <b>Workmen:</b> >80% of employees: 10 Marks, 50 to 79% of employee: 5 Marks and <50%: Zero	20	
7	Check the organizational structure for safety professionals & engineers / supervisors. ✓ Check Availability of number of Safety Officers from government recognized institute as per workforce strength. 1 in 50 employees than 10 Marks, if 1 in 100 than 5 Marks otherwise Zero.	15	

<b>The Tata Power Company Ltd</b>	    	Contractor's Safety Code of Conduct
Document no TPSMS/GSP/ CSM/015/REV 07	<b>TATA POWER</b>	Date of Issue: 01/08/2023

	✓ Check Availability of Qualified workforce from government recognised institute/TPSDI. 100% of safety officers qualified than 5 Marks, 50% TO 99% Than 2.5 Marks and if less than 50% than Zero Marks.		
8	Certified/skilled workers as a percentage of overall workforce	5	
	<b>Total</b>	<b>100</b>	

### Evaluation Criteria for Category C

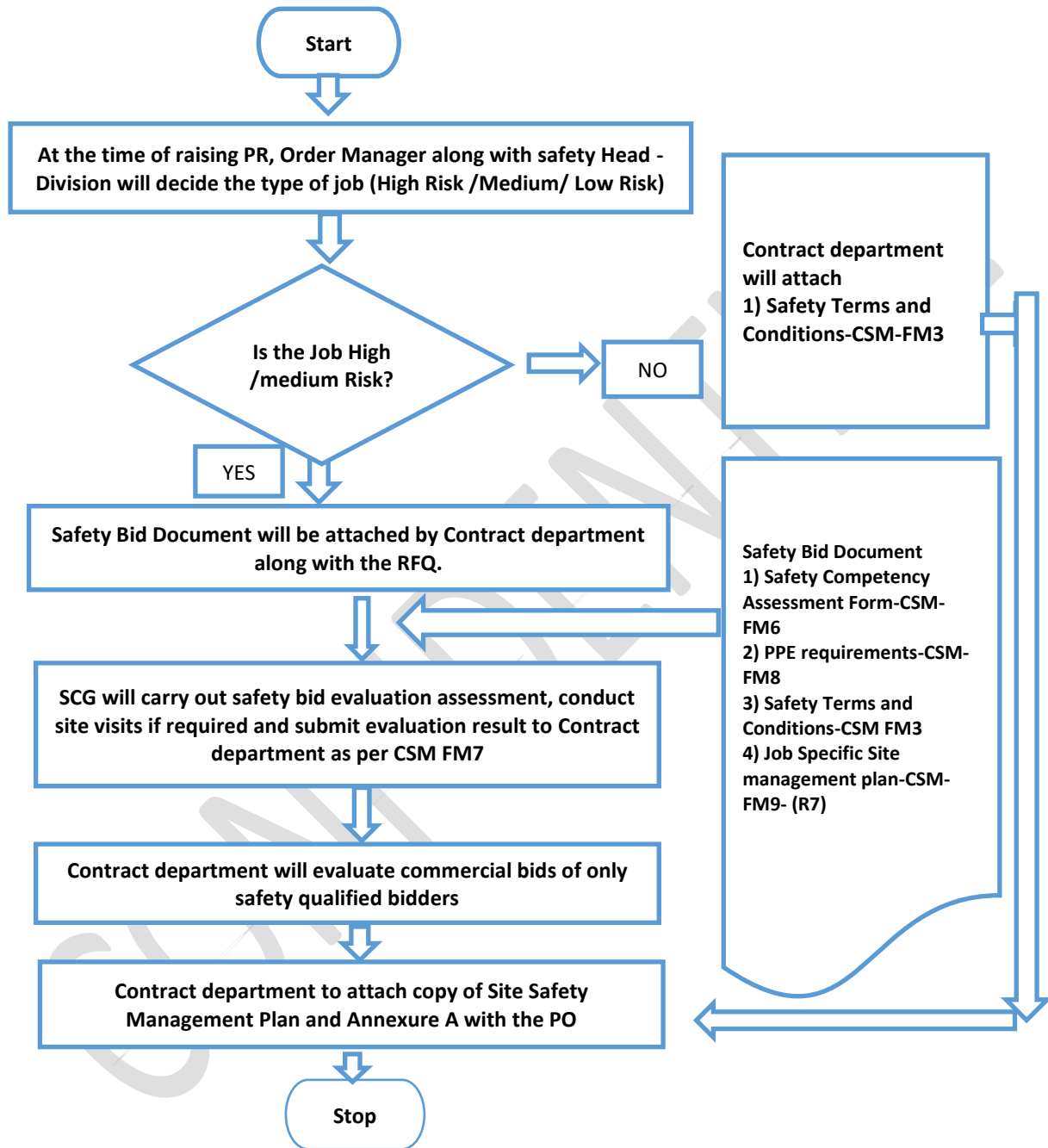
Sr no	Description	Weight age (%)	Actual Score
1	Does the contractor have a valid ISO 9001 certification?	40	
2	Check the Safety statistics of Service provider (If available than 10 otherwise Zero)	10	
3	Check the trend LTIFR/LTISR for last 3 years (If less than 0.2 than give 20 Marks if between 0.2 to 0.3 than give 10 marks and otherwise Zero)	20	
4	Has there been any prosecution / conviction for any Contravention regarding safety and Health provision under the factories Act/Electricity Act / BOCW Act and Rules framed there under? If yes Give Zero otherwise 10 Marks.	10	
5	Check the Safety orientation & training process of Service provider- Records of Safety training provided to safety officer/supervisor /workmen during last 1 year as percentage (%) of total employed by service provider ✓ <b>Safety Officer:</b> >80% of employees: 5 Marks, 50 to 79% of employee: 2.5 Marks and <50%: Zero. ✓ <b>Safety supervisor:</b> >80% of employees: 5 Marks, 50 to 79% of employee: 2.5 Marks and <50%: Zero. <b>Workmen:</b> >80% of employees: 10 Marks, 50 to 79% of employee: 5 Marks and <50%: Zero	20	
	<b>Total</b>	<b>100</b>	

### Evaluation Criteria for Category D

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

For vendor to be registered for any category, vendor's safety capability score should be  $\geq 70\%$ .

**Appendix 5: CSM F5 - Flow Chart for Issuing RFQ and PO**



**Appendix 6: CSM F6 - Safety Competency Assessment 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 :-**

Type of manpower	Qualification	Experience	Month 1	Month 2	Month 3	.....
<b>Project /AMC Manager(R7)</b>						
<b>Site In Charge</b>						
<b>Safety Manager</b>						
<b>Safety Officer</b>						
<b>Supervisors</b>						
<b>Technicians</b>						
<b>High Skilled workmen</b>						
<b>Skilled workmen</b>						
<b>Semiskilled workmen</b>						
<b>Lineman</b>						
<b>Helpers</b>						
<b>Drivers</b>						
<b>Unskilled</b>						
<b><u>Others(R7)</u></b>						

**Instruction to Bidders:**

- i. Indicate the overall site manpower deployment schedule as above
- ii. Indicate direct or subcontracted employees by using color code given below:

**Direct Bidder Employee – Green**

**Partly Direct / partly Subcontracted – Yellow**

4.3.5 **Subcontracted – Red** *If subcontractor detail is not available at stage of Bid evaluation, then this can be agreed with Order manager or Engineer in charge before deployment Ensure that all sub-contractors follow the Tata Power Safety Procedure and agreed CSM F9 Site Safety Management Plan.R7*

- iii. Against each category, indicate minimum educational qualification and work experience

<b>The Tata Power Company Ltd</b>	  	Contractor's Safety Code of Conduct
Document no TPSMS/GSP/ CSM/015/REV 07	  	Date of Issue: 01/08/2023

- iv. Add rows to include other specialized manpower, if any.
- v. Extend columns to cover the entire duration of the proposed contract.
- vi. If the operation is in shifts, then indicate shift in charge and / or safety officers required for each shift 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	Year of manufacture	Remarks
1						
2						
3						
4						
5						
.....						

**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 current and Last 3 Years			
	Current Year	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.

<b>The Tata Power Company Ltd</b>	     	Contractor's Safety Code of Conduct
Document no TPSMS/GSP/ CSM/015/REV 07		Date of Issue: 01/08/2023

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 Appendix 9)

**5. PPE Requirement -R7**

Division/DISCOM Requirement	Bidders Response
The Bidder/Vendor shall ensure that all PPE of Approved standards as per CSM F8 – PPE Requirements shall be always available and shall be used by his employees with no exception whatsoever. Bidders to also ensure Standard PPE matrix of Tata Power to be followed for all activities.	
10% Buffer stock of PPEs to be provided by bidders at each circle to meet any contingency	
Bidder will ensure that sample PPEs to be submitted/approved by Safety Department along with EIC at the time of submission of Safety bids for evaluation In case bidder manpower found using substandard or any PPEs which are not approved by the Tata Power-Division /DISCOM representative, then Tata Power-Division /DISCOM will provide the same to manpower deployed at the cost of bidders.	

**6. Vehicle Deployment:** Bidders to provide details of all vehicles deployed during execution of work-(R7)

S. No.	Vehicle No.	Vehicle Type	Location	EV/CNG/Diesel/Petrol	Year	Whether CNG endorsed on RC

<b>The Tata Power Company Ltd</b>	     	Contractor's Safety Code of Conduct
Document no TPSMS/GSP/ CSM/015/REV 07		Date of Issue: 01/08/2023

**7. Crane Deployment**-(R7): Bidders to provide details of crane to be deployed during the execution of work as and when required. Bidders to provide approved new gen crane ACE Model SX150, ACE FX150 and Escorts Model TRX 1550.

SI No	Crane No	Location	Year

**8. Training Records**-(R7): Bidders to provide training records of employees deployed for the execution of work during last one year. These training includes OHS (Occupational Health and Safety) Training, Training on SOP/Work Procedures and Medical Emergency trainings imparted at their own facility, cost, and expenses. Bidders to provide the following details:

Tata Power-Division /DISCOM Requirement	Bidders Response
Training records of employees at their own facility, cost, and expenses for last one year	
Training facility available with Bidders	
Future road map for enhancing the competency of workforce	

**9. Rewards and Recognition**-(R7): Bidders to provide the details of process deployed in their organization for sharing and resolution of safety concerns raised by their employees. Also, bidders to provide the details of Rewards and Recognition process in their organization for safety to encourage the morale of their workforce.

**10. Management System Certification: -**

Sr.No	Certification	Yes / No	If Yes, Year of Certification	If No, Target date for Certification
1	ISO 9001			
2	ISO 14001			
3	ISO 45001			
4	Any other (Specify....)			

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

The Tata Power Company Ltd	     	Contractor's Safety Code of Conduct
Document no TPSMS/GSP/ CSM/015/REV 07		Date of Issue: 01/08/2023

### **Appendix 7: CSM F7 - Safety Bid Evaluation Criteria**

The User must select whether the job is high /Medium Risk and long duration at time of raising the PR.

- 1) The decision whether job is "is high /Medium Risk "or not has to be made by order manager based on Risk involved (Risk Priority Number in HIRA) of the Jobs. An indicative list of high-risk jobs is attached as Appendix 14. The risk assessment will be done along with Division safety Head. R7
- 2) If a technical job is of low risk with estimated duration of the contract more than one year, the job should be treated as "long duration". R7
- 3) All Safety bids will be evaluated by Safety Concurrence Group. Structure of SCG will be declared by contract department with the assistance of Division / Discom safety. 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 Contract team in existing tracing sheet along with other jobs.
- 5) Safety bid evolution will be done by SCG within one working week. R7
- 6) Contracts / Division shall provide a list of regular Contractors participating in multiple tenders during the year for a one-time umbrella Safety Evaluation of Bidder (as against the specific Bid evaluation) by indicating the nature of the type of jobs / works which the BA usually participates in bidding. SCG shall evaluate such bidders for the requested works and on satisfying the evaluation criteria may be granted a Safety Pre-Approved status for the specific types of work (e.g., O&M of Boiler, Turbine, CHP, AHP, Turnkey EPC, Switchyard, Distribution Electrical Contract etc.) which shall be initially valid for a period of 1-year and shall thereon be extended further against revalidation / re-evaluation as required. R7
- 7) Business Associates having such Safety Pre-Approved status for the type / category of jobs shall be exempted from submission of Safety Evaluation Bid against each tender provided that their Safety Pre-Approved status is valid for the subject work / tender. R7
- 8) A suitable system shall be developed by Contracts to track the validity of such Safety Pre-Approved status of Bidder for timely renewal failing which the Safety Pre-Approved status shall cease and Bidder will thereon have to provide Safety Bids with each tender until such one-time approval is renewed. R7



<b>The Tata Power Company Ltd</b>	  	Contractor's Safety Code of Conduct
Document no TPSMS/GSP/ CSM/015/REV 07		Date of Issue: 01/08/2023

**Safety Bid Evaluation will be based on following parameters.**

**Evaluation Criteria-(R7)**

S. No.	Description	Max Marks	Criteria for evaluation
1.	Qualification and Experience of manpower	15	As per Clause No. 1
2.	Tools and Tackles to be provided by bidder	15	To be evaluated as per approved tool list of concerned departments.
3	PPE Requirements	5	To be evaluated as per approved PPEs standard and PPE Matrix specified in CSM
4	Job Safety Plan/ Method	15	To be evaluated as per as per SOP/WI/HIRA
5	Vehicle Deployment	5	Weightage will be given for CNG Vehicles with endorsement of CNG kit on RC/Electrical Vehicle
6	Crane and Mechanized heavy equipment Deployment	15	Date of manufacturing or running hours
7	Training Records	5	Training records to be evaluated with evidence and scoring to be done as per availability of records
8	Certificate Accreditation	5	ISO 9001-2.5 Marks ISO 45001- 2.5 Marks ISO14001- 2.5 Marks. Total Max 5 Marks for all Three
9	Safety Initiative for learnings implemented in accidents in organization and work force (Fatal / Non-Fatal)	15	Maximum 15 marks will be awarded for visible evidence in terms of safety initiative deployed based on learning of accident in organization and workforce in case of accident
10	Rewards and Recognition Process	5	Maximum 5 marks will be awarded for R&R process evidence
<b>Total</b>		<b>100</b>	

**Safety Records (Lag Parameter)-(R7)**

1.	Fatal Accident	(-) 10 Marks for each case with max of 15 marks	<p>For any fatality in Tata power /Other company in Current and last three years 10 marks will be deducted with maximum up to 15 marks.</p> <p>For new entrant BA, these marks will be deducted for Past safety records.</p> <p>If and BA found hiding such facts, then contract will be terminated immediately during the execution stage.</p>
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The Tata Power Company Ltd		Contractor's Safety Code of Conduct
Document no TPSMS/GSP/ CSM/015/REV 07		Date of Issue: 01/08/2023

2	LWDC (Non-fatal)	(-) 5 Marks for each case with max of 10 marks	<p>For each LWDC (Non-Fatal) case in Tata power /Other company in Current and last years, 5 marks will be deducted with maximum up to 10 marks.</p> <p>For new entrant BA, these marks will be deducted for past safety records.</p> <p>If and BA found hiding such facts, then contract will be terminated immediately during the execution stage.</p>
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**Final Qualifying Criteria**

S. No.	Description	Max Marks	Criteria for evaluation
1.	Qualified Bidders	More than 70 marks	Marks Obtained. 60 Marks for New business-like Odisha Discom for one year from CSCC implementation date.

		Minimum Requirement	Weight age (%)	Score Obtained
<b>Manpower</b>	<b>Safety Officer (1 per 500 workers) or as per requirement</b>	<p><b>Qualification</b> - Safety Officer shall possess recognized degree in any branch of engineering with practical experience in similar industries of Min 2 years and Advance Diploma In Industrial Safety by State technical board. (Each state government prescribes the qualification of safety officer.). Require knowledge of Local language.</p> <p><b>Experience</b>- Minimum 2-year experience in relevant field as mentioned in the job in PR.</p>	5	
	<b>Safety Supervisor (1 per work site up to max. 50 workers)</b>	<p><b>Qualification</b>- Supervisor shall possess ITI/ Diploma in relevant field. PDIS is desirable, but not mandatory. Require knowledge of Local language.</p> <p><b>Experience</b>- Minimum 5-year experience in relevant field as mentioned in the job in PR.</p>	5	

<b>The Tata Power Company Ltd</b>	    	Contractor's Safety Code of Conduct
Document no TPSMS/GSP/ CSM/015/REV 07	<b>TATA POWER</b>	Date of Issue: 01/08/2023

		<p><b>Training</b> – Trained and certified by Tata power Skill development Institute or equivalent institute in relevant safety procedures.</p> <p><b>Note:</b> On request of the contractor/Users - TPDSI should vet &amp; certify the skilled &amp; experienced Technician if Technical Qualification is not adequate.</p>		
	<p><b>Qualified Technician (Skilled workers as electrician, rigger, fitter, welder, cable jointer, line men etc.)</b></p>	<p><b>Experience-</b> Minimum 2-year experience (or experience prescribed by state government) in relevant field as mentioned in the job in PR.</p> <p><b>Training</b> – Trained and certified by TPDSI or equivalent institute in relevant safety procedures.</p>	5	
<p><b>Tools &amp; Tackles</b></p>	<p>Equipment / Machines/ Tools &amp; Tackles (lifting and shifting tools)</p>	<p>The list of Equipment /Machines / Tools and tackles to be used for job to be submitted by the contractor.</p> <p>Evaluation of the list will be carried out based on</p> <ol style="list-style-type: none"> <li>1) Suitability as per the relevant job</li> <li>2) Make and age of the tools from authorized agencies defined by the user.</li> <li>3) Certification by the competent authority of respective state.</li> </ol>	15	

The Tata Power Company Ltd	     	Contractor's Safety Code of Conduct
Document no TPSMS/GSP/ CSM/015/REV 07		Date of Issue: 01/08/2023

### **Appendix 8: CSM F8 - PPE requirements-(R7)**

The Contractor shall ensure that the following PPE of Approved standards shall be always available and shall be used by his employees with no exception whatsoever. • PPE shall be conforming to BIS/DGMS/DIN specifications, in good condition and shall be comfortable to his employees, when used. This is indicative. For better clarification refer PPE procedure-TPSMS/GSP/PPE/023. as per safety terms and condition Appendix 3 CFM 3 in detail. R7

#### **PPE Requirement**

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/Gas cutters	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 / Linemen	Rubber hand gloves <i>with correct voltage rating and expiry date normally one year from Manufacturing date-(R7)</i> & Electrical resistant shoes, Safety helmet with induction strip to alert about presence of voltage for those linemen who climb the poles or work on electrical equipment
6	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, Work positioning attachment


#### **PPE Type and Testing Frequency**






Sl. No.	Name of PPE	IS / EN Standard	Testing Frequency	Remarks
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.	

<b>The Tata Power Company Ltd</b>	  	<i>Contractor's Safety Code of Conduct</i>
<i>Document no TPSMS/GSP/CSM/015/REV 07</i>	  	<i>Date of Issue: 01/08/2023</i>

02	HDPE Safety helmet with chin strap and ratchet type for adjustment for non-Electrical work	IS:2925-1984	Monthly and visual check every day for any crack in shell.	
03	Full body harness (Safety belt)	EN 361	Monthly and visual check every day of the bends and the harness.	
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.
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.
06	Fireproof jacket for chest protection		Monthly and visual check every day.	
07	Safety helmet with induction Strip for linemen and working for electrical work-Class E	EN 397/2012	Monthly and visual check everyday	Induction Strip alerts presence of voltage
08	Shorting clamps, crocodile clamps, Discharge Rod and Neon tester		Monthly and visual check everyday	For discharging the residual voltage and test before touch

**Pictorial View of PPEs 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	<p>HDPE Safety helmet with chin strap and ratchet type for adjustment for Nonelectrical work and electrical work</p>	<p>IS:2925-1984/ EN 397/2012</p>	
03	<p>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.</p>	<p>EN 361:2002  EN 358 : 2000  IS: 3521:1991/2002</p>	
04	<p>Electrical Safety Gloves – Composite type Soft electrical gloves as per size of individual.</p>	<p>EN: 60903 CE marked</p>	
05	<p>Full face visor with safety helmet</p>	<p>EN: 166 CE marked (Visor)</p>	
06	<p>Fireproof jacket for chest protection</p>		
08	<p>Reflective jacket to each workman</p>	<p>As per Tata Power standard</p>	

<b>The Tata Power Company Ltd</b>		Contractor's Safety Code of Conduct
Document no TPSMS/GSP/ CSM/015/REV 07		Date of Issue: 01/08/2023

**These pictures are indicative. Actual product may vary.**

**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 company.
3. Safety Representative of the BA must 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. Company 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.

**Appendix 9: CSM F9 - 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		
<b>Scope of work: -</b>		
Drawing References: -		
Detail of Sub contractors involved: -		
Method Statement Prepared By: - Designation: - (e.g., Site Manager)	<u>Signature</u>	<u>Date</u>

The Tata Power Company Ltd	     	Contractor's Safety Code of Conduct
Document no TPSMS/GSP/ CSM/015/REV 07		Date of Issue: 01/08/2023

**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 roles and responsibilities of all personnel involved in activity i.e., Site management staff including subcontractors' staff, Project Manager/Site Manager of principal contractor, Sub Contractor Site Manager, Project Engineer, Safety officer, Competent Supervisory Staff etc.)



<b>The Tata Power Company Ltd</b>	     	Contractor's Safety Code of Conduct
Document no TPSMS/GSP/ CSM/015/REV 07		Date of Issue: 01/08/2023

**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).*

S. 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)*.

<b>Fall Protection Measures: (Where Work at height cannot be avoided)</b>	
<b>Control Measures for Electrical Hazards</b>	
<b>Others Hazard if any (please provide details)</b>	

<b>The Tata Power Company Ltd</b>	  	Contractor's Safety Code of Conduct
Document no TPSMS/GSP/ CSM/015/REV 07	  	Date of Issue: 01/08/2023

**Hazardous Substances to be used in job:**  
(Attach MSDS if required)

						
Acute Toxic	Health Hazard	Corrosive	Dangerous For the environment	Oxidising	Highly flammable	Explosives
Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N

**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, firefighting, 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*

<i>Safety Helmet / Hard Hats</i>		<i>Safety Shoe / Safety Boots</i>	
<i>Gum Boot</i>		<i>Double Lanyard Safety Harness with work positioning attachment</i>	
<i>Electrical Hand gloves</i>		<i>Other hand gloves</i>	
<i>Eye protection</i>		<i>Respiratory protection</i>	
<i>Ear Protection</i>		<i>Electrical Arc flash suit</i>	
<i>Chemical resistant suit</i>		<i>Reflective Jackets</i>	
<i>Any Other</i>		<i>Any Other</i>	

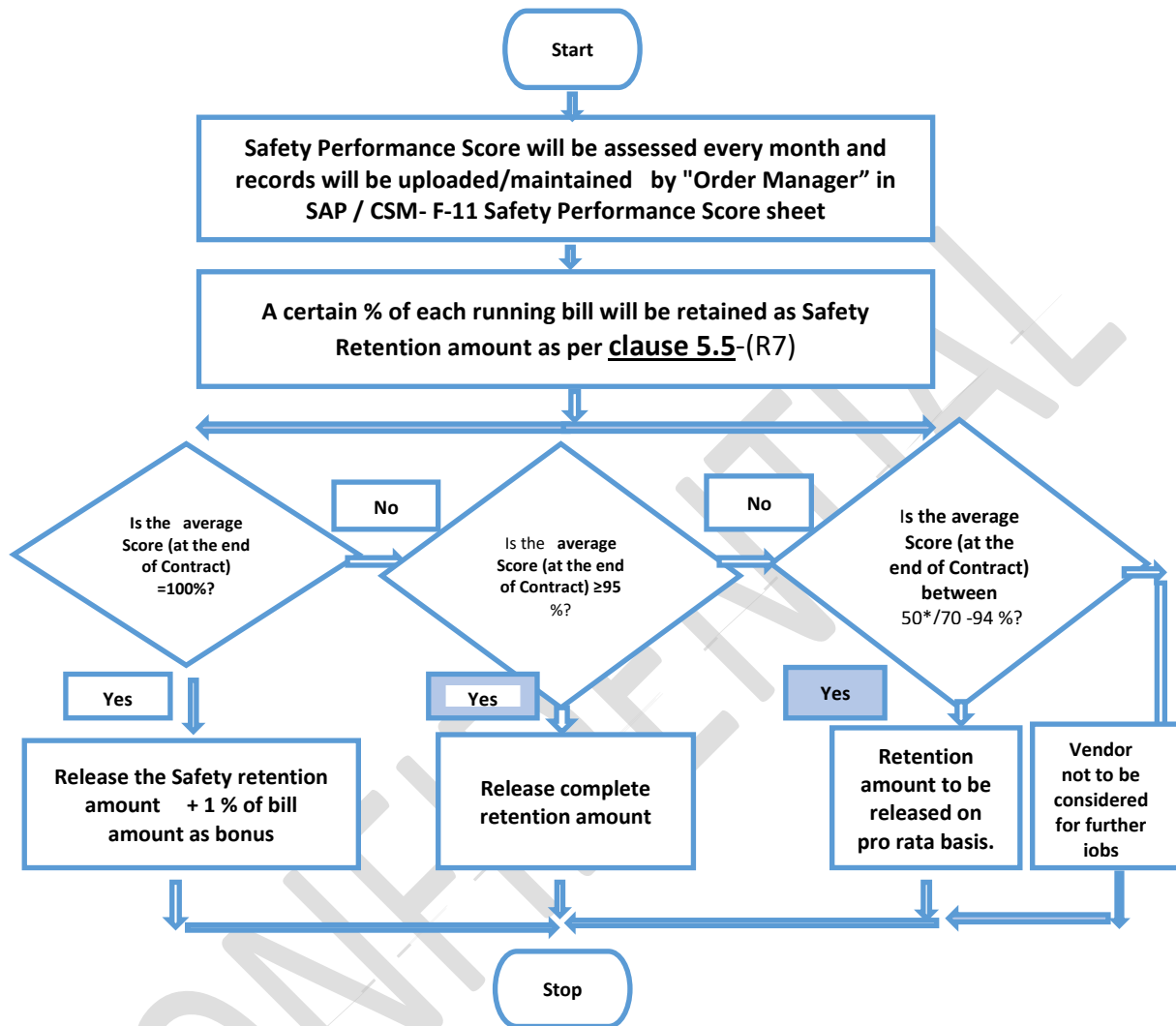
**10.0 First Aid facilities and Nearby Hospitals Details**

- Name of On Site First Aider
- First Aid Box Location
- Location of nearest hospital

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

- Please give a brief writeup / methodology of your organization's plan to avoid impact of the COVID-19 pandemic at Tata Power working site.
  - 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 – CSM F10 – Process Flow Chart for Safety Performance Evaluation**



\* For New Business such as Odisha Discoms-(R7)

<b>The Tata Power Company Ltd</b>	     	<i>Contractor's Safety Code of Conduct</i>
<i>Document no TPSMS/GSP/ CSM/015/REV 07</i>		<i>Date of Issue: 01/08/2023</i>

**Appendix 11: CSM F11 - Safety Performance Evaluation Criteria**  
**Safety Performance Evaluation Report- CSM F11**

Sr. No	Parameter	Unit of Measurement	Target	Weight age	Actual Performance	Actual Score
<b>Lead Indicator</b>						
1	% of Employee certified in TPSDI/Authorized agency	%	100%	20		
2	Monthly inspection and replacement of damaged Personal Protective equipment -PPE by_contractor	%	100	10		
2	Monthly inspection and replacement of damaged Critical Equipment, lifting Tools & Tackles and hand tools used at site by_contractor	%	100%	15		
3	Condition of critical tools, tackles, and equipment to be checked by order manager or Engineer in Charge.	%	100%	10		
4	Safe Disposal of Waste generated (Designated way) Records of Waste generation (Hazardous waste, oily cotton waste, E Waste) No effluent to drain or discharge to ground	Yes / No	Yes	10		
<b>Lag Indicator</b>						
1	Number of Fatalities	No	0	15 / 20*		
2	Number of Lost workday case (LWDC) (reportable)	No	0	10 / 15*		
3	No of Recordable Cases (Exclude Fatalities and LWDC)	No	0	5 / 0*		
4	Man-days Lost	Man-days	0	5 / 0*		
					<b>Final Score</b>	
					<b>Invoice Value</b>	
					<b>Amount to be released</b>	

<b>The Tata Power Company Ltd</b>	     	Contractor's Safety Code of Conduct
Document no TPSMS/GSP/ CSM/015/REV 07		Date of Issue: 01/08/2023

### Safety Performance Evaluation Criteria

#### Lead Indicators

		Target			
1	% of employees certified in TPSDI/Authorized agency	100%	51% to 99%	50%	<50%
	<b>Score</b>	<b>20</b>	<b>Pro-rata</b>	<b>10</b>	<b>0</b>
2	Monthly inspection and replacement of damaged Personal Protective equipment - PPE by contractor	100%	99% to 50%	<50%	
		<b>10</b>	<b>5</b>	<b>0</b>	
2	Monthly inspection and replacement of damaged Critical Equipment, lifting Tools & Tackles and hand tools used at site by contractor	100%	99% to 50%	<50%	
	<b>Score</b>	<b>15</b>	<b>7</b>	<b>0</b>	
3	Condition of critical tools, tackles and equipment <u>to be checked by order manager</u>	100%	<100%		
	<b>Score</b>	<b>10</b>	<b>0</b>		
4	Safe (designated way) Disposal of Waste generated, Records of waste (Hazardous Waste – Oily cotton waste – E- waste etc.) generation No effluents to drain/discharges to ground	YES	NO		
	<b>Score</b>	<b>10</b>	<b>0</b>		

#### Lag Indicators

		Target			
1	Number of Fatalities	0	>0		
	<b>Score</b>	<b>Score</b>	15 / 20*	0	
2	No of LWDC - Reportable	0	>0		
	<b>Score</b>	<b>Score</b>	10 / 15*	0	
3	No of Recordable Cases (Exclude Fatalities and LWDC)	0	1	>1	
	<b>Score</b>	<b>Score</b>	5 / 0*	5	0
4	Man-days Lost	0	1-5	>5	
	<b>Score</b>	<b>Score</b>	5 / 0*	5	0

\* For New Business such as Odisha Discoms-(R7)

**Appendix 12: CSM F12 - Safety Violation Penalty Criteria**

**Major Violations and Escalation matrix--(R7)**

Consequence of safety violation observed not related to incidents or accidents		Violations				
Sl. No.	<u>Safety Violation</u>	1st	2nd	3rd	4th	<u>Subsequent violation</u>
1	Working without required PPE such as Helmet/gloves/safety shoes/Safety harness etc.	A	B	C	D	Will Attract the same penalty as 4th violation
2	Working without proper tools and tackles	A	B	C	D	
3	Poor or bad condition of Crane/Hydra/Vehicle and/or Incompetent driver and/or helper).	B	C	D	E	Termination of Contract and blacklisting after repetition of violations (3 to 4 times as the case may be)
4	Improper Working at Height	B	C	D	E	
5	Untrained /unauthorized workman engaged in high-risk jobs	B	C	D	E	
6	Violation of SOP or WI or LOTO	C	D	E		
7	Working without PTW or LC / Without authorization / Without creating Safe Zone	C	D	E		

Legend	Action to be Taken	Responsibility	Penalty (INR)	Repeat Violations
A	Levy of Penalty	Order manager / EIC	5000	The no. of repeat violations shall be calculated cumulative during the contract period, not on a monthly basis
B	Memo to BA and Levy of Penalty	Order manager / EIC	10000	
C	Memo to BA and Levy of Penalty	Order manager / EIC	25000	
D	Memo to BA and Levy of Penalty	Order Manager / EIC	50000	
E	Memo to BA, Levy of Penalty, Termination of Contract, Blacklist	Order Manager / EIC	100000	

<b>The Tata Power Company Ltd</b>	     	<i>Contractor's Safety Code of Conduct</i>
<i>Document no TPSMS/GSP/ CSM/015/REV 07</i>		<i>Date of Issue: 01/08/2023</i>

### Other Violations and Penalty

Penalty shall be imposed on the contractors under the following circumstances for breaching the contractual agreements. The list is not exhaustive, but indicative.

Sl. No	Description of Violation	Severity	Penalty (INR)
1.	Unhygienic/Bad condition of PPE	2	500
2.	Unsafe Act/Condition of Severity 4	4	4000
3.	Unsafe Act/Condition of Severity 5	5	5000
4.	No Earthing of Electrical equipment	5	5000
5.	Working without efficient supervision	4	4000
6.	Non-reporting of incidents	3	3000
7.	Starting the job without Toolbox Talk	4	4000
8.	Electric cable tied with metal wire / Use of damaged electrical cable / Use of two core cable	3	3000
9.	Rubber mat not available in front of electrical panels.	3	3000
10.	Inserting naked wire into the socket instead of a plug	5	5000
11	Inflammable materials stored inside PSS/FCC/Distribution Room	5	5000
12	Water accumulation found near electrical panels / equipment	5	5000
13	Grinding wheel/ Coupling/ Piling winch/other rotating parts without guard	4	4000
14	Inadequate illumination of working area	3	3000
15	Bringing inside PSS/FCC or any other work area any chemicals without approval.	5	5000
16	Loose materials in work area which can fall down or fly during a storm	5	5000
17	Misusing emergency facilities like fire hydrant line/ hose box/ spray system/ eye wash etc.	3	3000
18	Entering restricted areas like switch yard, hazardous material storage room etc. without authorization	3	3000
19	Not using 24 V lamp inside confined spaces	3	3000
20	Bypassing/overriding safety interlocks	5	5000
21	Working besides road without proper barricading and monitoring of traffic	5	5000



<b>The Tata Power Company Ltd</b>	    	Contractor's Safety Code of Conduct
Document no TPSMS/GSP/ CSM/015/REV 07	<b>TATA POWER</b>	Date of Issue: 01/08/2023

22	Smoking in prohibited area (Closed Go-downs, Storage of flammable material, Storage of Gas cylinders, PSS , Offices etc.)	3	3000
23	Improper stacking of materials in Storage Yard	4	4000
24	Sleeping at workplace	3	3000
25	First aid box not available / in locked condition	2	2000
26	Appointment of subcontractor without his Safety Bid Evaluation and/or without the permission of engineer in charge or Order manager.	5	5% of order value
27	Bad Housekeeping with respect to <b>TPSMS/GSP/GHK/022</b> <ul style="list-style-type: none"> <li>• 1st Instant</li> <li>• 2nd instant</li> <li>• 3rd instant</li> <li>• 4th instant</li> <li>• Subsequent instants</li> </ul>	2	<ul style="list-style-type: none"> <li>• 1000</li> <li>• 2000</li> <li>• 5000</li> <li>• 10000</li> <li>• 10000</li> </ul>
28	Violations related to vehicles with respect to <b>TPSMS/CSP/RSP/015.</b> <ul style="list-style-type: none"> <li>• Parking without wheel choke</li> <li>• Parking in undesignated area</li> <li>• Heavy vehicle without helper or co-driver</li> <li>• Seat belt not available / not used</li> <li>• Driver without license</li> <li>• Heavy vehicles without reverse horn</li> <li>• Using mobile phone while driving</li> <li>• Lights/mirrors not working /broken</li> </ul>	3	1000 per each violation
28	Violation in Gas cutting and Gas cylinder handling <ul style="list-style-type: none"> <li>• Cylinder valve without guard</li> <li>• No flashback arrester</li> <li>• Leaky DA/Oxygen hose</li> <li>• Cylinders not kept in secured manner</li> <li>• Cylinder trolley not available</li> <li>• Cylinders are transported by manual rolling</li> </ul>	5	2000 per each violation
29	Violations in Lifting Operations w.r.t. to <b>TPSMS/CSP/HEMS/005</b> <ul style="list-style-type: none"> <li>• Hook latch missing</li> <li>• Load raised or swung over people or occupied areas of building</li> <li>• Persons standing within the swing area of the crane</li> <li>• No barricading of crane working area</li> <li>• Use of damaged lifting tools and tackles</li> </ul>	5	2000 per each violation

<b>The Tata Power Company Ltd</b>	     	Contractor's Safety Code of Conduct
Document no TPSMS/GSP/ CSM/015/REV 07		Date of Issue: 01/08/2023

	<ul style="list-style-type: none"> <li>Lifting tools and tackles not tested / Test certificate expired</li> <li>Crane operator without proper license</li> <li>Angular loading</li> <li>Lifting / shifting heavy material without guide rope</li> <li>Using mobile phone during loading and unloading jobs</li> </ul>		
30	<p>Violation in Scaffolding work w.r.t. to TPSMS/CSP/SCAF/007</p> <ul style="list-style-type: none"> <li>Unstable scaffolding/nonstandard Scaffolding in use</li> <li>Handrails/mid rails/toe guards missing</li> <li>Safety harness not anchored on fixed structure</li> <li>Opening found in working platform</li> </ul>	5	2000 per violation
31	<p>Violation in Excavation Work w.r.t. to TPSMS/CSP/EXS/002</p> <ul style="list-style-type: none"> <li>Loose material falling into excavated pit</li> <li>Water logging in excavated pits / trenches</li> <li>Inadequate or no barricading</li> <li>Undercut / cave in found on sides of excavated pits</li> </ul>	4	2000 per violation
32	Caution boards, danger signs (luminescent /red) along with emergency contact number are not found displayed.	3	3000
34	Spillage of hazardous material/chemicals during transportation	4	4000

**Penalty for Incidents / Accidents-(R7)**

Consequence of incident / Accident		Incident / Accident				Action Required
Sr.No.	Type of Injury	1st	2nd	3rd	4th	
1	Major Injury (Bone injury or burn or hospitalization >48 hrs.) Non-fatal	F	F	G	G	Intolerable
2	Major Injury (Bone injury or burn or hospitalization >48 hrs.) Non-Fatal (Two or more non-Fatal in one event)	G	G	H		
3	Single fatality	G	H			
4	Multiple fatalities (Two or more fatalities in one event). Anywhere in Tata power.	H				

<b>The Tata Power Company Ltd</b>	     	<i>Contractor's Safety Code of Conduct</i>
<i>Document no TPSMS/GSP/ CSM/015/REV 07</i>		<i>Date of Issue: 01/08/2023</i>

Legend	Action to be taken	Responsibility	Penalty (INR)	The no. of violations shall be calculated cumulative during the contract period for all contracts in SBU, not on a monthly basis
<b>F</b>	Memo to BA and Levy of Penalty	Order Manager/Engineer in charge	200000	
<b>G</b>	Memo to BA and Levy of Penalty	Order Manager/Engineer in charge	500000	
<b>H</b>	Memo to BA, Levy of Penalty, Termination of Contract and Blacklisting the BA	Order Manager/Engineer in charge	1000000	

#### Appendix -13: CHECKLIST TO BE USED DURING SITE VISIT

<b>Checklist to be used:</b> 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?		
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		
	<b>Total Score</b>		
	<b>Site Visit Score</b>		

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.

<b>The Tata Power Company Ltd</b>	     	<i>Contractor's Safety Code of Conduct</i>
<i>Document no TPSMS/GSP/ CSM/015/REV 07</i>		<i>Date of Issue: 01/08/2023</i>

**Appendix 14: Indicative List of High-Risk Jobs**

Indicative high-risk jobs are given below. This is not an exhaustive list. This is only indicative.

<b>Sl. No.</b>	<b>Jobs</b>
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	Maintenance / Testing and Replacement of High Voltage (33 KV etc.) Switchyard equipment
6	Installation of Lifts
7	Installation of EOT Cranes
8	Tower Dismantling
9	Working on H Frame /Pole mounted Transformers
10	Excavation in operational Area having power cables in receiving station
11	Identification and spiking of cable / disconnection of cables from poles
12	Working on Electrical Panels
13	Working on live electrical switch yard, Material handling and equipment repair/installation.
14	All activities that require climbing on a pole/structures/Towers/Transformers
15	Cable laying and termination jobs
16	Excavation beyond 5 feet near existing building and structures
17	Working in confined Spaces
18	Stringing of new conductors over poles

The Tata Power Company Ltd	TPCODL		TPNODL	Appendix 3 to CSCC Safety Terms and Conditions
Document No. TPSMS/GSR/STC/009 REV 05	TPSODL	TATA TATA POWER	TPWODL	Date of Issue: 01/08/2023

## Appendix 3:

# Safety Terms and Conditions

Reason for Change	Date of Last Revision	Prepared By	Reviewed By	Approved by
Inclusion of Odisha Discom and periodic Revision	<u>10-Jan-2021-R4</u>	All Discom and CFT members	Debi Prasad Acharya (Head-Safety-Odisha Discom)	Suresh H Khetwani (Chief safety and Environment)

The Tata Power Company Ltd	 	 	 	Appendix 3 to CSCC Safety Terms and Conditions
Document No. TPSMS/GSR/STC/009 REV 05				Date of Issue: 01/08/2023

Clause	Sub-clause	Description	Page No
1.0		Objectives	3
2.0		Scope	3
3.0		Safety Organization & Responsibilities	3
	3.1	Contractor Site Management and Supervision	3
	3.2	Contractor Supervisors and General Staff	4
	3.3	Contractor Workforce	4
	3.4	Vendor/Contractor/sub-contractor	5
4.0		<u>Tools and Tackles(R5)</u>	6
5.0		Site Safety Rules and Procedures	6
6.0		Critical safety Rules and Procedures	6
7.0		<u>General Safety Rules and Procedure(R5)</u>	8
8.0		Training and Capability Building	10
9.0		Pre-Employment and Periodic Medical check-up	12
10.0		Safety performance retention(R5) and Safety Performance Evaluation	12
11.0		<u>Recognition to the Prior Learning in Safety-R5</u>	12
12.0		Other Conditions	13
<b><u>General Safety Conditions for various contracts Specific to Discom(R5)</u></b>			
13.0		<u>Safety Conditions for maintenance of STS (Sub Transmission System) Network for Discom(R5)</u>	14
14.0		<u>Safety Conditions for maintenance of 11 KV and LT Network for Discom(R5).</u>	15
15.0		<u>Safety Conditions for the major contract work in Civil Projects for Odisha Discom(R5)</u>	16
16.0		<u>Safety Conditions for the major contract work in Commercial Department like - MMG, RRG, EAG, etc(R5)</u>	17
17.0		<u>Safety Conditions for Major Projects in Distribution Network(R5)</u>	18
18.0		<u>Schedule of Safety Audits by BA Safety Staff(R5)</u>	19

The Tata Power Company Ltd	TPCODL	 <b>TATA</b>	TPNODL	Appendix 3 to CSCC Safety Terms and Conditions
Document No. TPSMS/GSR/STC/009 REV 05	TPSODL	 <b>TATA POWER</b>	TPWODL	Date of Issue: 01/08/2023

### 1.0 Objective:

The Objective of Safety Terms and Conditions is to apprise the Business Associates about various critical procedures of the Tata power Division/Discoms and the expectations from the BA to implement such procedures without fail. Certain terms and conditions are also mentioned to ensure a safe work atmosphere round the year. Refer Contractor's Safety Code of Conduct- Document no TPSMS/GSP/ CSM/015

### 2.0 Scope:

This procedure applies to all operating and project sites of The Tata Power Company Ltd and Group companies including new businesses like Electric Vehicle charging, Home Automation, Microgrid, Roof top solar etc. This Code of Conduct also applies to all operating and project sites of four Odisha Discoms and New business based on mutually agreed timeline for implementation. R5

### 3.0 Safety Organization & Responsibilities

#### 3.1 Contractor Site Management and Supervision

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

Each Contractor shall provide at least one competent full-time safety supervisor for workforce of every 50 workers or less than that. When workforce ranges to 500, the contractor must provide at least one qualified safety officer (This may be subjected to change as per applicable act). Thus, for work force of 500 workers there will be one qualified safety officer and 10 safety supervisors. For every 500 additions in workforce, the contractor must add 1 safety officer and 10 safety supervisors. The Order Manager or Safety Department of the Tata Power Division /Discoms will review and approve the appointment of all safety officers and supervisors. The safety supervisors/officers will work with the guidance from Tata Power Division /Discoms Safety Department and align themselves with Tata power Division/Discom safety requirements.

For O&M related AMC activities, minimum one qualified safety officer to be deployed for each Division of the Discoms.

Qualified safety officer means he or she has completed PDIS or ADIS from a recognized institute.

Site Safety Officer/Safety Supervisor / Safety Coordinator shall be interviewed by the Order Manager/ Safety head of the Tata Power Division/Discom and then gate passes shall be issued if the interview is successful.

The Tata Power Company Ltd	 	 	 	Appendix 3 to CSCC Safety Terms and Conditions
Document No. TPSMS/GSR/STC/009 REV 05				Date of Issue: 01/08/2023

Site Manager of Contractor/Subcontractor is responsible, and will be held accountable, for the safety of their own workforce as well as that of sub-contractors. He should also ensure that all equipment, materials, tools, and procedures remain in safety compliance at job site.

Responsibility of Site manager includes, but not limited to:

- 3.1.1 Holding officer/supervisors accountable for safety and actively promote safe work performance.
- 3.1.2 Participate in and cooperate with all safety program requirements to be implemented to meet Tata Power Division /Discoms safety objectives
- 3.1.3 Ensure timely reporting of safety incidents, near misses, unsafe acts, and conditions.
- 3.1.4 Identify the training needs of BA employees and maintain all safety training documents.
- 3.1.5 Provide Safety Performance Report at an agreed frequency.
- 3.1.6 Stopping of unsafe work (Acts and/or Conditions) immediately. Work to start only after corrective actions are implemented.
- 3.1.7 Ensure and participate in daily toolbox talk for all the jobs.
- 3.1.8 Ensure that only tested and certified tools and equipment are issued to the workers and being used at the site.

### 3.2 Contractor Supervisors and General Staff.

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

Each site supervisor is responsible and will be held accountable for identifying, analyzing, and eliminating or controlling all hazards through implementation of an aggressive, pro-active Health, Safety and Environmental Program. Each supervisor will proactively participate in the Safety program by observing, correcting, and recording unsafe acts and conditions at plant / sites.

### 3.3 Contractor Workforce

- 3.3.1 Contractors shall provide adequate quality and quantity of manpower as mutually agreed. (R5)
- 3.3.2 All the contractor employees shall attend "SHE L0(Other than new business and Odisha Discom)/L1 Foundation Course in Safety". Depending on the critical procedure in job employees shall also be required to attend "SHE L2 course of critical/high risk operations". All Supervisors shall be required to attend "SHE L3 Supervisory Training". All the above trainings will be conducted by TPSDI/Skill development institute of Disco, or other equivalent institute approved by Tata Power.



The Tata Power Company Ltd	TPCODL		TPNODL	Appendix 3 to CSCC Safety Terms and Conditions
Document No. TPSMS/GSR/STC/009 REV 05	TPSODL	TATA	TPWODL	Date of Issue: 01/08/2023
<b>TATA POWER</b>				

- 3.3.3 Contractor employees shall be required to attend any other additional training if suggested by Order manager or Site Safety Head. The cost of such additional training shall be borne by the Vendor.
- 3.3.4 Contractor / Vendor shall mobilize their manpower well in advance to complete the training through TPSDI/Sill development Institute.
- 3.3.5 The Vendor / BA shall arrange or bear the conveyance and food expenses incurred during training of BA employees in Odisha Discom. (R5)
- 3.3.6 The validity of the training L1, L2 and L3 is 3 years. There will be competency assessment as Revalidation test in every three months for Tata Power Division and six months for Odisha Discom till one year from implementation of CSCC.(R5) Those who fail in the competency assessment shall undergo training again.
- 3.3.7 Supervisors/Welder/Electricians/Line man /Fitters /Radiographers/Riggers engaged by the contractor shall have valid competency certificates issued by authorized agency/Institute.
- 3.3.8 Contractor workforce must make safety a part of their job by following safety rules and regulations and by using all safeguards and safety equipment. They must take an active part in the Safety programs for the Site.
- 3.3.9 Every member of the workforce is expected to report for work without influence of any Drug/Alcohol. Failure to comply with this requirement shall result in immediate termination of employees under the influence of drug and alcohol plus show cause notice/penalty to the vendor.
- 3.3.10 All employees shall report hazardous conditions, practices and behaviours in their work areas and correct wherever possible.
- 3.3.11 Workforce is responsible for active participation in safety and health programs, suggestion systems, trainings and reporting of unsafe act/practices, Unsafe conditions incidents and injuries to their supervisors.

### 3.4 Vendor/Contractor/sub-contractor

- 3.4.1 Vendors/Contractor shall always comply with and ensure that their workforce comply with all site safety rules and regulations. Specifically, with applicable provisions of the Site Safety Management Plan and all statutory safety rules and regulations.
- 3.4.2 After receiving the work order/ purchase order vendor/contractor/bidder shall not appoint Sub-contractor without safety assessment of the sub-contractor through safety concurrence group Under Contractor Safety Code of Conduct. Penalty of 5% of contract value will be applicable to the contractor if subcontractor is appointed without the permission of SCG and without evaluation through CSCC process.

The Tata Power Company Ltd	 	 	 	Appendix 3 to CSCC Safety Terms and Conditions
Document No. TPSMS/GSR/STC/009 REV 05				Date of Issue: 01/08/2023

#### **4.0 Tools and Tackles(R5)**

- 4.1 Tools & Tackles used to carry out the job shall be checked and inspected by Order Manager and safety Officer.
- 4.2 Vendor must submit a valid Certificate from Competent person under the Factories Act 1948 and State Factories Rule for all Lifting Tools and Tackles (like Hoist, D Shackles, chain Block, wire ropes etc.).
- 4.3 All Electrical Hand Tools must be tested for leakage of current by a person /agency authorized by Tata Power Division /Discoms. Electrical power must be taken though RCCB of 30mA. Electrical hand tools should not have cord more than 3 meters in length. If power source is at > 3 meters, extension boards with RCCB of 30 mA and ON/OFF switch, shall be used.
- 4.4 Removal or inclusion of tools any new tool /tackles / machinery / equipment at site should only be done with concurrence of the order Manager / Head Safety.

#### **5.0 Site Safety Rules and Procedures:**

The work in the safest possible manner can only happen when it has been carefully planned and all applicable procedures are followed. The Tata Power Safety Procedures are derived from Tata Power best practices and the applicable Government acts regulations. In each case, the most stringent regulation is used. All safety rules and procedures developed from time to time shall be mandatorily followed by the vendor and his employees while working at Site.

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

##### **6.1 Lock Out and Tag Out Procedure.**

This procedure is intended to be used for the protection of Personnel while servicing or performing maintenance on distribution network/ equipment / pipeline / vessel / process systems. This is a general procedure that shall be used as the minimum requirements for isolation of equipment, pipelines, machines, system from all possible sources of hazardous energy and / or material such as Steam, Hot Water, Compressed Air, any other process fluid / chemical energy /Mechanical energy or Electrical energy. For complete procedure kindly refer Procedure Document No. **TPSMS/CSP/LOTO/001**

##### **6.2 Excavation Safety (Shoring and Sloping) Procedure**

This procedure is developed to cover the safe practices required for shoring and sloping in excavation and trenching jobs. This procedure is developed to establish mandatory requirements for practices to protect personnel, property and equipment from hazards associated with above activities. For complete procedure kindly refer Procedure Document No **TPSMS/CSP/EXS/002**

##### **6.3 Confined Space Entry Procedure:**

This procedure outlines the steps required to perform the confined space entry and to protect personnel from the hazards of entering and conducting operations in confined spaces. For complete procedure kindly refer Procedure Document No – **TPSMS/CSP/CSE/003**.

The Tata Power Company Ltd	 	 	 	Appendix 3 to CSCC Safety Terms and Conditions
Document No. TPSMS/GSR/STC/009 REV 05				Date of Issue: 01/08/2023

#### **6.4 Working at Height Procedure:**

This procedure describes the rules and procedures to protect employees from the hazards of working at heights. This procedure is developed to cover the safe practices required for Working at Heights. This procedure is developed to establish mandatory requirements for practices to protect personnel from hazards associated in this area. For complete procedure kindly refer Procedure Document No – TPSMS/CSP/WAH/004.

#### **6.5 Heavy Equipment Movement Safety Procedure.**

Heavy equipment lifting and movement is an activity involving loading, unloading, storage and movement from one place to another including lifting and erection or repairing of equipment with cranes or hoists. Material, machinery and equipment handling operations are being carried out by large capacity cranes and hoists, which make the job safer and faster. This procedure addresses the hazards and precautions associated with such equipment and their use. For complete procedure kindly refer Procedure Document No – TPSMS/CSP/HEMS/005.

#### **6.6 Mobile Crane Safety Procedure.**

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

#### **6.7 Scaffold Safety Procedure.**

This procedure is developed to provide information on the safe erection, use, dismantling and maintenance of access scaffolding in the workplace. It is developed to establish mandatory requirements for practices to protect personnel from hazards associated with erection, use and dismantling of scaffolds. For complete procedure kindly refer Procedure Document No – TPSMS/CSP/SCAF/007.

#### **6.8 Permit to Work Procedure.**

Given the inherent hazards of the power generation and distribution industry, a significant number of TATA POWER operations and installations are critical. Work Permit (WP) System is an essential element in controlling the workplace risks in an effective manner. For complete procedure kindly refer Procedure Document No – TPSMS/CSP/PTW/008.

#### **6.9 Job Safety Analysis (JSA) Procedure.**

This objective of this procedure is to have a task-based risk assessment process in place that identifies, evaluates and controls the risks associated with work activities, and as a result, prevents those involved in the task or those potentially affected by the task, from being harmed. For complete procedure kindly refer Procedure Document No- TPSMS/CSP/JSA/009 REV 01.

#### **6.10 Electrical Safety Procedure.**

The Tata Power Company Ltd				Appendix 3 to CSCC Safety Terms and Conditions
Document No. TPSMS/GSR/STC/009 REV 05				Date of Issue: 01/08/2023

The objective of these standards is to specify minimum mandatory requirements and advisory guidance for identifying and controlling hazards to ensure 'Zero Harm' regarding operation maintenance and testing of electrical equipment. For complete procedure kindly refer Procedure Document No- TPSMS/CSP/ELEC/010

**6.11 Fire Safety Management Procedure.**

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

**6.12 Hazard Identification & Risk Assessment (HIRA) Procedure(R5):**

Objective of this procedure is to define guidelines for Hazard identification, Risk assessment and determination of controls. For complete procedure kindly refer Procedure Document No - TPSMS/CSP/HIRA/012.

**6.13 Management Of Change (MOC) Procedure(R5):**

The objective of this document is to establish the procedures necessary to ensure that HSE risks are managed to an acceptable level in Tata Power Management of Change (MOC) process. For complete procedure kindly refer Procedure Document No - TPSMS/CSP/MOC/013.

**6.14 Pre-Start-up Safety Review (PSSR) Procedure(R5).**

Objective of this procedure is to provide guidelines for safe initial startup of a new facility or restart of a modified facility. The PSSR process verifies that the new/modified facility meets the original design and operating parameters. The intent is to prevent incidents caused by inadequate, incomplete, unauthorized design, construction, installation, and/or commissioning. For complete procedure kindly refer Procedure Document No - TPSMS/CSP/MOC/014.

**6.15 Road Safety procedure(R5):**

To provide Safety Rules for road travel management and safe usage of all types of vehicles viz. passenger/ commercial, owned/ hired by company, driven by employees or contractors. For complete procedure kindly refer Procedure Document No - TPSMS/CSP/RSP/015.

**7.0 General safety Rules and Procedure:**

**7.1 Lift (Elevator) Safety Procedure:**

To provide safe operating procedure for taking control of lift car before entering and existing the pit of OTIS make elevators. For complete procedure kindly refer Procedure Document No – TPSMS/GSP/LIFT/001,

**7.2 Working on conveyor belt Procedure:**

This procedure is developed to cover the safe practices required for Working on live equipment and to protect personnel from hazards associated with it. For complete procedure kindly refer Procedure Document No – TPSMS/GSP/CONV/003

**7.3 Batteries Handling & Disposal(R5)**

The Tata Power Company Ltd	 	 	Appendix 3 to CSCC Safety Terms and Conditions
Document No. TPSMS/GSR/STC/009 REV 05			Date of Issue: 01/08/2023

To provide procedure for recycling and / or safe disposal of used / waste batteries in compliance with all legislation. For complete procedure kindly refer Procedure Document No – **TPSMS/GSP/HAZM/003**

**7.4 Material Handling and Storage Procedure:**

The purpose of this document is to provide procedures to assist the safe handling of materials (manual handling and mechanical handling). For complete procedure kindly refer Procedure Document No – **TPSMS/GSP/MATL/004**.

**7.5 Office Safety Procedure(R5):**

The objective is to provide a safe working environment to those working in office premise, who may be exposed to emergency situations and other chronic / cumulative risks that may arise due to various reasons of unsafe act, unsafe condition, fire and or pandemic crisis like COVID-19 etc. For complete procedure kindly refer Procedure Document No - **TPSMS/GSP/OFS/006**

**7.6 Earth Leakage Circuit Breaker (ELCB) Testing Procedure(R5):**

The objective of this procedure is to define the minimum requirements for testing of Earth Leakage Circuit Breaker (ELCB). For complete procedure kindly refer Procedure Document No - **TPSMS/GSP/ELCB/008**.

**7.7 Occupational Health & Safety Legal Compliance Procedure(R5):**

Objective of this procedure is provide guidelines for compliance of Occupational Health & Safety (OH&S) legal requirements and all ratified protocols and agreements are incorporated in Tata Power Safety Management System (SMS). For complete procedure kindly refer Procedure Document No - **TPSMS/GSP/LEGL/009**.

**7.8 Incident Reporting & Investigation Procedure(R5):**

Objective of this procedure is to outline the process for reporting, recording and investigating an incident, recommending corrective and preventive actions and to communicate the lessons learned to prevent recurrence of similar incidents. For complete procedure kindly refer Procedure Document No - **TPSMS/GSP/IRI/011**.

**7.9 Contractor Safety Management Procedure.**

The purpose of this document is to engage with contractors in a way to create safe work environment for everyone working for Tata Power. For complete procedure kindly refer Procedure Document No – **TPSMS/GSP/CSM/015**.

**7.10 Tree Trimming Procedure(R5):**

The objective of this procedure is to define guidelines and minimum requirements for Tree trimming. For complete procedure kindly refer Procedure Document No – **TPSMS/GSP/TTRM/017**

**7.11 Safe Lone Working Procedure(R5):**

Objective of this procedure is to lay down guidelines for reduction and safe managing of any additional risk arising from lone working. For complete procedure kindly refer Procedure Document No – **TPSMS/GSP/LONE/019**.

**7.12 Good Housekeeping(5S) Procedure(R5):**

The Tata Power Company Ltd	 	 	 	Appendix 3 to CSCC Safety Terms and Conditions
Document No. TPSMS/GSR/STC/009 REV 05				Date of Issue: 01/08/2023

Objective of this procedure is to explain the meaning, importance and provide guidelines for implementation of Good Housekeeping(5S) at workplaces across organization. For complete procedure kindly refer Procedure Document No – **TPSMS/GSP/GHK/022**.

**7.13 Personal Protective Equipment(R5):**

This procedure describes the basic requirements, applicability, minimum specifications of Personal Protective Equipment (PPE). For complete procedure kindly refer Procedure Document No – **TPSMS/GSP/PPE/023**.

**7.14 Process Safety Management Procedure(R5):**

The objective of this document is to provide a standardized & uniform guideline to implement Process Safety Management in Tata Power, its JVs, and subsidiaries to prevent or minimize the consequences of releases of toxic, flammable, pressurized or uncontrolled chemicals/Steam/Water or any other material which may result in toxic, fire, explosion, burn or flood like situation. For complete procedure kindly refer Procedure Document No – **TPSMS/GSP/PSM/024**

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

**8.0 Training and Capability Building.**

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

**8.1 Tata power Odisha Discom Site Safety Orientation.R5**

All Tata Power contractor and subcontractor workforce is required to attend Site Safety Orientation Training to receive a Safety Training Card, which is required to obtain a Gate Pass to the site, prior to entry. This Safety Orientation Course will be for duration of minimum half day. The information provided during the orientation will include, but is not limited to following:

- 8.1.1 Job rules, personal safety, and conduct
- 8.1.2 Hazard's reporting
- 8.1.3 Reporting of injuries
- 8.1.4 Emergency procedures
- 8.1.5 Safety Activities and Program including disciplinary measure and incentives.
- 8.1.6 Critical safety procedure relevant to the job

**8.2 Capability Building:**

- 8.2.1 All Tata Power contractor and subcontractor workforce is required to attend L1 Training to receive a Safety Training Card, which is required to obtain a Gate Pass to the site, prior to entry.
- 8.2.2 Appropriate practical training such as SHE L1, L2& L3 is given to ensure that a jobholder, either supervisor or worker, is competent to do his/her job safely. The skill training is provided through TPSDI, and other agencies authorized

The Tata Power Company Ltd	 	 	 	Appendix 3 to CSCC Safety Terms and Conditions
Document No. TPSMS/GSR/STC/009 REV 05				Date of Issue: 01/08/2023

by Tata Power on the list of 15 critical Safety procedures mentioned under safety procedures. Duration of course is as specified by Division/Discom

- 8.2.3** Contractor shall ensure that concerned workmen are provided with adequate training before he/she is allowed to execute the work. An evaluation test will be conducted after the completion of the training. Those employees who meet the minimum required competency will be provided with Certificate (Card), which will be valid for 3 years, post which the workmen have to reappear for assessment.
- 8.2.4** If the workman is not able to qualify the assessment, he/she will be given 3 additional attempts to clear in 3-month time failing which he/she will not be allowed to work in the Division /Discoms.
- 8.2.5** After expiry of Certificate or Training /Competency Card again one day recertification of L1, L2 and L3 skill training will be provided. R7.
- 8.2.6** Quarterly /Half yearly(For Odisha and New business) Revalidation Test - "SHE L1 Revalidation test" will be conducted for the contractor's employees to revalidate their safety awareness and knowledge.
- 8.2.7** Order Manager and Safety In charge of the Division/Site /Plant will conduct a Competency Assessment of all workforces, going to be deployed at site / plant for high-Risk job.
- 8.2.8** The Contactor shall bear the conveyance and food expenses of his staff for attending training sessions and capability building sessions in new business-like Odisha Discom.
- 8.2.9** The Contactor shall bear the entire cost of L1/L2/L3, the costs towards training, salaries/wages, boarding and lodging of his staff for attending training sessions and capability building sessions. These trainings are offered on nominal chargeable basis payable by Contractor and rates shall be decided by TPSDI from time to time in case of training through TPSDI. Generally, L0 is of one day, L1 is for 2 days for each critical procedure and L3 is for one day. Around Rs 700+GST is approx. cost /Day/Candidate. -R5
- 8.2.10** Competency assessment of all critical workforce to be carried out for all who has taken L2 training. R5

#### **9.0 Recognition to the Prior Learning in Safety-R5**

If "Order Manager" recommends and "Head of the Safety Department of Discom" is satisfied with the safety knowledge and competency of the employee of contractor, a test may be conducted by Tata power Skill development Institute/ other recognized institute to assess the prior learning in safety. If employees of the contractors pass in such test, he will be exempted from appearing in SHE L1 training. This assessment is on nominal chargeable basis and rates are decided by TPSDI from time to time.

**10.0 Safety performance retention(R5) and Safety Performance Evaluation: 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. This is as per CSCC Document no TPSMS/GSP/ CSM/015**

The Tata Power Company Ltd	 	 	 	Appendix 3 to CSCC Safety Terms and Conditions
Document No. TPSMS/GSR/STC/009 REV 05				Date of Issue: 01/08/2023

*This safety retention shall be waived for Contractors who have either submitted a Contract Performance Bank Guarantee or have a retention from each running bill for an amount not less than 10% of each bill subject to the express undertaking / understanding that if there are any deductions required to be made for safety non-performance as per the Safety Performance Score, then Tata Power shall recover any such deductions against safety non-performance directly from the monthly bills / final settlement as the case may be failing which it shall be within its right to recover such sum from accounts payable or the CPBG or the retention of the Contractor available with Tata Power for the said contract or any other contract between the Contractor and Tata Power.*

### **11.0 Pre-Employment and Periodic Medical check-up:**

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

- Drivers (Check for Vision & Hearing)
- HEM Equipment Operators (Check for Vision & Hearing)
- Workforce working at Height (Check for Vision, Hearing, Vertigo & Height Phobia)
- Workforce Handling the hazardous substances - Coal, ash and chemicals (Chest X-ray and Lung Function T)
- Workforce in high Noise area (> 90 Decibel), Check for Hearing
- Workforce handling radiography equipment for conducting NDT.
- Workforce, working in specific areas requiring specific medical attention should conduct the medical tests test as laid down in the respective Site Safety Management Plan.

### **12.0 Other Conditions:**

- 12.1. The manpower/vehicles/Tools & Tackles/Equipment provided shall be as per mutually agreed SLA.
- 12.2. No Supervision No work policy should strictly be followed.
- 12.3. Test Before Touch must be ensured every time a job is being carried out in electrical network.
- 12.4. HIRA /JSA as per the job scope must be prepared in detail and submitted along with Site Safety Plan by the successful bidder.
- 12.5. Personal protective equipment (PPE) must always be checked before use to ensure that they are in good condition and clean. Replace them if necessary.
- 12.6. All relevant PPE shall be provided by the vendor while working at the site.
- 12.7. Housekeeping shall be maintained all the time while execution of work. All the unwanted material shall be removed from the site at the end of the day's work. Old/damaged parts if taken out of the system shall be kept at



The Tata Power Company Ltd	TPCODL	 <b>TATA</b>	TPNODL	Appendix 3 to CSCC Safety Terms and Conditions
Document No. TPSMS/GSR/STC/009 REV 05	TPSODL	<b>TATA POWER</b>	TPWODL	Date of Issue: 01/08/2023

identified placed and it shall be shifted to scrap yard or disposed of as per instruction of order manager.

- 12.8. Site Safety Plan shall be prepared by successful bidder along with order manger. Appendix 1 to be filled by successful bidder and submitted to Tata Power safety in-charge, before mobilization of team at site and start of the work.
- 12.9. The Owner or Proprietor of BA must visit worksite at least once in a month and meet Order Manager every month. In case of incidents, the Owner or Proprietor of BA is required to attend Time Out Meetings to understand the gaps that contributed to the incident.

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The Tata Power Company Ltd	 	 	 	Appendix 3 to CSCC Safety Terms and Conditions
Document No. TPSMS/GSR/STC/009 REV 05				Date of Issue: 01/08/2023

**General Safety Conditions for various contracts Specific to Odisha Discom(R5)**

**13.0. Safety Conditions for maintenance of STS (Sub Transmission System) Network.**

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:

- Availability of Discharge Rods - Minimum 6 Nos. in each maintenance vehicle, fit for purpose and in good conditions and defective rods are removed from service.
- Availability of Neon tester - Minimum one Neon Tester in each Maintenance Vehicle, in good and working condition and defective or non-standard neon testers are removed from service.
- Electrical hand Gloves - Minimum two sets of 33 KV and two sets of 11 KV in maintenance vehicles.
- The BA linemen must be having required ELBO certification for the voltage level involved.
- BA shall provide Safety Policy, Safety Objectives, Organogram showing structure and responsibility of Safety management of his company and shall document the work practices and procedures in terms of Safety Management.
- BA shall comply with all statutory requirements like applicable acts, regulations, codes of practice, OHSAS Standards, Labour laws, etc.
- The BA shall participate in Safety promotional activities like celebration of Lineman day on 4<sup>th</sup> March, National Fire Service Day on 14<sup>th</sup> April and Theme based safety campaigns undertaken by the Discoms every month.
- BA shall abide by Safety manuals and guidelines of Discom issued from time to time.
- BA shall ensure safety training and induction program for the employees. The BA employees must carry safety training card / competency card to the worksite and produce the card on demand.
- All BA employees must be given valid ID card issued by BA cell of Discom who will check statutory compliances before issuing ID cards.
- BA shall not employ a new workman without training and issue of ID card.
- BA shall conduct safety audits & inspections as per Discom procedures.
- BA shall provide proper PPEs as per CSM F-8 ensure periodic inspection of PPE, Tools and tackles to ensure their serviceability.
- BA shall ensure the adherence to standard operating procedures or guidelines laid down by the Discoms.
- BA shall ensure that no job shall be carried out without efficient supervision.
- BA shall ensure reporting of any unsafe act, unsafe conditions, near miss, incident, or accident to engineer in-charge and SAFETY team of the Discom.
- BA shall provide safety performance and Safety MIS to engineer in-charge and Discom 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 safety staff shall work as per the guidance of the Discom safety department and functionally report Safety Head of Discom. Any leaves by safety staff of the BA shall have to approved by Discom Safety Department.
- BA shall ensure to depute Safety Staff for managing safety in worksites. In case the BA has been awarded work in more than one area power system, then the following safety structure will be adopted.
- Safety manager and Safety engineer must be having PDIS or ADIS.

<b>The Tata Power Company Ltd</b>	     	<i>Appendix 3 to CSCC Safety Terms and Conditions</i>
<i>Document No. TPSMS/GSR/STC/009 REV 05</i>		<i>Date of Issue: 01/08/2023</i>



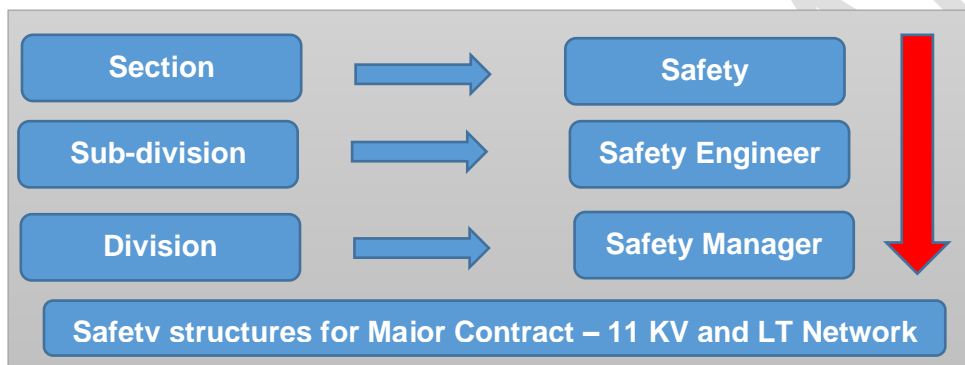
#### **14.0 Safety Conditions for maintenance of 11 KV and LT Network.**

A BA awarded a major contract work of maintenance of 11 KV and LT Network in area of a power system will be required to fulfil the following conditions:

- Availability of Discharge Rods - Minimum 6 Nos. in each PSS/FCC and maintenance vehicle, fit for purpose and in good conditions and defective rods are removed from service.
- Availability of Neon tester - Minimum one Neon Tester in each PSS/FCC/ Maintenance Vehicle, in good and working condition and defective or non-standard neon testers are removed from service.
- Electrical hand Gloves - Minimum two sets of 33 KV and two sets of 11 KV in each PSS/Maintenance vehicles and two sets of LT hand gloves at each FCC.
- The BA linemen must be having required ELBO certification for the voltage level involved.
- BA shall provide Safety Policy, Safety Objectives, Organogram showing structure and responsibility of Safety management of his company and shall document the work practices and procedures in terms of Safety Management.
- BA shall comply with all statutory requirements like applicable acts, regulations, codes of practice, OHSAS Standards, Labour laws, etc.
- BA shall abide by Safety manuals and guidelines of Discom issued from time to time.
- BA shall ensure safety training and induction program for the employees. The BA employees must carry safety training card / competency card to the worksite and produce the card on demand.
- All BA employees must be given valid ID card issued by BA cell of Discom who will check statutory compliances before issuing ID cards.
- BA shall not engage new workman without training and issue of ID card.
- PSS operator shall not be involved in maintenance activities.
- BA shall conduct safety audits & inspections as per Discom procedures.
- BA shall provide proper PPEs as per CSM F-8 ensure periodic inspection of PPE, Tools and tackles to ensure their serviceability.
- The BA shall participate in Safety promotional activities like celebration of Lineman day on 4<sup>th</sup> March, National Fire Service Day on 14<sup>th</sup> April and Theme based safety campaigns undertaken by the Discoms every month.
- BA to ensure that all LT complaints are routed through Call Centre and recorded in FCC. Rectification of fault shall be done only after call centre logging and with the knowledge of BA supervisor.
- No one will work alone or unsafely under public pressure or otherwise.
- BA shall ensure the adherence to standard operating procedures or guidelines laid down by the Discoms.
- BA shall ensure that no job shall be carried out without efficient supervision.

The Tata Power Company Ltd	 	 	 	Appendix 3 to CSCC Safety Terms and Conditions
Document No. TPSMS/GSR/STC/009 REV 05				Date of Issue: 01/08/2023

- BA shall ensure reporting of any unsafe act, unsafe conditions, near miss, incident, or accident to engineer in-charge and SAFETY team of the Discom.
- BA shall provide safety performance and Safety MIS to engineer in-charge and Discom 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 safety staff shall work as per the guidance of the Discom safety department and functionally report Safety Head of Discom. Any leaves by safety staff of the BA shall have to approved by Discom Safety Department.
- BA shall ensure to depute Safety Staff - One safety supervisor per section, One safety engineer per sub-division and one safety manager per Division Safety manager and Safety engineer must be having PDIS or ADIS.



#### 15.0 Safety Conditions for the major contract work in Civil Projects:

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

- BA shall provide Safety Policy, Safety Objectives, Organogram showing structure and responsibility of Safety management of his company and shall document the work practices and procedures in terms of Safety Management.
- BA shall comply with all statutory requirements like applicable acts, regulations, codes of practice, OHSAS Standards, Labour laws, etc.
- BA shall abide by Safety manuals and guidelines of Discom issued from time to time.
- BA shall ensure safety training and induction program for the employees. The BA employees must carry safety training card / competency card to the worksite and produce the card on demand.
- All BA employees must be given valid ID card issued by BA cell of Discom who will check statutory compliances before issuing ID cards.
- BA shall not employ a new workman without training and issue of ID card.
- BA shall conduct safety audits & inspections as per Discom procedures.
- BA shall provide proper PPEs as per CSM F-8 ensure periodic inspection of PPE, Tools and tackles to ensure their serviceability.
- BA shall ensure the adherence to standard operating procedures or guidelines laid down by the Discoms.
- BA shall ensure that no job shall be carried out without efficient supervision.
- BA shall ensure reporting of any unsafe act, unsafe conditions, near miss, incident, or accident to engineer in-charge and SAFETY team of the Discom.

The Tata Power Company Ltd		Appendix 3 to CSCC Safety Terms and Conditions
Document No. TPSMS/GSR/STC/009 REV 05		Date of Issue: 01/08/2023

- The BA shall participate in Safety promotional activities like celebration of Lineman day on 4<sup>th</sup> March, National Fire Service Day on 14<sup>th</sup> April and Theme based safety campaigns undertaken by the Discoms every month.
- BA shall provide safety performance and Safety MIS to engineer in-charge and Discom 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 safety staff shall work as per the guidance of the Discom safety department and functionally report Safety Head of Discom. Any leaves by safety staff of the BA shall have to approved by Discom Safety Department.
- BA shall refer Construction Safety Manual of the Discom for details.
- BA shall ensure to depute a Safety Supervisor (for workforce up to 100 at site) / a safety engineer (for workforce up to 250 at site) / safety manager (for more than two safety engineers) for managing safety at the project site. In case the BA has been awarded more than one major contracts, then the following safety structure will be adopted.
- Safety Engineers and Safety Managers must be having PDIS or ADIS.



**16.0 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, Safety Objectives, Organogram showing structure and responsibility of Safety management of his company and shall document the work practices and procedures in terms of Safety Management.
- BA shall comply with all statutory requirements like applicable acts, regulations, codes of practice, OHSAS Standards, Labour laws, etc.
- BA shall abide by Safety manuals and guidelines of Discom issued from time to time.
- BA shall ensure safety training and induction program for the employees. The BA employees must carry safety training card / competency card to the worksite and produce the card on demand.
- All BA employees must be given valid ID card issued by BA cell of Discom who will check statutory compliances before issuing ID cards.
- BA shall not employ a new workman without training and issue of ID card.
- BA shall conduct safety audits & inspections as per Discom procedures.
- The BA shall participate in Safety promotional activities like celebration of Lineman day on 4<sup>th</sup> March, National Fire Service Day on 14<sup>th</sup> April and Theme based safety campaigns undertaken by the Discoms every month.
- BA shall provide proper PPEs as per CSM F-8 ensure periodic inspection of PPE, Tools and tackles to ensure their serviceability.

The Tata Power Company Ltd	TPCODL		TPNODL	Appendix 3 to CSCC Safety Terms and Conditions
Document No. TPSMS/GSR/STC/009 REV 05	TPSODL		TPWODL	Date of Issue: 01/08/2023

- BA shall ensure the adherence to standard operating procedures or guidelines laid down by the Discoms.
- BA shall ensure that no job shall be carried out without efficient supervision.
- BA shall ensure reporting of any unsafe act, unsafe conditions, near miss, incident, or accident to engineer in-charge and SAFETY team of the Discom.
- BA shall provide safety performance and Safety MIS to engineer in-charge and Discom 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 safety staff shall work as per the guidance of the Discom safety department and functionally report Safety Head of Discom. Any leaves by safety staff of the BA shall have to be approved by Discom Safety Department.
- BA shall ensure to depute a Safety Supervisor for managing safety at worksite.
- The BA for the RRG work shall depute one Safety supervisor.



#### 17.0 Safety Conditions for Major Projects in Distribution Network

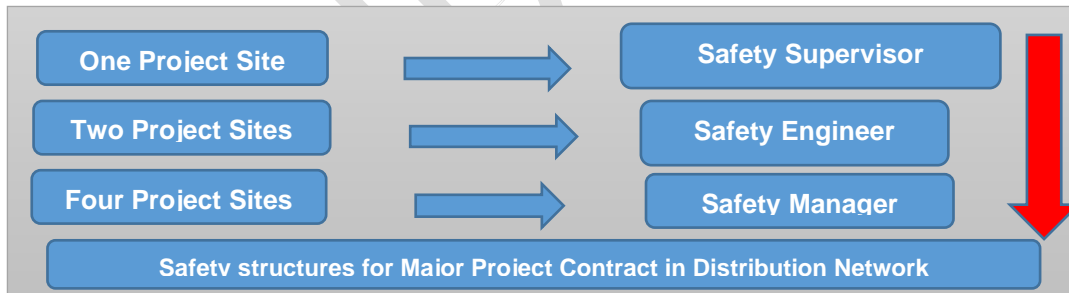
A BA awarded a major Projects in Distribution Network shall be required to fulfil the following conditions:

- Availability of Discharge Rods - Minimum 6 Nos. for each project site, fit for purpose and in good conditions and defective rods are removed from service.
- Availability of Neon tester - Minimum one Neon Tester in each project site, in good and working condition and defective or non-standard neon testers are removed from service.
- Electrical hand Gloves - Minimum one sets of 33 KV, 11 KV and LT in each project site.
- The BA linemen must be having required ELBO certification for the voltage level involved.
- BA shall provide Safety Policy, Safety Objectives, Organogram showing structure and responsibility of Safety management of his company and shall document the work practices and procedures in terms of Safety Management.
- BA shall comply with all statutory requirements like applicable acts, regulations, codes of practice, OHSAS Standards, Labour laws, etc.
- BA shall abide by Safety manuals and guidelines of Discom issued from time to time.
- BA shall ensure safety training and induction program for the employees. The BA employees must carry safety training card / competency card to the worksite and produce the card on demand.
- The BA shall participate in Safety promotional activities like celebration of Lineman day on 4<sup>th</sup> March, National Fire Service Day on 14<sup>th</sup> April and Theme based safety campaigns undertaken by the Discoms every month.
- All BA employees must be given valid ID card issued by BA cell of Discom who will check statutory compliances before issuing ID cards.
- BA shall not employ a new workman without training and issue of ID card.
- BA shall conduct safety audits & inspections as per Discom procedures.
- BA shall provide proper PPEs as per CSM F-8 ensure periodic inspection of PPE, Tools and tackles to ensure their serviceability.

- BA shall ensure the adherence to standard operating procedures or guidelines laid down by the Discoms.
- BA shall ensure that no job shall be carried out without efficient supervision.

Sr. No	Type of Audit	Frequency
1	Tool Bag and PPE audit	Weekly
2	First Aid Box Maintenance Record	Fortnightly
3	Fire Extinguisher Record (Applicable for the BA involved in major construction works and have storage of flammable material at worksite)	Monthly
4	Safety Talk Register	Weekly
5	Site Safety Audit	Daily

- BA shall ensure reporting of any unsafe act, unsafe conditions, near miss, incident, or accident to engineer in-charge and SAFETY team of the Discom.
- BA shall provide safety performance and Safety MIS to engineer in-charge and Discom 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.
- The BA shall participate in Safety promotional activities like celebration of Lineman day on 4th March, National Fire Service Day on 14th April and Theme based safety campaigns undertaken by the Discoms every month.
- BA safety staff shall work as per the guidance of the Discom safety department and functionally report Safety Head of Discom. Any leaves by safety staff of the BA shall have to approved by Discom Safety Department.
- BA shall ensure to depute Safety Staff for managing safety in worksites. One safety supervisor per project site or 100 persons, one safety engineer for 2 project sites of 250 persons, and one safety manager for four project sites or 500 persons.
- Safety manager and Safety engineer must be having PDIS or ADIS.



**18.0 Schedule of Safety Audits by BA Safety Staff**

**Safety Undertaking of BA 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

The Tata Power Company Ltd	 	 	 	Appendix 3 to CSCC Safety Terms and Conditions
Document No. TPSMS/GSR/STC/009 REV 05				Date of Issue: 01/08/2023

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 and shall be valid till the date of termination of the said contract by either party. 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 Discom to achieve its goal of Zero for 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 Discom specifically. , failing which Discom 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.
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, but any such replacement shall be only with the prior concurrence of the Discom representative.



The Tata Power Company Ltd	TPCODL	 <b>TATA</b>	TPNODL	Appendix 3 to CSCC Safety Terms and Conditions
Document No. TPSMS/GSR/STC/009 REV 05	TPSODL	 <b>TATA POWER</b>	TPWODL	Date of Issue: 01/08/2023

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 Discom 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 Discom / 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 Discom or to which Discom 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 Discom for any near miss or safety violations, accidents, which are attributable to fault of Contractor.

DEPONENT

VERIFICATION

Verified at .....on this \_Day of \_\_\_\_\_ 20\_\_ that the contents of the above affidavit are true and correct and nothing material has been concealed therefrom

CONFIDENTIAL

## Annexure-1 (Schedule of Items)

Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 1(BED Balasore) Supply-1,Supply-2				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C)
1	SP	Meter Installation - Single Phase	Installation of 1 phase energy meter with / without meter box. Static /BLE /Smart AMI	EA	12000				
2	SP	Installation of 2C*4 sq mm/2*6 sq mm /2 C* 10 SQMM armoured, Cable O/H (Length 7M-30M)	Stringing, sagging of armoured service cable size 2CX 4 sq mm /2Cx6 mm with length between 7m to 30m including installation of saddle, fastener for support and connection at pole /Required to Fix Height rising Channel,Angle With Anchor Fastener ,Nut & Bolts Supply Of Sundry Items Like Anchor Fastener ( M 12 ) and Nut Bolts will Be in BA Scope With in Service Cable Laying Cost ./Required to Fix Height rising Channel ,Angle With Anchor Fastener ,Nut & Bolts Supply Of Sundry Items Like Anchor Fastener ( M 12 ) and Nut Bolts will Be in BA Scope With in Service Cable Laying Cost .	EA	3000				
3	SP	Meter Removal - Single Phase	Removal of single phase meter without service cable.	EA	10000				
4	SP	Service Cable Removal of any size used for Single Ph connections	Removal of service cable of any size used for single Phase connections from pole/ LT Network.	EA	1000				
5	SP	SP Meter Box Replacement	Replacement only Meter box WC Meter (1 Ph) & Smart Meter Single Phase	EA	1000				
6	SP	SP Meter Shifting ( Without cable replacement)	Shifting of 1 ph Meters from inside to outside of premises ,height meters to 5 to 6 ft range and as per requirement (With out Cable Replacement )	EA	1000				
7	SP	SP Meter Shifting ( With cable replacement)	Shifting of 1 ph Meters from inside to outside of premises ,height meters to 5 to 6 ft range and as per requirement (With cable Replacement)	EA	1000				
8	PP	Meter Installation - Poly Phase Whole Current	Installation of Poly Phase whole current energy meter with / without meter box BLE/static /Smart AMI	EA	800				
9	PP	Installation of 4C*25 sq mm armoured, Cable O/H (Length 7M-30M)	Stringing, sagging of armoured service cable size 4CX 25 sq mm with length between 7m to 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble.	EA	250				
10	PP	Installation of 4C*6/4C*10 /4C*16 /Controc Cable Laying sq mm armoured, Cable O/H (Length 7M-30M)	Stringing, sagging of armoured service cable size 4CX 10 sq mm with length between 7m to 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble.	EA	75				
11	PP	Meter Removal - Poly Phase Whole Current	Removal of Poly Phase whole current meter with / without meter box.	EA	800				

Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 1(BED Balasore) Supply-1,Supply-2				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C)
12	PP	Service Cable Removal of any size used for Poly Phase connections	Removal of service cable of 4C X 10 sq mm(majorly) or any other size used for Poly Phase Whole Current connections from pole/ LT Network.	EA	400				
13	P/PP / LTC	Meter Accuracy test at site with Accucheck	Single Phase /Polyphase/LTCT Meter Testing with Accucheck (Will be provided by TPNODL) to be done.	EA	400				
14	SP/PP	Supply and Installation of wall corner clamp	Supply and Installation of Wall Corner Clamp. Consumables i.e. fastener etc. shall be in the scope of BA	EA	300				
15	SP/PP	Supply and Installation of Stand pipe for maintaining the Sagging.	Supply and Installation of Stand pipe for maintaining the Sagging. (LT GI Pipe for Service Line Support as per REC / TPNODL standard)	EA	2800				
16	SP/PP	Bus bar Installation	Installation of any type of bus bar box ( 2 Way & 4 Way etc ) on wall / Pole along with supply of fasteners, steel strap and buckles. (Fastener / Steel strap shall be supplied by BA)	EA	50				
17	SP/PP	Prefabricated GI Structure (Supply Item) / kg	Supply & Installation of Prefabricated / GI structural angle/ channel / flats of different sizes, as per the site requirement	Kg	500				
18	SP/PP	Installation of Bracket Angle/ service anchor/ suspension clamp/ slotted angle	Installation of GI Bracket for Anchoring service cable of size 50, 95 & 150 sqmm / Installation of Service Cable Anchor / Installation of Slotted angle on pole in case of 2x10/4x10/4x25 cable lying, on uncleaned poles. (Number of items used at one site shall be considered for billing).	EA	1000				
19	SP/PP	Loop Connection for service cable size 2C X 4 sq mm/ 2C X 10 sq mm/ 4C X 10 sq mm/ 4C X 25 sq mm with length ≤ 6 M	Stringing of loop connection ( length ≤ 6 meter ) for service cable size 2C X 4 sq mm/ 2C X 10 sq mm/ 4C X 10 sq mm/ 4C X 25 sq mm.	EA	100				
20	PP/DT	Distribution box/ Busbar work	Bus bar/Distribution Box Installation: Installation of any type of bus bar box on wall / Pole along with supply of fasteners, steel strap and buckles. (Fastener / Steel strap shall be supplied by BA)	EA	500				
21	PP/DT	Distribution box/ Busbar work	Bus bar/Distribution Box Removal	EA	500				
22	PP/DT	Meter Box Replacement	Replacement only Meter box WC Meter (3 Ph)	EA	500				
23	PP/DT	Meter Box Replacement	Replacement only Meter box LTCT Meter	EA	500				
24	PP/DT	Meter shifting work	Shifting of 3 ph WC Meters from inside to outside of premises ,height meters to 5 to 6 ft range and as per requirement.	EA	500				
25	PP/DT	Transportation	Hiring of Crane for Cubical and other related work (Rate/Hr)	EA	10				

Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 1(BED Balasore) Supply-1,Supply-2				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C)
26	LTCT	Static / Smart installation along with Meter Box and connection for CT / PT	Installation of Static / Smart meters along with ring type CT, Meter Box, and associated accessories on LT side of transformers.	EA	10				
27	LTCT	Installation of 4C*95 / 4C X 150 sq mm armoured service cable, O/H (Length up to 30M)	Stringing, sagging of armoured service cable size 4CX 95 sq mm / 4C X 150 sq mm with length upto 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble. (Saddles and Fastners are to be supplied by BA)	EA	25				
28	LTCT	Installation of LTCT Meter with Resign cast CT box (For 100/5 Amps & 200/5 Amps)	Installation, energisation along with communication of new LTCT meters with resin cast CT box and allied accessories. The activity includes supply of 8 Nos of lugs and its crimping on Service cable and connections, Complete grouting of meter box, Communication check of meter with back end server. Earthing also needs to be extended using armour of cable from pole to inside the meter box using suitable size of lugs. (These lugs will also be in scope of supply of BA.)	EA	100				
29	LTCT	Meter Replacement - LTCT Meter Only without box replacement.	Replacement of LTCT meter/ LTCT Smart meter of any rating i.e. 100/5A or 200/5A or 400/5A without box	EA	25				
30	LTCT	Fault rectification in CT Meter pertaining to termination/LT Cable dressing.	Fault rectification includes termination (thimble / socket crimping, gland change, cable lead extension crimping and tightening) and cable dressing.	EA	25				
31	LTCT	LTCT Meter with box Removal - All Rating	Removal of any LTCT meter from site with de-energisation, Meter, modem and its allied accessories with meter box.	EA	25				
32	HT	Meter Accuracy test at site (HTCT)--	HTCT Meter Testing to be done at site. Testing kit will be provided by TPNODL.	EA	50				
33	HT	CTPT / Metering cubicle Installation	Installation of new HT 11 KV Metering cubicle / CTPT unit. The activity includes to & fro transportation, commissioning, energisation of unit in all respect (i.e. connections of CTPT / Metering cubicle , fixing of complete Unit, necessary masonry work, grouting, Cable terminations, control cable connections, socket/thimble crimp , earthing connections, vermin proofing if any) . Note : Loading, Unloading, Installation of CT PT unit, Metering Cubicle at store, site through crane will be included in this cost.	EA	30				

Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 1(BED Balasore) Supply-1,Supply-2				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C)
34	HT	Pole mounted CTPT Installation	Installation of new HT 11 KV out door Metering CTPT unit, includes to & fro transportation, commissioning and energisation in all respect (i.e. connection in meter box from CTPT terminal block through control cable, pole mount CTPT unit erected at 30' height. Fix and Bolt CTPT unit, stand pipe flange, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CTPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door).	EA	30				
35	HT	Meter Installation - HT Meter Only--	Installation of any HT energy meter along with modem and its termination in Metering cubicle / CTPT unit. This will include removal of existing energy meter if installed. HT team will take care of metering activities of falling under the geographical area of Circle. This rate will include travelling up to an average of 50 KM / case/ month (including to and fro). Any travel beyond an avg. of 50 KM / cases / Month will be paid in the lot of 50 KM basis over and above the rates quoted per activity. BA to quote rate for additional travel / 50 KM during any month.	EA	40				
36	HT	Replacement of only HT meter chamber at PMSS OR Replacement / Shifting of control cable pipe with meter chamber for CTPT unit--circlewise	Replacement of HT Metering chamber of HT 11 KV out door Metering CTPT unit, replacement of control cable pipe , energy meter and allied accessories include to & fro transportation, commissioning and energisation in all respect (i.e. reconnection in meter box from CTPT terminal block through control cable, stand pipe flange replacement, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CTPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door). Note : Loading, Unloading, Installation of CT PT unit, Metering Cubicle at store, site through crane will be included in this cost.	EA	20				
37	HT	CTPT / Metering cubicle Removal	Dismantling of complete HT CTPT / Metering Cubicle unit which includes to & fro transportation, complete removal and de-energisation in all respect (i.e. disconnection in all respect, removal of control cable, ends termination removal and all accessories removal) Note : Loading, Unloading, Installation of CT PT unit, Metering Cubicle at store, site through crane will be included in this cost.	EA	10				

Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 1(BED Balasore) Supply-1,Supply-2				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C )
38	HT	Travel in HT Meter Installation - (Travel charges in lot of 50 KM)	Rate for travel of HT Vehicle for additional travel in lot of 50 KM (over and above which is covered in Sr. No 27 / 28 /29 /30 ) for a month. Rate for 50 KM additional mileage after rounding off to be charged. If more than one activity is performed at one site at a time, then this cost to be charged against only one activity.	Lot size of 50 KM each	30				
39	HT	Pole mounted CTPT Removal	Dismantling of complete HT metering out door CTPT unit, includes to & fro transportation, removing and de-energisation in all respect (i.e. connection from meter box from CTPT terminal block through control cable, pole mount CTPT unit erected at 30' height. Fix and Bolt CTPT unit, stand pipe flange, two earth connections, HT cable ends termination removal, socket/ thimble crimp, stand pipe flanges removal, meter terminal cover, window and chamber door removal from site).	EA	10				
40	HT	CTPT / Metering cubicle Installation	Installation of new HT 33 KV Metering cubicle / CTPT unit. The activity includes to & fro transportation, commissioning, energisation of unit in all respect (i.e. connections of CTPT / Metering cubicle , fixing of complete Unit, necessary masonry work, grouting, Cable terminations, control cable connections, socket/thimble crimp , earthing connections, vermin proofing if any) . Note : Loading, Unloading, Installation of CT PT unit, Metering Cubicle at store, site through crane will be included in this cost.	EA	30				
41	HT	Pole mounted CTPT Installation	Installation of new HT 33 KV out door Metering CTPT unit, includes to & fro transportation, commissioning and energisation in all respect (i.e. connection in meter box from CTPT terminal block through control cable, pole mount CTPT unit erected at 30' height. Fix and Bolt CTPT unit, stand pipe flange, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CTPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door).	EA	30				

Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 1(BED Balasore) Supply-1,Supply-2				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C)
42	HT	Replacement of only HT meter chamber at PMSS OR Replacement / Shifting of control cable pipe with meter chamber for CTPT unit--circlewise	Replacement of HT Metering chamber of HT 33 KV out door Metering CTPT unit, replacement of control cable pipe , energy meter and allied accessories include to & fro transportation, commissioning and energisation in all respect (i.e. reconnection in meter box from CTPT terminal block through control cable, stand pipe flange replacement, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CTPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door). Note : Loading, Unloading, Installation of CT PT unit, Metering Cubicle at store, site through crane will be included in this cost.	EA	20				
43	HT	Pole mounted CTPT Removal	Dismantling of complete 33 KV HT metering out door CTPT unit, includes to & fro transportation, removing and de-energisation in all respect (i.e. connection from meter box from CTPT terminal block through control cable, pole mount CTPT unit erected at 30' height. Fix and Bolt CTPT unit, stand pipe flange, two earth connections, HT cable ends termination removal, socket/ thimble crimp, stand pipe flanges removal, meter terminal cover, window and chamber door removal from site).	EA	10				
44	HT/DT	DP Structure Related	Supply and Installation of 11KV complete DP Structure 9Mtr including pressure channel, MU mounting channel, Angle, Stay set, GI pipe, Complete Concreting, Base plating, etc. including supply of material & transportation (Supply of Pole Excluded).	EA	10				
45	HT/DT	DP Structure Related	Replacement of 11KV complete DP Structure 9Mtr including pressure channel, MU mounting channel, Angle, Stay set, GI pipe, Complete Concreting, Base plating, etc. including supply of material & transportation,	EA	10				
46	HT/DT	DP Structure Related	Removal of 11KV complete DP Structure 9Mtr including pressure channel, MU mounting channel, Angle, Stay set, GI pipe, Complete Concreting, Base plating, etc. including transportation.	EA	10				
47	HT/DT	DP Structure Related	Supply and Installation of 33KV complete DP Structure 9Mtr including pressure channel, MU mounting channel, Angle, Stay set, GI pipe, Complete Concreting, Base plating, earthing etc. including supply of material & transportation (Supply of Pole Excluded).	EA	10				
48	HT/DT	DP Structure Related	Replacement of 33KV complete DP Structure 9Mtr including pressure channel, MU mounting channel, Angle, Stay set, GI pipe, Complete Concreting, Base plating, earthing, etc. including supply of material & transportation.	EA	10				

Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 1(BED Balasore) Supply-1,Supply-2				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C )
49	HT/DT	DP Structure Related	Removal of 33KV complete DP Structure 9Mtr including pressure channel, MU mounting channel, Angle, Stay set, GI pipe, Complete Concreting, Base plating, earthing, etc. including transportation	EA	10				
50	FSE	FSE- New Connection	Site verification of new connection with capturing of details as mentioned in site verification form and capturing photographs. Further submission of SVR and file at respective division office.	EA	1000				
51	FSE	FSE - Attribute Change	Site verification Attribute case with capturing of details as mentioned in Attribute Change form and capturing photographs. Further submission of SVR and file at respective division office.	EA	1000				
52	FSE	FSE - SVR Dues/Meter Reading cross check.	Site verification for confirmation of dues with capturing of details as mentioned in dues verification form and capturing photographs. Further submission of SVR and file at respective division office.	EA	500				
53	DD	Data Downloading from Meter (Single Phase )	Data downloading of Meter data after opening of meter box seals and thereafter resealing it. Including DT Meter Reading	EA	500				
54	DD	Data Downloading from Meter (Three Phase/Poly Phase /DT Metering )	Data downloading of Meter data after opening of meter box seals and thereafter resealing it. Including DT Meter Reading	EA	10752				
55	DD	Manul Meter Reading and SVR (Three Phase /Poly Phase/DT Metering)	Taking manual reading parameters from meter display, providing remarks with photographs where data can not be downloaded for reason not attributable to BA, Prepare SVR Against OK Meter in site but Faulty Meter recorded in TPNODL Ledger	EA	2688				
56	MTS	Modem Trouble Shooting activity/Smart Meter Nickcard Replacement & Trouble Shooting	Replacement of faulty modem with healthy modem/Smart Meter Nick card after opening of meter box by removing seals. Coordination with communication testing desk at back office and after ensuring communication, repealing of meter box.	EA	350				
57	MTS	Return Cases - of Modem TS	Return Case of Modem Troubleshooting cases where site visit has been done and modem could not be rectified due to reasons not attributable to BA. The activity include pasting notice , providing photograph of site.	EA	50				
58	SP	Return Cases - SP meter installation	Return Case of New connection and meter replacement cases where site visit has been done and meter could not be installed due to reasons not attributable to BA. The activity include pasting notice, providing photograph of site / meter, Reading and other details of meter. Address not traceable cases will not be included .	EA	1000				



Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 1(BED Balasore) Supply-1,Supply-2				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C)
59	SP	Shifting of Meters (New / old) from Central store to site store or Site store to Central store. (Bidder has to provide vehicle and sufficient manpower for shifting of Meters/Meter Boxes /accessories from Central Store to respective Division / sub division. The activity include loading and unloading of material at designated locations/stores. Meter LOT size shall be 1000 meters For New Meter 2000 Meter for Scarp Old Meter . Otherthen Define lot Rate will be provided in prorate Basis.	Up to 50 Km		20				
			Up to 100 Km		10				
			Up to 150 Km						
			Up to 200 Km						
			Above 200 Km	EA					
60	SP	Shifting of Cable from Central store to site store or Site store to Central store. Bidder has to provide vehicle and sufficient manpower for shifting of cable . The activity include loading and unloading of material at designated locations/stores. LOT size shall be 6Km for 2*4 sqmm/2*6 MM cable/ any 2 core cable.Otherthen Define lot Rate will be provided in prorate Basis.	Up to 50 Km		20				
			Up to 100 Km		10				
			Up to 150 Km						
			Up to 200 Km						
			Above 200 Km	EA					
61	Protocol Punching	Punching of Protocols for field activities Protal entry In Protal Or Installation Data Capatauring IN MY MMG Mobile Application	Bidder has to punch protocol or Installation Details capturing In MY MMG Mobile APP for Meter installation (Both Single Phase and Three Phase activity/Modem Installation / rectification / Meter Testing (HT and LT) activity / data downloading activity, with 5% QC	EA	13000				

Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 1(BED Balasore) Supply-1,Supply-2				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C )
62	DT Metering	Static / Smart /DT Meter installation along with Meter Box and connection for CT / PT	Installation of DT meters 800/400/200/5A, installation of ring type CT, Meter Box, and associated accessories on LT side of transformers Incl Electrical Power Cable/Control Cable Laying & Termination	EA	800				
63	DT Metering	Static / Smart /DT Meter removal along with Meter Box	Removal of any DT meter from site with De energisation of Meter, Modem and its allied accessories	EA	200				
64	DT Metering	Static / Smart /DT Meter installation along with Meter Box and Complete Electrical connection	Installation of Static / Smart /DT Meter meters, along with Meter Box, Mounting Arrangement Installation and associated accessories on LT side of transformers.	EA	200				
65	DT Metering	Concreting of Prefabricated GI Structure base by Cement, Sand & Chips Grade M40	Supply of Cement, Sand & Chips, digging of hole Labour as per the site requirement	EA	200				
66	DT Metering	GI Nut, bolts & washer \	Supply of GI Nut, bolts & washer as per the site requirement M10 -M20	KG	200				
67	DT Metering	Installation of 1C*95 , 1C X 150, 1C*300, sq mm from Tr. LT side through meters.	Installation of cable from Meter To Source Vice Varsa Upto 6- 40 MTR	EA	200				
68	DT Metering	DT Meter with box Removal - All Rating	Removal of any DT meter from site with de-energisation, Meter, modem and its allied accessories with meter box.	EA	200				
69	DT Metering	Modem Installation	Replacement of faulty modem with healthy modem after opening of meter box by removing seals. Coordination with communication testing desk at back office and after ensuring communication, resealing of meter box.	EA	200				
70	DT Metering	Return Cases - of Modem TS	Return Case of Modem Troubleshooting cases where site visit has been done and modem could not be rectified due to reasons not attributable to BA. The activity include pasting notice , providing photograph of site.	EA	200				
71	DT Metering	Shifting of Meter from Central store to respective Division / Sub division.	Bidder has to provide vehicle and sufficient manpower for shifting of Meters/accessories from Central Store to respective Division / sub division The activity include loading and unloading of material at designated locations/stores. Meter LOT size shall be 100 meters. (Quantity mentioned in number of to and fro trips). Separate rate to be quoted for the distance range 1-50 Km, 51-100 Km, 100-150 Km, 150-200 Km, & above 200 Kms	EA	200				

Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 1(BED Balasore) Supply-1,Supply-2				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C)
72	DT Metering	Meter & Channel Earthing	Earthing of the meter and meter channel	EA	800				
<b>Total all inclusive Amount for First year (Year -1)</b>					<b>Total Amount For Year 1</b>				.....
<b>Percentage (%) escalation for Second year (Year 2) (The % escalation shall be applicable on unit rate of all service line item for second year)</b>					..... %				
<b>Total all inclusive Amount for Second year (Year -2)</b>					<b>Total Amount For Year 2</b>				.....
<b>Total Overall all inclusive value for Year 1 and Year 2 ( in Rs.)</b>					<b>Rs. ....</b>				
<p>Note -The bids shall be evaluated commercially on the overall lowest cost for each Divison Set <u>for both years</u>. Therefore bidders are advised to quote their best price for year 1 and best % escalation for year 2 as well.</p>									

Abbreviations	
SP	Single Phase
PP	Poly Phase
LT CT	Low Tension Current Transformer Operated Meters
DT Metering	Distribution TRf Metering
HT CT	High Tension Current Transformer Operated Meters
FSC	Field Service Executive
DD	Data Download
MTS	Modem Trouble Shooting
SVR	Survey
BA	Business Associate / Vendor / Bidder

## Annexure-1 (Schedule of Items)

Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 2(CED Balasore) RE-1,RE-2, Nilgiri				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C)
1	SP	Meter Installation - Single Phase	Installation of 1 phase energy meter with / without meter box. Static /BLE /Smart AMI	EA	25000				
2	SP	Installation of 2C*4 sq mm/2*6 sq mm /2 C* 10 SQMM armoured, Cable O/H (Length 7M-30M)	Stringing, sagging of armoured service cable size 2CX 4 sq mm /2Cx6 mm with length between 7m to 30m including installation of saddle, fastener for support and connection at pole /Required to Fix Height rising Channel,Angle With Anchor Fastener ,Nut & Bolts Supply Of Sundry Items Like Anchor Fastener ( M 12 ) and Nut Bolts will Be in BA Scope With in Service Cable Laying Cost ./Required to Fix Height rising Channel ,Angle With Anchor Fastener ,Nut & Bolts Supply Of Sundry Items Like Anchor Fastener ( M 12 ) and Nut Bolts will Be in BA Scope With in Service Cable Laying Cost .	EA	3000				
3	SP	Meter Removal - Single Phase	Removal of single phase meter without service cable.	EA	20000				
4	SP	Service Cable Removal of any size used for Single Ph connections	Removal of service cable of any size used for single Phase connections from pole/ LT Network.	EA	1000				
5	SP	SP Meter Box Replacement	Replacement only Meter box WC Meter (1 Ph) & Smart Meter Single Phase	EA	1000				
6	SP	SP Meter Shifting ( Without cable replacement)	Shifting of 1 ph Meters from inside to outside of premises ,height meters to 5 to 6 ft range and as per requirement (With out Cable Replacement )	EA	1000				
7	SP	SP Meter Shifting ( With cable replacement)	Shifting of 1 ph Meters from inside to outside of premises ,height meters to 5 to 6 ft range and as per requirement (With cable Replacement)	EA	1000				
8	PP	Meter Installation - Poly Phase Whole Current	Installation of Poly Phase whole current energy meter with / without meter box BLE/static /Smart AMI	EA	900				
9	PP	Installation of 4C*25 sq mm armoured, Cable O/H (Length 7M-30M)	Stringing, sagging of armoured service cable size 4CX 25 sq mm with length between 7m to 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble.	EA	150				
10	PP	Installation of 4C*6/4C*10 /4C*16 /Controc Cable Laying sq mm armoured, Cable O/H (Length 7M-30M)	Stringing, sagging of armoured service cable size 4CX 10 sq mm with length between 7m to 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble.	EA	75				
11	PP	Meter Removal - Poly Phase Whole Current	Removal of Poly Phase whole current meter with / without meter box.	EA	700				

Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 2(CED Balasore) RE-1,RE-2, Nilgiri				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C)
12	PP	Service Cable Removal of any size used for Poly Phase connections	Removal of service cable of 4C X 10 sq mm(majorly) or any other size used for Poly Phase Whole Current connections from pole/ LT Network.	EA	100				
13	P/PP / LTC	Meter Accuracy test at site with Accucheck	Single Phase /Polyphase/LTCT Meter Testing with Accucheck (Will be provided by TPNODL) to be done.	EA	400				
14	SP/PP	Supply and Installation of wall corner clamp	Supply and Installation of Wall Corner Clamp. Consumables i.e. fastener etc. shall be in the scope of BA	EA	300				
15	SP/PP	Supply and Installation of Stand pipe for maintaining the Sagging.	Supply and Installation of Stand pipe for maintaining the Sagging. (LT GI Pipe for Service Line Support as per REC / TPNODL standard)	EA	2800				
16	SP/PP	Bus bar Installation	Installation of any type of bus bar box ( 2 Way & 4 Way etc ) on wall / Pole along with supply of fasteners, steel strap and buckles. (Fastener / Steel strap shall be supplied by BA)	EA	100				
17	SP/PP	Prefabricated GI Structure (Supply Item) / kg	Supply & Installation of Prefabricated / GI structural angle/ channel / flats of different sizes, as per the site requirement	Kg	500				
18	SP/PP	Installation of Bracket Angle/ service anchor/ suspension clamp/ slotted angle	Installation of GI Bracket for Anchoring service cable of size 50, 95 & 150 sqmm / Installation of Service Cable Anchor / Installation of Slotted angle on pole in case of 2x10/4x10/4x25 cable lying, on uncleaned poles. (Number of items used at one site shall be considered for billing).	EA	1400				
19	SP/PP	Loop Connection for service cable size 2C X 4 sq mm/ 2C X 10 sq mm/ 4C X 10 sq mm/ 4C X 25 sq mm with length ≤ 6 M	Stringing of loop connection ( length ≤ 6 meter ) for service cable size 2C X 4 sq mm/ 2C X 10 sq mm/ 4C X 10 sq mm/ 4C X 25 sq mm.	EA	100				
20	PP/DT	Distribution box/ Busbar work	Bus bar/Distribution Box Installation: Installation of any type of bus bar box on wall / Pole along with supply of fasteners, steel strap and buckles. (Fastener / Steel strap shall be supplied by BA)	EA	600				
21	PP/DT	Distribution box/ Busbar work	Bus bar/Distribution Box Removal	EA	600				
22	PP/DT	Meter Box Replacement	Replacement only Meter box WC Meter (3 Ph)	EA	600				
23	PP/DT	Meter Box Replacement	Replacement only Meter box LTCT Meter	EA	600				
24	PP/DT	Meter shifting work	Shifting of 3 ph WC Meters from inside to outside of premises ,height meters to 5 to 6 ft range and as per requirement.	EA	600				
25	PP/DT	Transportation	Hiring of Crane for Cubical and other related work (Rate/Hr)	EA	10				

Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 2(CED Balasore) RE-1,RE-2, Nilgiri				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C)
26	LTCT	Static / Smart installation along with Meter Box and connection for CT / PT	Installation of Static / Smart meters along with ring type CT, Meter Box, and associated accessories on LT side of transformers.	EA	10				
27	LTCT	Installation of 4C*95 / 4C X 150 sq mm armoured service cable, O/H (Length up to 30M)	Stringing, sagging of armoured service cable size 4CX 95 sq mm / 4C X 150 sq mm with length upto 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble. (Saddles and Fastners are to be supplied by BA)	EA	25				
28	LTCT	Installation of LTCT Meter with Resign cast CT box (For 100/5 Amps & 200/5 Amps)	Installation, energisation along with communication of new LTCT meters with resin cast CT box and allied accessories. The activity includes supply of 8 Nos of lugs and its crimping on Service cable and connections, Complete grouting of meter box, Communication check of meter with back end server. Earthing also needs to be extended using armour of cable from pole to inside the meter box using suitable size of lugs. (These lugs will also be in scope of supply of BA.)	EA	100				
29	LTCT	Meter Replacement - LTCT Meter Only without box replacement.	Replacement of LTCT meter/ LTCT Smart meter of any rating i.e. 100/5A or 200/5A or 400/5A without box	EA	25				
30	LTCT	Fault rectification in CT Meter pertaining to termination/LT Cable dressing.	Fault rectification includes termination (thimble / socket crimping, gland change, cable lead extension crimping and tightening) and cable dressing.	EA	25				
31	LTCT	LTCT Meter with box Removal - All Rating	Removal of any LTCT meter from site with de-energisation, Meter, modem and its allied accessories with meter box.	EA	25				
32	HT	Meter Accuracy test at site (HTCT)--	HTCT Meter Testing to be done at site. Testing kit will be provided by TPNODL.	EA	50				
33	HT	CTPT / Metering cubicle Installation	Installation of new HT 11 KV Metering cubicle / CTPT unit. The activity includes to & fro transportation, commissioning, energisation of unit in all respect (i.e. connections of CTPT / Metering cubicle , fixing of complete Unit, necessary masonry work, grouting, Cable terminations, control cable connections, socket/thimble crimp , earthing connections, vermin proofing if any) . Note : Loading, Unloading, Installation of CT PT unit, Metering Cubicle at store, site through crane will be included in this cost.	EA	30				

Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 2(CED Balasore) RE-1,RE-2, Nilgiri				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C)
34	HT	Pole mounted CTPT Installation	Installation of new HT 11 KV out door Metering CTPT unit, includes to & fro transportation, commissioning and energisation in all respect (i.e. connection in meter box from CTPT terminal block through control cable, pole mount CTPT unit erected at 30' height. Fix and Bolt CTPT unit, stand pipe flange, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CTPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door).	EA	30				
35	HT	Meter Installation - HT Meter Only--	Installation of any HT energy meter along with modem and its termination in Metering cubicle / CTPT unit. This will include removal of existing energy meter if installed. HT team will take care of metering activities of falling under the geographical area of Circle. This rate will include travelling up to an average of 50 KM / case/ month (including to and fro). Any travel beyond an avg. of 50 KM / cases / Month will be paid in the lot of 50 KM basis over and above the rates quoted per activity. BA to quote rate for additional travel / 50 KM during any month.	EA	40				
36	HT	Replacement of only HT meter chamber at PMSS OR Replacement / Shifting of control cable pipe with meter chamber for CTPT unit--circlewise	Replacement of HT Metering chamber of HT 11 KV out door Metering CTPT unit, replacement of control cable pipe , energy meter and allied accessories include to & fro transportation, commissioning and energisation in all respect (i.e. reconnection in meter box from CTPT terminal block through control cable, stand pipe flange replacement, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CTPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door). Note : Loading, Unloading, Installation of CT PT unit, Metering Cubicle at store, site through crane will be included in this cost.	EA	20				
37	HT	CTPT / Metering cubicle Removal	Dismantling of complete HT CTPT / Metering Cubicle unit which includes to & fro transportation, complete removal and de-energisation in all respect (i.e. disconnection in all respect, removal of control cable, ends termination removal and all accessories removal) Note : Loading, Unloading, Installation of CT PT unit, Metering Cubicle at store, site through crane will be included in this cost.	EA	10				

Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 2(CED Balasore) RE-1,RE-2, Nilgiri				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C)
38	HT	Travel in HT Meter Installation - (Travel charges in lot of 50 KM)	Rate for travel of HT Vehicle for additional travel in lot of 50 KM (over and above which is covered in Sr. No 27 / 28 /29 /30 ) for a month. Rate for 50 KM additional mileage after rounding off to be charged. If more than one activity is performed at one site at a time, then this cost to be charged against only one activity.	Lot size of 50 KM each	30				
39	HT	Pole mounted CTPT Removal	Dismantling of complete HT metering out door CTPT unit, includes to & fro transportation, removing and de-energisation in all respect (i.e. connection from meter box from CTPT terminal block through control cable, pole mount CTPT unit erected at 30' height. Fix and Bolt CTPT unit, stand pipe flange, two earth connections, HT cable ends termination removal, socket/ thimble crimp, stand pipe flanges removal, meter terminal cover, window and chamber door removal from site).	EA	10				
40	HT	CTPT / Metering cubicle Installation	Installation of new HT 33 KV Metering cubicle / CTPT unit. The activity includes to & fro transportation, commissioning, energisation of unit in all respect (i.e. connections of CTPT / Metering cubicle , fixing of complete Unit, necessary masonry work, grouting, Cable terminations, control cable connections, socket/thimble crimp , earthing connections, vermin proofing if any) . Note : Loading, Unloading, Installation of CT PT unit, Metering Cubicle at store, site through crane will be included in this cost.	EA	30				
41	HT	Pole mounted CTPT Installation	Installation of new HT 33 KV out door Metering CTPT unit, includes to & fro transportation, commissioning and energisation in all respect (i.e. connection in meter box from CTPT terminal block through control cable, pole mount CTPT unit erected at 30' height. Fix and Bolt CTPT unit, stand pipe flange, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CTPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door).	EA	30				



Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 2(CED Balasore) RE-1,RE-2, Nilgiri				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C)
42	HT	Replacement of only HT meter chamber at PMSS OR Replacement / Shifting of control cable pipe with meter chamber for CTPT unit--circlewise	Replacement of HT Metering chamber of HT 33 KV out door Metering CTPT unit, replacement of control cable pipe , energy meter and allied accessories include to & fro transportation, commissioning and energisation in all respect (i.e. reconnection in meter box from CTPT terminal block through control cable, stand pipe flange replacement, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CTPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door). Note : Loading, Unloading, Installation of CT PT unit, Metering Cubicle at store, site through crane will be included in this cost.	EA	3				
43	HT	Pole mounted CTPT Removal	Dismantling of complete 33 KV HT metering out door CTPT unit, includes to & fro transportation, removing and de-energisation in all respect (i.e. connection from meter box from CTPT terminal block through control cable, pole mount CTPT unit erected at 30' height. Fix and Bolt CTPT unit, stand pipe flange, two earth connections, HT cable ends termination removal, socket/ thimble crimp, stand pipe flanges removal, meter terminal cover, window and chamber door removal from site).	EA	10				
44	HT/DT	DP Structure Related	Supply and Installation of 11KV complete DP Structure 9Mtr including pressure channel, MU mounting channel, Angle, Stay set, GI pipe, Complete Concreting, Base plating, etc. including supply of material & transportation (Supply of Pole Excluded).	EA	10				
45	HT/DT	DP Structure Related	Replacement of 11KV complete DP Structure 9Mtr including pressure channel, MU mounting channel, Angle, Stay set, GI pipe, Complete Concreting, Base plating, etc. including supply of material & transportation,	EA	10				
46	HT/DT	DP Structure Related	Removal of 11KV complete DP Structure 9Mtr including pressure channel, MU mounting channel, Angle, Stay set, GI pipe, Complete Concreting, Base plating, etc. including transportation.	EA	10				
47	HT/DT	DP Structure Related	Supply and Installation of 33KV complete DP Structure 9Mtr including pressure channel, MU mounting channel, Angle, Stay set, GI pipe, Complete Concreting, Base plating, earthing etc. including supply of material & transportation (Supply of Pole Excluded).	EA	10				
48	HT/DT	DP Structure Related	Replacement of 33KV complete DP Structure 9Mtr including pressure channel, MU mounting channel, Angle, Stay set, GI pipe, Complete Concreting, Base plating, earthing, etc. including supply of material & transportation.	EA	10				

Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 2(CED Balasore) RE-1,RE-2, Nilgiri				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C)
49	HT/DT	DP Structure Related	Removal of 33KV complete DP Structure 9Mtr including pressure channel, MU mounting channel, Angle, Stay set, GI pipe, Complete Concreting, Base plating, earthing, etc. including transportation	EA	10				
50	FSE	FSE- New Connection	Site verification of new connection with capturing of details as mentioned in site verification form and capturing photographs. Further submission of SVR and file at respective division office.	EA	1000				
51	FSE	FSE - Attribute Change	Site verification Attribute case with capturing of details as mentioned in Attribute Change form and capturing photographs. Further submission of SVR and file at respective division office.	EA	1000				
52	FSE	FSE - SVR Dues/Meter Reading cross check.	Site verification for confirmation of dues with capturing of details as mentioned in dues verification form and capturing photographs. Further submission of SVR and file at respective division office.	EA	600				
53	DD	Data Downloading from Meter (Single Phase )	Data downloading of Meter data after opening of meter box seals and thereafter resealing it. Including DT Meter Reading	EA	600				
54	DD	Data Downloading from Meter (Three Phase/Poly Phase /DT Metering )	Data downloading of Meter data after opening of meter box seals and thereafter resealing it. Including DT Meter Reading	EA	17856				
55	DD	Manul Meter Reading and SVR (Three Phase /Poly Phase/DT Metering)	Taking manual reading parameters from meter display, providing remarks with photographs where data can not be downloaded for reason not attributable to BA, Prepare SVR Against OK Meter in site but Faulty Meter recorded in TPNODL Ledger	EA	4464				
56	MTS	Modem Trouble Shooting activity/Smart Meter Nickcard Replacement & Trouble Shooting	Replacement of faulty modem with healthy modem/Smart Meter Nick card after opening of meter box by removing seals. Coordination with communication testing desk at back office and after ensuring communication, repealing of meter box.	EA	350				
57	MTS	Return Cases - of Modem TS	Return Case of Modem Troubleshooting cases where site visit has been done and modem could not be rectified due to reasons not attributable to BA. The activity include pasting notice , providing photograph of site.	EA	50				
58	SP	Return Cases - SP meter installation	Return Case of New connection and meter replacement cases where site visit has been done and meter could not be installed due to reasons not attributable to BA. The activity include pasting notice, providing photograph of site / meter, Reading and other details of meter. Address not traceable cases will not be included .	EA	1500				

Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 2(CED Balasore) RE-1,RE-2, Nilgiri				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C)
59	SP	Shifting of Meters (New / old) from Central store to site store or Site store to Central store. (Bidder has to provide vehicle and sufficient manpower for shifting of Meters/Meter Boxes /accessories from Central Store to respective Division / sub division. The activity include loading and unloading of material at designated locations/stores. Meter LOT size shall be 1000 meters For New Meter 2000 Meter for Scarp Old Meter . Otherthen Define lot Rate will be provided in prorate Basis.	Up to 50 Km						
			Up to 100 Km		20				
			Up to 150 Km		10				
			Up to 200 Km						
			Above 200 Km	EA					
60	SP	Shifting of Cable from Central store to site store or Site store to Central store. Bidder has to provide vehicle and sufficient manpower for shifting of cable . The activity include loading and unloading of material at designated locations/stores. LOT size shall be 6Km for 2*4 sqmm/2*6 MM cable/ any 2 core cable.Otherthen Define lot Rate will be provided in prorate Basis.	Up to 50 Km						
			Up to 100 Km		20				
			Up to 150 Km		10				
			Up to 200 Km						
			Above 200 Km	EA					
61	Protocol Punching	Punching of Protocols for field activities Protal entry In Protal Or Installation Data Capatauring IN MY MMG Mobile Application	Bidder has to punch protocol or Installation Details capturing In MY MMG Mobile APP for Meter installation (Both Single Phase and Three Phase activity/Modem Installation / rectification / Meter Testing (HT and LT) activity / data downloading activity, with 5% QC	EA	26000				

Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 2(CED Balasore) RE-1,RE-2, Nilgiri				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C)
62	DT Metering	Static / Smart /DT Meter installation along with Meter Box and connection for CT / PT	Installation of DT meters 800/400/200/5A, installation of ring type CT, Meter Box, and associated accessories on LT side of transformers Incl Electrical Power Cable/Control Cable Laying & Termination	EA	800				
63	DT Metering	Static / Smart /DT Meter removal along with Meter Box	Removal of any DT meter from site with De energisation of Meter, Modem and its allied accessories	EA	200				
64	DT Metering	Static / Smart /DT Meter installation along with Meter Box and Complete Electrical connection	Installation of Static / Smart /DT Meter meters, along with Meter Box, Mounting Arrangement Installation and associated accessories on LT side of transformers.	EA	200				
65	DT Metering	Concreting of Prefabricated GI Structure base by Cement, Sand & Chips Grade M40	Supply of Cement, Sand & Chips, digging of hole Labour as per the site requirement	EA	200				
66	DT Metering	GI Nut, bolts & washer \	Supply of GI Nut, bolts & washer as per the site requirement M10 -M20	KG	200				
67	DT Metering	Installation of 1C*95 , 1C X 150, 1C*300, sq mm from Tr. LT side through meters.	Installation of cable from Meter To Source Vice Varsa Upto 6- 40 MTR	EA	200				
68	DT Metering	DT Meter with box Removal - All Rating	Removal of any DT meter from site with de-energisation, Meter, modem and its allied accessories with meter box.	EA	200				
69	DT Metering	Modem Installation	Replacement of faulty modem with healthy modem after opening of meter box by removing seals. Coordination with communication testing desk at back office and after ensuring communication, resealing of meter box.	EA	200				
70	DT Metering	Return Cases - of Modem TS	Return Case of Modem Troubleshooting cases where site visit has been done and modem could not be rectified due to reasons not attributable to BA. The activity include pasting notice , providing photograph of site.	EA	200				
71	DT Metering	Shifting of Meter from Central store to respective Division / Sub division.	Bidder has to provide vehicle and sufficient manpower for shifting of Meters/accessories from Central Store to respective Division / sub division The activity include loading and unloading of material at designated locations/stores. Meter LOT size shall be 100 meters. (Quantity mentioned in number of to and fro trips). Separate rate to be quoted for the distance range 1-50 Km, 51-100 Km, 100-150 Km, 150-200 Km, & above 200 Kms	EA	200				

Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 2(CED Balasore) RE-1,RE-2, Nilgiri				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C)
72	DT Metering	Meter & Channel Earthing	Earthing of the meter and meter channel	EA	800				
<b>Total all inclusive Amount for First year (Year -1)</b>					<b>Total Amount For Year 1</b>				.....
<b>Percentage (%) escalation for Second year (Year 2)</b> <b>(The % escalation shall be applicable on unit rate of all service line item for second year)</b>					..... %				
<b>Total all inclusive Amount for Second year (Year -2)</b>					<b>Total Amount For Year 2</b>				.....
<b>Total Overall all inclusive value for Year 1 and Year 2 ( in Rs.)</b>					<b>Rs. ....</b>				
<p>Note -The bids shall be evaluated commercially on the overall lowest cost for each Divison Set <u>for both years</u>. Therefore bidders are advised to quote their best price for year 1 and best % escalation for year 2 as well.</p>									

Abbreviations	
SP	Single Phase
PP	Poly Phase
LT CT	Low Tension Current Transformer Operated Meters
DT Metering	Distribution TRf Metering
HT CT	High Tension Current Transformer Operated Meters
FSC	Field Service Executive
DD	Data Download
MTS	Modem Trouble Shooting
SVR	Survey
BA	Business Associate / Vendor / Bidder

## Annexure-1 (Schedule of Items)

Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 3(JED Jaleswar)Jaleswar,Bhograi				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C)
1	SP	Meter Installation - Single Phase	Installation of 1 phase energy meter with / without meter box. Static /BLE /Smart AMI	EA	20000				
2	SP	Installation of 2C*4 sq mm/2*6 sq mm /2 C* 10 SQMM armoured, Cable O/H (Length 7M-30M)	Stringing, sagging of armoured service cable size 2CX 4 sq mm /2Cx6 mm with length between 7m to 30m including installation of saddle, fastener for support and connection at pole /Required to Fix Height rising Channel,Angle With Anchor Fastener ,Nut & Bolts Supply Of Sundry Items Like Anchor Fastener ( M 12 ) and Nut Bolts will Be in BA Scope With in Service Cable Laying Cost ./Required to Fix Height rising Channel ,Angle With Anchor Fastener ,Nut & Bolts Supply Of Sundry Items Like Anchor Fastener ( M 12 ) and Nut Bolts will Be in BA Scope With in Service Cable Laying Cost .	EA	4000				
3	SP	Meter Removal - Single Phase	Removal of single phase meter without service cable.	EA	15000				
4	SP	Service Cable Removal of any size used for Single Ph connections	Removal of service cable of any size used for single Phase connections from pole/ LT Network.	EA	500				
5	SP	SP Meter Box Replacement	Replacement only Meter box WC Meter (1 Ph) & Smart Meter Single Phase	EA	500				
6	SP	SP Meter Shifting ( Without cable replacement)	Shifting of 1 ph Meters from inside to outside of premises ,height meters to 5 to 6 ft range and as per requirement (With out Cable Replacement )	EA	500				
7	SP	SP Meter Shifting ( With cable replacement)	Shifting of 1 ph Meters from inside to outside of premises ,height meters to 5 to 6 ft range and as per requirement (With cable Replacement)	EA	500				
8	PP	Meter Installation - Poly Phase Whole Current	Installation of Poly Phase whole current energy meter with / without meter box BLE/static /Smart AMI	EA	900				
9	PP	Installation of 4C*25 sq mm armoured, Cable O/H (Length 7M-30M)	Stringing, sagging of armoured service cable size 4CX 25 sq mm with length between 7m to 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble.	EA	150				
10	PP	Installation of 4C*6/4C*10 /4C*16 /Controc Cable Laying sq mm armoured, Cable O/H (Length 7M-30M)	Stringing, sagging of armoured service cable size 4CX 10 sq mm with length between 7m to 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble.	EA	75				
11	PP	Meter Removal - Poly Phase Whole Current	Removal of Poly Phase whole current meter with / without meter box.	EA	700				

Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 3(JED Jaleswar)Jaleswar,Bhograi				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C)
12	PP	Service Cable Removal of any size used for Poly Phase connections	Removal of service cable of 4C X 10 sq mm(majorly) or any other size used for Poly Phase Whole Current connections from pole/ LT Network.	EA	100				
13	P/PP / LTC	Meter Accuracy test at site with Accucheck	Single Phase /Polyphase/LTCT Meter Testing with Accucheck (Will be provided by TPNODL) to be done.	EA	800				
14	SP/PP	Supply and Installation of wall corner clamp	Supply and Installation of Wall Corner Clamp. Consumables i.e. fastener etc. shall be in the scope of BA	EA	300				
15	SP/PP	Supply and Installation of Stand pipe for maintaining the Sagging.	Supply and Installation of Stand pipe for maintaining the Sagging. (LT GI Pipe for Service Line Support as per REC / TPNODL standard)	EA	2800				
16	SP/PP	Bus bar Installation	Installation of any type of bus bar box ( 2 Way & 4 Way etc ) on wall / Pole along with supply of fasteners, steel strap and buckles. (Fastener / Steel strap shall be supplied by BA)	EA	100				
17	SP/PP	Prefabricated GI Structure (Supply Item) / kg	Supply & Installation of Prefabricated / GI structural angle/ channel / flats of different sizes, as per the site requirement	Kg	5000				
18	SP/PP	Installation of Bracket Angle/ service anchor/ suspension clamp/ slotted angle	Installation of GI Bracket for Anchoring service cable of size 50, 95 & 150 sqmm / Installation of Service Cable Anchor / Installation of Slotted angle on pole in case of 2x10/4x10/4x25 cable lying, on uncleaned poles. (Number of items used at one site shall be considered for billing).	EA	1400				
19	SP/PP	Loop Connection for service cable size 2C X 4 sq mm/ 2C X 10 sq mm/ 4C X 10 sq mm/ 4C X 25 sq mm with length ≤ 6 M	Stringing of loop connection ( length ≤ 6 meter ) for service cable size 2C X 4 sq mm/ 2C X 10 sq mm/ 4C X 10 sq mm/ 4C X 25 sq mm.	EA	100				
20	PP/DT	Distribution box/ Busbar work	Bus bar/Distribution Box Installation: Installation of any type of bus bar box on wall / Pole along with supply of fasteners, steel strap and buckles. (Fastener / Steel strap shall be supplied by BA)	EA	600				
21	PP/DT	Distribution box/ Busbar work	Bus bar/Distribution Box Removal	EA	600				
22	PP/DT	Meter Box Replacement	Replacement only Meter box WC Meter (3 Ph)	EA	600				
23	PP/DT	Meter Box Replacement	Replacement only Meter box LTCT Meter	EA	600				
24	PP/DT	Meter shifting work	Shifting of 3 ph WC Meters from inside to outside of premises ,height meters to 5 to 6 ft range and as per requirement.	EA	600				
25	PP/DT	Transportation	Hiring of Crane for Cubical and other related work (Rate/Hr)	EA	10				

Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 3(JED Jaleswar)Jaleswar,Bhograi				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C)
26	LTCT	Static / Smart installation along with Meter Box and connection for CT / PT	Installation of Static / Smart meters along with ring type CT, Meter Box, and associated accessories on LT side of transformers.	EA	10				
27	LTCT	Installation of 4C*95 / 4C X 150 sq mm armoured service cable, O/H (Length up to 30M)	Stringing, sagging of armoured service cable size 4CX 95 sq mm / 4C X 150 sq mm with length upto 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble. (Saddles and Fastners are to be supplied by BA)	EA	25				
28	LTCT	Installation of LTCT Meter with Resign cast CT box (For 100/5 Amps & 200/5 Amps)	Installation, energisation along with communication of new LTCT meters with resin cast CT box and allied accessories. The activity includes supply of 8 Nos of lugs and its crimping on Service cable and connections, Complete grouting of meter box, Communication check of meter with back end server. Earthing also needs to be extended using armour of cable from pole to inside the meter box using suitable size of lugs. (These lugs will also be in scope of supply of BA.)	EA	50				
29	LTCT	Meter Replacement - LTCT Meter Only without box replacement.	Replacement of LTCT meter/ LTCT Smart meter of any rating i.e. 100/5A or 200/5A or 400/5A without box	EA	25				
30	LTCT	Fault rectification in CT Meter pertaining to termination/LT Cable dressing.	Fault rectification includes termination (thimble / socket crimping, gland change, cable lead extension crimping and tightening) and cable dressing.	EA	25				
31	LTCT	LTCT Meter with box Removal - All Rating	Removal of any LTCT meter from site with de-energisation, Meter, modem and its allied accessories with meter box.	EA	25				
32	HT	Meter Accuracy test at site (HTCT)--	HTCT Meter Testing to be done at site. Testing kit will be provided by TPNODL.	EA	50				
33	HT	CTPT / Metering cubicle Installation	Installation of new HT 11 KV Metering cubicle / CTPT unit. The activity includes to & fro transportation, commissioning, energisation of unit in all respect (i.e. connections of CTPT / Metering cubicle , fixing of complete Unit, necessary masonry work, grouting, Cable terminations, control cable connections, socket/thimble crimp , earthing connections, vermin proofing if any) . Note : Loading, Unloading, Installation of CT PT unit, Metering Cubicle at store, site through crane will be included in this cost.	EA	20				



Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 3(JED Jaleswar)Jaleswar,Bhograi				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C)
34	HT	Pole mounted CTPT Installation	Installation of new HT 11 KV out door Metering CTPT unit, includes to & fro transportation, commissioning and energisation in all respect (i.e. connection in meter box from CTPT terminal block through control cable, pole mount CTPT unit erected at 30' height. Fix and Bolt CTPT unit, stand pipe flange, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CTPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door).	EA	30				
35	HT	Meter Installation - HT Meter Only--	Installation of any HT energy meter along with modem and its termination in Metering cubicle / CTPT unit. This will include removal of existing energy meter if installed. HT team will take care of metering activities of falling under the geographical area of Circle. This rate will include travelling up to an average of 50 KM / case/ month (including to and fro). Any travel beyond an avg. of 50 KM / cases / Month will be paid in the lot of 50 KM basis over and above the rates quoted per activity. BA to quote rate for additional travel / 50 KM during any month.	EA	40				
36	HT	Replacement of only HT meter chamber at PMSS OR Replacement / Shifting of control cable pipe with meter chamber for CTPT unit--circlewise	Replacement of HT Metering chamber of HT 11 KV out door Metering CTPT unit, replacement of control cable pipe , energy meter and allied accessories include to & fro transportation, commissioning and energisation in all respect (i.e. reconnection in meter box from CTPT terminal block through control cable, stand pipe flange replacement, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CTPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door). Note : Loading, Unloading, Installation of CT PT unit, Metering Cubicle at store, site through crane will be included in this cost.	EA	20				
37	HT	CTPT / Metering cubicle Removal	Dismantling of complete HT CTPT / Metering Cubicle unit which includes to & fro transportation, complete removal and de-energisation in all respect (i.e. disconnection in all respect, removal of control cable, ends termination removal and all accessories removal) Note : Loading, Unloading, Installation of CT PT unit, Metering Cubicle at store, site through crane will be included in this cost.	EA	10				

Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 3(JED Jaleswar)Jaleswar,Bhograi				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C)
38	HT	Travel in HT Meter Installation - (Travel charges in lot of 50 KM)	Rate for travel of HT Vehicle for additional travel in lot of 50 KM (over and above which is covered in Sr. No 27 / 28 /29 /30 ) for a month. Rate for 50 KM additional mileage after rounding off to be charged. If more than one activity is performed at one site at a time, then this cost to be charged against only one activity.	Lot size of 50 KM each	30				
39	HT	Pole mounted CTPT Removal	Dismantling of complete HT metering out door CTPT unit, includes to & fro transportation, removing and de-energisation in all respect (i.e. connection from meter box from CTPT terminal block through control cable, pole mount CTPT unit erected at 30' height. Fix and Bolt CTPT unit, stand pipe flange, two earth connections, HT cable ends termination removal, socket/ thimble crimp, stand pipe flanges removal, meter terminal cover, window and chamber door removal from site).	EA	10				
40	HT	CTPT / Metering cubicle Installation	Installation of new HT 33 KV Metering cubicle / CTPT unit. The activity includes to & fro transportation, commissioning, energisation of unit in all respect (i.e. connections of CTPT / Metering cubicle , fixing of complete Unit, necessary masonry work, grouting, Cable terminations, control cable connections, socket/thimble crimp , earthing connections, vermin proofing if any) . Note : Loading, Unloading, Installation of CT PT unit, Metering Cubicle at store, site through crane will be included in this cost.	EA	30				
41	HT	Pole mounted CTPT Installation	Installation of new HT 33 KV out door Metering CTPT unit, includes to & fro transportation, commissioning and energisation in all respect (i.e. connection in meter box from CTPT terminal block through control cable, pole mount CTPT unit erected at 30' height. Fix and Bolt CTPT unit, stand pipe flange, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CTPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door).	EA	30				

Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 3(JED Jaleswar)Jaleswar,Bhograi				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C)
42	HT	Replacement of only HT meter chamber at PMSS OR Replacement / Shifting of control cable pipe with meter chamber for CTPT unit--circlewise	Replacement of HT Metering chamber of HT 33 KV out door Metering CTPT unit, replacement of control cable pipe , energy meter and allied accessories include to & fro transportation, commissioning and energisation in all respect (i.e. reconnection in meter box from CTPT terminal block through control cable, stand pipe flange replacement, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CTPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door). Note : Loading, Unloading, Installation of CT PT unit, Metering Cubicle at store, site through crane will be included in this cost.	EA	20				
43	HT	Pole mounted CTPT Removal	Dismantling of complete 33 KV HT metering out door CTPT unit, includes to & fro transportation, removing and de-energisation in all respect (i.e. connection from meter box from CTPT terminal block through control cable, pole mount CTPT unit erected at 30' height. Fix and Bolt CTPT unit, stand pipe flange, two earth connections, HT cable ends termination removal, socket/ thimble crimp, stand pipe flanges removal, meter terminal cover, window and chamber door removal from site).	EA	10				
44	HT/DT	DP Structure Related	Supply and Installation of 11KV complete DP Structure 9Mtr including pressure channel, MU mounting channel, Angle, Stay set, GI pipe, Complete Concreting, Base plating, etc. including supply of material & transportation (Supply of Pole Excluded).	EA	10				
45	HT/DT	DP Structure Related	Replacement of 11KV complete DP Structure 9Mtr including pressure channel, MU mounting channel, Angle, Stay set, GI pipe, Complete Concreting, Base plating, etc. including supply of material & transportation,	EA	10				
46	HT/DT	DP Structure Related	Removal of 11KV complete DP Structure 9Mtr including pressure channel, MU mounting channel, Angle, Stay set, GI pipe, Complete Concreting, Base plating, etc. including transportation.	EA	10				
47	HT/DT	DP Structure Related	Supply and Installation of 33KV complete DP Structure 9Mtr including pressure channel, MU mounting channel, Angle, Stay set, GI pipe, Complete Concreting, Base plating, earthing etc. including supply of material & transportation (Supply of Pole Excluded).	EA	10				
48	HT/DT	DP Structure Related	Replacement of 33KV complete DP Structure 9Mtr including pressure channel, MU mounting channel, Angle, Stay set, GI pipe, Complete Concreting, Base plating, earthing, etc. including supply of material & transportation.	EA	10				

Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 3(JED Jaleswar)Jaleswar,Bhograi				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C)
49	HT/DT	DP Structure Related	Removal of 33KV complete DP Structure 9Mtr including pressure channel, MU mounting channel, Angle, Stay set, GI pipe, Complete Concreting, Base plating, earthing, etc. including transportation	EA	10				
50	FSE	FSE- New Connection	Site verification of new connection with capturing of details as mentioned in site verification form and capturing photographs. Further submission of SVR and file at respective division office.	EA	1000				
51	FSE	FSE - Attribute Change	Site verification Attribute case with capturing of details as mentioned in Attribute Change form and capturing photographs. Further submission of SVR and file at respective division office.	EA	1000				
52	FSE	FSE - SVR Dues/Meter Reading cross check.	Site verification for confirmation of dues with capturing of details as mentioned in dues verification form and capturing photographs. Further submission of SVR and file at respective division office.	EA	600				
53	DD	Data Downloading from Meter (Single Phase )	Data downloading of Meter data after opening of meter box seals and thereafter resealing it. Including DT Meter Reading	EA	600				
54	DD	Data Downloading from Meter (Three Phase/Poly Phase /DT Metering )	Data downloading of Meter data after opening of meter box seals and thereafter resealing it. Including DT Meter Reading	EA	18135				
55	DD	Manul Meter Reading and SVR (Three Phase /Poly Phase/DT Metering)	Taking manual reading parameters from meter display, providing remarks with photographs where data can not be downloaded for reason not attributable to BA, Prepare SVR Against OK Meter in site but Faulty Meter recorded in TPNODL Ledger	EA	4534				
56	MTS	Modem Trouble Shooting activity/Smart Meter Nickcard Replacement & Trouble Shooting	Replacement of faulty modem with healthy modem/Smart Meter Nick card after opening of meter box by removing seals. Coordination with communication testing desk at back office and after ensuring communication, repealing of meter box.	EA	350				
57	MTS	Return Cases - of Modem TS	Return Case of Modem Troubleshooting cases where site visit has been done and modem could not be rectified due to reasons not attributable to BA. The activity include pasting notice , providing photograph of site.	EA	50				
58	SP	Return Cases - SP meter installation	Return Case of New connection and meter replacement cases where site visit has been done and meter could not be installed due to reasons not attributable to BA. The activity include pasting notice, providing photograph of site / meter, Reading and other details of meter. Address not traceable cases will not be included .	EA	1900				

Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 3(JED Jaleswar)Jaleswar,Bhograi				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C)
59	SP	Shifting of Meters (New / old) from Central store to site store or Site store to Central store. (Bidder has to provide vehicle and sufficient manpower for shifting of Meters/Meter Boxes /accessories from Central Store to respective Division / sub division. The activity include loading and unloading of material at designated locations/stores. Meter LOT size shall be 1000 meters For New Meter 2000 Meter for Scarp Old Meter . Otherthen Define lot Rate will be provided in prorate Basis.	Up to 50 Km						
			Up to 100 Km						
			Up to 150 Km						
			Up to 200 Km		16				
			Above 200 Km	EA	16				
60	SP	Shifting of Cable from Central store to site store or Site store to Central store. Bidder has to provide vehicle and sufficient manpower for shifting of cable . The activity include loading and unloading of material at designated locations/stores. LOT size shall be 6Km for 2*4 sqmm/2*6 MM cable/ any 2 core cable.Otherthen Define lot Rate will be provided in prorate Basis.	Up to 50 Km						
			Up to 100 Km						
			Up to 150 Km						
			Up to 200 Km		16				
			Above 200 Km	EA	16				
61	Protocol Punching	Punching of Protocols for field activities Prtal entry In Prtal Or Installation Data Capatauring IN MY MMG Mobile Application	Bidder has to punch protocol or Installation Details capturing In MY MMG Mobile APP for Meter installation (Both Single Phase and Three Phase activity/Modem Installation / rectification / Meter Testing (HT and LT) activity / data downloading activity, with 5% QC	EA	21000				

Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 3(JED Jaleswar)Jaleswar,Bhograi				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C)
62	DT Metering	Static / Smart /DT Meter installation along with Meter Box and connection for CT / PT	Installation of DT meters 800/400/200/5A, installation of ring type CT, Meter Box, and associated accessories on LT side of transformers Incl Electrical Power Cable/Control Cable Laying & Termination	EA	800				
63	DT Metering	Static / Smart /DT Meter removal along with Meter Box	Removal of any DT meter from site with De energisation of Meter, Modem and its allied accessories	EA	200				
64	DT Metering	Static / Smart /DT Meter installation along with Meter Box and Complete Electrical connection	Installation of Static / Smart /DT Meter meters, along with Meter Box, Mounting Arrangement Installation and associated accessories on LT side of transformers.	EA	200				
65	DT Metering	Concreting of Prefabricated GI Structure base by Cement, Sand & Chips Grade M40	Supply of Cement, Sand & Chips, digging of hole Labour as per the site requirement	EA	200				
66	DT Metering	GI Nut, bolts & washer \	Supply of GI Nut, bolts & washer as per the site requirement M10 -M20	KG	200				
67	DT Metering	Installation of 1C*95 , 1C X 150, 1C*300, sq mm from Tr. LT side through meters.	Installation of cable from Meter To Source Vice Varsa Upto 6- 40 MTR	EA	200				
68	DT Metering	DT Meter with box Removal - All Rating	Removal of any DT meter from site with de-energisation, Meter, modem and its allied accessories with meter box.	EA	200				
69	DT Metering	Modem Installation	Replacement of faulty modem with healthy modem after opening of meter box by removing seals. Coordination with communication testing desk at back office and after ensuring communication, resealing of meter box.	EA	200				
70	DT Metering	Return Cases - of Modem TS	Return Case of Modem Troubleshooting cases where site visit has been done and modem could not be rectified due to reasons not attributable to BA. The activity include pasting notice , providing photograph of site.	EA	200				
71	DT Metering	Shifting of Meter from Central store to respective Division / Sub division.	Bidder has to provide vehicle and sufficient manpower for shifting of Meters/accessories from Central Store to respective Division / sub division The activity include loading and unloading of material at designated locations/stores. Meter LOT size shall be 100 meters. (Quantity mentioned in number of to and fro trips). Separate rate to be quoted for the distance range 1-50 Km, 51-100 Km, 100-150 Km, 150-200 Km, & above 200 Kms	EA	200				

Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 3(JED Jaleswar)Jaleswar,Bhograi				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C)
72	DT Metering	Meter & Channel Earthing	Earthing of the meter and meter channel	EA	800				
<b>Total all inclusive Amount for First year (Year -1)</b>					<b>Total Amount For Year 1</b>				.....
<b>Percentage (%) escalation for Second year (Year 2) (The % escalation shall be applicable on unit rate of all service line item for second year)</b>					..... %				
<b>Total all inclusive Amount for Second year (Year -2)</b>					<b>Total Amount For Year 2</b>				.....
<b>Total Overall all inclusive value for Year 1 and Year 2 ( in Rs.)</b>					<b>Rs. ....</b>				
<p>Note -The bids shall be evaluated commercially on the overall lowest cost for each Divison Set <u>for both years</u>. Therefore bidders are advised to quote their best price for year 1 and best % escalation for year 2 as well.</p>									

Abbreviations	
SP	Single Phase
PP	Poly Phase
LT CT	Low Tension Current Transformer Operated Meters
DT Metering	Distribution TRf Metering
HT CT	High Tension Current Transformer Operated Meters
FSC	Field Service Executive
DD	Data Download
MTS	Modem Trouble Shooting
SVR	Survey
BA	Business Associate / Vendor / Bidder

## Annexure-1 (Schedule of Items)

Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 4(BTED Basta) Basta,Jamsuli				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C)
1	SP	Meter Installation - Single Phase	Installation of 1 phase energy meter with / without meter box. Static /BLE /Smart AMI	EA	15000				
2	SP	Installation of 2C*4 sq mm/2*6 sq mm /2 C* 10 SQMM armoured, Cable O/H (Length 7M-30M)	Stringing, sagging of armoured service cable size 2CX 4 sq mm /2Cx6 mm with length between 7m to 30m including installation of saddle, fastener for support and connection at pole /Required to Fix Height rising Channel,Angle With Anchor Fastener ,Nut & Bolts Supply Of Sundry Items Like Anchor Fastener ( M 12 ) and Nut Bolts will Be in BA Scope With in Service Cable Laying Cost ./Required to Fix Height rising Channel ,Angle With Anchor Fastener ,Nut & Bolts Supply Of Sundry Items Like Anchor Fastener ( M 12 ) and Nut Bolts will Be in BA Scope With in Service Cable Laying Cost .	EA	3000				
3	SP	Meter Removal - Single Phase	Removal of single phase meter without service cable.	EA	10000				
4	SP	Service Cable Removal of any size used for Single Ph connections	Removal of service cable of any size used for single Phase connections from pole/ LT Network.	EA	500				
5	SP	SP Meter Box Replacement	Replacement only Meter box WC Meter (1 Ph) & Smart Meter Single Phase	EA	500				
6	SP	SP Meter Shifting ( Without cable replacement)	Shifting of 1 ph Meters from inside to outside of premises ,height meters to 5 to 6 ft range and as per requirement (With out Cable Replacement )	EA	500				
7	SP	SP Meter Shifting ( With cable replacement)	Shifting of 1 ph Meters from inside to outside of premises ,height meters to 5 to 6 ft range and as per requirement (With cable Replacement)	EA	500				
8	PP	Meter Installation - Poly Phase Whole Current	Installation of Poly Phase whole current energy meter with / without meter box BLE/static /Smart AMI	EA	900				
9	PP	Installation of 4C*25 sq mm armoured, Cable O/H (Length 7M-30M)	Stringing, sagging of armoured service cable size 4CX 25 sq mm with length between 7m to 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble.	EA	150				
10	PP	Installation of 4C*6/4C*10 /4C*16 /Controc Cable Laying sq mm armoured, Cable O/H (Length 7M-30M)	Stringing, sagging of armoured service cable size 4CX 10 sq mm with length between 7m to 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble.	EA	75				
11	PP	Meter Removal - Poly Phase Whole Current	Removal of Poly Phase whole current meter with / without meter box.	EA	700				



Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 4(BTED Basta) Basta,Jamsuli				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C)
12	PP	Service Cable Removal of any size used for Poly Phase connections	Removal of service cable of 4C X 10 sq mm(majorly) or any other size used for Poly Phase Whole Current connections from pole/ LT Network.	EA	100				
13	P/PP / LTC	Meter Accuracy test at site with Accucheck	Single Phase /Polyphase/LTCT Meter Testing with Accucheck (Will be provided by TPNODL) to be done.	EA	800				
14	SP/PP	Supply and Installation of wall corner clamp	Supply and Installation of Wall Corner Clamp. Consumables i.e. fastener etc. shall be in the scope of BA	EA	300				
15	SP/PP	Supply and Installation of Stand pipe for maintaining the Sagging.	Supply and Installation of Stand pipe for maintaining the Sagging. (LT GI Pipe for Service Line Support as per REC / TPNODL standard)	EA	2800				
16	SP/PP	Bus bar Installation	Installation of any type of bus bar box ( 2 Way & 4 Way etc ) on wall / Pole along with supply of fasteners, steel strap and buckles. (Fastener / Steel strap shall be supplied by BA)	EA	100				
17	SP/PP	Prefabricated GI Structure (Supply Item) / kg	Supply & Installation of Prefabricated / GI structural angle/ channel / flats of different sizes, as per the site requirement	Kg	5000				
18	SP/PP	Installation of Bracket Angle/ service anchor/ suspension clamp/ slotted angle	Installation of GI Bracket for Anchoring service cable of size 50, 95 & 150 sqmm / Installation of Service Cable Anchor / Installation of Slotted angle on pole in case of 2x10/4x10/4x25 cable lying, on uncleaned poles. (Number of items used at one site shall be considered for billing).	EA	1400				
19	SP/PP	Loop Connection for service cable size 2C X 4 sq mm/ 2C X 10 sq mm/ 4C X 10 sq mm/ 4C X 25 sq mm with length ≤ 6 M	Stringing of loop connection ( length ≤ 6 meter ) for service cable size 2C X 4 sq mm/ 2C X 10 sq mm/ 4C X 10 sq mm/ 4C X 25 sq mm.	EA	100				
20	PP/DT	Distribution box/ Busbar work	Bus bar/Distribution Box Installation: Installation of any type of bus bar box on wall / Pole along with supply of fasteners, steel strap and buckles. (Fastener / Steel strap shall be supplied by BA)	EA	600				
21	PP/DT	Distribution box/ Busbar work	Bus bar/Distribution Box Removal	EA	600				
22	PP/DT	Meter Box Replacement	Replacement only Meter box WC Meter (3 Ph)	EA	600				
23	PP/DT	Meter Box Replacement	Replacement only Meter box LTCT Meter	EA	600				
24	PP/DT	Meter shifting work	Shifting of 3 ph WC Meters from inside to outside of premises ,height meters to 5 to 6 ft range and as per requirement.	EA	600				
25	PP/DT	Transportation	Hiring of Crane for Cubical and other related work (Rate/Hr)	EA	10				

Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 4(BTED Basta) Basta,Jamsuli				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C)
26	LTCT	Static / Smart installation along with Meter Box and connection for CT / PT	Installation of Static / Smart meters along with ring type CT, Meter Box, and associated accessories on LT side of transformers.	EA	10				
27	LTCT	Installation of 4C*95 / 4C X 150 sq mm armoured service cable, O/H (Length up to 30M)	Stringing, sagging of armoured service cable size 4CX 95 sq mm / 4C X 150 sq mm with length upto 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble. (Saddles and Fastners are to be supplied by BA)	EA	25				
28	LTCT	Installation of LTCT Meter with Resign cast CT box (For 100/5 Amps & 200/5 Amps)	Installation, energisation along with communication of new LTCT meters with resin cast CT box and allied accessories. The activity includes supply of 8 Nos of lugs and its crimping on Service cable and connections, Complete grouting of meter box, Communication check of meter with back end server. Earthing also needs to be extended using armour of cable from pole to inside the meter box using suitable size of lugs. (These lugs will also be in scope of supply of BA.)	EA	50				
29	LTCT	Meter Replacement - LTCT Meter Only without box replacement.	Replacement of LTCT meter/ LTCT Smart meter of any rating i.e. 100/5A or 200/5A or 400/5A without box	EA	25				
30	LTCT	Fault rectification in CT Meter pertaining to termination/LT Cable dressing.	Fault rectification includes termination (thimble / socket crimping, gland change, cable lead extension crimping and tightening) and cable dressing.	EA	25				
31	LTCT	LTCT Meter with box Removal - All Rating	Removal of any LTCT meter from site with de-energisation, Meter, modem and its allied accessories with meter box.	EA	25				
32	HT	Meter Accuracy test at site (HTCT)--	HTCT Meter Testing to be done at site. Testing kit will be provided by TPNODL.	EA	50				
33	HT	CTPT / Metering cubicle Installation	Installation of new HT 11 KV Metering cubicle / CTPT unit. The activity includes to & fro transportation, commissioning, energisation of unit in all respect (i.e. connections of CTPT / Metering cubicle , fixing of complete Unit, necessary masonry work, grouting, Cable terminations, control cable connections, socket/thimble crimp , earthing connections, vermin proofing if any) . Note : Loading, Unloading, Installation of CT PT unit, Metering Cubicle at store, site through crane will be included in this cost.	EA	10				

Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 4(BTED Basta) Basta,Jamsuli				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C)
34	HT	Pole mounted CTPT Installation	Installation of new HT 11 KV out door Metering CTPT unit, includes to & fro transportation, commissioning and energisation in all respect (i.e. connection in meter box from CTPT terminal block through control cable, pole mount CTPT unit erected at 30' height. Fix and Bolt CTPT unit, stand pipe flange, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CTPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door).	EA	30				
35	HT	Meter Installation - HT Meter Only--	Installation of any HT energy meter along with modem and its termination in Metering cubicle / CTPT unit. This will include removal of existing energy meter if installed. HT team will take care of metering activities of falling under the geographical area of Circle. This rate will include travelling up to an average of 50 KM / case/ month (including to and fro). Any travel beyond an avg. of 50 KM / cases / Month will be paid in the lot of 50 KM basis over and above the rates quoted per activity. BA to quote rate for additional travel / 50 KM during any month.	EA	40				
36	HT	Replacement of only HT meter chamber at PMSS OR Replacement / Shifting of control cable pipe with meter chamber for CTPT unit--circlewise	Replacement of HT Metering chamber of HT 11 KV out door Metering CTPT unit, replacement of control cable pipe , energy meter and allied accessories include to & fro transportation, commissioning and energisation in all respect (i.e. reconnection in meter box from CTPT terminal block through control cable, stand pipe flange replacement, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CTPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door). Note : Loading, Unloading, Installation of CT PT unit, Metering Cubicle at store, site through crane will be included in this cost.	EA	20				
37	HT	CTPT / Metering cubicle Removal	Dismantling of complete HT CTPT / Metering Cubicle unit which includes to & fro transportation, complete removal and de-energisation in all respect (i.e. disconnection in all respect, removal of control cable, ends termination removal and all accessories removal) Note : Loading, Unloading, Installation of CT PT unit, Metering Cubicle at store, site through crane will be included in this cost.	EA	10				

Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 4(BTED Basta) Basta,Jamsuli				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C)
38	HT	Travel in HT Meter Installation - (Travel charges in lot of 50 KM)	Rate for travel of HT Vehicle for additional travel in lot of 50 KM (over and above which is covered in Sr. No 27 / 28 /29 /30 ) for a month. Rate for 50 KM additional mileage after rounding off to be charged. If more than one activity is performed at one site at a time, then this cost to be charged against only one activity.	Lot size of 50 KM each	30				
39	HT	Pole mounted CTPT Removal	Dismantling of complete HT metering out door CTPT unit, includes to & fro transportation, removing and de-energisation in all respect (i.e. connection from meter box from CTPT terminal block through control cable, pole mount CTPT unit erected at 30' height. Fix and Bolt CTPT unit, stand pipe flange, two earth connections, HT cable ends termination removal, socket/ thimble crimp, stand pipe flanges removal, meter terminal cover, window and chamber door removal from site).	EA	10				
40	HT	CTPT / Metering cubicle Installation	Installation of new HT 33 KV Metering cubicle / CTPT unit. The activity includes to & fro transportation, commissioning, energisation of unit in all respect (i.e. connections of CTPT / Metering cubicle , fixing of complete Unit, necessary masonry work, grouting, Cable terminations, control cable connections, socket/thimble crimp , earthing connections, vermin proofing if any) . Note : Loading, Unloading, Installation of CT PT unit, Metering Cubicle at store, site through crane will be included in this cost.	EA	30				
41	HT	Pole mounted CTPT Installation	Installation of new HT 33 KV out door Metering CTPT unit, includes to & fro transportation, commissioning and energisation in all respect (i.e. connection in meter box from CTPT terminal block through control cable, pole mount CTPT unit erected at 30' height. Fix and Bolt CTPT unit, stand pipe flange, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CTPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door).	EA	30				

Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 4(BTED Basta) Basta,Jamsuli				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C)
42	HT	Replacement of only HT meter chamber at PMSS OR Replacement / Shifting of control cable pipe with meter chamber for CTPT unit--circlewise	Replacement of HT Metering chamber of HT 33 KV out door Metering CTPT unit, replacement of control cable pipe , energy meter and allied accessories include to & fro transportation, commissioning and energisation in all respect (i.e. reconnection in meter box from CTPT terminal block through control cable, stand pipe flange replacement, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CTPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door). Note : Loading, Unloading, Installation of CT PT unit, Metering Cubicle at store, site through crane will be included in this cost.	EA	3				
43	HT	Pole mounted CTPT Removal	Dismantling of complete 33 KV HT metering out door CTPT unit, includes to & fro transportation, removing and de-energisation in all respect (i.e. connection from meter box from CTPT terminal block through control cable, pole mount CTPT unit erected at 30' height. Fix and Bolt CTPT unit, stand pipe flange, two earth connections, HT cable ends termination removal, socket/ thimble crimp, stand pipe flanges removal, meter terminal cover, window and chamber door removal from site).	EA	10				
44	HT/DT	DP Structure Related	Supply and Installation of 11KV complete DP Structure 9Mtr including pressure channel, MU mounting channel, Angle, Stay set, GI pipe, Complete Concreting, Base plating, etc. including supply of material & transportation (Supply of Pole Excluded).	EA	10				
45	HT/DT	DP Structure Related	Replacement of 11KV complete DP Structure 9Mtr including pressure channel, MU mounting channel, Angle, Stay set, GI pipe, Complete Concreting, Base plating, etc. including supply of material & transportation,	EA	10				
46	HT/DT	DP Structure Related	Removal of 11KV complete DP Structure 9Mtr including pressure channel, MU mounting channel, Angle, Stay set, GI pipe, Complete Concreting, Base plating, etc. including transportation.	EA	10				
47	HT/DT	DP Structure Related	Supply and Installation of 33KV complete DP Structure 9Mtr including pressure channel, MU mounting channel, Angle, Stay set, GI pipe, Complete Concreting, Base plating, earthing etc. including supply of material & transportation (Supply of Pole Excluded).	EA	10				
48	HT/DT	DP Structure Related	Replacement of 33KV complete DP Structure 9Mtr including pressure channel, MU mounting channel, Angle, Stay set, GI pipe, Complete Concreting, Base plating, earthing, etc. including supply of material & transportation.	EA	10				

Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 4(BTED Basta) Basta,Jamsuli				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C)
49	HT/DT	DP Structure Related	Removal of 33KV complete DP Structure 9Mtr including pressure channel, MU mounting channel, Angle, Stay set, GI pipe, Complete Concreting, Base plating, earthing, etc. including transportation	EA	10				
50	FSE	FSE- New Connection	Site verification of new connection with capturing of details as mentioned in site verification form and capturing photographs. Further submission of SVR and file at respective division office.	EA	1000				
51	FSE	FSE - Attribute Change	Site verification Attribute case with capturing of details as mentioned in Attribute Change form and capturing photographs. Further submission of SVR and file at respective division office.	EA	1000				
52	FSE	FSE - SVR Dues/Meter Reading cross check.	Site verification for confirmation of dues with capturing of details as mentioned in dues verification form and capturing photographs. Further submission of SVR and file at respective division office.	EA	600				
53	DD	Data Downloading from Meter (Single Phase )	Data downloading of Meter data after opening of meter box seals and thereafter resealing it. Including DT Meter Reading	EA	600				
54	DD	Data Downloading from Meter (Three Phase/Poly Phase /DT Metering )	Data downloading of Meter data after opening of meter box seals and thereafter resealing it. Including DT Meter Reading	EA	14640				
55	DD	Manul Meter Reading and SVR (Three Phase /Poly Phase/DT Metering)	Taking manual reading parameters from meter display, providing remarks with photographs where data can not be downloaded for reason not attributable to BA, Prepare SVR Against OK Meter in site but Faulty Meter recorded in TPNODL Ledger	EA	3660				
56	MTS	Modem Trouble Shooting activity/Smart Meter Nickcard Replacement & Trouble Shooting	Replacement of faulty modem with healthy modem/Smart Meter Nick card after opening of meter box by removing seals. Coordination with communication testing desk at back office and after ensuring communication, repealing of meter box.	EA	350				
57	MTS	Return Cases - of Modem TS	Return Case of Modem Troubleshooting cases where site visit has been done and modem could not be rectified due to reasons not attributable to BA. The activity include pasting notice , providing photograph of site.	EA	50				
58	SP	Return Cases - SP meter installation	Return Case of New connection and meter replacement cases where site visit has been done and meter could not be installed due to reasons not attributable to BA. The activity include pasting notice, providing photograph of site / meter, Reading and other details of meter. Address not traceable cases will not be included .	EA	750				

Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 4(BTED Basta) Basta,Jamsuli				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C)
59	SP	Shifting of Meters (New / old) from Central store to site store or Site store to Central store. (Bidder has to provide vehicle and sufficient manpower for shifting of Meters/Meter Boxes /accessories from Central Store to respective Division / sub division. The activity include loading and unloading of material at designated locations/stores. Meter LOT size shall be 1000 meters For New Meter 2000 Meter for Scarp Old Meter . Otherthen Define lot Rate will be provided in prorate Basis.	Up to 50 Km		10				
			Up to 100 Km		10				
			Up to 150 Km						
			Up to 200 Km		10				
			Above 200 Km	EA	10				
60	SP	Shifting of Cable from Central store to site store or Site store to Central store. Bidder has to provide vehicle and sufficient manpower for shifting of cable . The activity include loading and unloading of material at designated locations/stores. LOT size shall be 6Km for 2*4 sqmm/2*6 MM cable/ any 2 core cable.Otherthen Define lot Rate will be provided in prorate Basis.	Up to 50 Km						
			Up to 100 Km						
			Up to 150 Km						
			Up to 200 Km		10				
			Above 200 Km	EA	10				
61	Protocol Punching	Punching of Protocols for field activities Protal entry In Protal Or Installation Data Capatauring IN MY MMG Mobile Application	Bidder has to punch protocol or Installation Details capturing In MY MMG Mobile APP for Meter installation (Both Single Phase and Three Phase activity/Modem Installation / rectification / Meter Testing (HT and LT) activity / data downloading activity, with 5% QC	EA	16000				

Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 4(BTED Basta) Basta,Jamsuli				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C)
62	DT Metering	Static / Smart /DT Meter installation along with Meter Box and connection for CT / PT	Installation of DT meters 800/400/200/5A, installation of ring type CT, Meter Box, and associated accessories on LT side of transformers Incl Electrical Power Cable/Control Cable Laying & Termination	EA	800				
63	DT Metering	Static / Smart /DT Meter removal along with Meter Box	Removal of any DT meter from site with De energisation of Meter, Modem and its allied accessories	EA	200				
64	DT Metering	Static / Smart /DT Meter installation along with Meter Box and Complete Electrical connection	Installation of Static / Smart /DT Meter meters, along with Meter Box, Mounting Arrangement Installation and associated accessories on LT side of transformers.	EA	200				
65	DT Metering	Concreting of Prefabricated GI Structure base by Cement, Sand & Chips Grade M40	Supply of Cement, Sand & Chips, digging of hole Labour as per the site requirement	EA	200				
66	DT Metering	GI Nut, bolts & washer \	Supply of GI Nut, bolts & washer as per the site requirement M10 -M20	KG	200				
67	DT Metering	Installation of 1C*95 , 1C X 150, 1C*300, sq mm from Tr. LT side through meters.	Installation of cable from Meter To Source Vice Varsa Upto 6- 40 MTR	EA	200				
68	DT Metering	DT Meter with box Removal - All Rating	Removal of any DT meter from site with de-energisation, Meter, modem and its allied accessories with meter box.	EA	200				
69	DT Metering	Modem Installation	Replacement of faulty modem with healthy modem after opening of meter box by removing seals. Coordination with communication testing desk at back office and after ensuring communication, resealing of meter box.	EA	200				
70	DT Metering	Return Cases - of Modem TS	Return Case of Modem Troubleshooting cases where site visit has been done and modem could not be rectified due to reasons not attributable to BA. The activity include pasting notice , providing photograph of site.	EA	200				
71	DT Metering	Shifting of Meter from Central store to respective Division / Sub division.	Bidder has to provide vehicle and sufficient manpower for shifting of Meters/accessories from Central Store to respective Division / sub division The activity include loading and unloading of material at designated locations/stores. Meter LOT size shall be 100 meters. (Quantity mentioned in number of to and fro trips). Separate rate to be quoted for the distance range 1-50 Km, 51-100 Km, 100-150 Km, 150-200 Km, & above 200 Kms	EA	200				



Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 4(BTED Basta) Basta,Jamsuli				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C)
72	DT Metering	Meter & Channel Earthing	Earthing of the meter and meter channel	EA	800				
<b>Total all inclusive Amount for First year (Year -1)</b>					<b>Total Amount For Year 1</b>				.....
<b>Percentage (%) escalation for Second year (Year 2)</b> <b>(The % escalation shall be applicable on unit rate of all service line item for second year)</b>					..... %				
<b>Total all inclusive Amount for Second year (Year -2)</b>					<b>Total Amount For Year 2</b>				.....
<b>Total Overall all inclusive value for Year 1 and Year 2 ( in Rs.)</b>					<b>Rs. ....</b>				
<p>Note -The bids shall be evaluated commercially on the overall lowest cost for each Divison Set <u>for both years</u>. Therefore bidders are advised to quote their best price for year 1 and best % escalation for year 2 as well.</p>									

Abbreviations	
SP	Single Phase
PP	Poly Phase
LT CT	Low Tension Current Transformer Operated Meters
DT Metering	Distribution TRf Metering
HT CT	High Tension Current Transformer Operated Meters
FSC	Field Service Executive
DD	Data Download
MTS	Modem Trouble Shooting
SVR	Survey
BA	Business Associate / Vendor / Bidder

## Annexure-1 (Schedule of Items)

Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 5(SED Soro)Soro,Bahanaga,Markona,Khaira				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C)
1	SP	Meter Installation - Single Phase	Installation of 1 phase energy meter with / without meter box. Static /BLE /Smart AMI	EA	15000				
2	SP	Installation of 2C*4 sq mm/2*6 sq mm /2 C* 10 SQMM armoured, Cable O/H (Length 7M-30M)	Stringing, sagging of armoured service cable size 2CX 4 sq mm /2Cx6 mm with length between 7m to 30m including installation of saddle, fastener for support and connection at pole /Required to Fix Height rising Channel,Angle With Anchor Fastener ,Nut & Bolts Supply Of Sundry Items Like Anchor Fastener ( M 12 ) and Nut Bolts will Be in BA Scope With in Service Cable Laying Cost ./Required to Fix Height rising Channel ,Angle With Anchor Fastener ,Nut & Bolts Supply Of Sundry Items Like Anchor Fastener ( M 12 ) and Nut Bolts will Be in BA Scope With in Service Cable Laying Cost .	EA	4000				
3	SP	Meter Removal - Single Phase	Removal of single phase meter without service cable.	EA	12000				
4	SP	Service Cable Removal of any size used for Single Ph connections	Removal of service cable of any size used for single Phase connections from pole/ LT Network.	EA	500				
5	SP	SP Meter Box Replacement	Replacement only Meter box WC Meter (1 Ph) & Smart Meter Single Phase	EA	500				
6	SP	SP Meter Shifting ( Without cable replacement)	Shifting of 1 ph Meters from inside to outside of premises ,height meters to 5 to 6 ft range and as per requirement (With out Cable Replacement )	EA	500				
7	SP	SP Meter Shifting ( With cable replacement)	Shifting of 1 ph Meters from inside to outside of premises ,height meters to 5 to 6 ft range and as per requirement (With cable Replacement)	EA	500				
8	PP	Meter Installation - Poly Phase Whole Current	Installation of Poly Phase whole current energy meter with / without meter box BLE/static /Smart AMI	EA	900				
9	PP	Installation of 4C*25 sq mm armoured, Cable O/H (Length 7M-30M)	Stringing, sagging of armoured service cable size 4CX 25 sq mm with length between 7m to 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble.	EA	150				
10	PP	Installation of 4C*6/4C*10 /4C*16 /Controc Cable Laying sq mm armoured, Cable O/H (Length 7M-30M)	Stringing, sagging of armoured service cable size 4CX 10 sq mm with length between 7m to 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble.	EA	75				
11	PP	Meter Removal - Poly Phase Whole Current	Removal of Poly Phase whole current meter with / without meter box.	EA	700				

Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 5 (SED Soro) Soro, Bahanaga, Markona, Khaira				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C)
12	PP	Service Cable Removal of any size used for Poly Phase connections	Removal of service cable of 4C X 10 sq mm (majorly) or any other size used for Poly Phase Whole Current connections from pole/ LT Network.	EA	100				
13	P/PP / LTC	Meter Accuracy test at site with Accucheck	Single Phase / Polyphase / LTCT Meter Testing with Accucheck (Will be provided by TPNODL) to be done.	EA	800				
14	SP/PP	Supply and Installation of wall corner clamp	Supply and Installation of Wall Corner Clamp. Consumables i.e. fastener etc. shall be in the scope of BA	EA	300				
15	SP/PP	Supply and Installation of Stand pipe for maintaining the Sagging.	Supply and Installation of Stand pipe for maintaining the Sagging. (LT GI Pipe for Service Line Support as per REC / TPNODL standard)	EA	2800				
16	SP/PP	Bus bar Installation	Installation of any type of bus bar box ( 2 Way & 4 Way etc ) on wall / Pole along with supply of fasteners, steel strap and buckles. (Fastener / Steel strap shall be supplied by BA)	EA	100				
17	SP/PP	Prefabricated GI Structure (Supply Item) / kg	Supply & Installation of Prefabricated / GI structural angle/ channel / flats of different sizes, as per the site requirement	Kg	2000				
18	SP/PP	Installation of Bracket Angle/ service anchor/ suspension clamp/ slotted angle	Installation of GI Bracket for Anchoring service cable of size 50, 95 & 150 sqmm / Installation of Service Cable Anchor / Installation of Slotted angle on pole in case of 2x10/4x10/4x25 cable lying, on uncleaned poles. (Number of items used at one site shall be considered for billing).	EA	1400				
19	SP/PP	Loop Connection for service cable size 2C X 4 sq mm/ 2C X 10 sq mm/ 4C X 10 sq mm/ 4C X 25 sq mm with length ≤ 6 M	Stringing of loop connection ( length ≤ 6 meter ) for service cable size 2C X 4 sq mm/ 2C X 10 sq mm/ 4C X 10 sq mm/ 4C X 25 sq mm.	EA	100				
20	PP/DT	Distribution box/ Busbar work	Bus bar/Distribution Box Installation: Installation of any type of bus bar box on wall / Pole along with supply of fasteners, steel strap and buckles. (Fastener / Steel strap shall be supplied by BA)	EA	600				
21	PP/DT	Distribution box/ Busbar work	Bus bar/Distribution Box Removal	EA	600				
22	PP/DT	Meter Box Replacement	Replacement only Meter box WC Meter (3 Ph)	EA	600				
23	PP/DT	Meter Box Replacement	Replacement only Meter box LTCT Meter	EA	600				
24	PP/DT	Meter shifting work	Shifting of 3 ph WC Meters from inside to outside of premises ,height meters to 5 to 6 ft range and as per requirement.	EA	600				
25	PP/DT	Transportation	Hiring of Crane for Cubical and other related work (Rate/Hr)	EA	10				

Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 5 (SED Soro) Soro, Bahanaga, Markona, Khaira				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C)
26	LTCT	Static / Smart installation along with Meter Box and connection for CT / PT	Installation of Static / Smart meters along with ring type CT, Meter Box, and associated accessories on LT side of transformers.	EA	10				
27	LTCT	Installation of 4C*95 / 4C X 150 sq mm armoured service cable, O/H (Length up to 30M)	Stringing, sagging of armoured service cable size 4CX 95 sq mm / 4C X 150 sq mm with length upto 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble. (Saddles and Fastners are to be supplied by BA)	EA	25				
28	LTCT	Installation of LTCT Meter with Resign cast CT box (For 100/5 Amps & 200/5 Amps)	Installation, energisation along with communication of new LTCT meters with resin cast CT box and allied accessories. The activity includes supply of 8 Nos of lugs and its crimping on Service cable and connections, Complete grouting of meter box, Communication check of meter with back end server. Earthing also needs to be extended using armour of cable from pole to inside the meter box using suitable size of lugs. (These lugs will also be in scope of supply of BA.)	EA	50				
29	LTCT	Meter Replacement - LTCT Meter Only without box replacement.	Replacement of LTCT meter/ LTCT Smart meter of any rating i.e. 100/5A or 200/5A or 400/5A without box	EA	25				
30	LTCT	Fault rectification in CT Meter pertaining to termination/LT Cable dressing.	Fault rectification includes termination (thimble / socket crimping, gland change, cable lead extension crimping and tightening) and cable dressing.	EA	25				
31	LTCT	LTCT Meter with box Removal - All Rating	Removal of any LTCT meter from site with de-energisation, Meter, modem and its allied accessories with meter box.	EA	25				
32	HT	Meter Accuracy test at site (HTCT)--	HTCT Meter Testing to be done at site. Testing kit will be provided by TPNODL.	EA	50				
33	HT	CTPT / Metering cubicle Installation	Installation of new HT 11 KV Metering cubicle / CTPT unit. The activity includes to & fro transportation, commissioning, energisation of unit in all respect (i.e. connections of CTPT / Metering cubicle , fixing of complete Unit, necessary masonry work, grouting, Cable terminations, control cable connections, socket/thimble crimp , earthing connections, vermin proofing if any) . Note : Loading, Unloading, Installation of CT PT unit, Metering Cubicle at store, site through crane will be included in this cost.	EA	10				

Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 5 (SED Soro) Soro, Bahanaga, Markona, Khaira				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C)
34	HT	Pole mounted CTPT Installation	Installation of new HT 11 KV out door Metering CTPT unit, includes to & fro transportation, commissioning and energisation in all respect (i.e. connection in meter box from CTPT terminal block through control cable, pole mount CTPT unit erected at 30' height. Fix and Bolt CTPT unit, stand pipe flange, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CTPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door).	EA	30				
35	HT	Meter Installation - HT Meter Only--	Installation of any HT energy meter along with modem and its termination in Metering cubicle / CTPT unit. This will include removal of existing energy meter if installed. HT team will take care of metering activities of falling under the geographical area of Circle. This rate will include travelling up to an average of 50 KM / case/ month (including to and fro). Any travel beyond an avg. of 50 KM / cases / Month will be paid in the lot of 50 KM basis over and above the rates quoted per activity. BA to quote rate for additional travel / 50 KM during any month.	EA	40				
36	HT	Replacement of only HT meter chamber at PMSS OR Replacement / Shifting of control cable pipe with meter chamber for CTPT unit--circlewise	Replacement of HT Metering chamber of HT 11 KV out door Metering CTPT unit, replacement of control cable pipe , energy meter and allied accessories include to & fro transportation, commissioning and energisation in all respect (i.e. reconnection in meter box from CTPT terminal block through control cable, stand pipe flange replacement, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CTPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door). Note : Loading, Unloading, Installation of CT PT unit, Metering Cubicle at store, site through crane will be included in this cost.	EA	20				
37	HT	CTPT / Metering cubicle Removal	Dismantling of complete HT CTPT / Metering Cubicle unit which includes to & fro transportation, complete removal and de-energisation in all respect (i.e. disconnection in all respect, removal of control cable, ends termination removal and all accessories removal) Note : Loading, Unloading, Installation of CT PT unit, Metering Cubicle at store, site through crane will be included in this cost.	EA	10				

Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 5(SED Soro)Soro,Bahanaga,Markona,Khaira				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C)
38	HT	Travel in HT Meter Installation - (Travel charges in lot of 50 KM)	Rate for travel of HT Vehicle for additional travel in lot of 50 KM (over and above which is covered in Sr. No 27 / 28 /29 /30 ) for a month. Rate for 50 KM additional mileage after rounding off to be charged. If more than one activitiy is performed at one site at a time, then this cost to be charged against only one activity.	Lot size of 50 KM each	30				
39	HT	Pole mounted CTPT Removal	Dismantling of complete HT metering out door CTPT unit, includes to & fro transportation, removing and de-energisation in all respect (i.e. connection from meter box from CTPT terminal block through control cable, pole mount CTPT unit erected at 30' height. Fix and Bolt CTPT unit, stand pipe flange, two earth connections, HT cable ends termination removal, socket/ thimble crimp, stand pipe flanges removal, meter terminal cover, window and chamber door removal from site).	EA	10				
40	HT	CTPT / Metering cubicle Installation	Installation of new HT 33 KV Metering cubicle / CTPT unit. The activity includes to & fro transportation, commissioning, energisation of unit in all respect (i.e. connections of CTPT / Metering cubicle , fixing of complete Unit, necessary masonry work, grouting, Cable terminations, control cable connections, socket/thimble crimp , earthing connections, vermin proofing if any) . Note : Loading, Unloading, Installation of CT PT unit, Metering Cubicle at store, site through crane will be included in this cost.	EA	30				
41	HT	Pole mounted CTPT Installation	Installation of new HT 33 KV out door Metering CTPT unit, includes to & fro transportation, commissioning and energisation in all respect (i.e. connection in meter box from CTPT terminal block through control cable, pole mount CTPT unit erected at 30' height. Fix and Bolt CTPT unit, stand pipe flange, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CTPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door).	EA	30				

Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 5(SED Soro)Soro,Bahanaga,Markona,Khaira				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C)
42	HT	Replacement of only HT meter chamber at PMSS OR Replacement / Shifting of control cable pipe with meter chamber for CTPT unit--circlewise	Replacement of HT Metering chamber of HT 33 KV out door Metering CTPT unit, replacement of control cable pipe , energy meter and allied accessories include to & fro transportation, commissioning and energisation in all respect (i.e. reconnection in meter box from CTPT terminal block through control cable, stand pipe flange replacement, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CTPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door). Note : Loading, Unloading, Installation of CT PT unit, Metering Cubicle at store, site through crane will be included in this cost.	EA	20				
43	HT	Pole mounted CTPT Removal	Dismantling of complete 33 KV HT metering out door CTPT unit, includes to & fro transportation, removing and de-energisation in all respect (i.e. connection from meter box from CTPT terminal block through control cable, pole mount CTPT unit erected at 30' height. Fix and Bolt CTPT unit, stand pipe flange, two earth connections, HT cable ends termination removal, socket/ thimble crimp, stand pipe flanges removal, meter terminal cover, window and chamber door removal from site).	EA	10				
44	HT/DT	DP Structure Related	Supply and Installation of 11KV complete DP Structure 9Mtr including pressure channel, MU mounting channel, Angle, Stay set, GI pipe, Complete Concreting, Base plating, etc. including supply of material & transportation (Supply of Pole Excluded).	EA	10				
45	HT/DT	DP Structure Related	Replacement of 11KV complete DP Structure 9Mtr including pressure channel, MU mounting channel, Angle, Stay set, GI pipe, Complete Concreting, Base plating, etc. including supply of material & transportation,	EA	10				
46	HT/DT	DP Structure Related	Removal of 11KV complete DP Structure 9Mtr including pressure channel, MU mounting channel, Angle, Stay set, GI pipe, Complete Concreting, Base plating, etc. including transportation.	EA	10				
47	HT/DT	DP Structure Related	Supply and Installation of 33KV complete DP Structure 9Mtr including pressure channel, MU mounting channel, Angle, Stay set, GI pipe, Complete Concreting, Base plating, earthing etc. including supply of material & transportation (Supply of Pole Excluded).	EA	10				
48	HT/DT	DP Structure Related	Replacement of 33KV complete DP Structure 9Mtr including pressure channel, MU mounting channel, Angle, Stay set, GI pipe, Complete Concreting, Base plating, earthing, etc. including supply of material & transportation.	EA	10				

Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 5 (SED Soro) Soro, Bahanaga, Markona, Khaira				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C)
49	HT/DT	DP Structure Related	Removal of 33KV complete DP Structure 9Mtr including pressure channel, MU mounting channel, Angle, Stay set, GI pipe, Complete Concreting, Base plating, earthing, etc. including transportation	EA	10				
50	FSE	FSE- New Connection	Site verification of new connection with capturing of details as mentioned in site verification form and capturing photographs. Further submission of SVR and file at respective division office.	EA	1000				
51	FSE	FSE - Attribute Change	Site verification Attribute case with capturing of details as mentioned in Attribute Change form and capturing photographs. Further submission of SVR and file at respective division office.	EA	1000				
52	FSE	FSE - SVR Dues/Meter Reading cross check.	Site verification for confirmation of dues with capturing of details as mentioned in dues verification form and capturing photographs. Further submission of SVR and file at respective division office.	EA	600				
53	DD	Data Downloading from Meter (Single Phase )	Data downloading of Meter data after opening of meter box seals and thereafter resealing it. Including DT Meter Reading	EA	600				
54	DD	Data Downloading from Meter (Three Phase/Poly Phase /DT Metering )	Data downloading of Meter data after opening of meter box seals and thereafter resealing it. Including DT Meter Reading	EA	17530				
55	DD	Manul Meter Reading and SVR (Three Phase /Poly Phase/DT Metering)	Taking manual reading parameters from meter display, providing remarks with photographs where data can not be downloaded for reason not attributable to BA, Prepare SVR Against OK Meter in site but Faulty Meter recorded in TPNODL Ledger	EA	4383				
56	MTS	Modem Trouble Shooting activity/Smart Meter Nickcard Replacement & Trouble Shooting	Replacement of faulty modem with healthy modem/Smart Meter Nick card after opening of meter box by removing seals. Coordination with communication testing desk at back office and after ensuring communication, repealing of meter box.	EA	350				
57	MTS	Return Cases - of Modem TS	Return Case of Modem Troubleshooting cases where site visit has been done and modem could not be rectified due to reasons not attributable to BA. The activity include pasting notice , providing photograph of site.	EA	50				
58	SP	Return Cases - SP meter installation	Return Case of New connection and meter replacement cases where site visit has been done and meter could not be installed due to reasons not attributable to BA. The activity include pasting notice, providing photograph of site / meter, Reading and other details of meter. Address not traceable cases will not be included .	EA	1200				



Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 5 (SED Soro) Soro, Bahanaga, Markona, Khaira				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C)
59	SP	Shifting of Meters (New / old) from Central store to site store or Site store to Central store. (Bidder has to provide vehicle and sufficient manpower for shifting of Meters/Meter Boxes /accessories from Central Store to respective Division / sub division. The activity include loading and unloading of material at designated locations/stores. Meter LOT size shall be 1000 meters For New Meter 2000 Meter for Scarp Old Meter . Otherthen Define lot Rate will be provided in prorate Basis.	Up to 50 Km						
			Up to 100 Km		10				
			Up to 150 Km		10				
			Up to 200 Km		10				
			Above 200 Km	EA	10				
60	SP	Shifting of Cable from Central store to site store or Site store to Central store. Bidder has to provide vehicle and sufficient manpower for shifting of cable . The activity include loading and unloading of material at designated locations/stores. LOT size shall be 6Km for 2*4 sqmm/2*6 MM cable/ any 2 core cable. Otherthen Define lot Rate will be provided in prorate Basis.	Up to 50 Km		10				
			Up to 100 Km		10				
			Up to 150 Km						
			Up to 200 Km		10				
			Above 200 Km	EA	10				
61	Protocol Punching	Punching of Protocols for field activities Protal entry In Protal Or Installation Data Capatauring IN MY MMG Mobile Application	Bidder has to punch protocol or Installation Details capturing In MY MMG Mobile APP for Meter installation (Both Single Phase and Three Phase activity/Modem Installation / rectification / Meter Testing (HT and LT) activity / data downloading activity, with 5% QC	EA	16000				

Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 5(SED Soro)Soro,Bahanaga,Markona,Khaira				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C)
62	DT Metering	Static / Smart /DT Meter installation along with Meter Box and connection for CT / PT	Installation of DT meters 800/400/200/5A, installation of ring type CT, Meter Box, and associated accessories on LT side of transformers Incl Electrical Power Cable/Control Cable Laying & Termination	EA	800				
63	DT Metering	Static / Smart /DT Meter removal along with Meter Box	Removal of any DT meter from site with De energisation of Meter, Modem and its allied accessories	EA	200				
64	DT Metering	Static / Smart /DT Meter installation along with Meter Box and Complete Electrical connection	Installation of Static / Smart /DT Meter meters, along with Meter Box, Mounting Arrangement Installation and associated accessories on LT side of transformers.	EA	200				
65	DT Metering	Concreting of Prefabricated GI Structure base by Cement, Sand & Chips Grade M40	Supply of Cement, Sand & Chips, digging of hole Labour as per the site requirement	EA	200				
66	DT Metering	GI Nut, bolts & washer \	Supply of GI Nut, bolts & washer as per the site requirement M10 -M20	KG	200				
67	DT Metering	Installation of 1C*95 , 1C X 150, 1C*300, sq mm from Tr. LT side through meters.	Installation of cable from Meter To Source Vice Varsa Upto 6- 40 MTR	EA	200				
68	DT Metering	DT Meter with box Removal - All Rating	Removal of any DT meter from site with de-energisation, Meter, modem and its allied accessories with meter box.	EA	200				
69	DT Metering	Modem Installation	Replacement of faulty modem with healthy modem after opening of meter box by removing seals. Coordination with communication testing desk at back office and after ensuring communication, resealing of meter box.	EA	200				
70	DT Metering	Return Cases - of Modem TS	Return Case of Modem Troubleshooting cases where site visit has been done and modem could not be rectified due to reasons not attributable to BA. The activity include pasting notice , providing photograph of site.	EA	200				
71	DT Metering	Shifting of Meter from Central store to respective Division / Sub division.	Bidder has to provide vehicle and sufficient manpower for shifting of Meters/accessories from Central Store to respective Division / sub division The activity include loading and unloading of material at designated locations/stores. Meter LOT size shall be 100 meters. (Quantity mentioned in number of to and fro trips). Separate rate to be quoted for the distance range 1-50 Km, 51-100 Km, 100-150 Km, 150-200 Km, & above 200 Kms	EA	200				

Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 5(SED Soro)Soro,Bahanaga,Markona,Khaira				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C)
72	DT Metering	Meter & Channel Earthing	Earthing of the meter and meter channel	EA	800				
<b>Total all inclusive Amount for First year (Year -1)</b>					<b>Total Amount For Year 1</b>				.....
<b>Percentage (%) escalation for Second year (Year 2)</b> <b>(The % escalation shall be applicable on unit rate of all service line item for second year)</b>					..... %				
<b>Total all inclusive Amount for Second year (Year -2)</b>					<b>Total Amount For Year 2</b>				.....
<b>Total Overall all inclusive value for Year 1 and Year 2 ( in Rs.)</b>					<b>Rs. ....</b>				
<p>Note -The bids shall be evaluated commercially on the overall lowest cost for each Divison Set <u>for both years</u>. Therefore bidders are advised to quote their best price for year 1 and best % escalation for year 2 as well.</p>									

Abbreviations	
SP	Single Phase
PP	Poly Phase
LT CT	Low Tension Current Transformer Operated Meters
DT Metering	Distribution TRf Metering
HT CT	High Tension Current Transformer Operated Meters
FSC	Field Service Executive
DD	Data Download
MTS	Modem Trouble Shooting
SVR	Survey
BA	Business Associate / Vendor / Bidder

## Annexure-1 (Schedule of Items)

Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 6(BNED Bhadrak)Bhadrak No-1,Bhadrak No-2,Tihidi,Basudevpur,Dhamara				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C)
1	SP	Meter Installation - Single Phase	Installation of 1 phase energy meter with / without meter box. Static /BLE /Smart AMI	EA	20000				
2	SP	Installation of 2C*4 sq mm/2*6 sq mm /2 C* 10 SQMM armoured, Cable O/H (Length 7M-30M)	Stringing, sagging of armoured service cable size 2CX 4 sq mm /2Cx6 mm with length between 7m to 30m including installation of saddle, fastener for support and connection at pole /Required to Fix Height rising Channel,Angle With Anchor Fastener ,Nut & Bolts Supply Of Sundry Items Like Anchor Fastener ( M 12 ) and Nut Bolts will Be in BA Scope With in Service Cable Laying Cost ./Required to Fix Height rising Channel ,Angle With Anchor Fastener ,Nut & Bolts Supply Of Sundry Items Like Anchor Fastener ( M 12 ) and Nut Bolts will Be in BA Scope With in Service Cable Laying Cost .	EA	4000				
3	SP	Meter Removal - Single Phase	Removal of single phase meter without service cable.	EA	16000				
4	SP	Service Cable Removal of any size used for Single Ph connections	Removal of service cable of any size used for single Phase connections from pole/ LT Network.	EA	500				
5	SP	SP Meter Box Replacement	Replacement only Meter box WC Meter (1 Ph) & Smart Meter Single Phase	EA	500				
6	SP	SP Meter Shifting ( Without cable replacement)	Shifting of 1 ph Meters from inside to outside of premises ,height meters to 5 to 6 ft range and as per requirement (With out Cable Replacement )	EA	500				
7	SP	SP Meter Shifting ( With cable replacement)	Shifting of 1 ph Meters from inside to outside of premises ,height meters to 5 to 6 ft range and as per requirement (With cable Replacement)	EA	500				
8	PP	Meter Installation - Poly Phase Whole Current	Installation of Poly Phase whole current energy meter with / without meter box BLE/static /Smart AMI	EA	900				
9	PP	Installation of 4C*25 sq mm armoured, Cable O/H (Length 7M-30M)	Stringing, sagging of armoured service cable size 4CX 25 sq mm with length between 7m to 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble.	EA	150				
10	PP	Installation of 4C*6/4C*10 /4C*16 /Controc Cable Laying sq mm armoured, Cable O/H (Length 7M-30M)	Stringing, sagging of armoured service cable size 4CX 10 sq mm with length between 7m to 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble.	EA	75				
11	PP	Meter Removal - Poly Phase Whole Current	Removal of Poly Phase whole current meter with / without meter box.	EA	700				

Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 6(BNED Bhadrak)Bhadrak No-1,Bhadrak No-2,Tihidi,Basudevpur,Dhamara				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C)
12	PP	Service Cable Removal of any size used for Poly Phase connections	Removal of service cable of 4C X 10 sq mm(majorly) or any other size used for Poly Phase Whole Current connections from pole/ LT Network.	EA	100				
13	P/PP / LTC	Meter Accuracy test at site with Accucheck	Single Phase /Polyphase/LTCT Meter Testing with Accucheck (Will be provided by TPNODL) to be done.	EA	800				
14	SP/PP	Supply and Installation of wall corner clamp	Supply and Installation of Wall Corner Clamp. Consumables i.e. fastener etc. shall be in the scope of BA	EA	300				
15	SP/PP	Supply and Installation of Stand pipe for maintaining the Sagging.	Supply and Installation of Stand pipe for maintaining the Sagging. (LT GI Pipe for Service Line Support as per REC / TPNODL standard)	EA	2800				
16	SP/PP	Bus bar Installation	Installation of any type of bus bar box ( 2 Way & 4 Way etc ) on wall / Pole along with supply of fasteners, steel strap and buckles. (Fastener / Steel strap shall be supplied by BA)	EA	100				
17	SP/PP	Prefabricated GI Structure (Supply Item) / kg	Supply & Installation of Prefabricated / GI structural angle/ channel / flats of different sizes, as per the site requirement	Kg	2000				
18	SP/PP	Installation of Bracket Angle/ service anchor/ suspension clamp/ slotted angle	Installation of GI Bracket for Anchoring service cable of size 50, 95 & 150 sqmm / Installation of Service Cable Anchor / Installation of Slotted angle on pole in case of 2x10/4x10/4x25 cable lying, on uncleaned poles. (Number of items used at one site shall be considered for billing).	EA	1400				
19	SP/PP	Loop Connection for service cable size 2C X 4 sq mm/ 2C X 10 sq mm/ 4C X 10 sq mm/ 4C X 25 sq mm with length ≤ 6 M	Stringing of loop connection ( length ≤ 6 meter ) for service cable size 2C X 4 sq mm/ 2C X 10 sq mm/ 4C X 10 sq mm/ 4C X 25 sq mm.	EA	100				
20	PP/DT	Distribution box/ Busbar work	Bus bar/Distribution Box Installation: Installation of any type of bus bar box on wall / Pole along with supply of fasteners, steel strap and buckles. (Fastener / Steel strap shall be supplied by BA)	EA	600				
21	PP/DT	Distribution box/ Busbar work	Bus bar/Distribution Box Removal	EA	600				
22	PP/DT	Meter Box Replacement	Replacement only Meter box WC Meter (3 Ph)	EA	600				
23	PP/DT	Meter Box Replacement	Replacement only Meter box LTCT Meter	EA	600				
24	PP/DT	Meter shifting work	Shifting of 3 ph WC Meters from inside to outside of premises ,height meters to 5 to 6 ft range and as per requirement.	EA	600				
25	PP/DT	Transportation	Hiring of Crane for Cubical and other related work (Rate/Hr)	EA	10				

Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 6(BNED Bhadrak)Bhadrak No-1,Bhadrak No-2,Tihidi,Basudevpur,Dhamara				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C)
26	LTCT	Static / Smart installation along with Meter Box and connection for CT / PT	Installation of Static / Smart meters along with ring type CT, Meter Box, and associated accessories on LT side of transformers.	EA	10				
27	LTCT	Installation of 4C*95 / 4C X 150 sq mm armoured service cable, O/H (Length up to 30M)	Stringing, sagging of armoured service cable size 4CX 95 sq mm / 4C X 150 sq mm with length upto 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble. (Saddles and Fastners are to be supplied by BA)	EA	25				
28	LTCT	Installation of LTCT Meter with Resign cast CT box (For 100/5 Amps & 200/5 Amps)	Installation, energisation along with communication of new LTCT meters with resin cast CT box and allied accessories. The activity includes supply of 8 Nos of lugs and its crimping on Service cable and connections, Complete grouting of meter box, Communication check of meter with back end server. Earthing also needs to be extended using armour of cable from pole to inside the meter box using suitable size of lugs. (These lugs will also be in scope of supply of BA.)	EA	50				
29	LTCT	Meter Replacement - LTCT Meter Only without box replacement.	Replacement of LTCT meter/ LTCT Smart meter of any rating i.e. 100/5A or 200/5A or 400/5A without box	EA	25				
30	LTCT	Fault rectification in CT Meter pertaining to termination/LT Cable dressing.	Fault rectification includes termination (thimble / socket crimping, gland change, cable lead extension crimping and tightening) and cable dressing.	EA	25				
31	LTCT	LTCT Meter with box Removal - All Rating	Removal of any LTCT meter from site with de-energisation, Meter, modem and its allied accessories with meter box.	EA	25				
32	HT	Meter Accuracy test at site (HTCT)--	HTCT Meter Testing to be done at site. Testing kit will be provided by TPNODL.	EA	50				
33	HT	CTPT / Metering cubicle Installation	Installation of new HT 11 KV Metering cubicle / CTPT unit. The activity includes to & fro transportation, commissioning, energisation of unit in all respect (i.e. connections of CTPT / Metering cubicle , fixing of complete Unit, necessary masonry work, grouting, Cable terminations, control cable connections, socket/thimble crimp , earthing connections, vermin proofing if any) . Note : Loading, Unloading, Installation of CT PT unit, Metering Cubicle at store, site through crane will be included in this cost.	EA	30				

Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 6(BNED Bhadrak)Bhadrak No-1,Bhadrak No-2,Tihidi,Basudevpur,Dhamara				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C)
34	HT	Pole mounted CTPT Installation	Installation of new HT 11 KV out door Metering CTPT unit, includes to & fro transportation, commissioning and energisation in all respect (i.e. connection in meter box from CTPT terminal block through control cable, pole mount CTPT unit erected at 30' height. Fix and Bolt CTPT unit, stand pipe flange, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CTPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door).	EA	50				
35	HT	Meter Installation - HT Meter Only--	Installation of any HT energy meter along with modem and its termination in Metering cubicle / CTPT unit. This will include removal of existing energy meter if installed. HT team will take care of metering activities of falling under the geographical area of Circle. This rate will include travelling up to an average of 50 KM / case/ month (including to and fro). Any travel beyond an avg. of 50 KM / cases / Month will be paid in the lot of 50 KM basis over and above the rates quoted per activity. BA to quote rate for additional travel / 50 KM during any month.	EA	40				
36	HT	Replacement of only HT meter chamber at PMSS OR Replacement / Shifting of control cable pipe with meter chamber for CTPT unit--circlewise	Replacement of HT Metering chamber of HT 11 KV out door Metering CTPT unit, replacement of control cable pipe , energy meter and allied accessories include to & fro transportation, commissioning and energisation in all respect (i.e. reconnection in meter box from CTPT terminal block through control cable, stand pipe flange replacement, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CTPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door). Note : Loading, Unloading, Installation of CT PT unit, Metering Cubicle at store, site through crane will be included in this cost.	EA	20				
37	HT	CTPT / Metering cubicle Removal	Dismantling of complete HT CTPT / Metering Cubicle unit which includes to & fro transportation, complete removal and de-energisation in all respect (i.e. disconnection in all respect, removal of control cable, ends termination removal and all accessories removal) Note : Loading, Unloading, Installation of CT PT unit, Metering Cubicle at store, site through crane will be included in this cost.	EA	10				

Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 6(BNED Bhadrak)Bhadrak No-1,Bhadrak No-2,Tihidi,Basudevapur,Dhamara				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C)
38	HT	Travel in HT Meter Installation - (Travel charges in lot of 50 KM)	Rate for travel of HT Vehicle for additional travel in lot of 50 KM (over and above which is covered in Sr. No 27 / 28 /29 /30 ) for a month. Rate for 50 KM additional mileage after rounding off to be charged. If more than one activity is performed at one site at a time, then this cost to be charged against only one activity.	Lot size of 50 KM each	30				
39	HT	Pole mounted CTPT Removal	Dismantling of complete HT metering out door CTPT unit, includes to & fro transportation, removing and de-energisation in all respect (i.e. connection from meter box from CTPT terminal block through control cable, pole mount CTPT unit erected at 30' height. Fix and Bolt CTPT unit, stand pipe flange, two earth connections, HT cable ends termination removal, socket/ thimble crimp, stand pipe flanges removal, meter terminal cover, window and chamber door removal from site).	EA	10				
40	HT	CTPT / Metering cubicle Installation	Installation of new HT 33 KV Metering cubicle / CTPT unit. The activity includes to & fro transportation, commissioning, energisation of unit in all respect (i.e. connections of CTPT / Metering cubicle , fixing of complete Unit, necessary masonry work, grouting, Cable terminations, control cable connections, socket/thimble crimp , earthing connections, vermin proofing if any) . Note : Loading, Unloading, Installation of CT PT unit, Metering Cubicle at store, site through crane will be included in this cost.	EA	30				
41	HT	Pole mounted CTPT Installation	Installation of new HT 33 KV out door Metering CTPT unit, includes to & fro transportation, commissioning and energisation in all respect (i.e. connection in meter box from CTPT terminal block through control cable, pole mount CTPT unit erected at 30' height. Fix and Bolt CTPT unit, stand pipe flange, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CTPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door).	EA	30				



Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 6(BNED Bhadrak)Bhadrak No-1,Bhadrak No-2,Tihidi,Basudevapur,Dhamara				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C)
42	HT	Replacement of only HT meter chamber at PMSS OR Replacement / Shifting of control cable pipe with meter chamber for CTPT unit--circlewise	Replacement of HT Metering chamber of HT 33 KV out door Metering CTPT unit, replacement of control cable pipe , energy meter and allied accessories include to & fro transportation, commissioning and energisation in all respect (i.e. reconnection in meter box from CTPT terminal block through control cable, stand pipe flange replacement, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CTPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door). Note : Loading, Unloading, Installation of CT PT unit, Metering Cubicle at store, site through crane will be included in this cost.	EA	20				
43	HT	Pole mounted CTPT Removal	Dismantling of complete 33 KV HT metering out door CTPT unit, includes to & fro transportation, removing and de-energisation in all respect (i.e. connection from meter box from CTPT terminal block through control cable, pole mount CTPT unit erected at 30' height. Fix and Bolt CTPT unit, stand pipe flange, two earth connections, HT cable ends termination removal, socket/ thimble crimp, stand pipe flanges removal, meter terminal cover, window and chamber door removal from site).	EA	10				
44	HT/DT	DP Structure Related	Supply and Installation of 11KV complete DP Structure 9Mtr including pressure channel, MU mounting channel, Angle, Stay set, GI pipe, Complete Concreting, Base plating, etc. including supply of material & transportation (Supply of Pole Excluded).	EA	10				
45	HT/DT	DP Structure Related	Replacement of 11KV complete DP Structure 9Mtr including pressure channel, MU mounting channel, Angle, Stay set, GI pipe, Complete Concreting, Base plating, etc. including supply of material & transportation,	EA	10				
46	HT/DT	DP Structure Related	Removal of 11KV complete DP Structure 9Mtr including pressure channel, MU mounting channel, Angle, Stay set, GI pipe, Complete Concreting, Base plating, etc. including transportation.	EA	10				
47	HT/DT	DP Structure Related	Supply and Installation of 33KV complete DP Structure 9Mtr including pressure channel, MU mounting channel, Angle, Stay set, GI pipe, Complete Concreting, Base plating, earthing etc. including supply of material & transportation (Supply of Pole Excluded).	EA	10				
48	HT/DT	DP Structure Related	Replacement of 33KV complete DP Structure 9Mtr including pressure channel, MU mounting channel, Angle, Stay set, GI pipe, Complete Concreting, Base plating, earthing, etc. including supply of material & transportation.	EA	10				

Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 6(BNED Bhadrak)Bhadrak No-1,Bhadrak No-2,Tihidi,Basudevpur,Dhamara				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C)
49	HT/DT	DP Structure Related	Removal of 33KV complete DP Structure 9Mtr including pressure channel, MU mounting channel, Angle, Stay set, GI pipe, Complete Concreting, Base plating, earthing, etc. including transportation	EA	10				
50	FSE	FSE- New Connection	Site verification of new connection with capturing of details as mentioned in site verification form and capturing photographs. Further submission of SVR and file at respective division office.	EA	1000				
51	FSE	FSE - Attribute Change	Site verification Attribute case with capturing of details as mentioned in Attribute Change form and capturing photographs. Further submission of SVR and file at respective division office.	EA	1000				
52	FSE	FSE - SVR Dues/Meter Reading cross check.	Site verification for confirmation of dues with capturing of details as mentioned in dues verification form and capturing photographs. Further submission of SVR and file at respective division office.	EA	600				
53	DD	Data Downloading from Meter (Single Phase )	Data downloading of Meter data after opening of meter box seals and thereafter resealing it. Including DT Meter Reading	EA	600				
54	DD	Data Downloading from Meter (Three Phase/Poly Phase /DT Metering )	Data downloading of Meter data after opening of meter box seals and thereafter resealing it. Including DT Meter Reading	EA	24308				
55	DD	Manul Meter Reading and SVR (Three Phase /Poly Phase/DT Metering)	Taking manual reading parameters from meter display, providing remarks with photographs where data can not be downloaded for reason not attributable to BA, Prepare SVR Against OK Meter in site but Faulty Meter recorded in TPNODL Ledger	EA	6077				
56	MTS	Modem Trouble Shooting activity/Smart Meter Nickcard Replacement & Trouble Shooting	Replacement of faulty modem with healthy modem/Smart Meter Nick card after opening of meter box by removing seals. Coordination with communication testing desk at back office and after ensuring communication, repealing of meter box.	EA	350				
57	MTS	Return Cases - of Modem TS	Return Case of Modem Troubleshooting cases where site visit has been done and modem could not be rectified due to reasons not attributable to BA. The activity include pasting notice , providing photograph of site.	EA	50				
58	SP	Return Cases - SP meter installation	Return Case of New connection and meter replacement cases where site visit has been done and meter could not be installed due to reasons not attributable to BA. The activity include pasting notice, providing photograph of site / meter, Reading and other details of meter. Address not traceable cases will not be included .	EA	1650				

Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 6(BNED Bhadrak)Bhadrak No-1,Bhadrak No-2,Tihidi,Basudevpur,Dhamara				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C)
59	SP	Shifting of Meters (New / old) from Central store to site store or Site store to Central store. (Bidder has to provide vehicle and sufficient manpower for shifting of Meters/Meter Boxes /accessories from Central Store to respective Division / sub division. The activity include loading and unloading of material at designated locations/stores. Meter LOT size shall be 1000 meters For New Meter 2000 Meter for Scarp Old Meter . Otherthen Define lot Rate will be provided in prorate Basis.	Up to 50 Km						
			Up to 100 Km						
			Up to 150 Km		10				
			Up to 200 Km		10				
			Above 200 Km	EA	10				
60	SP	Shifting of Cable from Central store to site store or Site store to Central store. Bidder has to provide vehicle and sufficient manpower for shifting of cable . The activity include loading and unloading of material at designated locations/stores. LOT size shall be 6Km for 2*4 sqmm/2*6 MM cable/ any 2 core cable.Otherthen Define lot Rate will be provided in prorate Basis.	Up to 50 Km		10				
			Up to 100 Km		10				
			Up to 150 Km		10				
			Up to 200 Km		10				
			Above 200 Km	EA	10				
61	Protocol Punching	Punching of Protocols for field activities Protal entry In Protal Or Installation Data Capatauring IN MY MMG Mobile Application	Bidder has to punch protocol or Installation Details capturing In MY MMG Mobile APP for Meter installation (Both Single Phase and Three Phase activity/Modem Installation / rectification / Meter Testing (HT and LT) activity / data downloading activity, with 5% QC	EA	21000				

Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 6(BNED Bhadrak)Bhadrak No-1,Bhadrak No-2,Tihidi,Basudevpur,Dhamara				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C)
62	DT Metering	Static / Smart /DT Meter installation along with Meter Box and connection for CT / PT	Installation of DT meters 800/400/200/5A, installation of ring type CT, Meter Box, and associated accessories on LT side of transformers Incl Electrical Power Cable/Control Cable Laying & Termination	EA	800				
63	DT Metering	Static / Smart /DT Meter removal along with Meter Box	Removal of any DT meter from site with De energisation of Meter, Modem and its allied accessories	EA	200				
64	DT Metering	Static / Smart /DT Meter installation along with Meter Box and Complete Electrical connection	Installation of Static / Smart /DT Meter meters, along with Meter Box, Mounting Arrangement Installation and associated accessories on LT side of transformers.	EA	200				
65	DT Metering	Concreting of Prefabricated GI Structure base by Cement, Sand & Chips Grade M40	Supply of Cement, Sand & Chips, digging of hole Labour as per the site requirement	EA	200				
66	DT Metering	GI Nut, bolts & washer \	Supply of GI Nut, bolts & washer as per the site requirement M10 -M20	KG	200				
67	DT Metering	Installation of 1C*95 , 1C X 150, 1C*300, sq mm from Tr. LT side through meters.	Installation of cable from Meter To Source Vice Varsa Upto 6- 40 MTR	EA	200				
68	DT Metering	DT Meter with box Removal - All Rating	Removal of any DT meter from site with de-energisation, Meter, modem and its allied accessories with meter box.	EA	200				
69	DT Metering	Modem Installation	Replacement of faulty modem with healthy modem after opening of meter box by removing seals. Coordination with communication testing desk at back office and after ensuring communication, resealing of meter box.	EA	200				
70	DT Metering	Return Cases - of Modem TS	Return Case of Modem Troubleshooting cases where site visit has been done and modem could not be rectified due to reasons not attributable to BA. The activity include pasting notice , providing photograph of site.	EA	200				
71	DT Metering	Shifting of Meter from Central store to respective Division / Sub division.	Bidder has to provide vehicle and sufficient manpower for shifting of Meters/accessories from Central Store to respective Division / sub division The activity include loading and unloading of material at designated locations/stores. Meter LOT size shall be 100 meters. (Quantity mentioned in number of to and fro trips). Separate rate to be quoted for the distance range 1-50 Km, 51-100 Km, 100-150 Km, 150-200 Km, & above 200 Kms	EA	200				

Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 6(BNED Bhadrak)Bhadrak No-1,Bhadrak No-2,Tihidi,Basudevpur,Dhamara				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C)
72	DT Metering	Meter & Channel Earthing	Earthing of the meter and meter channel	EA	800				
<b>Total all inclusive Amount for First year (Year -1)</b>					<b>Total Amount For Year 1</b>				.....
<b>Percentage (%) escalation for Second year (Year 2)</b> <b>(The % escalation shall be applicable on unit rate of all service line item for second year)</b>					..... %				
<b>Total all inclusive Amount for Second year (Year -2)</b>					<b>Total Amount For Year 2</b>				.....
<b>Total Overall all inclusive value for Year 1 and Year 2 ( in Rs.)</b>					<b>Rs. ....</b>				
<p>Note -The bids shall be evaluated commercially on the overall lowest cost for each Divison Set <u>for both years</u>. Therefore bidders are advised to quote their best price for year 1 and best % escalation for year 2 as well.</p>									

Abbreviations	
SP	Single Phase
PP	Poly Phase
LT CT	Low Tension Current Transformer Operated Meters
DT Metering	Distribution TRf Metering
HT CT	High Tension Current Transformer Operated Meters
FSC	Field Service Executive
DD	Data Download
MTS	Modem Trouble Shooting
SVR	Survey
BA	Business Associate / Vendor / Bidder

## Annexure-1 (Schedule of Items)

Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 7(BSED Bhadrak)Asurali,Dhamnagar,RE Bhadrak				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C)
1	SP	Meter Installation - Single Phase	Installation of 1 phase energy meter with / without meter box. Static /BLE /Smart AMI	EA	7000				
2	SP	Installation of 2C*4 sq mm/2*6 sq mm /2 C* 10 SQMM armoured, Cable O/H (Length 7M-30M)	Stringing, sagging of armoured service cable size 2CX 4 sq mm /2Cx6 mm with length between 7m to 30m including installation of saddle, fastener for support and connection at pole /Required to Fix Height rising Channel,Angle With Anchor Fastener ,Nut & Bolts Supply Of Sundry Items Like Anchor Fastener ( M 12 ) and Nut Bolts will Be in BA Scope With in Service Cable Laying Cost ./Required to Fix Height rising Channel ,Angle With Anchor Fastener ,Nut & Bolts Supply Of Sundry Items Like Anchor Fastener ( M 12 ) and Nut Bolts will Be in BA Scope With in Service Cable Laying Cost .	EA	3000				
3	SP	Meter Removal - Single Phase	Removal of single phase meter without service cable.	EA	6000				
4	SP	Service Cable Removal of any size used for Single Ph connections	Removal of service cable of any size used for single Phase connections from pole/ LT Network.	EA	500				
5	SP	SP Meter Box Replacement	Replacement only Meter box WC Meter (1 Ph) & Smart Meter Single Phase	EA	500				
6	SP	SP Meter Shifting ( Without cable replacement)	Shifting of 1 ph Meters from inside to outside of premises ,height meters to 5 to 6 ft range and as per requirement (With out Cable Replacement )	EA	500				
7	SP	SP Meter Shifting ( With cable replacement)	Shifting of 1 ph Meters from inside to outside of premises ,height meters to 5 to 6 ft range and as per requirement (With cable Replacement)	EA	500				
8	PP	Meter Installation - Poly Phase Whole Current	Installation of Poly Phase whole current energy meter with / without meter box BLE/static /Smart AMI	EA	900				
9	PP	Installation of 4C*25 sq mm armoured, Cable O/H (Length 7M-30M)	Stringing, sagging of armoured service cable size 4CX 25 sq mm with length between 7m to 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble.	EA	150				
10	PP	Installation of 4C*6/4C*10 /4C*16 /Controc Cable Laying sq mm armoured, Cable O/H (Length 7M-30M)	Stringing, sagging of armoured service cable size 4CX 10 sq mm with length between 7m to 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble.	EA	75				
11	PP	Meter Removal - Poly Phase Whole Current	Removal of Poly Phase whole current meter with / without meter box.	EA	700				

Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 7(BSED Bhadrak)Asurali,Dhamnagar,RE Bhadrak				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C)
12	PP	Service Cable Removal of any size used for Poly Phase connections	Removal of service cable of 4C X 10 sq mm(majorly) or any other size used for Poly Phase Whole Current connections from pole/ LT Network.	EA	100				
13	P/PP / LTC	Meter Accuracy test at site with Accucheck	Single Phase /Polyphase/LTCT Meter Testing with Accucheck (Will be provided by TPNODL) to be done.	EA	800				
14	SP/PP	Supply and Installation of wall corner clamp	Supply and Installation of Wall Corner Clamp. Consumables i.e. fastener etc. shall be in the scope of BA	EA	300				
15	SP/PP	Supply and Installation of Stand pipe for maintaining the Sagging.	Supply and Installation of Stand pipe for maintaining the Sagging. (LT GI Pipe for Service Line Support as per REC / TPNODL standard)	EA	2800				
16	SP/PP	Bus bar Installation	Installation of any type of bus bar box ( 2 Way & 4 Way etc ) on wall / Pole along with supply of fasteners, steel strap and buckles. (Fastener / Steel strap shall be supplied by BA)	EA	100				
17	SP/PP	Prefabricated GI Structure (Supply Item) / kg	Supply & Installation of Prefabricated / GI structural angle/ channel / flats of different sizes, as per the site requirement	Kg	2000				
18	SP/PP	Installation of Bracket Angle/ service anchor/ suspension clamp/ slotted angle	Installation of GI Bracket for Anchoring service cable of size 50, 95 & 150 sqmm / Installation of Service Cable Anchor / Installation of Slotted angle on pole in case of 2x10/4x10/4x25 cable lying, on uncleaned poles. (Number of items used at one site shall be considered for billing).	EA	1400				
19	SP/PP	Loop Connection for service cable size 2C X 4 sq mm/ 2C X 10 sq mm/ 4C X 10 sq mm/ 4C X 25 sq mm with length ≤ 6 M	Stringing of loop connection ( length ≤ 6 meter ) for service cable size 2C X 4 sq mm/ 2C X 10 sq mm/ 4C X 10 sq mm/ 4C X 25 sq mm.	EA	100				
20	PP/DT	Distribution box/ Busbar work	Bus bar/Distribution Box Installation: Installation of any type of bus bar box on wall / Pole along with supply of fasteners, steel strap and buckles. (Fastener / Steel strap shall be supplied by BA)	EA	600				
21	PP/DT	Distribution box/ Busbar work	Bus bar/Distribution Box Removal	EA	600				
22	PP/DT	Meter Box Replacement	Replacement only Meter box WC Meter (3 Ph)	EA	600				
23	PP/DT	Meter Box Replacement	Replacement only Meter box LTCT Meter	EA	600				
24	PP/DT	Meter shifting work	Shifting of 3 ph WC Meters from inside to outside of premises ,height meters to 5 to 6 ft range and as per requirement.	EA	600				
25	PP/DT	Transportation	Hiring of Crane for Cubical and other related work (Rate/Hr)	EA	10				

Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 7(BSED Bhadrak)Asurali,Dhamnagar,RE Bhadrak				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C)
26	LTCT	Static / Smart installation along with Meter Box and connection for CT / PT	Installation of Static / Smart meters along with ring type CT, Meter Box, and associated accessories on LT side of transformers.	EA	10				
27	LTCT	Installation of 4C*95 / 4C X 150 sq mm armoured service cable, O/H (Length up to 30M)	Stringing, sagging of armoured service cable size 4CX 95 sq mm / 4C X 150 sq mm with length upto 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble. (Saddles and Fastners are to be supplied by BA)	EA	25				
28	LTCT	Installation of LTCT Meter with Resign cast CT box (For 100/5 Amps & 200/5 Amps)	Installation, energisation along with communication of new LTCT meters with resin cast CT box and allied accessories. The activity includes supply of 8 Nos of lugs and its crimping on Service cable and connections, Complete grouting of meter box, Communication check of meter with back end server. Earthing also needs to be extended using armour of cable from pole to inside the meter box using suitable size of lugs. (These lugs will also be in scope of supply of BA.)	EA	50				
29	LTCT	Meter Replacement - LTCT Meter Only without box replacement.	Replacement of LTCT meter/ LTCT Smart meter of any rating i.e. 100/5A or 200/5A or 400/5A without box	EA	25				
30	LTCT	Fault rectification in CT Meter pertaining to termination/LT Cable dressing.	Fault rectification includes termination (thimble / socket crimping, gland change, cable lead extension crimping and tightening) and cable dressing.	EA	25				
31	LTCT	LTCT Meter with box Removal - All Rating	Removal of any LTCT meter from site with de-energisation, Meter, modem and its allied accessories with meter box.	EA	25				
32	HT	Meter Accuracy test at site (HTCT)--	HTCT Meter Testing to be done at site. Testing kit will be provided by TPNODL.	EA	50				
33	HT	CTPT / Metering cubicle Installation	Installation of new HT 11 KV Metering cubicle / CTPT unit. The activity includes to & fro transportation, commissioning, energisation of unit in all respect (i.e. connections of CTPT / Metering cubicle , fixing of complete Unit, necessary masonry work, grouting, Cable terminations, control cable connections, socket/thimble crimp , earthing connections, vermin proofing if any) . Note : Loading, Unloading, Installation of CT PT unit, Metering Cubicle at store, site through crane will be included in this cost.	EA	30				



Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 7(BSED Bhadrak)Asurali,Dhamnagar,RE Bhadrak				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C)
34	HT	Pole mounted CTPT Installation	Installation of new HT 11 KV out door Metering CTPT unit, includes to & fro transportation, commissioning and energisation in all respect (i.e. connection in meter box from CTPT terminal block through control cable, pole mount CTPT unit erected at 30' height. Fix and Bolt CTPT unit, stand pipe flange, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CTPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door).	EA	50				
35	HT	Meter Installation - HT Meter Only--	Installation of any HT energy meter along with modem and its termination in Metering cubicle / CTPT unit. This will include removal of existing energy meter if installed. HT team will take care of metering activities of falling under the geographical area of Circle. This rate will include travelling up to an average of 50 KM / case/ month (including to and fro). Any travel beyond an avg. of 50 KM / cases / Month will be paid in the lot of 50 KM basis over and above the rates quoted per activity. BA to quote rate for additional travel / 50 KM during any month.	EA	40				
36	HT	Replacement of only HT meter chamber at PMSS OR Replacement / Shifting of control cable pipe with meter chamber for CTPT unit--circlewise	Replacement of HT Metering chamber of HT 11 KV out door Metering CTPT unit, replacement of control cable pipe , energy meter and allied accessories include to & fro transportation, commissioning and energisation in all respect (i.e. reconnection in meter box from CTPT terminal block through control cable, stand pipe flange replacement, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CTPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door). Note : Loading, Unloading, Installation of CT PT unit, Metering Cubicle at store, site through crane will be included in this cost.	EA	20				
37	HT	CTPT / Metering cubicle Removal	Dismantling of complete HT CTPT / Metering Cubicle unit which includes to & fro transportation, complete removal and de-energisation in all respect (i.e. disconnection in all respect, removal of control cable, ends termination removal and all accessories removal) Note : Loading, Unloading, Installation of CT PT unit, Metering Cubicle at store, site through crane will be included in this cost.	EA	10				

Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 7(BSED Bhadrak)Asurali,Dhamnagar,RE Bhadrak				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C)
38	HT	Travel in HT Meter Installation - (Travel charges in lot of 50 KM)	Rate for travel of HT Vehicle for additional travel in lot of 50 KM (over and above which is covered in Sr. No 27 / 28 /29 /30 ) for a month. Rate for 50 KM additional mileage after rounding off to be charged. If more than one activity is performed at one site at a time, then this cost to be charged against only one activity.	Lot size of 50 KM each	30				
39	HT	Pole mounted CTPT Removal	Dismantling of complete HT metering out door CTPT unit, includes to & fro transportation, removing and de-energisation in all respect (i.e. connection from meter box from CTPT terminal block through control cable, pole mount CTPT unit erected at 30' height. Fix and Bolt CTPT unit, stand pipe flange, two earth connections, HT cable ends termination removal, socket/ thimble crimp, stand pipe flanges removal, meter terminal cover, window and chamber door removal from site).	EA	10				
40	HT	CTPT / Metering cubicle Installation	Installation of new HT 33 KV Metering cubicle / CTPT unit. The activity includes to & fro transportation, commissioning, energisation of unit in all respect (i.e. connections of CTPT / Metering cubicle , fixing of complete Unit, necessary masonry work, grouting, Cable terminations, control cable connections, socket/thimble crimp , earthing connections, vermin proofing if any) . Note : Loading, Unloading, Installation of CT PT unit, Metering Cubicle at store, site through crane will be included in this cost.	EA	30				
41	HT	Pole mounted CTPT Installation	Installation of new HT 33 KV out door Metering CTPT unit, includes to & fro transportation, commissioning and energisation in all respect (i.e. connection in meter box from CTPT terminal block through control cable, pole mount CTPT unit erected at 30' height. Fix and Bolt CTPT unit, stand pipe flange, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CTPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door).	EA	30				

Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 7(BSED Bhadrak)Asurali,Dhamnagar,RE Bhadrak				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C)
42	HT	Replacement of only HT meter chamber at PMSS OR Replacement / Shifting of control cable pipe with meter chamber for CTPT unit--circlewise	Replacement of HT Metering chamber of HT 33 KV out door Metering CTPT unit, replacement of control cable pipe , energy meter and allied accessories include to & fro transportation, commissioning and energisation in all respect (i.e. reconnection in meter box from CTPT terminal block through control cable, stand pipe flange replacement, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CTPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door). Note : Loading, Unloading, Installation of CT PT unit, Metering Cubicle at store, site through crane will be included in this cost.	EA	3				
43	HT	Pole mounted CTPT Removal	Dismantling of complete 33 KV HT metering out door CTPT unit, includes to & fro transportation, removing and de-energisation in all respect (i.e. connection from meter box from CTPT terminal block through control cable, pole mount CTPT unit erected at 30' height. Fix and Bolt CTPT unit, stand pipe flange, two earth connections, HT cable ends termination removal, socket/ thimble crimp, stand pipe flanges removal, meter terminal cover, window and chamber door removal from site).	EA	10				
44	HT/DT	DP Structure Related	Supply and Installation of 11KV complete DP Structure 9Mtr including pressure channel, MU mounting channel, Angle, Stay set, GI pipe, Complete Concreting, Base plating, etc. including supply of material & transportation (Supply of Pole Excluded).	EA	10				
45	HT/DT	DP Structure Related	Replacement of 11KV complete DP Structure 9Mtr including pressure channel, MU mounting channel, Angle, Stay set, GI pipe, Complete Concreting, Base plating, etc. including supply of material & transportation,	EA	10				
46	HT/DT	DP Structure Related	Removal of 11KV complete DP Structure 9Mtr including pressure channel, MU mounting channel, Angle, Stay set, GI pipe, Complete Concreting, Base plating, etc. including transportation.	EA	10				
47	HT/DT	DP Structure Related	Supply and Installation of 33KV complete DP Structure 9Mtr including pressure channel, MU mounting channel, Angle, Stay set, GI pipe, Complete Concreting, Base plating, earthing etc. including supply of material & transportation (Supply of Pole Excluded).	EA	10				
48	HT/DT	DP Structure Related	Replacement of 33KV complete DP Structure 9Mtr including pressure channel, MU mounting channel, Angle, Stay set, GI pipe, Complete Concreting, Base plating, earthing, etc. including supply of material & transportation.	EA	10				

Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 7(BSED Bhadrak)Asurali,Dhamnagar,RE Bhadrak				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C)
49	HT/DT	DP Structure Related	Removal of 33KV complete DP Structure 9Mtr including pressure channel, MU mounting channel, Angle, Stay set, GI pipe, Complete Concreting, Base plating, earthing, etc. including transportation	EA	10				
50	FSE	FSE- New Connection	Site verification of new connection with capturing of details as mentioned in site verification form and capturing photographs. Further submission of SVR and file at respective division office.	EA	1000				
51	FSE	FSE - Attribute Change	Site verification Attribute case with capturing of details as mentioned in Attribute Change form and capturing photographs. Further submission of SVR and file at respective division office.	EA	1000				
52	FSE	FSE - SVR Dues/Meter Reading cross check.	Site verification for confirmation of dues with capturing of details as mentioned in dues verification form and capturing photographs. Further submission of SVR and file at respective division office.	EA	600				
53	DD	Data Downloading from Meter (Single Phase )	Data downloading of Meter data after opening of meter box seals and thereafter resealing it. Including DT Meter Reading	EA	600				
54	DD	Data Downloading from Meter (Three Phase/Poly Phase /DT Metering )	Data downloading of Meter data after opening of meter box seals and thereafter resealing it. Including DT Meter Reading	EA	13623				
55	DD	Manul Meter Reading and SVR (Three Phase /Poly Phase/DT Metering)	Taking manual reading parameters from meter display, providing remarks with photographs where data can not be downloaded for reason not attributable to BA, Prepare SVR Against OK Meter in site but Faulty Meter recorded in TPNODL Ledger	EA	3406				
56	MTS	Modem Trouble Shooting activity/Smart Meter Nickcard Replacement & Trouble Shooting	Replacement of faulty modem with healthy modem/Smart Meter Nick card after opening of meter box by removing seals. Coordination with communication testing desk at back office and after ensuring communication, repealing of meter box.	EA	350				
57	MTS	Return Cases - of Modem TS	Return Case of Modem Troubleshooting cases where site visit has been done and modem could not be rectified due to reasons not attributable to BA. The activity include pasting notice , providing photograph of site.	EA	50				
58	SP	Return Cases - SP meter installation	Return Case of New connection and meter replacement cases where site visit has been done and meter could not be installed due to reasons not attributable to BA. The activity include pasting notice, providing photograph of site / meter, Reading and other details of meter. Address not traceable cases will not be included .	EA	1350				

Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 7(BSED Bhadrak)Asurali,Dhamnagar,RE Bhadrak				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C)
59	SP	Shifting of Meters (New / old) from Central store to site store or Site store to Central store. (Bidder has to provide vehicle and sufficient manpower for shifting of Meters/Meter Boxes /accessories from Central Store to respective Division / sub division. The activity include loading and unloading of material at designated locations/stores. Meter LOT size shall be 1000 meters For New Meter 2000 Meter for Scarp Old Meter . Otherthen Define lot Rate will be provided in prorate Basis.	Up to 50 Km						
			Up to 100 Km		10				
			Up to 150 Km		10				
			Up to 200 Km		10				
			Above 200 Km	EA	10				
60	SP	Shifting of Cable from Central store to site store or Site store to Central store. Bidder has to provide vehicle and sufficient manpower for shifting of cable . The activity include loading and unloading of material at designated locations/stores. LOT size shall be 6Km for 2*4 sqmm/2*6 MM cable/ any 2 core cable.Otherthen Define lot Rate will be provided in prorate Basis.	Up to 50 Km						
			Up to 100 Km		10				
			Up to 150 Km		10				
			Up to 200 Km		10				
			Above 200 Km	EA	10				
61	Protocol Punching	Punching of Protocols for field activities Protal entry In Protal Or Installation Data Capatauring IN MY MMG Mobile Application	Bidder has to punch protocol or Installation Details capturing In MY MMG Mobile APP for Meter installation (Both Single Phase and Three Phase activity/Modem Installation / rectification / Meter Testing (HT and LT) activity / data downloading activity, with 5% QC	EA	8000				

Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 7(BSED Bhadrak)Asurali,Dhamnagar,RE Bhadrak				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C)
62	DT Metering	Static / Smart /DT Meter installation along with Meter Box and connection for CT / PT	Installation of DT meters 800/400/200/5A, installation of ring type CT, Meter Box, and associated accessories on LT side of transformers Incl Electrical Power Cable/Control Cable Laying & Termination	EA	800				
63	DT Metering	Static / Smart /DT Meter removal along with Meter Box	Removal of any DT meter from site with De energisation of Meter, Modem and its allied accessories	EA	200				
64	DT Metering	Static / Smart /DT Meter installation along with Meter Box and Complete Electrical connection	Installation of Static / Smart /DT Meter meters, along with Meter Box, Mounting Arrangement Installation and associated accessories on LT side of transformers.	EA	200				
65	DT Metering	Concreting of Prefabricated GI Structure base by Cement, Sand & Chips Grade M40	Supply of Cement, Sand & Chips, digging of hole Labour as per the site requirement	EA	200				
66	DT Metering	GI Nut, bolts & washer \	Supply of GI Nut, bolts & washer as per the site requirement M10 -M20	KG	200				
67	DT Metering	Installation of 1C*95 , 1C X 150, 1C*300, sq mm from Tr. LT side through meters.	Installation of cable from Meter To Source Vice Varsa Upto 6- 40 MTR	EA	200				
68	DT Metering	DT Meter with box Removal - All Rating	Removal of any DT meter from site with de-energisation, Meter, modem and its allied accessories with meter box.	EA	200				
69	DT Metering	Modem Installation	Replacement of faulty modem with healthy modem after opening of meter box by removing seals. Coordination with communication testing desk at back office and after ensuring communication, resealing of meter box.	EA	200				
70	DT Metering	Return Cases - of Modem TS	Return Case of Modem Troubleshooting cases where site visit has been done and modem could not be rectified due to reasons not attributable to BA. The activity include pasting notice , providing photograph of site.	EA	200				
71	DT Metering	Shifting of Meter from Central store to respective Division / Sub division.	Bidder has to provide vehicle and sufficient manpower for shifting of Meters/accessories from Central Store to respective Division / sub division The activity include loading and unloading of material at designated locations/stores. Meter LOT size shall be 100 meters. (Quantity mentioned in number of to and fro trips). Separate rate to be quoted for the distance range 1-50 Km, 51-100 Km, 100-150 Km, 150-200 Km, & above 200 Kms	EA	200				

Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 7(BSED Bhadrak)Asurali,Dhamnagar,RE Bhadrak				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C)
72	DT Metering	Meter & Channel Earthing	Earthing of the meter and meter channel	EA	800				
<b>Total all inclusive Amount for First year (Year -1)</b>					<b>Total Amount For Year 1</b>				.....
<b>Percentage (%) escalation for Second year (Year 2)</b> <b>(The % escalation shall be applicable on unit rate of all service line item for second year)</b>					..... %				
<b>Total all inclusive Amount for Second year (Year -2)</b>					<b>Total Amount For Year 2</b>				.....
<b>Total Overall all inclusive value for Year 1 and Year 2 ( in Rs.)</b>					<b>Rs. ....</b>				
<p>Note -The bids shall be evaluated commercially on the overall lowest cost for each Divison Set <u>for both years</u>. Therefore bidders are advised to quote their best price for year 1 and best % escalation for year 2 as well.</p>									

Abbreviations	
SP	Single Phase
PP	Poly Phase
LT CT	Low Tension Current Transformer Operated Meters
DT Metering	Distribution TRf Metering
HT CT	High Tension Current Transformer Operated Meters
FSC	Field Service Executive
DD	Data Download
MTS	Modem Trouble Shooting
SVR	Survey
BA	Business Associate / Vendor / Bidder

## Annexure-1 (Schedule of Items)

Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 8(BPED Baripada)Baripada,Baripada Rural,Betnoti,Kuliana				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C)
1	SP	Meter Installation - Single Phase	Installation of 1 phase energy meter with / without meter box. Static /BLE /Smart AMI	EA	33000				
2	SP	Installation of 2C*4 sq mm/2*6 sq mm /2 C* 10 SQMM armoured, Cable O/H (Length 7M-30M)	Stringing, sagging of armoured service cable size 2CX 4 sq mm /2Cx6 mm with length between 7m to 30m including installation of saddle, fastener for support and connection at pole /Required to Fix Height rising Channel,Angle With Anchor Fastener ,Nut & Bolts Supply Of Sundry Items Like Anchor Fastener ( M 12 ) and Nut Bolts will Be in BA Scope With in Service Cable Laying Cost ./Required to Fix Height rising Channel ,Angle With Anchor Fastener ,Nut & Bolts Supply Of Sundry Items Like Anchor Fastener ( M 12 ) and Nut Bolts will Be in BA Scope With in Service Cable Laying Cost .	EA	3000				
3	SP	Meter Removal - Single Phase	Removal of single phase meter without service cable.	EA	30000				
4	SP	Service Cable Removal of any size used for Single Ph connections	Removal of service cable of any size used for single Phase connections from pole/ LT Network.	EA	500				
5	SP	SP Meter Box Replacement	Replacement only Meter box WC Meter (1 Ph) & Smart Meter Single Phase	EA	500				
6	SP	SP Meter Shifting ( Without cable replacement)	Shifting of 1 ph Meters from inside to outside of premises ,height meters to 5 to 6 ft range and as per requirement (With out Cable Replacement )	EA	500				
7	SP	SP Meter Shifting ( With cable replacement)	Shifting of 1 ph Meters from inside to outside of premises ,height meters to 5 to 6 ft range and as per requirement (With cable Replacement)	EA	500				
8	PP	Meter Installation - Poly Phase Whole Current	Installation of Poly Phase whole current energy meter with / without meter box BLE/static /Smart AMI	EA	900				
9	PP	Installation of 4C*25 sq mm armoured, Cable O/H (Length 7M-30M)	Stringing, sagging of armoured service cable size 4CX 25 sq mm with length between 7m to 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble.	EA	150				
10	PP	Installation of 4C*6/4C*10 /4C*16 /Controc Cable Laying sq mm armoured, Cable O/H (Length 7M-30M)	Stringing, sagging of armoured service cable size 4CX 10 sq mm with length between 7m to 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble.	EA	75				
11	PP	Meter Removal - Poly Phase Whole Current	Removal of Poly Phase whole current meter with / without meter box.	EA	700				



Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 8(BPED Baripada)Baripada,Baripada Rural,Betnoti,Kuliana				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C)
12	PP	Service Cable Removal of any size used for Poly Phase connections	Removal of service cable of 4C X 10 sq mm(majorly) or any other size used for Poly Phase Whole Current connections from pole/ LT Network.	EA	100				
13	P/PP / LTC	Meter Accuracy test at site with Accucheck	Single Phase /Polyphase/LTCT Meter Testing with Accucheck (Will be provided by TPNODL) to be done.	EA	800				
14	SP/PP	Supply and Installation of wall corner clamp	Supply and Installation of Wall Corner Clamp. Consumables i.e. fastener etc. shall be in the scope of BA	EA	300				
15	SP/PP	Supply and Installation of Stand pipe for maintaining the Sagging.	Supply and Installation of Stand pipe for maintaining the Sagging. (LT GI Pipe for Service Line Support as per REC / TPNODL standard)	EA	2800				
16	SP/PP	Bus bar Installation	Installation of any type of bus bar box ( 2 Way & 4 Way etc ) on wall / Pole along with supply of fasteners, steel strap and buckles. (Fastener / Steel strap shall be supplied by BA)	EA	100				
17	SP/PP	Prefabricated GI Structure (Supply Item) / kg	Supply & Installation of Prefabricated / GI structural angle/ channel / flats of different sizes, as per the site requirement	Kg	2000				
18	SP/PP	Installation of Bracket Angle/ service anchor/ suspension clamp/ slotted angle	Installation of GI Bracket for Anchoring service cable of size 50, 95 & 150 sqmm / Installation of Service Cable Anchor / Installation of Slotted angle on pole in case of 2x10/4x10/4x25 cable lying, on uncleaned poles. (Number of items used at one site shall be considered for billing).	EA	1400				
19	SP/PP	Loop Connection for service cable size 2C X 4 sq mm/ 2C X 10 sq mm/ 4C X 10 sq mm/ 4C X 25 sq mm with length ≤ 6 M	Stringing of loop connection ( length ≤ 6 meter ) for service cable size 2C X 4 sq mm/ 2C X 10 sq mm/ 4C X 10 sq mm/ 4C X 25 sq mm.	EA	100				
20	PP/DT	Distribution box/ Busbar work	Bus bar/Distribution Box Installation: Installation of any type of bus bar box on wall / Pole along with supply of fasteners, steel strap and buckles. (Fastener / Steel strap shall be supplied by BA)	EA	600				
21	PP/DT	Distribution box/ Busbar work	Bus bar/Distribution Box Removal	EA	600				
22	PP/DT	Meter Box Replacement	Replacement only Meter box WC Meter (3 Ph)	EA	600				
23	PP/DT	Meter Box Replacement	Replacement only Meter box LTCT Meter	EA	600				
24	PP/DT	Meter shifting work	Shifting of 3 ph WC Meters from inside to outside of premises ,height meters to 5 to 6 ft range and as per requirement.	EA	600				
25	PP/DT	Transportation	Hiring of Crane for Cubical and other related work (Rate/Hr)	EA	10				

Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 8(BPED Baripada)Baripada,Baripada Rural,Betnoti,Kuliana				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C)
26	LTCT	Static / Smart installation along with Meter Box and connection for CT / PT	Installation of Static / Smart meters along with ring type CT, Meter Box, and associated accessories on LT side of transformers.	EA	10				
27	LTCT	Installation of 4C*95 / 4C X 150 sq mm armoured service cable, O/H (Length up to 30M)	Stringing, sagging of armoured service cable size 4CX 95 sq mm / 4C X 150 sq mm with length upto 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble. (Saddles and Fastners are to be supplied by BA)	EA	25				
28	LTCT	Installation of LTCT Meter with Resign cast CT box (For 100/5 Amps & 200/5 Amps)	Installation, energisation along with communication of new LTCT meters with resin cast CT box and allied accessories. The activity includes supply of 8 Nos of lugs and its crimping on Service cable and connections, Complete grouting of meter box, Communication check of meter with back end server. Earthing also needs to be extended using armour of cable from pole to inside the meter box using suitable size of lugs. (These lugs will also be in scope of supply of BA.)	EA	100				
29	LTCT	Meter Replacement - LTCT Meter Only without box replacement.	Replacement of LTCT meter/ LTCT Smart meter of any rating i.e. 100/5A or 200/5A or 400/5A without box	EA	25				
30	LTCT	Fault rectification in CT Meter pertaining to termination/LT Cable dressing.	Fault rectification includes termination (thimble / socket crimping, gland change, cable lead extension crimping and tightening) and cable dressing.	EA	25				
31	LTCT	LTCT Meter with box Removal - All Rating	Removal of any LTCT meter from site with de-energisation, Meter, modem and its allied accessories with meter box.	EA	25				
32	HT	Meter Accuracy test at site (HTCT)--	HTCT Meter Testing to be done at site. Testing kit will be provided by TPNODL.	EA	50				
33	HT	CTPT / Metering cubicle Installation	Installation of new HT 11 KV Metering cubicle / CTPT unit. The activity includes to & fro transportation, commissioning, energisation of unit in all respect (i.e. connections of CTPT / Metering cubicle , fixing of complete Unit, necessary masonry work, grouting, Cable terminations, control cable connections, socket/thimble crimp , earthing connections, vermin proofing if any) . Note : Loading, Unloading, Installation of CT PT unit, Metering Cubicle at store, site through crane will be included in this cost.	EA	30				

Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 8(BPED Baripada)Baripada,Baripada Rural,Betnoti,Kuliana				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C)
34	HT	Pole mounted CTPT Installation	Installation of new HT 11 KV out door Metering CTPT unit, includes to & fro transportation, commissioning and energisation in all respect (i.e. connection in meter box from CTPT terminal block through control cable, pole mount CTPT unit erected at 30' height. Fix and Bolt CTPT unit, stand pipe flange, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CTPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door).	EA	50				
35	HT	Meter Installation - HT Meter Only--	Installation of any HT energy meter along with modem and its termination in Metering cubicle / CTPT unit. This will include removal of existing energy meter if installed. HT team will take care of metering activities of falling under the geographical area of Circle. This rate will include travelling up to an average of 50 KM / case/ month (including to and fro). Any travel beyond an avg. of 50 KM / cases / Month will be paid in the lot of 50 KM basis over and above the rates quoted per activity. BA to quote rate for additional travel / 50 KM during any month.	EA	40				
36	HT	Replacement of only HT meter chamber at PMSS OR Replacement / Shifting of control cable pipe with meter chamber for CTPT unit--circlewise	Replacement of HT Metering chamber of HT 11 KV out door Metering CTPT unit, replacement of control cable pipe , energy meter and allied accessories include to & fro transportation, commissioning and energisation in all respect (i.e. reconnection in meter box from CTPT terminal block through control cable, stand pipe flange replacement, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CTPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door). Note : Loading, Unloading, Installation of CT PT unit, Metering Cubicle at store, site through crane will be included in this cost.	EA	20				
37	HT	CTPT / Metering cubicle Removal	Dismantling of complete HT CTPT / Metering Cubicle unit which includes to & fro transportation, complete removal and de-energisation in all respect (i.e. disconnection in all respect, removal of control cable, ends termination removal and all accessories removal) Note : Loading, Unloading, Installation of CT PT unit, Metering Cubicle at store, site through crane will be included in this cost.	EA	10				

Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 8(BPED Baripada)Baripada,Baripada Rural,Betnoti,Kuliana				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C)
38	HT	Travel in HT Meter Installation - (Travel charges in lot of 50 KM)	Rate for travel of HT Vehicle for additional travel in lot of 50 KM (over and above which is covered in Sr. No 27 / 28 /29 /30 ) for a month. Rate for 50 KM additional mileage after rounding off to be charged. If more than one activity is performed at one site at a time, then this cost to be charged against only one activity.	Lot size of 50 KM each	30				
39	HT	Pole mounted CTPT Removal	Dismantling of complete HT metering out door CTPT unit, includes to & fro transportation, removing and de-energisation in all respect (i.e. connection from meter box from CTPT terminal block through control cable, pole mount CTPT unit erected at 30' height. Fix and Bolt CTPT unit, stand pipe flange, two earth connections, HT cable ends termination removal, socket/ thimble crimp, stand pipe flanges removal, meter terminal cover, window and chamber door removal from site).	EA	10				
40	HT	CTPT / Metering cubicle Installation	Installation of new HT 33 KV Metering cubicle / CTPT unit. The activity includes to & fro transportation, commissioning, energisation of unit in all respect (i.e. connections of CTPT / Metering cubicle , fixing of complete Unit, necessary masonry work, grouting, Cable terminations, control cable connections, socket/thimble crimp , earthing connections, vermin proofing if any) . Note : Loading, Unloading, Installation of CT PT unit, Metering Cubicle at store, site through crane will be included in this cost.	EA	30				
41	HT	Pole mounted CTPT Installation	Installation of new HT 33 KV out door Metering CTPT unit, includes to & fro transportation, commissioning and energisation in all respect (i.e. connection in meter box from CTPT terminal block through control cable, pole mount CTPT unit erected at 30' height. Fix and Bolt CTPT unit, stand pipe flange, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CTPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door).	EA	30				

Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 8(BPED Baripada)Baripada,Baripada Rural,Betnoti,Kuliana				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C)
42	HT	Replacement of only HT meter chamber at PMSS OR Replacement / Shifting of control cable pipe with meter chamber for CTPT unit--circlewise	Replacement of HT Metering chamber of HT 33 KV out door Metering CTPT unit, replacement of control cable pipe , energy meter and allied accessories include to & fro transportation, commissioning and energisation in all respect (i.e. reconnection in meter box from CTPT terminal block through control cable, stand pipe flange replacement, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CTPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door). Note : Loading, Unloading, Installation of CT PT unit, Metering Cubicle at store, site through crane will be included in this cost.	EA	20				
43	HT	Pole mounted CTPT Removal	Dismantling of complete 33 KV HT metering out door CTPT unit, includes to & fro transportation, removing and de-energisation in all respect (i.e. connection from meter box from CTPT terminal block through control cable, pole mount CTPT unit erected at 30' height. Fix and Bolt CTPT unit, stand pipe flange, two earth connections, HT cable ends termination removal, socket/ thimble crimp, stand pipe flanges removal, meter terminal cover, window and chamber door removal from site).	EA	10				
44	HT/DT	DP Structure Related	Supply and Installation of 11KV complete DP Structure 9Mtr including pressure channel, MU mounting channel, Angle, Stay set, GI pipe, Complete Concreting, Base plating, etc. including supply of material & transportation (Supply of Pole Excluded).	EA	10				
45	HT/DT	DP Structure Related	Replacement of 11KV complete DP Structure 9Mtr including pressure channel, MU mounting channel, Angle, Stay set, GI pipe, Complete Concreting, Base plating, etc. including supply of material & transportation,	EA	10				
46	HT/DT	DP Structure Related	Removal of 11KV complete DP Structure 9Mtr including pressure channel, MU mounting channel, Angle, Stay set, GI pipe, Complete Concreting, Base plating, etc. including transportation.	EA	10				
47	HT/DT	DP Structure Related	Supply and Installation of 33KV complete DP Structure 9Mtr including pressure channel, MU mounting channel, Angle, Stay set, GI pipe, Complete Concreting, Base plating, earthing etc. including supply of material & transportation (Supply of Pole Excluded).	EA	10				
48	HT/DT	DP Structure Related	Replacement of 33KV complete DP Structure 9Mtr including pressure channel, MU mounting channel, Angle, Stay set, GI pipe, Complete Concreting, Base plating, earthing, etc. including supply of material & transportation.	EA	10				

Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 8(BPED Baripada)Baripada,Baripada Rural,Betnoti,Kuliana				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C)
49	HT/DT	DP Structure Related	Removal of 33KV complete DP Structure 9Mtr including pressure channel, MU mounting channel, Angle, Stay set, GI pipe, Complete Concreting, Base plating, earthing, etc. including transportation	EA	10				
50	FSE	FSE- New Connection	Site verification of new connection with capturing of details as mentioned in site verification form and capturing photographs. Further submission of SVR and file at respective division office.	EA	1000				
51	FSE	FSE - Attribute Change	Site verification Attribute case with capturing of details as mentioned in Attribute Change form and capturing photographs. Further submission of SVR and file at respective division office.	EA	1000				
52	FSE	FSE - SVR Dues/Meter Reading cross check.	Site verification for confirmation of dues with capturing of details as mentioned in dues verification form and capturing photographs. Further submission of SVR and file at respective division office.	EA	600				
53	DD	Data Downloading from Meter (Single Phase )	Data downloading of Meter data after opening of meter box seals and thereafter resealing it. Including DT Meter Reading	EA	600				
54	DD	Data Downloading from Meter (Three Phase/Poly Phase /DT Metering )	Data downloading of Meter data after opening of meter box seals and thereafter resealing it. Including DT Meter Reading	EA	23338				
55	DD	Manul Meter Reading and SVR (Three Phase /Poly Phase/DT Metering)	Taking manual reading parameters from meter display, providing remarks with photographs where data can not be downloaded for reason not attributable to BA, Prepare SVR Against OK Meter in site but Faulty Meter recorded in TPNODL Ledger	EA	5835				
56	MTS	Modem Trouble Shooting activity/Smart Meter Nickcard Replacement & Trouble Shooting	Replacement of faulty modem with healthy modem/Smart Meter Nick card after opening of meter box by removing seals. Coordination with communication testing desk at back office and after ensuring communication, repealing of meter box.	EA	350				
57	MTS	Return Cases - of Modem TS	Return Case of Modem Troubleshooting cases where site visit has been done and modem could not be rectified due to reasons not attributable to BA. The activity include pasting notice , providing photograph of site.	EA	50				
58	SP	Return Cases - SP meter installation	Return Case of New connection and meter replacement cases where site visit has been done and meter could not be installed due to reasons not attributable to BA. The activity include pasting notice, providing photograph of site / meter, Reading and other details of meter. Address not traceable cases will not be included .	EA	1850				

Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 8(BPED Baripada)Baripada,Baripada Rural,Betnoti,Kuliana				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C)
59	SP	Shifting of Meters (New / old) from Central store to site store or Site store to Central store. (Bidder has to provide vehicle and sufficient manpower for shifting of Meters/Meter Boxes /accessories from Central Store to respective Division / sub division. The activity include loading and unloading of material at designated locations/stores. Meter LOT size shall be 1000 meters For New Meter 2000 Meter for Scarp Old Meter . Otherthen Define lot Rate will be provided in prorate Basis.	Up to 50 Km						
			Up to 100 Km		10				
			Up to 150 Km		10				
			Up to 200 Km		10				
			Above 200 Km	EA	10				
60	SP	Shifting of Cable from Central store to site store or Site store to Central store. Bidder has to provide vehicle and sufficient manpower for shifting of cable . The activity include loading and unloading of material at designated locations/stores. LOT size shall be 6Km for 2*4 sqmm/2*6 MM cable/ any 2 core cable.Otherthen Define lot Rate will be provided in prorate Basis.	Up to 50 Km						
			Up to 100 Km		10				
			Up to 150 Km		10				
			Up to 200 Km		10				
			Above 200 Km	EA	10				
61	Protocol Punching	Punching of Protocols for field activities Protal entry In Protal Or Installation Data Capatauring IN MY MMG Mobile Application	Bidder has to punch protocol or Installation Details capturing In MY MMG Mobile APP for Meter installation (Both Single Phase and Three Phase activity/Modem Installation / rectification / Meter Testing (HT and LT) activity / data downloading activity, with 5% QC	EA	34000				

Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 8(BPED Baripada)Baripada,Baripada Rural,Betnoti,Kuliana				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C)
62	DT Metering	Static / Smart /DT Meter installation along with Meter Box and connection for CT / PT	Installation of DT meters 800/400/200/5A, installation of ring type CT, Meter Box, and associated accessories on LT side of transformers Incl Electrical Power Cable/Control Cable Laying & Termination	EA	800				
63	DT Metering	Static / Smart /DT Meter removal along with Meter Box	Removal of any DT meter from site with De energisation of Meter, Modem and its allied accessories	EA	200				
64	DT Metering	Static / Smart /DT Meter installation along with Meter Box and Complete Electrical connection	Installation of Static / Smart /DT Meter meters, along with Meter Box, Mounting Arrangement Installation and associated accessories on LT side of transformers.	EA	200				
65	DT Metering	Concreting of Prefabricated GI Structure base by Cement, Sand & Chips Grade M40	Supply of Cement, Sand & Chips, digging of hole Labour as per the site requirement	EA	200				
66	DT Metering	GI Nut, bolts & washer \	Supply of GI Nut, bolts & washer as per the site requirement M10 -M20	KG	200				
67	DT Metering	Installation of 1C*95 , 1C X 150, 1C*300, sq mm from Tr. LT side through meters.	Installation of cable from Meter To Source Vice Varsa Upto 6- 40 MTR	EA	200				
68	DT Metering	DT Meter with box Removal - All Rating	Removal of any DT meter from site with de-energisation, Meter, modem and its allied accessories with meter box.	EA	200				
69	DT Metering	Modem Installation	Replacement of faulty modem with healthy modem after opening of meter box by removing seals. Coordination with communication testing desk at back office and after ensuring communication, resealing of meter box.	EA	200				
70	DT Metering	Return Cases - of Modem TS	Return Case of Modem Troubleshooting cases where site visit has been done and modem could not be rectified due to reasons not attributable to BA. The activity include pasting notice , providing photograph of site.	EA	200				
71	DT Metering	Shifting of Meter from Central store to respective Division / Sub division.	Bidder has to provide vehicle and sufficient manpower for shifting of Meters/accessories from Central Store to respective Division / sub division The activity include loading and unloading of material at designated locations/stores. Meter LOT size shall be 100 meters. (Quantity mentioned in number of to and fro trips). Separate rate to be quoted for the distance range 1-50 Km, 51-100 Km, 100-150 Km, 150-200 Km, & above 200 Kms	EA	200				



Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 8(BPED Baripada)Baripada,Baripada Rural,Betnoti,Kuliana				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C)
72	DT Metering	Meter & Channel Earthing	Earthing of the meter and meter channel	EA	800				
<b>Total all inclusive Amount for First year (Year -1)</b>					<b>Total Amount For Year 1</b>				.....
<b>Percentage (%) escalation for Second year (Year 2)</b> <b>(The % escalation shall be applicable on unit rate of all service line item for second year)</b>					..... %				
<b>Total all inclusive Amount for Second year (Year -2)</b>					<b>Total Amount For Year 2</b>				.....
<b>Total Overall all inclusive value for Year 1 and Year 2 ( in Rs.)</b>					<b>Rs. ....</b>				
<p>Note -The bids shall be evaluated commercially on the overall lowest cost for each Divison Set <u>for both years</u>. Therefore bidders are advised to quote their best price for year 1 and best % escalation for year 2 as well.</p>									

Abbreviations	
SP	Single Phase
PP	Poly Phase
LT CT	Low Tension Current Transformer Operated Meters
DT Metering	Distribution TRf Metering
HT CT	High Tension Current Transformer Operated Meters
FSC	Field Service Executive
DD	Data Download
MTS	Modem Trouble Shooting
SVR	Survey
BA	Business Associate / Vendor / Bidder

## Annexure-1 (Schedule of Items)

Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 9(UED Udala)Khunta,Udala				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C)
1	SP	Meter Installation - Single Phase	Installation of 1 phase energy meter with / without meter box. Static /BLE /Smart AMI	EA	16000				
2	SP	Installation of 2C*4 sq mm/2*6 sq mm /2 C* 10 SQMM armoured, Cable O/H (Length 7M-30M)	Stringing, sagging of armoured service cable size 2CX 4 sq mm /2Cx6 mm with length between 7m to 30m including installation of saddle, fastener for support and connection at pole /Required to Fix Height rising Channel,Angle With Anchor Fastener ,Nut & Bolts Supply Of Sundry Items Like Anchor Fastener ( M 12 ) and Nut Bolts will Be in BA Scope With in Service Cable Laying Cost ./Required to Fix Height rising Channel ,Angle With Anchor Fastener ,Nut & Bolts Supply Of Sundry Items Like Anchor Fastener ( M 12 ) and Nut Bolts will Be in BA Scope With in Service Cable Laying Cost .	EA	3000				
3	SP	Meter Removal - Single Phase	Removal of single phase meter without service cable.	EA	14000				
4	SP	Service Cable Removal of any size used for Single Ph connections	Removal of service cable of any size used for single Phase connections from pole/ LT Network.	EA	500				
5	SP	SP Meter Box Replacement	Replacement only Meter box WC Meter (1 Ph) & Smart Meter Single Phase	EA	500				
6	SP	SP Meter Shifting ( Without cable replacement)	Shifting of 1 ph Meters from inside to outside of premises ,height meters to 5 to 6 ft range and as per requirement (With out Cable Replacement )	EA	500				
7	SP	SP Meter Shifting ( With cable replacement)	Shifting of 1 ph Meters from inside to outside of premises ,height meters to 5 to 6 ft range and as per requirement (With cable Replacement)	EA	500				
8	PP	Meter Installation - Poly Phase Whole Current	Installation of Poly Phase whole current energy meter with / without meter box BLE/static /Smart AMI	EA	900				
9	PP	Installation of 4C*25 sq mm armoured, Cable O/H (Length 7M-30M)	Stringing, sagging of armoured service cable size 4CX 25 sq mm with length between 7m to 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble.	EA	150				
10	PP	Installation of 4C*6/4C*10 /4C*16 /Controc Cable Laying sq mm armoured, Cable O/H (Length 7M-30M)	Stringing, sagging of armoured service cable size 4CX 10 sq mm with length between 7m to 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble.	EA	75				
11	PP	Meter Removal - Poly Phase Whole Current	Removal of Poly Phase whole current meter with / without meter box.	EA	700				

Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 9(UED Udala)Khunta,Udala				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C)
12	PP	Service Cable Removal of any size used for Poly Phase connections	Removal of service cable of 4C X 10 sq mm(majorly) or any other size used for Poly Phase Whole Current connections from pole/ LT Network.	EA	100				
13	P/PP / LTC	Meter Accuracy test at site with Accucheck	Single Phase /Polyphase/LTCT Meter Testing with Accucheck (Will be provided by TPNODL) to be done.	EA	800				
14	SP/PP	Supply and Installation of wall corner clamp	Supply and Installation of Wall Corner Clamp. Consumables i.e. fastener etc. shall be in the scope of BA	EA	300				
15	SP/PP	Supply and Installation of Stand pipe for maintaining the Sagging.	Supply and Installation of Stand pipe for maintaining the Sagging. (LT GI Pipe for Service Line Support as per REC / TPNODL standard)	EA	2800				
16	SP/PP	Bus bar Installation	Installation of any type of bus bar box ( 2 Way & 4 Way etc ) on wall / Pole along with supply of fasteners, steel strap and buckles. (Fastener / Steel strap shall be supplied by BA)	EA	100				
17	SP/PP	Prefabricated GI Structure (Supply Item) / kg	Supply & Installation of Prefabricated / GI structural angle/ channel / flats of different sizes, as per the site requirement	Kg	2000				
18	SP/PP	Installation of Bracket Angle/ service anchor/ suspension clamp/ slotted angle	Installation of GI Bracket for Anchoring service cable of size 50, 95 & 150 sqmm / Installation of Service Cable Anchor / Installation of Slotted angle on pole in case of 2x10/4x10/4x25 cable lying, on uncleaned poles. (Number of items used at one site shall be considered for billing).	EA	1400				
19	SP/PP	Loop Connection for service cable size 2C X 4 sq mm/ 2C X 10 sq mm/ 4C X 10 sq mm/ 4C X 25 sq mm with length ≤ 6 M	Stringing of loop connection ( length ≤ 6 meter ) for service cable size 2C X 4 sq mm/ 2C X 10 sq mm/ 4C X 10 sq mm/ 4C X 25 sq mm.	EA	100				
20	PP/DT	Distribution box/ Busbar work	Bus bar/Distribution Box Installation: Installation of any type of bus bar box on wall / Pole along with supply of fasteners, steel strap and buckles. (Fastener / Steel strap shall be supplied by BA)	EA	600				
21	PP/DT	Distribution box/ Busbar work	Bus bar/Distribution Box Removal	EA	600				
22	PP/DT	Meter Box Replacement	Replacement only Meter box WC Meter (3 Ph)	EA	600				
23	PP/DT	Meter Box Replacement	Replacement only Meter box LTCT Meter	EA	600				
24	PP/DT	Meter shifting work	Shifting of 3 ph WC Meters from inside to outside of premises ,height meters to 5 to 6 ft range and as per requirement.	EA	600				
25	PP/DT	Transportation	Hiring of Crane for Cubical and other related work (Rate/Hr)	EA	10				

Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 9(UED Udala)Khunta,Udala				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C)
26	LTCT	Static / Smart installation along with Meter Box and connection for CT / PT	Installation of Static / Smart meters along with ring type CT, Meter Box, and associated accessories on LT side of transformers.	EA	10				
27	LTCT	Installation of 4C*95 / 4C X 150 sq mm armoured service cable, O/H (Length up to 30M)	Stringing, sagging of armoured service cable size 4CX 95 sq mm / 4C X 150 sq mm with length upto 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble. (Saddles and Fastners are to be supplied by BA)	EA	25				
28	LTCT	Installation of LTCT Meter with Resign cast CT box (For 100/5 Amps & 200/5 Amps)	Installation, energisation along with communication of new LTCT meters with resin cast CT box and allied accessories. The activity includes supply of 8 Nos of lugs and its crimping on Service cable and connections, Complete grouting of meter box, Communication check of meter with back end server. Earthing also needs to be extended using armour of cable from pole to inside the meter box using suitable size of lugs. (These lugs will also be in scope of supply of BA.)	EA	50				
29	LTCT	Meter Replacement - LTCT Meter Only without box replacement.	Replacement of LTCT meter/ LTCT Smart meter of any rating i.e. 100/5A or 200/5A or 400/5A without box	EA	25				
30	LTCT	Fault rectification in CT Meter pertaining to termination/LT Cable dressing.	Fault rectification includes termination (thimble / socket crimping, gland change, cable lead extension crimping and tightening) and cable dressing.	EA	25				
31	LTCT	LTCT Meter with box Removal - All Rating	Removal of any LTCT meter from site with de-energisation, Meter, modem and its allied accessories with meter box.	EA	25				
32	HT	Meter Accuracy test at site (HTCT)--	HTCT Meter Testing to be done at site. Testing kit will be provided by TPNODL.	EA	50				
33	HT	CTPT / Metering cubicle Installation	Installation of new HT 11 KV Metering cubicle / CTPT unit. The activity includes to & fro transportation, commissioning, energisation of unit in all respect (i.e. connections of CTPT / Metering cubicle , fixing of complete Unit, necessary masonry work, grouting, Cable terminations, control cable connections, socket/thimble crimp , earthing connections, vermin proofing if any) . Note : Loading, Unloading, Installation of CT PT unit, Metering Cubicle at store, site through crane will be included in this cost.	EA	10				

Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 9(UED Udala)Khunta,Udala				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C)
34	HT	Pole mounted CTPT Installation	Installation of new HT 11 KV out door Metering CTPT unit, includes to & fro transportation, commissioning and energisation in all respect (i.e. connection in meter box from CTPT terminal block through control cable, pole mount CTPT unit erected at 30' height. Fix and Bolt CTPT unit, stand pipe flange, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CTPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door).	EA	30				
35	HT	Meter Installation - HT Meter Only--	Installation of any HT energy meter along with modem and its termination in Metering cubicle / CTPT unit. This will include removal of existing energy meter if installed. HT team will take care of metering activities of falling under the geographical area of Circle. This rate will include travelling up to an average of 50 KM / case/ month (including to and fro). Any travel beyond an avg. of 50 KM / cases / Month will be paid in the lot of 50 KM basis over and above the rates quoted per activity. BA to quote rate for additional travel / 50 KM during any month.	EA	40				
36	HT	Replacement of only HT meter chamber at PMSS OR Replacement / Shifting of control cable pipe with meter chamber for CTPT unit--circlewise	Replacement of HT Metering chamber of HT 11 KV out door Metering CTPT unit, replacement of control cable pipe , energy meter and allied accessories include to & fro transportation, commissioning and energisation in all respect (i.e. reconnection in meter box from CTPT terminal block through control cable, stand pipe flange replacement, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CTPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door). Note : Loading, Unloading, Installation of CT PT unit, Metering Cubicle at store, site through crane will be included in this cost.	EA	20				
37	HT	CTPT / Metering cubicle Removal	Dismantling of complete HT CTPT / Metering Cubicle unit which includes to & fro transportation, complete removal and de-energisation in all respect (i.e. disconnection in all respect, removal of control cable, ends termination removal and all accessories removal) Note : Loading, Unloading, Installation of CT PT unit, Metering Cubicle at store, site through crane will be included in this cost.	EA	10				

Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 9(UED Udala)Khunta,Udala				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C)
38	HT	Travel in HT Meter Installation - (Travel charges in lot of 50 KM)	Rate for travel of HT Vehicle for additional travel in lot of 50 KM (over and above which is covered in Sr. No 27 / 28 /29 /30 ) for a month. Rate for 50 KM additional mileage after rounding off to be charged. If more than one activity is performed at one site at a time, then this cost to be charged against only one activity.	Lot size of 50 KM each	30				
39	HT	Pole mounted CTPT Removal	Dismantling of complete HT metering out door CTPT unit, includes to & fro transportation, removing and de-energisation in all respect (i.e. connection from meter box from CTPT terminal block through control cable, pole mount CTPT unit erected at 30' height. Fix and Bolt CTPT unit, stand pipe flange, two earth connections, HT cable ends termination removal, socket/ thimble crimp, stand pipe flanges removal, meter terminal cover, window and chamber door removal from site).	EA	10				
40	HT	CTPT / Metering cubicle Installation	Installation of new HT 33 KV Metering cubicle / CTPT unit. The activity includes to & fro transportation, commissioning, energisation of unit in all respect (i.e. connections of CTPT / Metering cubicle , fixing of complete Unit, necessary masonry work, grouting, Cable terminations, control cable connections, socket/thimble crimp , earthing connections, vermin proofing if any) . Note : Loading, Unloading, Installation of CT PT unit, Metering Cubicle at store, site through crane will be included in this cost.	EA	30				
41	HT	Pole mounted CTPT Installation	Installation of new HT 33 KV out door Metering CTPT unit, includes to & fro transportation, commissioning and energisation in all respect (i.e. connection in meter box from CTPT terminal block through control cable, pole mount CTPT unit erected at 30' height. Fix and Bolt CTPT unit, stand pipe flange, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CTPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door).	EA	30				

Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 9(UED Udala)Khunta,Udala				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C)
42	HT	Replacement of only HT meter chamber at PMSS OR Replacement / Shifting of control cable pipe with meter chamber for CTPT unit--circlewise	Replacement of HT Metering chamber of HT 33 KV out door Metering CTPT unit, replacement of control cable pipe , energy meter and allied accessories include to & fro transportation, commissioning and energisation in all respect (i.e. reconnection in meter box from CTPT terminal block through control cable, stand pipe flange replacement, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CTPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door). Note : Loading, Unloading, Installation of CT PT unit, Metering Cubicle at store, site through crane will be included in this cost.	EA	3				
43	HT	Pole mounted CTPT Removal	Dismantling of complete 33 KV HT metering out door CTPT unit, includes to & fro transportation, removing and de-energisation in all respect (i.e. connection from meter box from CTPT terminal block through control cable, pole mount CTPT unit erected at 30' height. Fix and Bolt CTPT unit, stand pipe flange, two earth connections, HT cable ends termination removal, socket/ thimble crimp, stand pipe flanges removal, meter terminal cover, window and chamber door removal from site).	EA	10				
44	HT/DT	DP Structure Related	Supply and Installation of 11KV complete DP Structure 9Mtr including pressure channel, MU mounting channel, Angle, Stay set, GI pipe, Complete Concreting, Base plating, etc. including supply of material & transportation (Supply of Pole Excluded).	EA	10				
45	HT/DT	DP Structure Related	Replacement of 11KV complete DP Structure 9Mtr including pressure channel, MU mounting channel, Angle, Stay set, GI pipe, Complete Concreting, Base plating, etc. including supply of material & transportation,	EA	10				
46	HT/DT	DP Structure Related	Removal of 11KV complete DP Structure 9Mtr including pressure channel, MU mounting channel, Angle, Stay set, GI pipe, Complete Concreting, Base plating, etc. including transportation.	EA	10				
47	HT/DT	DP Structure Related	Supply and Installation of 33KV complete DP Structure 9Mtr including pressure channel, MU mounting channel, Angle, Stay set, GI pipe, Complete Concreting, Base plating, earthing etc. including supply of material & transportation (Supply of Pole Excluded).	EA	10				
48	HT/DT	DP Structure Related	Replacement of 33KV complete DP Structure 9Mtr including pressure channel, MU mounting channel, Angle, Stay set, GI pipe, Complete Concreting, Base plating, earthing, etc. including supply of material & transportation.	EA	10				

Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 9(UED Udala)Khunta,Udala				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C)
49	HT/DT	DP Structure Related	Removal of 33KV complete DP Structure 9Mtr including pressure channel, MU mounting channel, Angle, Stay set, GI pipe, Complete Concreting, Base plating, earthing, etc. including transportation	EA	10				
50	FSE	FSE- New Connection	Site verification of new connection with capturing of details as mentioned in site verification form and capturing photographs. Further submission of SVR and file at respective division office.	EA	1000				
51	FSE	FSE - Attribute Change	Site verification Attribute case with capturing of details as mentioned in Attribute Change form and capturing photographs. Further submission of SVR and file at respective division office.	EA	1000				
52	FSE	FSE - SVR Dues/Meter Reading cross check.	Site verification for confirmation of dues with capturing of details as mentioned in dues verification form and capturing photographs. Further submission of SVR and file at respective division office.	EA	600				
53	DD	Data Downloading from Meter (Single Phase )	Data downloading of Meter data after opening of meter box seals and thereafter resealing it. Including DT Meter Reading	EA	600				
54	DD	Data Downloading from Meter (Three Phase/Poly Phase /DT Metering )	Data downloading of Meter data after opening of meter box seals and thereafter resealing it. Including DT Meter Reading	EA	8890				
55	DD	Manul Meter Reading and SVR (Three Phase /Poly Phase/DT Metering)	Taking manual reading parameters from meter display, providing remarks with photographs where data can not be downloaded for reason not attributable to BA, Prepare SVR Against OK Meter in site but Faulty Meter recorded in TPNODL Ledger	EA	2230				
56	MTS	Modem Trouble Shooting activity/Smart Meter Nickcard Replacement & Trouble Shooting	Replacement of faulty modem with healthy modem/Smart Meter Nick card after opening of meter box by removing seals. Coordination with communication testing desk at back office and after ensuring communication, repealing of meter box.	EA	350				
57	MTS	Return Cases - of Modem TS	Return Case of Modem Troubleshooting cases where site visit has been done and modem could not be rectified due to reasons not attributable to BA. The activity include pasting notice , providing photograph of site.	EA	50				
58	SP	Return Cases - SP meter installation	Return Case of New connection and meter replacement cases where site visit has been done and meter could not be installed due to reasons not attributable to BA. The activity include pasting notice, providing photograph of site / meter, Reading and other details of meter. Address not traceable cases will not be included .	EA	1600				



Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 9(UED Udala)Khunta,Udala				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C)
59	SP	Shifting of Meters (New / old) from Central store to site store or Site store to Central store. (Bidder has to provide vehicle and sufficient manpower for shifting of Meters/Meter Boxes /accessories from Central Store to respective Division / sub division. The activity include loading and unloading of material at designated locations/stores. Meter LOT size shall be 1000 meters For New Meter 2000 Meter for Scarp Old Meter . Otherthen Define lot Rate will be provided in prorate Basis.	Up to 50 Km						
			Up to 100 Km		10				
			Up to 150 Km		10				
			Up to 200 Km		10				
			Above 200 Km	EA	10				
60	SP	Shifting of Cable from Central store to site store or Site store to Central store. Bidder has to provide vehicle and sufficient manpower for shifting of cable . The activity include loading and unloading of material at designated locations/stores. LOT size shall be 6Km for 2*4 sqmm/2*6 MM cable/ any 2 core cable.Otherthen Define lot Rate will be provided in prorate Basis.	Up to 50 Km		10				
			Up to 100 Km		10				
			Up to 150 Km						
			Up to 200 Km		10				
			Above 200 Km	EA	10				
61	Protocol Punching	Punching of Protocols for field activities Protal entry In Protal Or Installation Data Capatauring IN MY MMG Mobile Application	Bidder has to punch protocol or Installation Details capturing In MY MMG Mobile APP for Meter installation (Both Single Phase and Three Phase activity/Modem Installation / rectification / Meter Testing (HT and LT) activity / data downloading activity, with 5% QC	EA	17000				

Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 9(UED Udala)Khunta,Udala				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C)
62	DT Metering	Static / Smart /DT Meter installation along with Meter Box and connection for CT / PT	Installation of DT meters 800/400/200/5A, installation of ring type CT, Meter Box, and associated accessories on LT side of transformers Incl Electrical Power Cable/Control Cable Laying & Termination	EA	800				
63	DT Metering	Static / Smart /DT Meter removal along with Meter Box	Removal of any DT meter from site with De energisation of Meter, Modem and its allied accessories	EA	200				
64	DT Metering	Static / Smart /DT Meter installation along with Meter Box and Complete Electrical connection	Installation of Static / Smart /DT Meter meters, along with Meter Box, Mounting Arrangement Installation and associated accessories on LT side of transformers.	EA	200				
65	DT Metering	Concreting of Prefabricated GI Structure base by Cement, Sand & Chips Grade M40	Supply of Cement, Sand & Chips, digging of hole Labour as per the site requirement	EA	200				
66	DT Metering	GI Nut, bolts & washer \	Supply of GI Nut, bolts & washer as per the site requirement M10 -M20	KG	200				
67	DT Metering	Installation of 1C*95 , 1C X 150, 1C*300, sq mm from Tr. LT side through meters.	Installation of cable from Meter To Source Vice Varsa Upto 6- 40 MTR	EA	200				
68	DT Metering	DT Meter with box Removal - All Rating	Removal of any DT meter from site with de-energisation, Meter, modem and its allied accessories with meter box.	EA	200				
69	DT Metering	Modem Installation	Replacement of faulty modem with healthy modem after opening of meter box by removing seals. Coordination with communication testing desk at back office and after ensuring communication, resealing of meter box.	EA	200				
70	DT Metering	Return Cases - of Modem TS	Return Case of Modem Troubleshooting cases where site visit has been done and modem could not be rectified due to reasons not attributable to BA. The activity include pasting notice , providing photograph of site.	EA	200				
71	DT Metering	Shifting of Meter from Central store to respective Division / Sub division.	Bidder has to provide vehicle and sufficient manpower for shifting of Meters/accessories from Central Store to respective Division / sub division The activity include loading and unloading of material at designated locations/stores. Meter LOT size shall be 100 meters. (Quantity mentioned in number of to and fro trips). Separate rate to be quoted for the distance range 1-50 Km, 51-100 Km, 100-150 Km, 150-200 Km, & above 200 Kms	EA	200				

Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 9(UED Udala)Khunta,Udala				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C)
72	DT Metering	Meter & Channel Earthing	Earthing of the meter and meter channel	EA	800				
<b>Total all inclusive Amount for First year (Year -1)</b>					<b>Total Amount For Year 1</b>				.....
<b>Percentage (%) escalation for Second year (Year 2)</b> <b>(The % escalation shall be applicable on unit rate of all service line item for second year)</b>					..... %				
<b>Total all inclusive Amount for Second year (Year -2)</b>					<b>Total Amount For Year 2</b>				.....
<b>Total Overall all inclusive value for Year 1 and Year 2 ( in Rs.)</b>					<b>Rs. ....</b>				
<p>Note -The bids shall be evaluated commercially on the overall lowest cost for each Divison Set <u>for both years</u>. Therefore bidders are advised to quote their best price for year 1 and best % escalation for year 2 as well.</p>									

Abbreviations	
SP	Single Phase
PP	Poly Phase
LT CT	Low Tension Current Transformer Operated Meters
DT Metering	Distribution TRf Metering
HT CT	High Tension Current Transformer Operated Meters
FSC	Field Service Executive
DD	Data Download
MTS	Modem Trouble Shooting
SVR	Survey
BA	Business Associate / Vendor / Bidder

## Annexure-1 (Schedule of Items)

Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 10(RE D Rairangpur)Rairangpur-1,Rairangpur-2,Jashipur, karanjia				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C)
1	SP	Meter Installation - Single Phase	Installation of 1 phase energy meter with / without meter box. Static /BLE /Smart AMI	EA	27000				
2	SP	Installation of 2C*4 sq mm/2*6 sq mm /2 C* 10 SQMM armoured, Cable O/H (Length 7M-30M)	Stringing, sagging of armoured service cable size 2CX 4 sq mm /2Cx6 mm with length between 7m to 30m including installation of saddle, fastener for support and connection at pole /Required to Fix Height rising Channel,Angle With Anchor Fastener ,Nut & Bolts Supply Of Sundry Items Like Anchor Fastener ( M 12 ) and Nut Bolts will Be in BA Scope With in Service Cable Laying Cost ./Required to Fix Height rising Channel ,Angle With Anchor Fastener ,Nut & Bolts Supply Of Sundry Items Like Anchor Fastener ( M 12 ) and Nut Bolts will Be in BA Scope With in Service Cable Laying Cost .	EA	3000				
3	SP	Meter Removal - Single Phase	Removal of single phase meter without service cable.	EA	24000				
4	SP	Service Cable Removal of any size used for Single Ph connections	Removal of service cable of any size used for single Phase connections from pole/ LT Network.	EA	500				
5	SP	SP Meter Box Replacement	Replacement only Meter box WC Meter (1 Ph) & Smart Meter Single Phase	EA	500				
6	SP	SP Meter Shifting ( Without cable replacement)	Shifting of 1 ph Meters from inside to outside of premises ,height meters to 5 to 6 ft range and as per requirement (With out Cable Replacement )	EA	500				
7	SP	SP Meter Shifting ( With cable replacement)	Shifting of 1 ph Meters from inside to outside of premises ,height meters to 5 to 6 ft range and as per requirement (With cable Replacement)	EA	500				
8	PP	Meter Installation - Poly Phase Whole Current	Installation of Poly Phase whole current energy meter with / without meter box BLE/static /Smart AMI	EA	900				
9	PP	Installation of 4C*25 sq mm armoured, Cable O/H (Length 7M-30M)	Stringing, sagging of armoured service cable size 4CX 25 sq mm with length between 7m to 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble.	EA	150				
10	PP	Installation of 4C*6/4C*10 /4C*16 /Controc Cable Laying sq mm armoured, Cable O/H (Length 7M-30M)	Stringing, sagging of armoured service cable size 4CX 10 sq mm with length between 7m to 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble.	EA	75				
11	PP	Meter Removal - Poly Phase Whole Current	Removal of Poly Phase whole current meter with / without meter box.	EA	700				

Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 10(RED Rairangpur)Rairangpur-1,Rairangpur-2,Jashipur, karanjia				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C)
12	PP	Service Cable Removal of any size used for Poly Phase connections	Removal of service cable of 4C X 10 sq mm(majorly) or any other size used for Poly Phase Whole Current connections from pole/ LT Network.	EA	100				
13	P/PP / LTC	Meter Accuracy test at site with Accucheck	Single Phase /Polyphase/LTCT Meter Testing with Accucheck (Will be provided by TPNODL) to be done.	EA	800				
14	SP/PP	Supply and Installation of wall corner clamp	Supply and Installation of Wall Corner Clamp. Consumables i.e. fastener etc. shall be in the scope of BA	EA	300				
15	SP/PP	Supply and Installation of Stand pipe for maintaining the Sagging.	Supply and Installation of Stand pipe for maintaining the Sagging. (LT GI Pipe for Service Line Support as per REC / TPNODL standard)	EA	2800				
16	SP/PP	Bus bar Installation	Installation of any type of bus bar box ( 2 Way & 4 Way etc ) on wall / Pole along with supply of fasteners, steel strap and buckles. (Fastener / Steel strap shall be supplied by BA)	EA	100				
17	SP/PP	Prefabricated GI Structure (Supply Item) / kg	Supply & Installation of Prefabricated / GI structural angle/ channel / flats of different sizes, as per the site requirement	Kg	500				
18	SP/PP	Installation of Bracket Angle/ service anchor/ suspension clamp/ slotted angle	Installation of GI Bracket for Anchoring service cable of size 50, 95 & 150 sqmm / Installation of Service Cable Anchor / Installation of Slotted angle on pole in case of 2x10/4x10/4x25 cable lying, on uncleaned poles. (Number of items used at one site shall be considered for billing).	EA	1400				
19	SP/PP	Loop Connection for service cable size 2C X 4 sq mm/ 2C X 10 sq mm/ 4C X 10 sq mm/ 4C X 25 sq mm with length ≤ 6 M	Stringing of loop connection ( length ≤ 6 meter ) for service cable size 2C X 4 sq mm/ 2C X 10 sq mm/ 4C X 10 sq mm/ 4C X 25 sq mm.	EA	100				
20	PP/DT	Distribution box/ Busbar work	Bus bar/Distribution Box Installation: Installation of any type of bus bar box on wall / Pole along with supply of fasteners, steel strap and buckles. (Fastener / Steel strap shall be supplied by BA)	EA	600				
21	PP/DT	Distribution box/ Busbar work	Bus bar/Distribution Box Removal	EA	600				
22	PP/DT	Meter Box Replacement	Replacement only Meter box WC Meter (3 Ph)	EA	600				
23	PP/DT	Meter Box Replacement	Replacement only Meter box LTCT Meter	EA	600				
24	PP/DT	Meter shifting work	Shifting of 3 ph WC Meters from inside to outside of premises ,height meters to 5 to 6 ft range and as per requirement.	EA	600				
25	PP/DT	Transportation	Hiring of Crane for Cubical and other related work (Rate/Hr)	EA	10				

Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 10(RE D Rairangpur)Rairangpur-1,Rairangpur-2,Jashipur, karanjia				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C)
26	LTCT	Static / Smart installation along with Meter Box and connection for CT / PT	Installation of Static / Smart meters along with ring type CT, Meter Box, and associated accessories on LT side of transformers.	EA	10				
27	LTCT	Installation of 4C*95 / 4C X 150 sq mm armoured service cable, O/H (Length up to 30M)	Stringing, sagging of armoured service cable size 4CX 95 sq mm / 4C X 150 sq mm with length upto 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble. (Saddles and Fastners are to be supplied by BA)	EA	25				
28	LTCT	Installation of LTCT Meter with Resign cast CT box (For 100/5 Amps & 200/5 Amps)	Installation, energisation along with communication of new LTCT meters with resin cast CT box and allied accessories. The activity includes supply of 8 Nos of lugs and its crimping on Service cable and connections, Complete grouting of meter box, Communication check of meter with back end server. Earthing also needs to be extended using armour of cable from pole to inside the meter box using suitable size of lugs. (These lugs will also be in scope of supply of BA.)	EA	50				
29	LTCT	Meter Replacement - LTCT Meter Only without box replacement.	Replacement of LTCT meter/ LTCT Smart meter of any rating i.e. 100/5A or 200/5A or 400/5A without box	EA	25				
30	LTCT	Fault rectification in CT Meter pertaining to termination/LT Cable dressing.	Fault rectification includes termination (thimble / socket crimping, gland change, cable lead extension crimping and tightening) and cable dressing.	EA	25				
31	LTCT	LTCT Meter with box Removal - All Rating	Removal of any LTCT meter from site with de-energisation, Meter, modem and its allied accessories with meter box.	EA	25				
32	HT	Meter Accuracy test at site (HTCT)--	HTCT Meter Testing to be done at site. Testing kit will be provided by TPNODL.	EA	50				
33	HT	CTPT / Metering cubicle Installation	Installation of new HT 11 KV Metering cubicle / CTPT unit. The activity includes to & fro transportation, commissioning, energisation of unit in all respect (i.e. connections of CTPT / Metering cubicle , fixing of complete Unit, necessary masonry work, grouting, Cable terminations, control cable connections, socket/thimble crimp , earthing connections, vermin proofing if any) . Note : Loading, Unloading, Installation of CT PT unit, Metering Cubicle at store, site through crane will be included in this cost.	EA	10				

Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 10(RED Rairangpur)Rairangpur-1,Rairangpur-2,Jashipur, karanjia				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C)
34	HT	Pole mounted CTPT Installation	Installation of new HT 11 KV out door Metering CTPT unit, includes to & fro transportation, commissioning and energisation in all respect (i.e. connection in meter box from CTPT terminal block through control cable, pole mount CTPT unit erected at 30' height. Fix and Bolt CTPT unit, stand pipe flange, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CTPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door).	EA	20				
35	HT	Meter Installation - HT Meter Only--	Installation of any HT energy meter along with modem and its termination in Metering cubicle / CTPT unit. This will include removal of existing energy meter if installed. HT team will take care of metering activities of falling under the geographical area of Circle. This rate will include travelling up to an average of 50 KM / case/ month (including to and fro). Any travel beyond an avg. of 50 KM / cases / Month will be paid in the lot of 50 KM basis over and above the rates quoted per activity. BA to quote rate for additional travel / 50 KM during any month.	EA	40				
36	HT	Replacement of only HT meter chamber at PMSS OR Replacement / Shifting of control cable pipe with meter chamber for CTPT unit--circlewise	Replacement of HT Metering chamber of HT 11 KV out door Metering CTPT unit, replacement of control cable pipe , energy meter and allied accessories include to & fro transportation, commissioning and energisation in all respect (i.e. reconnection in meter box from CTPT terminal block through control cable, stand pipe flange replacement, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CTPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door). Note : Loading, Unloading, Installation of CT PT unit, Metering Cubicle at store, site through crane will be included in this cost.	EA	20				
37	HT	CTPT / Metering cubicle Removal	Dismantling of complete HT CTPT / Metering Cubicle unit which includes to & fro transportation, complete removal and de-energisation in all respect (i.e. disconnection in all respect, removal of control cable, ends termination removal and all accessories removal) Note : Loading, Unloading, Installation of CT PT unit, Metering Cubicle at store, site through crane will be included in this cost.	EA	10				

Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 10(RED Rairangpur)Rairangpur-1,Rairangpur-2,Jashipur, karanjia				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C)
38	HT	Travel in HT Meter Installation - (Travel charges in lot of 50 KM)	Rate for travel of HT Vehicle for additional travel in lot of 50 KM (over and above which is covered in Sr. No 27 / 28 /29 /30 ) for a month. Rate for 50 KM additional mileage after rounding off to be charged. If more than one activity is performed at one site at a time, then this cost to be charged against only one activity.	Lot size of 50 KM each	30				
39	HT	Pole mounted CTPT Removal	Dismantling of complete HT metering out door CTPT unit, includes to & fro transportation, removing and de-energisation in all respect (i.e. connection from meter box from CTPT terminal block through control cable, pole mount CTPT unit erected at 30' height. Fix and Bolt CTPT unit, stand pipe flange, two earth connections, HT cable ends termination removal, socket/ thimble crimp, stand pipe flanges removal, meter terminal cover, window and chamber door removal from site).	EA	10				
40	HT	CTPT / Metering cubicle Installation	Installation of new HT 33 KV Metering cubicle / CTPT unit. The activity includes to & fro transportation, commissioning, energisation of unit in all respect (i.e. connections of CTPT / Metering cubicle , fixing of complete Unit, necessary masonry work, grouting, Cable terminations, control cable connections, socket/thimble crimp , earthing connections, vermin proofing if any) . Note : Loading, Unloading, Installation of CT PT unit, Metering Cubicle at store, site through crane will be included in this cost.	EA	30				
41	HT	Pole mounted CTPT Installation	Installation of new HT 33 KV out door Metering CTPT unit, includes to & fro transportation, commissioning and energisation in all respect (i.e. connection in meter box from CTPT terminal block through control cable, pole mount CTPT unit erected at 30' height. Fix and Bolt CTPT unit, stand pipe flange, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CTPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door).	EA	30				



Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 10(RED Rairangpur)Rairangpur-1,Rairangpur-2,,Jashipur, karanjia				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C )
42	HT	Replacement of only HT meter chamber at PMSS OR Replacement / Shifting of control cable pipe with meter chamber for CTPT unit--circlewise	Replacement of HT Metering chamber of HT 33 KV out door Metering CTPT unit, replacement of control cable pipe , energy meter and allied accessories include to & fro transportation, commissioning and energisation in all respect (i.e. reconnection in meter box from CTPT terminal block through control cable, stand pipe flange replacement, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CTPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door). Note : Loading, Unloading, Installation of CT PT unit, Metering Cubicle at store, site through crane will be included in this cost.	EA	20				
43	HT	Pole mounted CTPT Removal	Dismantling of complete 33 KV HT metering out door CTPT unit, includes to & fro transportation, removing and de-energisation in all respect (i.e. connection from meter box from CTPT terminal block through control cable, pole mount CTPT unit erected at 30' height. Fix and Bolt CTPT unit, stand pipe flange, two earth connections, HT cable ends termination removal, socket/ thimble crimp, stand pipe flanges removal, meter terminal cover, window and chamber door removal from site).	EA	10				
44	HT/DT	DP Structure Related	Supply and Installation of 11KV complete DP Structure 9Mtr including pressure channel, MU mounting channel, Angle, Stay set, GI pipe, Complete Concreting, Base plating, etc. including supply of material & transportation (Supply of Pole Excluded).	EA	10				
45	HT/DT	DP Structure Related	Replacement of 11KV complete DP Structure 9Mtr including pressure channel, MU mounting channel, Angle, Stay set, GI pipe, Complete Concreting, Base plating, etc. including supply of material & transportation,	EA	10				
46	HT/DT	DP Structure Related	Removal of 11KV complete DP Structure 9Mtr including pressure channel, MU mounting channel, Angle, Stay set, GI pipe, Complete Concreting, Base plating, etc. including transportation.	EA	10				
47	HT/DT	DP Structure Related	Supply and Installation of 33KV complete DP Structure 9Mtr including pressure channel, MU mounting channel, Angle, Stay set, GI pipe, Complete Concreting, Base plating, earthing etc. including supply of material & transportation (Supply of Pole Excluded).	EA	10				
48	HT/DT	DP Structure Related	Replacement of 33KV complete DP Structure 9Mtr including pressure channel, MU mounting channel, Angle, Stay set, GI pipe, Complete Concreting, Base plating, earthing, etc. including supply of material & transportation.	EA	10				

Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 10(RE D Rairangpur)Rairangpur-1,Rairangpur-2,Jashipur, karanjia				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C )
49	HT/DT	DP Structure Related	Removal of 33KV complete DP Structure 9Mtr including pressure channel, MU mounting channel, Angle, Stay set, GI pipe, Complete Concreting, Base plating, earthing, etc. including transportation	EA	10				
50	FSE	FSE- New Connection	Site verification of new connection with capturing of details as mentioned in site verification form and capturing photographs. Further submission of SVR and file at respective division office.	EA	1000				
51	FSE	FSE - Attribute Change	Site verification Attribute case with capturing of details as mentioned in Attribute Change form and capturing photographs. Further submission of SVR and file at respective division office.	EA	1000				
52	FSE	FSE - SVR Dues/Meter Reading cross check.	Site verification for confirmation of dues with capturing of details as mentioned in dues verification form and capturing photographs. Further submission of SVR and file at respective division office.	EA	600				
53	DD	Data Downloading from Meter (Single Phase )	Data downloading of Meter data after opening of meter box seals and thereafter resealing it. Including DT Meter Reading	EA	600				
54	DD	Data Downloading from Meter (Three Phase/Poly Phase /DT Metering )	Data downloading of Meter data after opening of meter box seals and thereafter resealing it. Including DT Meter Reading	EA	25690				
55	DD	Manul Meter Reading and SVR (Three Phase /Poly Phase/DT Metering)	Taking manual reading parameters from meter display, providing remarks with photographs where data can not be downloaded for reason not attributable to BA, Prepare SVR Against OK Meter in site but Faulty Meter recorded in TPNODL Ledger	EA	6423				
56	MTS	Modem Trouble Shooting activity/Smart Meter Nickcard Replacement & Trouble Shooting	Replacement of faulty modem with healthy modem/Smart Meter Nick card after opening of meter box by removing seals. Coordination with communication testing desk at back office and after ensuring communication, repealing of meter box.	EA	350				
57	MTS	Return Cases - of Modem TS	Return Case of Modem Troubleshooting cases where site visit has been done and modem could not be rectified due to reasons not attributable to BA. The activity include pasting notice , providing photograph of site.	EA	50				
58	SP	Return Cases - SP meter installation	Return Case of New connection and meter replacement cases where site visit has been done and meter could not be installed due to reasons not attributable to BA. The activity include pasting notice, providing photograph of site / meter, Reading and other details of meter. Address not traceable cases will not be included .	EA	500				

Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 10(RE D Rairangpur)Rairangpur-1,Rairangpur-2,Jashipur, karanjia				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C)
59	SP	Shifting of Meters (New / old) from Central store to site store or Site store to Central store. (Bidder has to provide vehicle and sufficient manpower for shifting of Meters/Meter Boxes /accessories from Central Store to respective Division / sub division. The activity include loading and unloading of material at designated locations/stores. Meter LOT size shall be 1000 meters For New Meter 2000 Meter for Scarp Old Meter . Otherthen Define lot Rate will be provided in prorate Basis.	Up to 50 Km						
			Up to 100 Km						
			Up to 150 Km			10			
			Up to 200 Km			10			
			Above 200 Km	EA	10				
60	SP	Shifting of Cable from Central store to site store or Site store to Central store. Bidder has to provide vehicle and sufficient manpower for shifting of cable . The activity include loading and unloading of material at designated locations/stores. LOT size shall be 6Km for 2*4 sqmm/2*6 MM cable/ any 2 core cable.Otherthen Define lot Rate will be provided in prorate Basis.	Up to 50 Km						
			Up to 100 Km						
			Up to 150 Km			10			
			Up to 200 Km			10			
			Above 200 Km	EA	10				
61	Protocol Punching	Punching of Protocols for field activities Prtal entry In Prtal Or Installation Data Capatauring IN MY MMG Mobile Application	Bidder has to punch protocol or Installation Details capturing In MY MMG Mobile APP for Meter installation (Both Single Phase and Three Phase activity/Modem Installation / rectification / Meter Testing (HT and LT) activity / data downloading activity, with 5% QC	EA	28000				

Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 10(RED Rairangpur)Rairangpur-1,Rairangpur-2,Jashipur, karanjia				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C)
62	DT Metering	Static / Smart /DT Meter installation along with Meter Box and connection for CT / PT	Installation of DT meters 800/400/200/5A, installation of ring type CT, Meter Box, and associated accessories on LT side of transformers Incl Electrical Power Cable/Control Cable Laying & Termination	EA	800				
63	DT Metering	Static / Smart /DT Meter removal along with Meter Box	Removal of any DT meter from site with De energisation of Meter, Modem and its allied accessories	EA	200				
64	DT Metering	Static / Smart /DT Meter installation along with Meter Box and Complete Electrical connection	Installation of Static / Smart /DT Meter meters, along with Meter Box, Mounting Arrangement Installation and associated accessories on LT side of transformers.	EA	200				
65	DT Metering	Concreting of Prefabricated GI Structure base by Cement, Sand & Chips Grade M40	Supply of Cement, Sand & Chips, digging of hole Labour as per the site requirement	EA	200				
66	DT Metering	GI Nut, bolts & washer \	Supply of GI Nut, bolts & washer as per the site requirement M10 -M20	KG	200				
67	DT Metering	Installation of 1C*95 , 1C X 150, 1C*300, sq mm from Tr. LT side through meters.	Installation of cable from Meter To Source Vice Varsa Upto 6- 40 MTR	EA	200				
68	DT Metering	DT Meter with box Removal - All Rating	Removal of any DT meter from site with de-energisation, Meter, modem and its allied accessories with meter box.	EA	200				
69	DT Metering	Modem Installation	Replacement of faulty modem with healthy modem after opening of meter box by removing seals. Coordination with communication testing desk at back office and after ensuring communication, resealing of meter box.	EA	200				
70	DT Metering	Return Cases - of Modem TS	Return Case of Modem Troubleshooting cases where site visit has been done and modem could not be rectified due to reasons not attributable to BA. The activity include pasting notice , providing photograph of site.	EA	200				
71	DT Metering	Shifting of Meter from Central store to respective Division / Sub division.	Bidder has to provide vehicle and sufficient manpower for shifting of Meters/accessories from Central Store to respective Division / sub division The activity include loading and unloading of material at designated locations/stores. Meter LOT size shall be 100 meters. (Quantity mentioned in number of to and fro trips). Separate rate to be quoted for the distance range 1-50 Km, 51-100 Km, 100-150 Km, 150-200 Km, & above 200 Kms	EA	200				

Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 10(RED Rairangpur)Rairangpur-1,Rairangpur-2,Jashipur, karanjia				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C)
72	DT Metering	Meter & Channel Earthing	Earthing of the meter and meter channel	EA	800				
<b>Total all inclusive Amount for First year (Year -1)</b>					<b>Total Amount For Year 1</b>				.....
<b>Percentage (%) escalation for Second year (Year 2)</b> <b>(The % escalation shall be applicable on unit rate of all service line item for second year)</b>					..... %				
<b>Total all inclusive Amount for Second year (Year -2)</b>					<b>Total Amount For Year 2</b>				.....
<b>Total Overall all inclusive value for Year 1 and Year 2 ( in Rs.)</b>					<b>Rs. ....</b>				
<p>Note -The bids shall be evaluated commercially on the overall lowest cost for each Divison Set <u>for both years</u>. Therefore bidders are advised to quote their best price for year 1 and best % escalation for year 2 as well.</p>									

Abbreviations	
SP	Single Phase
PP	Poly Phase
LT CT	Low Tension Current Transformer Operated Meters
DT Metering	Distribution TRf Metering
HT CT	High Tension Current Transformer Operated Meters
FSC	Field Service Executive
DD	Data Download
MTS	Modem Trouble Shooting
SVR	Survey
BA	Business Associate / Vendor / Bidder

## Annexure-1 (Schedule of Items)

Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 11( Jajpur Road)Jajpur Road,Duburi,Panikoili				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C )
1	SP	Meter Installation - Single Phase	Installation of 1 phase energy meter with / without meter box. Static /BLE /Smart AMI	EA	16000				
2	SP	Installation of 2C*4 sq mm/2*6 sq mm /2 C* 10 SQMM armoured, Cable O/H (Length 7M-30M)	Stringing, sagging of armoured service cable size 2CX 4 sq mm /2Cx6 mm with length between 7m to 30m including installation of saddle, fastener for support and connection at pole /Required to Fix Height rising Channel,Angle With Anchor Fastener ,Nut & Bolts Supply Of Sundry Items Like Anchor Fastener ( M 12 ) and Nut Bolts will Be in BA Scope With in Service Cable Laying Cost ./Required to Fix Height rising Channel ,Angle With Anchor Fastener ,Nut & Bolts Supply Of Sundry Items Like Anchor Fastener ( M 12 ) and Nut Bolts will Be in BA Scope With in Service Cable Laying Cost .	EA	3000				
3	SP	Meter Removal - Single Phase	Removal of single phase meter without service cable.	EA	14000				
4	SP	Service Cable Removal of any size used for Single Ph connections	Removal of service cable of any size used for single Phase connections from pole/ LT Network.	EA	500				
5	SP	SP Meter Box Replacement	Replacement only Meter box WC Meter (1 Ph) & Smart Meter Single Phase	EA	500				
6	SP	SP Meter Shifting ( Without cable replacement)	Shifting of 1 ph Meters from inside to outside of premises ,height meters to 5 to 6 ft range and as per requirement (With out Cable Replacement )	EA	500				
7	SP	SP Meter Shifting ( With cable replacement)	Shifting of 1 ph Meters from inside to outside of premises ,height meters to 5 to 6 ft range and as per requirement (With cable Replacement)	EA	500				
8	PP	Meter Installation - Poly Phase Whole Current	Installation of Poly Phase whole current energy meter with / without meter box BLE/static /Smart AMI	EA	900				
9	PP	Installation of 4C*25 sq mm armoured, Cable O/H (Length 7M-30M)	Stringing, sagging of armoured service cable size 4CX 25 sq mm with length between 7m to 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble.	EA	150				
10	PP	Installation of 4C*6/4C*10 /4C*16 /Controc Cable Laying sq mm armoured, Cable O/H (Length 7M-30M)	Stringing, sagging of armoured service cable size 4CX 10 sq mm with length between 7m to 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble.	EA	75				
11	PP	Meter Removal - Poly Phase Whole Current	Removal of Poly Phase whole current meter with / without meter box.	EA	700				

Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 11( Jajpur Road)Jajpur Road,Duburi,Panikoili				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C )
12	PP	Service Cable Removal of any size used for Poly Phase connections	Removal of service cable of 4C X 10 sq mm(majorly) or any other size used for Poly Phase Whole Current connections from pole/ LT Network.	EA	100				
13	P/PP / LTC	Meter Accuracy test at site with Accucheck	Single Phase /Polyphase/LTCT Meter Testing with Accucheck (Will be provided by TPNODL) to be done.	EA	800				
14	SP/PP	Supply and Installation of wall corner clamp	Supply and Installation of Wall Corner Clamp. Consumables i.e. fastener etc. shall be in the scope of BA	EA	300				
15	SP/PP	Supply and Installation of Stand pipe for maintaining the Sagging.	Supply and Installation of Stand pipe for maintaining the Sagging. (LT GI Pipe for Service Line Support as per REC / TPNODL standard)	EA	2800				
16	SP/PP	Bus bar Installation	Installation of any type of bus bar box ( 2 Way & 4 Way etc ) on wall / Pole along with supply of fasteners, steel strap and buckles. (Fastener / Steel strap shall be supplied by BA)	EA	100				
17	SP/PP	Prefabricated GI Structure (Supply Item) / kg	Supply & Installation of Prefabricated / GI structural angle/ channel / flats of different sizes, as per the site requirement	Kg	500				
18	SP/PP	Installation of Bracket Angle/ service anchor/ suspension clamp/ slotted angle	Installation of GI Bracket for Anchoring service cable of size 50, 95 & 150 sqmm / Installation of Service Cable Anchor / Installation of Slotted angle on pole in case of 2x10/4x10/4x25 cable lying, on uncleaned poles. (Number of items used at one site shall be considered for billing).	EA	1000				
19	SP/PP	Loop Connection for service cable size 2C X 4 sq mm/ 2C X 10 sq mm/ 4C X 10 sq mm/ 4C X 25 sq mm with length ≤ 6 M	Stringing of loop connection ( length ≤ 6 meter ) for service cable size 2C X 4 sq mm/ 2C X 10 sq mm/ 4C X 10 sq mm/ 4C X 25 sq mm.	EA	100				
20	PP/DT	Distribution box/ Busbar work	Bus bar/Distribution Box Installation: Installation of any type of bus bar box on wall / Pole along with supply of fasteners, steel strap and buckles. (Fastener / Steel strap shall be supplied by BA)	EA	600				
21	PP/DT	Distribution box/ Busbar work	Bus bar/Distribution Box Removal	EA	600				
22	PP/DT	Meter Box Replacement	Replacement only Meter box WC Meter (3 Ph)	EA	600				
23	PP/DT	Meter Box Replacement	Replacement only Meter box LTCT Meter	EA	600				
24	PP/DT	Meter shifting work	Shifting of 3 ph WC Meters from inside to outside of premises ,height meters to 5 to 6 ft range and as per requirement.	EA	600				
25	PP/DT	Transportation	Hiring of Crane for Cubical and other related work (Rate/Hr)	EA	10				

Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 11( Jajpur Road)Jajpur Road,Duburi,Panikoili				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C)
26	LTCT	Static / Smart installation along with Meter Box and connection for CT / PT	Installation of Static / Smart meters along with ring type CT, Meter Box, and associated accessories on LT side of transformers.	EA	10				
27	LTCT	Installation of 4C*95 / 4C X 150 sq mm armoured service cable, O/H (Length up to 30M)	Stringing, sagging of armoured service cable size 4CX 95 sq mm / 4C X 150 sq mm with length upto 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble. (Saddles and Fastners are to be supplied by BA)	EA	25				
28	LTCT	Installation of LTCT Meter with Resign cast CT box (For 100/5 Amps & 200/5 Amps)	Installation, energisation along with communication of new LTCT meters with resin cast CT box and allied accessories. The activity includes supply of 8 Nos of lugs and its crimping on Service cable and connections, Complete grouting of meter box, Communication check of meter with back end server. Earthing also needs to be extended using armour of cable from pole to inside the meter box using suitable size of lugs. (These lugs will also be in scope of supply of BA.)	EA	200				
29	LTCT	Meter Replacement - LTCT Meter Only without box replacement.	Replacement of LTCT meter/ LTCT Smart meter of any rating i.e. 100/5A or 200/5A or 400/5A without box	EA	25				
30	LTCT	Fault rectification in CT Meter pertaining to termination/LT Cable dressing.	Fault rectification includes termination (thimble / socket crimping, gland change, cable lead extension crimping and tightening) and cable dressing.	EA	25				
31	LTCT	LTCT Meter with box Removal - All Rating	Removal of any LTCT meter from site with de-energisation, Meter, modem and its allied accessories with meter box.	EA	25				
32	HT	Meter Accuracy test at site (HTCT)--	HTCT Meter Testing to be done at site. Testing kit will be provided by TPNODL.	EA	50				
33	HT	CTPT / Metering cubicle Installation	Installation of new HT 11 KV Metering cubicle / CTPT unit. The activity includes to & fro transportation, commissioning, energisation of unit in all respect (i.e. connections of CTPT / Metering cubicle , fixing of complete Unit, necessary masonry work, grouting, Cable terminations, control cable connections, socket/thimble crimp , earthing connections, vermin proofing if any) . Note : Loading, Unloading, Installation of CT PT unit, Metering Cubicle at store, site through crane will be included in this cost.	EA	100				



Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 11( Jajpur Road)Jajpur Road,Duburi,Panikoili				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C )
34	HT	Pole mounted CTPT Installation	Installation of new HT 11 KV out door Metering CTPT unit, includes to & fro transportation, commissioning and energisation in all respect (i.e. connection in meter box from CTPT terminal block through control cable, pole mount CTPT unit erected at 30' height. Fix and Bolt CTPT unit, stand pipe flange, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CTPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door).	EA	100				
35	HT	Meter Installation - HT Meter Only--	Installation of any HT energy meter along with modem and its termination in Metering cubicle / CTPT unit. This will include removal of existing energy meter if installed. HT team will take care of metering activities of falling under the geographical area of Circle. This rate will include travelling up to an average of 50 KM / case/ month (including to and fro). Any travel beyond an avg. of 50 KM / cases / Month will be paid in the lot of 50 KM basis over and above the rates quoted per activity. BA to quote rate for additional travel / 50 KM during any month.	EA	40				
36	HT	Replacement of only HT meter chamber at PMSS OR Replacement / Shifting of control cable pipe with meter chamber for CTPT unit--circlewise	Replacement of HT Metering chamber of HT 11 KV out door Metering CTPT unit, replacement of control cable pipe , energy meter and allied accessories include to & fro transportation, commissioning and energisation in all respect (i.e. reconnection in meter box from CTPT terminal block through control cable, stand pipe flange replacement, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CTPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door). Note : Loading, Unloading, Installation of CT PT unit, Metering Cubicle at store, site through crane will be included in this cost.	EA	20				
37	HT	CTPT / Metering cubicle Removal	Dismantling of complete HT CTPT / Metering Cubicle unit which includes to & fro transportation, complete removal and de-energisation in all respect (i.e. disconnection in all respect, removal of control cable, ends termination removal and all accessories removal) Note : Loading, Unloading, Installation of CT PT unit, Metering Cubicle at store, site through crane will be included in this cost.	EA	10				

Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 11( Jajpur Road)Jajpur Road,Duburi,Panikoili				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C)
38	HT	Travel in HT Meter Installation - (Travel charges in lot of 50 KM)	Rate for travel of HT Vehicle for additional travel in lot of 50 KM (over and above which is covered in Sr. No 27 / 28 /29 /30 ) for a month. Rate for 50 KM additional mileage after rounding off to be charged. If more than one activity is performed at one site at a time, then this cost to be charged against only one activity.	Lot size of 50 KM each	30				
39	HT	Pole mounted CTPT Removal	Dismantling of complete HT metering out door CTPT unit, includes to & fro transportation, removing and de-energisation in all respect (i.e. connection from meter box from CTPT terminal block through control cable, pole mount CTPT unit erected at 30' height. Fix and Bolt CTPT unit, stand pipe flange, two earth connections, HT cable ends termination removal, socket/ thimble crimp, stand pipe flanges removal, meter terminal cover, window and chamber door removal from site).	EA	10				
40	HT	CTPT / Metering cubicle Installation	Installation of new HT 33 KV Metering cubicle / CTPT unit. The activity includes to & fro transportation, commissioning, energisation of unit in all respect (i.e. connections of CTPT / Metering cubicle , fixing of complete Unit, necessary masonry work, grouting, Cable terminations, control cable connections, socket/thimble crimp , earthing connections, vermin proofing if any) . Note : Loading, Unloading, Installation of CT PT unit, Metering Cubicle at store, site through crane will be included in this cost.	EA	30				
41	HT	Pole mounted CTPT Installation	Installation of new HT 33 KV out door Metering CTPT unit, includes to & fro transportation, commissioning and energisation in all respect (i.e. connection in meter box from CTPT terminal block through control cable, pole mount CTPT unit erected at 30' height. Fix and Bolt CTPT unit, stand pipe flange, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CTPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door).	EA	30				

Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 11( Jajpur Road)Jajpur Road,Duburi,Panikoili				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C )
42	HT	Replacement of only HT meter chamber at PMSS OR Replacement / Shifting of control cable pipe with meter chamber for CTPT unit--circlewise	Replacement of HT Metering chamber of HT 33 KV out door Metering CTPT unit, replacement of control cable pipe , energy meter and allied accessories include to & fro transportation, commissioning and energisation in all respect (i.e. reconnection in meter box from CTPT terminal block through control cable, stand pipe flange replacement, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CTPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door). Note : Loading, Unloading, Installation of CT PT unit, Metering Cubicle at store, site through crane will be included in this cost.	EA	20				
43	HT	Pole mounted CTPT Removal	Dismantling of complete 33 KV HT metering out door CTPT unit, includes to & fro transportation, removing and de-energisation in all respect (i.e. connection from meter box from CTPT terminal block through control cable, pole mount CTPT unit erected at 30' height. Fix and Bolt CTPT unit, stand pipe flange, two earth connections, HT cable ends termination removal, socket/ thimble crimp, stand pipe flanges removal, meter terminal cover, window and chamber door removal from site).	EA	10				
44	HT/DT	DP Structure Related	Supply and Installation of 11KV complete DP Structure 9Mtr including pressure channel, MU mounting channel, Angle, Stay set, GI pipe, Complete Concreting, Base plating, etc. including supply of material & transportation (Supply of Pole Excluded).	EA	10				
45	HT/DT	DP Structure Related	Replacement of 11KV complete DP Structure 9Mtr including pressure channel, MU mounting channel, Angle, Stay set, GI pipe, Complete Concreting, Base plating, etc. including supply of material & transportation,	EA	10				
46	HT/DT	DP Structure Related	Removal of 11KV complete DP Structure 9Mtr including pressure channel, MU mounting channel, Angle, Stay set, GI pipe, Complete Concreting, Base plating, etc. including transportation.	EA	10				
47	HT/DT	DP Structure Related	Supply and Installation of 33KV complete DP Structure 9Mtr including pressure channel, MU mounting channel, Angle, Stay set, GI pipe, Complete Concreting, Base plating, earthing etc. including supply of material & transportation (Supply of Pole Excluded).	EA	10				
48	HT/DT	DP Structure Related	Replacement of 33KV complete DP Structure 9Mtr including pressure channel, MU mounting channel, Angle, Stay set, GI pipe, Complete Concreting, Base plating, earthing, etc. including supply of material & transportation.	EA	10				

Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 11( Jajpur Road)Jajpur Road,Duburi,Panikoili				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C )
49	HT/DT	DP Structure Related	Removal of 33KV complete DP Structure 9Mtr including pressure channel, MU mounting channel, Angle, Stay set, GI pipe, Complete Concreting, Base plating, earthing, etc. including transportation	EA	10				
50	FSE	FSE- New Connection	Site verification of new connection with capturing of details as mentioned in site verification form and capturing photographs. Further submission of SVR and file at respective division office.	EA	1000				
51	FSE	FSE - Attribute Change	Site verification Attribute case with capturing of details as mentioned in Attribute Change form and capturing photographs. Further submission of SVR and file at respective division office.	EA	1000				
52	FSE	FSE - SVR Dues/Meter Reading cross check.	Site verification for confirmation of dues with capturing of details as mentioned in dues verification form and capturing photographs. Further submission of SVR and file at respective division office.	EA	600				
53	DD	Data Downloading from Meter (Single Phase )	Data downloading of Meter data after opening of meter box seals and thereafter resealing it. Including DT Meter Reading	EA	600				
54	DD	Data Downloading from Meter (Three Phase/Poly Phase /DT Metering )	Data downloading of Meter data after opening of meter box seals and thereafter resealing it. Including DT Meter Reading	EA	17981				
55	DD	Manul Meter Reading and SVR (Three Phase /Poly Phase/DT Metering)	Taking manual reading parameters from meter display, providing remarks with photographs where data can not be downloaded for reason not attributable to BA, Prepare SVR Against OK Meter in site but Faulty Meter recorded in TPNODL Ledger	EA	4496				
56	MTS	Modem Trouble Shooting activity/Smart Meter Nickcard Replacement & Trouble Shooting	Replacement of faulty modem with healthy modem/Smart Meter Nick card after opening of meter box by removing seals. Coordination with communication testing desk at back office and after ensuring communication, repealing of meter box.	EA	350				
57	MTS	Return Cases - of Modem TS	Return Case of Modem Troubleshooting cases where site visit has been done and modem could not be rectified due to reasons not attributable to BA. The activity include pasting notice , providing photograph of site.	EA	50				
58	SP	Return Cases - SP meter installation	Return Case of New connection and meter replacement cases where site visit has been done and meter could not be installed due to reasons not attributable to BA. The activity include pasting notice, providing photograph of site / meter, Reading and other details of meter. Address not traceable cases will not be included .	EA	1000				

Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 11( Jajpur Road)Jajpur Road,Duburi,Panikoili				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C )
59	SP	Shifting of Meters (New / old) from Central store to site store or Site store to Central store. (Bidder has to provide vehicle and sufficient manpower for shifting of Meters/Meter Boxes /accessories from Central Store to respective Division / sub division. The activity include loading and unloading of material at designated locations/stores. Meter LOT size shall be 1000 meters For New Meter 2000 Meter for Scarp Old Meter . Otherthen Define lot Rate will be provided in prorate Basis.	Up to 50 Km						
			Up to 100 Km		10				
			Up to 150 Km						
			Up to 200 Km		10				
			Above 200 Km	EA	10				
60	SP	Shifting of Cable from Central store to site store or Site store to Central store. Bidder has to provide vehicle and sufficient manpower for shifting of cable . The activity include loading and unloading of material at designated locations/stores. LOT size shall be 6Km for 2*4 sqmm/2*6 MM cable/ any 2 core cable.Otherthen Define lot Rate will be provided in prorate Basis.	Up to 50 Km						
			Up to 100 Km		10				
			Up to 150 Km						
			Up to 200 Km		10				
			Above 200 Km	EA	10				
61	Protocol Punching	Punching of Protocols for field activities Prtal entry In Prtal Or Installation Data Capatauring IN MY MMG Mobile Application	Bidder has to punch protocol or Installation Details capturing In MY MMG Mobile APP for Meter installation (Both Single Phase and Three Phase activity/Modem Installation / rectification / Meter Testing (HT and LT) activity / data downloading activity, with 5% QC	EA	17000				

Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 11( Jajpur Road)Jajpur Road,Duburi,Panikoili				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C )
62	DT Metering	Static / Smart /DT Meter installation along with Meter Box and connection for CT / PT	Installation of DT meters 800/400/200/5A, installation of ring type CT, Meter Box, and associated accessories on LT side of transformers Incl Electrical Power Cable/Control Cable Laying & Termination	EA	800				
63	DT Metering	Static / Smart /DT Meter removal along with Meter Box	Removal of any DT meter from site with De energisation of Meter, Modem and its allied accessories	EA	200				
64	DT Metering	Static / Smart /DT Meter installation along with Meter Box and Complete Electrical connection	Installation of Static / Smart /DT Meter meters, along with Meter Box, Mounting Arrangement Installation and associated accessories on LT side of transformers.	EA	200				
65	DT Metering	Concreting of Prefabricated GI Structure base by Cement, Sand & Chips Grade M40	Supply of Cement, Sand & Chips, digging of hole Labour as per the site requirement	EA	200				
66	DT Metering	GI Nut, bolts & washer \	Supply of GI Nut, bolts & washer as per the site requirement M10 -M20	KG	200				
67	DT Metering	Installation of 1C*95 , 1C X 150, 1C*300, sq mm from Tr. LT side through meters.	Installation of cable from Meter To Source Vice Varsa Upto 6- 40 MTR	EA	200				
68	DT Metering	DT Meter with box Removal - All Rating	Removal of any DT meter from site with de-energisation, Meter, modem and its allied accessories with meter box.	EA	200				
69	DT Metering	Modem Installation	Replacement of faulty modem with healthy modem after opening of meter box by removing seals. Coordination with communication testing desk at back office and after ensuring communication, resealing of meter box.	EA	200				
70	DT Metering	Return Cases - of Modem TS	Return Case of Modem Troubleshooting cases where site visit has been done and modem could not be rectified due to reasons not attributable to BA. The activity include pasting notice , providing photograph of site.	EA	200				
71	DT Metering	Shifting of Meter from Central store to respective Division / Sub division.	Bidder has to provide vehicle and sufficient manpower for shifting of Meters/accessories from Central Store to respective Division / sub division The activity include loading and unloading of material at designated locations/stores. Meter LOT size shall be 100 meters. (Quantity mentioned in number of to and fro trips). Separate rate to be quoted for the distance range 1-50 Km, 51-100 Km, 100-150 Km, 150-200 Km, & above 200 Kms	EA	200				

Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 11( Jajpur Road)Jajpur Road,Duburi,Panikoili				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C)
72	DT Metering	Meter & Channel Earthing	Earthing of the meter and meter channel	EA	800				
<b>Total all inclusive Amount for First year (Year -1)</b>					<b>Total Amount For Year 1</b>				.....
<b>Percentage (%) escalation for Second year (Year 2) (The % escalation shall be applicable on unit rate of all service line item for second year)</b>					..... %				
<b>Total all inclusive Amount for Second year (Year -2)</b>					<b>Total Amount For Year 2</b>				.....
<b>Total Overall all inclusive value for Year 1 and Year 2 ( in Rs.)</b>					<b>Rs. ....</b>				
<p>Note -The bids shall be evaluated commercially on the overall lowest cost for each Divison Set <u>for both years</u>. Therefore bidders are advised to quote their best price for year 1 and best % escalation for year 2 as well.</p>									

Abbreviations	
SP	Single Phase
PP	Poly Phase
LT CT	Low Tension Current Transformer Operated Meters
DT Metering	Distribution TRf Metering
HT CT	High Tension Current Transformer Operated Meters
FSC	Field Service Executive
DD	Data Download
MTS	Modem Trouble Shooting
SVR	Survey
BA	Business Associate / Vendor / Bidder

## Annexure-1 (Schedule of Items)

Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 12(JTED Jajpur Town)No-1 Jajpur Town,Binjharpur,Dasarathpur				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C )
1	SP	Meter Installation - Single Phase	Installation of 1 phase energy meter with / without meter box. Static /BLE /Smart AMI	EA	12000				
2	SP	Installation of 2C*4 sq mm/2*6 sq mm /2 C* 10 SQMM armoured, Cable O/H (Length 7M-30M)	Stringing, sagging of armoured service cable size 2CX 4 sq mm /2Cx6 mm with length between 7m to 30m including installation of saddle, fastener for support and connection at pole /Required to Fix Height rising Channel,Angle With Anchor Fastener ,Nut & Bolts Supply Of Sundry Items Like Anchor Fastener ( M 12 ) and Nut Bolts will Be in BA Scope With in Service Cable Laying Cost ./Required to Fix Height rising Channel ,Angle With Anchor Fastener ,Nut & Bolts Supply Of Sundry Items Like Anchor Fastener ( M 12 ) and Nut Bolts will Be in BA Scope With in Service Cable Laying Cost .	EA	3000				
3	SP	Meter Removal - Single Phase	Removal of single phase meter without service cable.	EA	10000				
4	SP	Service Cable Removal of any size used for Single Ph connections	Removal of service cable of any size used for single Phase connections from pole/ LT Network.	EA	500				
5	SP	SP Meter Box Replacement	Replacement only Meter box WC Meter (1 Ph) & Smart Meter Single Phase	EA	500				
6	SP	SP Meter Shifting ( Without cable replacement)	Shifting of 1 ph Meters from inside to outside of premises ,height meters to 5 to 6 ft range and as per requirement (With out Cable Replacement )	EA	500				
7	SP	SP Meter Shifting ( With cable replacement)	Shifting of 1 ph Meters from inside to outside of premises ,height meters to 5 to 6 ft range and as per requirement (With cable Replacement)	EA	500				
8	PP	Meter Installation - Poly Phase Whole Current	Installation of Poly Phase whole current energy meter with / without meter box BLE/static /Smart AMI	EA	900				
9	PP	Installation of 4C*25 sq mm armoured, Cable O/H (Length 7M-30M)	Stringing, sagging of armoured service cable size 4CX 25 sq mm with length between 7m to 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble.	EA	150				
10	PP	Installation of 4C*6/4C*10 /4C*16 /Controc Cable Laying sq mm armoured, Cable O/H (Length 7M-30M)	Stringing, sagging of armoured service cable size 4CX 10 sq mm with length between 7m to 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble.	EA	75				
11	PP	Meter Removal - Poly Phase Whole Current	Removal of Poly Phase whole current meter with / without meter box.	EA	700				



Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 12(JTED Jajpur Town)No-1 Jajpur Town,Binjharpur,Dasarathpur				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C )
12	PP	Service Cable Removal of any size used for Poly Phase connections	Removal of service cable of 4C X 10 sq mm(majorly) or any other size used for Poly Phase Whole Current connections from pole/ LT Network.	EA	100				
13	P/PP / LTC	Meter Accuracy test at site with Accucheck	Single Phase /Polyphase/LTCT Meter Testing with Accucheck (Will be provided by TPNODL) to be done.	EA	800				
14	SP/PP	Supply and Installation of wall corner clamp	Supply and Installation of Wall Corner Clamp. Consumables i.e. fastener etc. shall be in the scope of BA	EA	300				
15	SP/PP	Supply and Installation of Stand pipe for maintaining the Sagging.	Supply and Installation of Stand pipe for maintaining the Sagging. (LT GI Pipe for Service Line Support as per REC / TPNODL standard)	EA	2800				
16	SP/PP	Bus bar Installation	Installation of any type of bus bar box ( 2 Way & 4 Way etc ) on wall / Pole along with supply of fasteners, steel strap and buckles. (Fastener / Steel strap shall be supplied by BA)	EA	100				
17	SP/PP	Prefabricated GI Structure (Supply Item) / kg	Supply & Installation of Prefabricated / GI structural angle/ channel / flats of different sizes, as per the site requirement	Kg	500				
18	SP/PP	Installation of Bracket Angle/ service anchor/ suspension clamp/ slotted angle	Installation of GI Bracket for Anchoring service cable of size 50, 95 & 150 sqmm / Installation of Service Cable Anchor / Installation of Slotted angle on pole in case of 2x10/4x10/4x25 cable lying, on uncleaned poles. (Number of items used at one site shall be considered for billing).	EA	1000				
19	SP/PP	Loop Connection for service cable size 2C X 4 sq mm/ 2C X 10 sq mm/ 4C X 10 sq mm/ 4C X 25 sq mm with length ≤ 6 M	Stringing of loop connection ( length ≤ 6 meter ) for service cable size 2C X 4 sq mm/ 2C X 10 sq mm/ 4C X 10 sq mm/ 4C X 25 sq mm.	EA	100				
20	PP/DT	Distribution box/ Busbar work	Bus bar/Distribution Box Installation: Installation of any type of bus bar box on wall / Pole along with supply of fasteners, steel strap and buckles. (Fastener / Steel strap shall be supplied by BA)	EA	600				
21	PP/DT	Distribution box/ Busbar work	Bus bar/Distribution Box Removal	EA	600				
22	PP/DT	Meter Box Replacement	Replacement only Meter box WC Meter (3 Ph)	EA	600				
23	PP/DT	Meter Box Replacement	Replacement only Meter box LTCT Meter	EA	600				
24	PP/DT	Meter shifting work	Shifting of 3 ph WC Meters from inside to outside of premises ,height meters to 5 to 6 ft range and as per requirement.	EA	600				
25	PP/DT	Transportation	Hiring of Crane for Cubical and other related work (Rate/Hr)	EA	10				

Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 12(JTED Jajpur Town)No-1 Jajpur Town,Binjharpur,Dasarathpur				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C)
26	LTCT	Static / Smart installation along with Meter Box and connection for CT / PT	Installation of Static / Smart meters along with ring type CT, Meter Box, and associated accessories on LT side of transformers.	EA	10				
27	LTCT	Installation of 4C*95 / 4C X 150 sq mm armoured service cable, O/H (Length up to 30M)	Stringing, sagging of armoured service cable size 4CX 95 sq mm / 4C X 150 sq mm with length upto 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble. (Saddles and Fastners are to be supplied by BA)	EA	25				
28	LTCT	Installation of LTCT Meter with Resign cast CT box (For 100/5 Amps & 200/5 Amps)	Installation, energisation along with communication of new LTCT meters with resin cast CT box and allied accessories. The activity includes supply of 8 Nos of lugs and its crimping on Service cable and connections, Complete grouting of meter box, Communication check of meter with back end server. Earthing also needs to be extended using armour of cable from pole to inside the meter box using suitable size of lugs. (These lugs will also be in scope of supply of BA.)	EA	100				
29	LTCT	Meter Replacement - LTCT Meter Only without box replacement.	Replacement of LTCT meter/ LTCT Smart meter of any rating i.e. 100/5A or 200/5A or 400/5A without box	EA	25				
30	LTCT	Fault rectification in CT Meter pertaining to termination/LT Cable dressing.	Fault rectification includes termination (thimble / socket crimping, gland change, cable lead extension crimping and tightening) and cable dressing.	EA	25				
31	LTCT	LTCT Meter with box Removal - All Rating	Removal of any LTCT meter from site with de-energisation, Meter, modem and its allied accessories with meter box.	EA	25				
32	HT	Meter Accuracy test at site (HTCT)--	HTCT Meter Testing to be done at site. Testing kit will be provided by TPNODL.	EA	50				
33	HT	CTPT / Metering cubicle Installation	Installation of new HT 11 KV Metering cubicle / CTPT unit. The activity includes to & fro transportation, commissioning, energisation of unit in all respect (i.e. connections of CTPT / Metering cubicle , fixing of complete Unit, necessary masonry work, grouting, Cable terminations, control cable connections, socket/thimble crimp , earthing connections, vermin proofing if any) . Note : Loading, Unloading, Installation of CT PT unit, Metering Cubicle at store, site through crane will be included in this cost.	EA	50				

Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 12(JTED Jajpur Town)No-1 Jajpur Town,Binjharpur,Dasarathpur				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C)
34	HT	Pole mounted CTPT Installation	Installation of new HT 11 KV out door Metering CTPT unit, includes to & fro transportation, commissioning and energisation in all respect (i.e. connection in meter box from CTPT terminal block through control cable, pole mount CTPT unit erected at 30' height. Fix and Bolt CTPT unit, stand pipe flange, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CTPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door).	EA	80				
35	HT	Meter Installation - HT Meter Only--	Installation of any HT energy meter along with modem and its termination in Metering cubicle / CTPT unit. This will include removal of existing energy meter if installed. HT team will take care of metering activities of falling under the geographical area of Circle. This rate will include travelling up to an average of 50 KM / case/ month (including to and fro). Any travel beyond an avg. of 50 KM / cases / Month will be paid in the lot of 50 KM basis over and above the rates quoted per activity. BA to quote rate for additional travel / 50 KM during any month.	EA	40				
36	HT	Replacement of only HT meter chamber at PMSS OR Replacement / Shifting of control cable pipe with meter chamber for CTPT unit--circlewise	Replacement of HT Metering chamber of HT 11 KV out door Metering CTPT unit, replacement of control cable pipe , energy meter and allied accessories include to & fro transportation, commissioning and energisation in all respect (i.e. reconnection in meter box from CTPT terminal block through control cable, stand pipe flange replacement, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CTPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door). Note : Loading, Unloading, Installation of CT PT unit, Metering Cubicle at store, site through crane will be included in this cost.	EA	20				
37	HT	CTPT / Metering cubicle Removal	Dismantling of complete HT CTPT / Metering Cubicle unit which includes to & fro transportation, complete removal and de-energisation in all respect (i.e. disconnection in all respect, removal of control cable, ends termination removal and all accessories removal) Note : Loading, Unloading, Installation of CT PT unit, Metering Cubicle at store, site through crane will be included in this cost.	EA	10				

Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 12(JTED Jajpur Town)No-1 Jajpur Town,Binjharpur,Dasarathpur				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C)
38	HT	Travel in HT Meter Installation - (Travel charges in lot of 50 KM)	Rate for travel of HT Vehicle for additional travel in lot of 50 KM (over and above which is covered in Sr. No 27 / 28 /29 /30 ) for a month. Rate for 50 KM additional mileage after rounding off to be charged. If more than one activity is performed at one site at a time, then this cost to be charged against only one activity.	Lot size of 50 KM each	30				
39	HT	Pole mounted CTPT Removal	Dismantling of complete HT metering out door CTPT unit, includes to & fro transportation, removing and de-energisation in all respect (i.e. connection from meter box from CTPT terminal block through control cable, pole mount CTPT unit erected at 30' height. Fix and Bolt CTPT unit, stand pipe flange, two earth connections, HT cable ends termination removal, socket/ thimble crimp, stand pipe flanges removal, meter terminal cover, window and chamber door removal from site).	EA	10				
40	HT	CTPT / Metering cubicle Installation	Installation of new HT 33 KV Metering cubicle / CTPT unit. The activity includes to & fro transportation, commissioning, energisation of unit in all respect (i.e. connections of CTPT / Metering cubicle , fixing of complete Unit, necessary masonry work, grouting, Cable terminations, control cable connections, socket/thimble crimp , earthing connections, vermin proofing if any) . Note : Loading, Unloading, Installation of CT PT unit, Metering Cubicle at store, site through crane will be included in this cost.	EA	30				
41	HT	Pole mounted CTPT Installation	Installation of new HT 33 KV out door Metering CTPT unit, includes to & fro transportation, commissioning and energisation in all respect (i.e. connection in meter box from CTPT terminal block through control cable, pole mount CTPT unit erected at 30' height. Fix and Bolt CTPT unit, stand pipe flange, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CTPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door).	EA	30				

Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 12(JTED Jajpur Town)No-1 Jajpur Town,Binjharpur,Dasarathpur				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C)
42	HT	Replacement of only HT meter chamber at PMSS OR Replacement / Shifting of control cable pipe with meter chamber for CTPT unit--circlewise	Replacement of HT Metering chamber of HT 33 KV out door Metering CTPT unit, replacement of control cable pipe , energy meter and allied accessories include to & fro transportation, commissioning and energisation in all respect (i.e. reconnection in meter box from CTPT terminal block through control cable, stand pipe flange replacement, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CTPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door). Note : Loading, Unloading, Installation of CT PT unit, Metering Cubicle at store, site through crane will be included in this cost.	EA	3				
43	HT	Pole mounted CTPT Removal	Dismantling of complete 33 KV HT metering out door CTPT unit, includes to & fro transportation, removing and de-energisation in all respect (i.e. connection from meter box from CTPT terminal block through control cable, pole mount CTPT unit erected at 30' height. Fix and Bolt CTPT unit, stand pipe flange, two earth connections, HT cable ends termination removal, socket/ thimble crimp, stand pipe flanges removal, meter terminal cover, window and chamber door removal from site).	EA	10				
44	HT/DT	DP Structure Related	Supply and Installation of 11KV complete DP Structure 9Mtr including pressure channel, MU mounting channel, Angle, Stay set, GI pipe, Complete Concreting, Base plating, etc. including supply of material & transportation (Supply of Pole Excluded).	EA	10				
45	HT/DT	DP Structure Related	Replacement of 11KV complete DP Structure 9Mtr including pressure channel, MU mounting channel, Angle, Stay set, GI pipe, Complete Concreting, Base plating, etc. including supply of material & transportation,	EA	10				
46	HT/DT	DP Structure Related	Removal of 11KV complete DP Structure 9Mtr including pressure channel, MU mounting channel, Angle, Stay set, GI pipe, Complete Concreting, Base plating, etc. including transportation.	EA	10				
47	HT/DT	DP Structure Related	Supply and Installation of 33KV complete DP Structure 9Mtr including pressure channel, MU mounting channel, Angle, Stay set, GI pipe, Complete Concreting, Base plating, earthing etc. including supply of material & transportation (Supply of Pole Excluded).	EA	10				
48	HT/DT	DP Structure Related	Replacement of 33KV complete DP Structure 9Mtr including pressure channel, MU mounting channel, Angle, Stay set, GI pipe, Complete Concreting, Base plating, earthing, etc. including supply of material & transportation.	EA	10				

Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 12(JTED Jajpur Town)No-1 Jajpur Town,Binjharpur,Dasarathpur				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C)
49	HT/DT	DP Structure Related	Removal of 33KV complete DP Structure 9Mtr including pressure channel, MU mounting channel, Angle, Stay set, GI pipe, Complete Concreting, Base plating, earthing, etc. including transportation	EA	10				
50	FSE	FSE- New Connection	Site verification of new connection with capturing of details as mentioned in site verification form and capturing photographs. Further submission of SVR and file at respective division office.	EA	1000				
51	FSE	FSE - Attribute Change	Site verification Attribute case with capturing of details as mentioned in Attribute Change form and capturing photographs. Further submission of SVR and file at respective division office.	EA	1000				
52	FSE	FSE - SVR Dues/Meter Reading cross check.	Site verification for confirmation of dues with capturing of details as mentioned in dues verification form and capturing photographs. Further submission of SVR and file at respective division office.	EA	600				
53	DD	Data Downloading from Meter (Single Phase )	Data downloading of Meter data after opening of meter box seals and thereafter resealing it. Including DT Meter Reading	EA	600				
54	DD	Data Downloading from Meter (Three Phase/Poly Phase /DT Metering )	Data downloading of Meter data after opening of meter box seals and thereafter resealing it. Including DT Meter Reading	EA	11626				
55	DD	Manul Meter Reading and SVR (Three Phase /Poly Phase/DT Metering)	Taking manual reading parameters from meter display, providing remarks with photographs where data can not be downloaded for reason not attributable to BA, Prepare SVR Against OK Meter in site but Faulty Meter recorded in TPNODL Ledger	EA	2907				
56	MTS	Modem Trouble Shooting activity/Smart Meter Nickcard Replacement & Trouble Shooting	Replacement of faulty modem with healthy modem/Smart Meter Nick card after opening of meter box by removing seals. Coordination with communication testing desk at back office and after ensuring communication, repealing of meter box.	EA	350				
57	MTS	Return Cases - of Modem TS	Return Case of Modem Troubleshooting cases where site visit has been done and modem could not be rectified due to reasons not attributable to BA. The activity include pasting notice , providing photograph of site.	EA	50				
58	SP	Return Cases - SP meter installation	Return Case of New connection and meter replacement cases where site visit has been done and meter could not be installed due to reasons not attributable to BA. The activity include pasting notice, providing photograph of site / meter, Reading and other details of meter. Address not traceable cases will not be included .	EA	750				

Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 12(JTED Jajpur Town)No-1 Jajpur Town,Binjharpur,Dasarathpur				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C)
59	SP	Shifting of Meters (New / old) from Central store to site store or Site store to Central store. (Bidder has to provide vehicle and sufficient manpower for shifting of Meters/Meter Boxes /accessories from Central Store to respective Division / sub division. The activity include loading and unloading of material at designated locations/stores. Meter LOT size shall be 1000 meters For New Meter 2000 Meter for Scarp Old Meter . Otherthen Define lot Rate will be provided in prorate Basis.	Up to 50 Km						
			Up to 100 Km		15				
			Up to 150 Km						
			Up to 200 Km		10				
			Above 200 Km	EA	10				
60	SP	Shifting of Cable from Central store to site store or Site store to Central store. Bidder has to provide vehicle and sufficient manpower for shifting of cable . The activity include loading and unloading of material at designated locations/stores. LOT size shall be 6Km for 2*4 sqmm/2*6 MM cable/ any 2 core cable.Otherthen Define lot Rate will be provided in prorate Basis.	Up to 50 Km						
			Up to 100 Km		15				
			Up to 150 Km						
			Up to 200 Km		10				
			Above 200 Km	EA	10				
61	Protocol Punching	Punching of Protocols for field activities Prtal entry In Prtal Or Installation Data Capatauring IN MY MMG Mobile Application	Bidder has to punch protocol or Installation Details capturing In MY MMG Mobile APP for Meter installation (Both Single Phase and Three Phase activity/Modem Installation / rectification / Meter Testing (HT and LT) activity / data downloading activity, with 5% QC	EA	13000				

Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 12(JTED Jajpur Town)No-1 Jajpur Town,Binjharpur,Dasarathpur				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C )
62	DT Metering	Static / Smart /DT Meter installation along with Meter Box and connection for CT / PT	Installation of DT meters 800/400/200/5A, installation of ring type CT, Meter Box, and associated accessories on LT side of transformers Incl Electrical Power Cable/Control Cable Laying & Termination	EA	800				
63	DT Metering	Static / Smart /DT Meter removal along with Meter Box	Removal of any DT meter from site with De energisation of Meter, Modem and its allied accessories	EA	200				
64	DT Metering	Static / Smart /DT Meter installation along with Meter Box and Complete Electrical connection	Installation of Static / Smart /DT Meter meters, along with Meter Box, Mounting Arrangement Installation and associated accessories on LT side of transformers.	EA	200				
65	DT Metering	Concreting of Prefabricated GI Structure base by Cement, Sand & Chips Grade M40	Supply of Cement, Sand & Chips, digging of hole Labour as per the site requirement	EA	200				
66	DT Metering	GI Nut, bolts & washer \	Supply of GI Nut, bolts & washer as per the site requirement M10 -M20	KG	200				
67	DT Metering	Installation of 1C*95 , 1C X 150, 1C*300, sq mm from Tr. LT side through meters.	Installation of cable from Meter To Source Vice Varsa Upto 6- 40 MTR	EA	200				
68	DT Metering	DT Meter with box Removal - All Rating	Removal of any DT meter from site with de-energisation, Meter, modem and its allied accessories with meter box.	EA	200				
69	DT Metering	Modem Installation	Replacement of faulty modem with healthy modem after opening of meter box by removing seals. Coordination with communication testing desk at back office and after ensuring communication, resealing of meter box.	EA	200				
70	DT Metering	Return Cases - of Modem TS	Return Case of Modem Troubleshooting cases where site visit has been done and modem could not be rectified due to reasons not attributable to BA. The activity include pasting notice , providing photograph of site.	EA	200				
71	DT Metering	Shifting of Meter from Central store to respective Division / Sub division.	Bidder has to provide vehicle and sufficient manpower for shifting of Meters/accessories from Central Store to respective Division / sub division The activity include loading and unloading of material at designated locations/stores. Meter LOT size shall be 100 meters. (Quantity mentioned in number of to and fro trips). Separate rate to be quoted for the distance range 1-50 Km, 51-100 Km, 100-150 Km, 150-200 Km, & above 200 Kms	EA	200				



Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 12(JTED Jajpur Town)No-1 Jajpur Town,Binjharpur,Dasarathpur				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C)
72	DT Metering	Meter & Channel Earthing	Earthing of the meter and meter channel	EA	800				
<b>Total all inclusive Amount for First year (Year -1)</b>					<b>Total Amount For Year 1</b>				.....
<b>Percentage (%) escalation for Second year (Year 2) (The % escalation shall be applicable on unit rate of all service line item for second year)</b>					..... %				
<b>Total all inclusive Amount for Second year (Year -2)</b>					<b>Total Amount For Year 2</b>				.....
<b>Total Overall all inclusive value for Year 1 and Year 2 ( in Rs.)</b>					<b>Rs. ....</b>				
<p>Note -The bids shall be evaluated commercially on the overall lowest cost for each Divison Set <u>for both years</u>. Therefore bidders are advised to quote their best price for year 1 and best % escalation for year 2 as well.</p>									

Abbreviations	
SP	Single Phase
PP	Poly Phase
LT CT	Low Tension Current Transformer Operated Meters
DT Metering	Distribution TRf Metering
HT CT	High Tension Current Transformer Operated Meters
FSC	Field Service Executive
DD	Data Download
MTS	Modem Trouble Shooting
SVR	Survey
BA	Business Associate / Vendor / Bidder

## Annexure-1 (Schedule of Items)

Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 13(KED Kuakhia)Kuakhia,Dharmasala,Bari				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C)
1	SP	Meter Installation - Single Phase	Installation of 1 phase energy meter with / without meter box. Static /BLE /Smart AMI	EA	17000				
2	SP	Installation of 2C*4 sq mm/2*6 sq mm /2 C* 10 SQMM armoured, Cable O/H (Length 7M-30M)	Stringing, sagging of armoured service cable size 2CX 4 sq mm /2Cx6 mm with length between 7m to 30m including installation of saddle, fastener for support and connection at pole /Required to Fix Height rising Channel,Angle With Anchor Fastener ,Nut & Bolts Supply Of Sundry Items Like Anchor Fastener ( M 12 ) and Nut Bolts will Be in BA Scope With in Service Cable Laying Cost ./Required to Fix Height rising Channel ,Angle With Anchor Fastener ,Nut & Bolts Supply Of Sundry Items Like Anchor Fastener ( M 12 ) and Nut Bolts will Be in BA Scope With in Service Cable Laying Cost .	EA	3000				
3	SP	Meter Removal - Single Phase	Removal of single phase meter without service cable.	EA	15000				
4	SP	Service Cable Removal of any size used for Single Ph connections	Removal of service cable of any size used for single Phase connections from pole/ LT Network.	EA	500				
5	SP	SP Meter Box Replacement	Replacement only Meter box WC Meter (1 Ph) & Smart Meter Single Phase	EA	500				
6	SP	SP Meter Shifting ( Without cable replacement)	Shifting of 1 ph Meters from inside to outside of premises ,height meters to 5 to 6 ft range and as per requirement (With out Cable Replacement )	EA	500				
7	SP	SP Meter Shifting ( With cable replacement)	Shifting of 1 ph Meters from inside to outside of premises ,height meters to 5 to 6 ft range and as per requirement (With cable Replacement)	EA	500				
8	PP	Meter Installation - Poly Phase Whole Current	Installation of Poly Phase whole current energy meter with / without meter box BLE/static /Smart AMI	EA	900				
9	PP	Installation of 4C*25 sq mm armoured, Cable O/H (Length 7M-30M)	Stringing, sagging of armoured service cable size 4CX 25 sq mm with length between 7m to 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble.	EA	150				
10	PP	Installation of 4C*6/4C*10 /4C*16 /Controc Cable Laying sq mm armoured, Cable O/H (Length 7M-30M)	Stringing, sagging of armoured service cable size 4CX 10 sq mm with length between 7m to 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble.	EA	75				
11	PP	Meter Removal - Poly Phase Whole Current	Removal of Poly Phase whole current meter with / without meter box.	EA	700				

Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 13(KED Kuakhia)Kuakhia,Dharmasala,Bari				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C)
12	PP	Service Cable Removal of any size used for Poly Phase connections	Removal of service cable of 4C X 10 sq mm(majorly) or any other size used for Poly Phase Whole Current connections from pole/ LT Network.	EA	100				
13	P/PP / LTC	Meter Accuracy test at site with Accucheck	Single Phase /Polyphase/LTCT Meter Testing with Accucheck (Will be provided by TPNODL) to be done.	EA	800				
14	SP/PP	Supply and Installation of wall corner clamp	Supply and Installation of Wall Corner Clamp. Consumables i.e. fastener etc. shall be in the scope of BA	EA	300				
15	SP/PP	Supply and Installation of Stand pipe for maintaining the Sagging.	Supply and Installation of Stand pipe for maintaining the Sagging. (LT GI Pipe for Service Line Support as per REC / TPNODL standard)	EA	2800				
16	SP/PP	Bus bar Installation	Installation of any type of bus bar box ( 2 Way & 4 Way etc ) on wall / Pole along with supply of fasteners, steel strap and buckles. (Fastener / Steel strap shall be supplied by BA)	EA	100				
17	SP/PP	Prefabricated GI Structure (Supply Item) / kg	Supply & Installation of Prefabricated / GI structural angle/ channel / flats of different sizes, as per the site requirement	Kg	500				
18	SP/PP	Installation of Bracket Angle/ service anchor/ suspension clamp/ slotted angle	Installation of GI Bracket for Anchoring service cable of size 50, 95 & 150 sqmm / Installation of Service Cable Anchor / Installation of Slotted angle on pole in case of 2x10/4x10/4x25 cable lying, on uncleaned poles. (Number of items used at one site shall be considered for billing).	EA	1000				
19	SP/PP	Loop Connection for service cable size 2C X 4 sq mm/ 2C X 10 sq mm/ 4C X 10 sq mm/ 4C X 25 sq mm with length ≤ 6 M	Stringing of loop connection ( length ≤ 6 meter ) for service cable size 2C X 4 sq mm/ 2C X 10 sq mm/ 4C X 10 sq mm/ 4C X 25 sq mm.	EA	100				
20	PP/DT	Distribution box/ Busbar work	Bus bar/Distribution Box Installation: Installation of any type of bus bar box on wall / Pole along with supply of fasteners, steel strap and buckles. (Fastener / Steel strap shall be supplied by BA)	EA	600				
21	PP/DT	Distribution box/ Busbar work	Bus bar/Distribution Box Removal	EA	600				
22	PP/DT	Meter Box Replacement	Replacement only Meter box WC Meter (3 Ph)	EA	600				
23	PP/DT	Meter Box Replacement	Replacement only Meter box LTCT Meter	EA	600				
24	PP/DT	Meter shifting work	Shifting of 3 ph WC Meters from inside to outside of premises ,height meters to 5 to 6 ft range and as per requirement.	EA	600				
25	PP/DT	Transportation	Hiring of Crane for Cubical and other related work (Rate/Hr)	EA	10				

Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 13(KED Kuakhia)Kuakhia,Dharmasala,Bari				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C)
26	LTCT	Static / Smart installation along with Meter Box and connection for CT / PT	Installation of Static / Smart meters along with ring type CT, Meter Box, and associated accessories on LT side of transformers.	EA	10				
27	LTCT	Installation of 4C*95 / 4C X 150 sq mm armoured service cable, O/H (Length up to 30M)	Stringing, sagging of armoured service cable size 4CX 95 sq mm / 4C X 150 sq mm with length upto 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble. (Saddles and Fastners are to be supplied by BA)	EA	25				
28	LTCT	Installation of LTCT Meter with Resign cast CT box (For 100/5 Amps & 200/5 Amps)	Installation, energisation along with communication of new LTCT meters with resin cast CT box and allied accessories. The activity includes supply of 8 Nos of lugs and its crimping on Service cable and connections, Complete grouting of meter box, Communication check of meter with back end server. Earthing also needs to be extended using armour of cable from pole to inside the meter box using suitable size of lugs. (These lugs will also be in scope of supply of BA.)	EA	50				
29	LTCT	Meter Replacement - LTCT Meter Only without box replacement.	Replacement of LTCT meter/ LTCT Smart meter of any rating i.e. 100/5A or 200/5A or 400/5A without box	EA	25				
30	LTCT	Fault rectification in CT Meter pertaining to termination/LT Cable dressing.	Fault rectification includes termination (thimble / socket crimping, gland change, cable lead extension crimping and tightening) and cable dressing.	EA	25				
31	LTCT	LTCT Meter with box Removal - All Rating	Removal of any LTCT meter from site with de-energisation, Meter, modem and its allied accessories with meter box.	EA	25				
32	HT	Meter Accuracy test at site (HTCT)--	HTCT Meter Testing to be done at site. Testing kit will be provided by TPNODL.	EA	50				
33	HT	CTPT / Metering cubicle Installation	Installation of new HT 11 KV Metering cubicle / CTPT unit. The activity includes to & fro transportation, commissioning, energisation of unit in all respect (i.e. connections of CTPT / Metering cubicle , fixing of complete Unit, necessary masonry work, grouting, Cable terminations, control cable connections, socket/thimble crimp , earthing connections, vermin proofing if any) . Note : Loading, Unloading, Installation of CT PT unit, Metering Cubicle at store, site through crane will be included in this cost.	EA	10				

Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 13(KED Kuakhia)Kuakhia,Dharmasala,Bari				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C)
34	HT	Pole mounted CTPT Installation	Installation of new HT 11 KV out door Metering CTPT unit, includes to & fro transportation, commissioning and energisation in all respect (i.e. connection in meter box from CTPT terminal block through control cable, pole mount CTPT unit erected at 30' height. Fix and Bolt CTPT unit, stand pipe flange, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CTPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door).	EA	30				
35	HT	Meter Installation - HT Meter Only--	Installation of any HT energy meter along with modem and its termination in Metering cubicle / CTPT unit. This will include removal of existing energy meter if installed. HT team will take care of metering activities of falling under the geographical area of Circle. This rate will include travelling up to an average of 50 KM / case/ month (including to and fro). Any travel beyond an avg. of 50 KM / cases / Month will be paid in the lot of 50 KM basis over and above the rates quoted per activity. BA to quote rate for additional travel / 50 KM during any month.	EA	40				
36	HT	Replacement of only HT meter chamber at PMSS OR Replacement / Shifting of control cable pipe with meter chamber for CTPT unit--circlewise	Replacement of HT Metering chamber of HT 11 KV out door Metering CTPT unit, replacement of control cable pipe , energy meter and allied accessories include to & fro transportation, commissioning and energisation in all respect (i.e. reconnection in meter box from CTPT terminal block through control cable, stand pipe flange replacement, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CTPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door). Note : Loading, Unloading, Installation of CT PT unit, Metering Cubicle at store, site through crane will be included in this cost.	EA	20				
37	HT	CTPT / Metering cubicle Removal	Dismantling of complete HT CTPT / Metering Cubicle unit which includes to & fro transportation, complete removal and de-energisation in all respect (i.e. disconnection in all respect, removal of control cable, ends termination removal and all accessories removal) Note : Loading, Unloading, Installation of CT PT unit, Metering Cubicle at store, site through crane will be included in this cost.	EA	10				

Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 13(KED Kuakhia)Kuakhia,Dharmasala,Bari				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C)
38	HT	Travel in HT Meter Installation - (Travel charges in lot of 50 KM)	Rate for travel of HT Vehicle for additional travel in lot of 50 KM (over and above which is covered in Sr. No 27 / 28 /29 /30 ) for a month. Rate for 50 KM additional mileage after rounding off to be charged. If more than one activitiy is performed at one site at a time, then this cost to be charged against only one activity.	Lot size of 50 KM each	30				
39	HT	Pole mounted CTPT Removal	Dismantling of complete HT metering out door CTPT unit, includes to & fro transportation, removing and de-energisation in all respect (i.e. connection from meter box from CTPT terminal block through control cable, pole mount CTPT unit erected at 30' height. Fix and Bolt CTPT unit, stand pipe flange, two earth connections, HT cable ends termination removal, socket/ thimble crimp, stand pipe flanges removal, meter terminal cover, window and chamber door removal from site).	EA	10				
40	HT	CTPT / Metering cubicle Installation	Installation of new HT 33 KV Metering cubicle / CTPT unit. The activity includes to & fro transportation, commissioning, energisation of unit in all respect (i.e. connections of CTPT / Metering cubicle , fixing of complete Unit, necessary masonry work, grouting, Cable terminations, control cable connections, socket/thimble crimp , earthing connections, vermin proofing if any) . Note : Loading, Unloading, Installation of CT PT unit, Metering Cubicle at store, site through crane will be included in this cost.	EA	30				
41	HT	Pole mounted CTPT Installation	Installation of new HT 33 KV out door Metering CTPT unit, includes to & fro transportation, commissioning and energisation in all respect (i.e. connection in meter box from CTPT terminal block through control cable, pole mount CTPT unit erected at 30' height. Fix and Bolt CTPT unit, stand pipe flange, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CTPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door).	EA	30				

Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 13(KED Kuakhia)Kuakhia,Dharmasala,Bari				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C)
42	HT	Replacement of only HT meter chamber at PMSS OR Replacement / Shifting of control cable pipe with meter chamber for CTPT unit--circlewise	Replacement of HT Metering chamber of HT 33 KV out door Metering CTPT unit, replacement of control cable pipe , energy meter and allied accessories include to & fro transportation, commissioning and energisation in all respect (i.e. reconnection in meter box from CTPT terminal block through control cable, stand pipe flange replacement, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CTPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door). Note : Loading, Unloading, Installation of CT PT unit, Metering Cubicle at store, site through crane will be included in this cost.	EA	3				
43	HT	Pole mounted CTPT Removal	Dismantling of complete 33 KV HT metering out door CTPT unit, includes to & fro transportation, removing and de-energisation in all respect (i.e. connection from meter box from CTPT terminal block through control cable, pole mount CTPT unit erected at 30' height. Fix and Bolt CTPT unit, stand pipe flange, two earth connections, HT cable ends termination removal, socket/ thimble crimp, stand pipe flanges removal, meter terminal cover, window and chamber door removal from site).	EA	10				
44	HT/DT	DP Structure Related	Supply and Installation of 11KV complete DP Structure 9Mtr including pressure channel, MU mounting channel, Angle, Stay set, GI pipe, Complete Concreting, Base plating, etc. including supply of material & transportation (Supply of Pole Excluded).	EA	10				
45	HT/DT	DP Structure Related	Replacement of 11KV complete DP Structure 9Mtr including pressure channel, MU mounting channel, Angle, Stay set, GI pipe, Complete Concreting, Base plating, etc. including supply of material & transportation,	EA	10				
46	HT/DT	DP Structure Related	Removal of 11KV complete DP Structure 9Mtr including pressure channel, MU mounting channel, Angle, Stay set, GI pipe, Complete Concreting, Base plating, etc. including transportation.	EA	10				
47	HT/DT	DP Structure Related	Supply and Installation of 33KV complete DP Structure 9Mtr including pressure channel, MU mounting channel, Angle, Stay set, GI pipe, Complete Concreting, Base plating, earthing etc. including supply of material & transportation (Supply of Pole Excluded).	EA	10				
48	HT/DT	DP Structure Related	Replacement of 33KV complete DP Structure 9Mtr including pressure channel, MU mounting channel, Angle, Stay set, GI pipe, Complete Concreting, Base plating, earthing, etc. including supply of material & transportation.	EA	10				

Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 13(KED Kuakhia)Kuakhia,Dharmasala,Bari				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C)
49	HT/DT	DP Structure Related	Removal of 33KV complete DP Structure 9Mtr including pressure channel, MU mounting channel, Angle, Stay set, GI pipe, Complete Concreting, Base plating, earthing, etc. including transportation	EA	10				
50	FSE	FSE- New Connection	Site verification of new connection with capturing of details as mentioned in site verification form and capturing photographs. Further submission of SVR and file at respective division office.	EA	1000				
51	FSE	FSE - Attribute Change	Site verification Attribute case with capturing of details as mentioned in Attribute Change form and capturing photographs. Further submission of SVR and file at respective division office.	EA	1000				
52	FSE	FSE - SVR Dues/Meter Reading cross check.	Site verification for confirmation of dues with capturing of details as mentioned in dues verification form and capturing photographs. Further submission of SVR and file at respective division office.	EA	600				
53	DD	Data Downloading from Meter (Single Phase )	Data downloading of Meter data after opening of meter box seals and thereafter resealing it. Including DT Meter Reading	EA	600				
54	DD	Data Downloading from Meter (Three Phase/Poly Phase /DT Metering )	Data downloading of Meter data after opening of meter box seals and thereafter resealing it. Including DT Meter Reading	EA	12192				
55	DD	Manul Meter Reading and SVR (Three Phase /Poly Phase/DT Metering)	Taking manual reading parameters from meter display, providing remarks with photographs where data can not be downloaded for reason not attributable to BA, Prepare SVR Against OK Meter in site but Faulty Meter recorded in TPNODL Ledger	EA	3048				
56	MTS	Modem Trouble Shooting activity/Smart Meter Nickcard Replacement & Trouble Shooting	Replacement of faulty modem with healthy modem/Smart Meter Nick card after opening of meter box by removing seals. Coordination with communication testing desk at back office and after ensuring communication, repealing of meter box.	EA	350				
57	MTS	Return Cases - of Modem TS	Return Case of Modem Troubleshooting cases where site visit has been done and modem could not be rectified due to reasons not attributable to BA. The activity include pasting notice , providing photograph of site.	EA	50				
58	SP	Return Cases - SP meter installation	Return Case of New connection and meter replacement cases where site visit has been done and meter could not be installed due to reasons not attributable to BA. The activity include pasting notice, providing photograph of site / meter, Reading and other details of meter. Address not traceable cases will not be included .	EA	1600				



Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 13(KED Kuakhia)Kuakhia,Dharmasala,Bari				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C)
59	SP	Shifting of Meters (New / old) from Central store to site store or Site store to Central store. (Bidder has to provide vehicle and sufficient manpower for shifting of Meters/Meter Boxes /accessories from Central Store to respective Division / sub division. The activity include loading and unloading of material at designated locations/stores. Meter LOT size shall be 1000 meters For New Meter 2000 Meter for Scarp Old Meter . Otherthen Define lot Rate will be provided in prorate Basis.	Up to 50 Km						
			Up to 100 Km		10				
			Up to 150 Km		10				
			Up to 200 Km		10				
			Above 200 Km	EA	10				
60	SP	Shifting of Cable from Central store to site store or Site store to Central store. Bidder has to provide vehicle and sufficient manpower for shifting of cable . The activity include loading and unloading of material at designated locations/stores. LOT size shall be 6Km for 2*4 sqmm/2*6 MM cable/ any 2 core cable.Otherthen Define lot Rate will be provided in prorate Basis.	Up to 50 Km						
			Up to 100 Km		10				
			Up to 150 Km		10				
			Up to 200 Km		10				
			Above 200 Km	EA	10				
61	Protocol Punching	Punching of Protocols for field activities Prtal entry In Prtal Or Installation Data Capatauring IN MY MMG Mobile Application	Bidder has to punch protocol or Installation Details capturing In MY MMG Mobile APP for Meter installation (Both Single Phase and Three Phase activity/Modem Installation / rectification / Meter Testing (HT and LT) activity / data downloading activity, with 5% QC	EA	18000				

Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 13(KED Kuakhia)Kuakhia,Dharmasala,Bari				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C)
62	DT Metering	Static / Smart /DT Meter installation along with Meter Box and connection for CT / PT	Installation of DT meters 800/400/200/5A, installation of ring type CT, Meter Box, and associated accessories on LT side of transformers Incl Electrical Power Cable/Control Cable Laying & Termination	EA	800				
63	DT Metering	Static / Smart /DT Meter removal along with Meter Box	Removal of any DT meter from site with De energisation of Meter, Modem and its allied accessories	EA	200				
64	DT Metering	Static / Smart /DT Meter installation along with Meter Box and Complete Electrical connection	Installation of Static / Smart /DT Meter meters, along with Meter Box, Mounting Arrangement Installation and associated accessories on LT side of transformers.	EA	200				
65	DT Metering	Concreting of Prefabricated GI Structure base by Cement, Sand & Chips Grade M40	Supply of Cement, Sand & Chips, digging of hole Labour as per the site requirement	EA	200				
66	DT Metering	GI Nut, bolts & washer \	Supply of GI Nut, bolts & washer as per the site requirement M10 -M20	KG	200				
67	DT Metering	Installation of 1C*95 , 1C X 150, 1C*300, sq mm from Tr. LT side through meters.	Installation of cable from Meter To Source Vice Varsa Upto 6- 40 MTR	EA	200				
68	DT Metering	DT Meter with box Removal - All Rating	Removal of any DT meter from site with de-energisation, Meter, modem and its allied accessories with meter box.	EA	200				
69	DT Metering	Modem Installation	Replacement of faulty modem with healthy modem after opening of meter box by removing seals. Coordination with communication testing desk at back office and after ensuring communication, resealing of meter box.	EA	200				
70	DT Metering	Return Cases - of Modem TS	Return Case of Modem Troubleshooting cases where site visit has been done and modem could not be rectified due to reasons not attributable to BA. The activity include pasting notice , providing photograph of site.	EA	200				
71	DT Metering	Shifting of Meter from Central store to respective Division / Sub division.	Bidder has to provide vehicle and sufficient manpower for shifting of Meters/accessories from Central Store to respective Division / sub division The activity include loading and unloading of material at designated locations/stores. Meter LOT size shall be 100 meters. (Quantity mentioned in number of to and fro trips). Separate rate to be quoted for the distance range 1-50 Km, 51-100 Km, 100-150 Km, 150-200 Km, & above 200 Kms	EA	200				

Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 13(KED Kuakhia)Kuakhia,Dharmasala,Bari				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C)
72	DT Metering	Meter & Channel Earthing	Earthing of the meter and meter channel	EA	800				
<b>Total all inclusive Amount for First year (Year -1)</b>					<b>Total Amount For Year 1</b>				.....
<b>Percentage (%) escalation for Second year (Year 2)</b> <b>(The % escalation shall be applicable on unit rate of all service line item for second year)</b>					..... %				
<b>Total all inclusive Amount for Second year (Year -2)</b>					<b>Total Amount For Year 2</b>				.....
<b>Total Overall all inclusive value for Year 1 and Year 2 ( in Rs.)</b>					<b>Rs. ....</b>				
<p>Note -The bids shall be evaluated commercially on the overall lowest cost for each Divison Set <u>for both years</u>. Therefore bidders are advised to quote their best price for year 1 and best % escalation for year 2 as well.</p>									

Abbreviations	
SP	Single Phase
PP	Poly Phase
LT CT	Low Tension Current Transformer Operated Meters
DT Metering	Distribution TRf Metering
HT CT	High Tension Current Transformer Operated Meters
FSC	Field Service Executive
DD	Data Download
MTS	Modem Trouble Shooting
SVR	Survey
BA	Business Associate / Vendor / Bidder

## Annexure-1 (Schedule of Items)

Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 14(KED Keonjhar)Keonjhar No-1,Keonjhar No-2,Turumunga				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C )
1	SP	Meter Installation - Single Phase	Installation of 1 phase energy meter with / without meter box. Static /BLE /Smart AMI	EA	20500				
2	SP	Installation of 2C*4 sq mm/2*6 sq mm /2 C* 10 SQMM armoured, Cable O/H (Length 7M-30M)	Stringing, sagging of armoured service cable size 2CX 4 sq mm /2Cx6 mm with length between 7m to 30m including installation of saddle, fastener for support and connection at pole /Required to Fix Height rising Channel,Angle With Anchor Fastener ,Nut & Bolts Supply Of Sundry Items Like Anchor Fastener ( M 12 ) and Nut Bolts will Be in BA Scope With in Service Cable Laying Cost ./Required to Fix Height rising Channel ,Angle With Anchor Fastener ,Nut & Bolts Supply Of Sundry Items Like Anchor Fastener ( M 12 ) and Nut Bolts will Be in BA Scope With in Service Cable Laying Cost .	EA	3000				
3	SP	Meter Removal - Single Phase	Removal of single phase meter without service cable.	EA	18000				
4	SP	Service Cable Removal of any size used for Single Ph connections	Removal of service cable of any size used for single Phase connections from pole/ LT Network.	EA	500				
5	SP	SP Meter Box Replacement	Replacement only Meter box WC Meter (1 Ph) & Smart Meter Single Phase	EA	500				
6	SP	SP Meter Shifting ( Without cable replacement)	Shifting of 1 ph Meters from inside to outside of premises ,height meters to 5 to 6 ft range and as per requirement (With out Cable Replacement )	EA	500				
7	SP	SP Meter Shifting ( With cable replacement)	Shifting of 1 ph Meters from inside to outside of premises ,height meters to 5 to 6 ft range and as per requirement (With cable Replacement)	EA	500				
8	PP	Meter Installation - Poly Phase Whole Current	Installation of Poly Phase whole current energy meter with / without meter box BLE/static /Smart AMI	EA	900				
9	PP	Installation of 4C*25 sq mm armoured, Cable O/H (Length 7M-30M)	Stringing, sagging of armoured service cable size 4CX 25 sq mm with length between 7m to 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble.	EA	150				
10	PP	Installation of 4C*6/4C*10 /4C*16 /Controc Cable Laying sq mm armoured, Cable O/H (Length 7M-30M)	Stringing, sagging of armoured service cable size 4CX 10 sq mm with length between 7m to 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble.	EA	75				
11	PP	Meter Removal - Poly Phase Whole Current	Removal of Poly Phase whole current meter with / without meter box.	EA	700				

Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 14(KED Keonjhar)Keonjhar No-1,Keonjhar No-2,Turumunga				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C )
12	PP	Service Cable Removal of any size used for Poly Phase connections	Removal of service cable of 4C X 10 sq mm(majorly) or any other size used for Poly Phase Whole Current connections from pole/ LT Network.	EA	100				
13	P/PP / LTC	Meter Accuracy test at site with Accucheck	Single Phase /Polyphase/LTCT Meter Testing with Accucheck (Will be provided by TPNODL) to be done.	EA	800				
14	SP/PP	Supply and Installation of wall corner clamp	Supply and Installation of Wall Corner Clamp. Consumables i.e. fastener etc. shall be in the scope of BA	EA	300				
15	SP/PP	Supply and Installation of Stand pipe for maintaining the Sagging.	Supply and Installation of Stand pipe for maintaining the Sagging. (LT GI Pipe for Service Line Support as per REC / TPNODL standard)	EA	2800				
16	SP/PP	Bus bar Installation	Installation of any type of bus bar box ( 2 Way & 4 Way etc ) on wall / Pole along with supply of fasteners, steel strap and buckles. (Fastener / Steel strap shall be supplied by BA)	EA	100				
17	SP/PP	Prefabricated GI Structure (Supply Item) / kg	Supply & Installation of Prefabricated / GI structural angle/ channel / flats of different sizes, as per the site requirement	Kg	500				
18	SP/PP	Installation of Bracket Angle/ service anchor/ suspension clamp/ slotted angle	Installation of GI Bracket for Anchoring service cable of size 50, 95 & 150 sqmm / Installation of Service Cable Anchor / Installation of Slotted angle on pole in case of 2x10/4x10/4x25 cable lying, on uncleaned poles. (Number of items used at one site shall be considered for billing).	EA	1000				
19	SP/PP	Loop Connection for service cable size 2C X 4 sq mm/ 2C X 10 sq mm/ 4C X 10 sq mm/ 4C X 25 sq mm with length ≤ 6 M	Stringing of loop connection ( length ≤ 6 meter ) for service cable size 2C X 4 sq mm/ 2C X 10 sq mm/ 4C X 10 sq mm/ 4C X 25 sq mm.	EA	100				
20	PP/DT	Distribution box/ Busbar work	Bus bar/Distribution Box Installation: Installation of any type of bus bar box on wall / Pole along with supply of fasteners, steel strap and buckles. (Fastener / Steel strap shall be supplied by BA)	EA	500				
21	PP/DT	Distribution box/ Busbar work	Bus bar/Distribution Box Removal	EA	500				
22	PP/DT	Meter Box Replacement	Replacement only Meter box WC Meter (3 Ph)	EA	500				
23	PP/DT	Meter Box Replacement	Replacement only Meter box LTCT Meter	EA	500				
24	PP/DT	Meter shifting work	Shifting of 3 ph WC Meters from inside to outside of premises ,height meters to 5 to 6 ft range and as per requirement.	EA	500				
25	PP/DT	Transportation	Hiring of Crane for Cubical and other related work (Rate/Hr)	EA	10				

Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 14(KED Keonjhar)Keonjhar No-1,Keonjhar No-2,Turumunga				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C)
26	LTCT	Static / Smart installation along with Meter Box and connection for CT / PT	Installation of Static / Smart meters along with ring type CT, Meter Box, and associated accessories on LT side of transformers.	EA	10				
27	LTCT	Installation of 4C*95 / 4C X 150 sq mm armoured service cable, O/H (Length up to 30M)	Stringing, sagging of armoured service cable size 4CX 95 sq mm / 4C X 150 sq mm with length upto 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble. (Saddles and Fastners are to be supplied by BA)	EA	25				
28	LTCT	Installation of LTCT Meter with Resign cast CT box (For 100/5 Amps & 200/5 Amps)	Installation, energisation along with communication of new LTCT meters with resin cast CT box and allied accessories. The activity includes supply of 8 Nos of lugs and its crimping on Service cable and connections, Complete grouting of meter box, Communication check of meter with back end server. Earthing also needs to be extended using armour of cable from pole to inside the meter box using suitable size of lugs. (These lugs will also be in scope of supply of BA.)	EA	50				
29	LTCT	Meter Replacement - LTCT Meter Only without box replacement.	Replacement of LTCT meter/ LTCT Smart meter of any rating i.e. 100/5A or 200/5A or 400/5A without box	EA	25				
30	LTCT	Fault rectification in CT Meter pertaining to termination/LT Cable dressing.	Fault rectification includes termination (thimble / socket crimping, gland change, cable lead extension crimping and tightening) and cable dressing.	EA	25				
31	LTCT	LTCT Meter with box Removal - All Rating	Removal of any LTCT meter from site with de-energisation, Meter, modem and its allied accessories with meter box.	EA	25				
32	HT	Meter Accuracy test at site (HTCT)--	HTCT Meter Testing to be done at site. Testing kit will be provided by TPNODL.	EA	50				
33	HT	CTPT / Metering cubicle Installation	Installation of new HT 11 KV Metering cubicle / CTPT unit. The activity includes to & fro transportation, commissioning, energisation of unit in all respect (i.e. connections of CTPT / Metering cubicle , fixing of complete Unit, necessary masonry work, grouting, Cable terminations, control cable connections, socket/thimble crimp , earthing connections, vermin proofing if any) . Note : Loading, Unloading, Installation of CT PT unit, Metering Cubicle at store, site through crane will be included in this cost.	EA	50				

Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 14(KED Keonjhar)Keonjhar No-1,Keonjhar No-2,Turumunga				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C)
34	HT	Pole mounted CTPT Installation	Installation of new HT 11 KV out door Metering CTPT unit, includes to & fro transportation, commissioning and energisation in all respect (i.e. connection in meter box from CTPT terminal block through control cable, pole mount CTPT unit erected at 30' height. Fix and Bolt CTPT unit, stand pipe flange, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CTPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door).	EA	30				
35	HT	Meter Installation - HT Meter Only--	Installation of any HT energy meter along with modem and its termination in Metering cubicle / CTPT unit. This will include removal of existing energy meter if installed. HT team will take care of metering activities of falling under the geographical area of Circle. This rate will include travelling up to an average of 50 KM / case/ month (including to and fro). Any travel beyond an avg. of 50 KM / cases / Month will be paid in the lot of 50 KM basis over and above the rates quoted per activity. BA to quote rate for additional travel / 50 KM during any month.	EA	40				
36	HT	Replacement of only HT meter chamber at PMSS OR Replacement / Shifitng of control cable pipe with meter chamber for CTPT unit--circlewise	Replacement of HT Metering chamber of HT 11 KV out door Metering CTPT unit, replacement of control cable pipe , energy meter and allied accessories include to & fro transportation, commissioning and energisation in all respect (i.e. reconnection in meter box from CTPT terminal block through control cable, stand pipe flange replacement, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CTPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door). Note : Loading, Unloading, Installation of CT PT unit, Metering Cubicle at store, site through crane will be included in this cost.	EA	20				
37	HT	CTPT / Metering cubicle Removal	Dismantling of complete HT CTPT / Metering Cubicle unit which includes to & fro transportation, complete removal and de-energisation in all respect (i.e. disconnection in all respect, removal of control cable, ends termination removal and all accessories removal) Note : Loading, Unloading, Installation of CT PT unit, Metering Cubicle at store, site through crane will be included in this cost.	EA	10				

Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 14(KED Keonjhar)Keonjhar No-1,Keonjhar No-2,Turumunga				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C)
38	HT	Travel in HT Meter Installation - (Travel charges in lot of 50 KM)	Rate for travel of HT Vehicle for additional travel in lot of 50 KM (over and above which is covered in Sr. No 27 / 28 /29 /30 ) for a month. Rate for 50 KM additional mileage after rounding off to be charged. If more than one activity is performed at one site at a time, then this cost to be charged against only one activity.	Lot size of 50 KM each	30				
39	HT	Pole mounted CTPT Removal	Dismantling of complete HT metering out door CTPT unit, includes to & fro transportation, removing and de-energisation in all respect (i.e. connection from meter box from CTPT terminal block through control cable, pole mount CTPT unit erected at 30' height. Fix and Bolt CTPT unit, stand pipe flange, two earth connections, HT cable ends termination removal, socket/ thimble crimp, stand pipe flanges removal, meter terminal cover, window and chamber door removal from site).	EA	10				
40	HT	CTPT / Metering cubicle Installation	Installation of new HT 33 KV Metering cubicle / CTPT unit. The activity includes to & fro transportation, commissioning, energisation of unit in all respect (i.e. connections of CTPT / Metering cubicle , fixing of complete Unit, necessary masonry work, grouting, Cable terminations, control cable connections, socket/thimble crimp , earthing connections, vermin proofing if any) . Note : Loading, Unloading, Installation of CT PT unit, Metering Cubicle at store, site through crane will be included in this cost.	EA	30				
41	HT	Pole mounted CTPT Installation	Installation of new HT 33 KV out door Metering CTPT unit, includes to & fro transportation, commissioning and energisation in all respect (i.e. connection in meter box from CTPT terminal block through control cable, pole mount CTPT unit erected at 30' height. Fix and Bolt CTPT unit, stand pipe flange, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CTPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door).	EA	30				



Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 14(KED Keonjhar)Keonjhar No-1,Keonjhar No-2,Turumunga				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C )
42	HT	Replacement of only HT meter chamber at PMSS OR Replacement / Shifting of control cable pipe with meter chamber for CTPT unit--circlewise	Replacement of HT Metering chamber of HT 33 KV out door Metering CTPT unit, replacement of control cable pipe , energy meter and allied accessories include to & fro transportation, commissioning and energisation in all respect (i.e. reconnection in meter box from CTPT terminal block through control cable, stand pipe flange replacement, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CTPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door). Note : Loading, Unloading, Installation of CT PT unit, Metering Cubicle at store, site through crane will be included in this cost.	EA	20				
43	HT	Pole mounted CTPT Removal	Dismantling of complete 33 KV HT metering out door CTPT unit, includes to & fro transportation, removing and de-energisation in all respect (i.e. connection from meter box from CTPT terminal block through control cable, pole mount CTPT unit erected at 30' height. Fix and Bolt CTPT unit, stand pipe flange, two earth connections, HT cable ends termination removal, socket/ thimble crimp, stand pipe flanges removal, meter terminal cover, window and chamber door removal from site).	EA	10				
44	HT/DT	DP Structure Related	Supply and Installation of 11KV complete DP Structure 9Mtr including pressure channel, MU mounting channel, Angle, Stay set, GI pipe, Complete Concreting, Base plating, etc. including supply of material & transportation (Supply of Pole Excluded).	EA	10				
45	HT/DT	DP Structure Related	Replacement of 11KV complete DP Structure 9Mtr including pressure channel, MU mounting channel, Angle, Stay set, GI pipe, Complete Concreting, Base plating, etc. including supply of material & transportation,	EA	10				
46	HT/DT	DP Structure Related	Removal of 11KV complete DP Structure 9Mtr including pressure channel, MU mounting channel, Angle, Stay set, GI pipe, Complete Concreting, Base plating, etc. including transportation.	EA	10				
47	HT/DT	DP Structure Related	Supply and Installation of 33KV complete DP Structure 9Mtr including pressure channel, MU mounting channel, Angle, Stay set, GI pipe, Complete Concreting, Base plating, earthing etc. including supply of material & transportation (Supply of Pole Excluded).	EA	10				
48	HT/DT	DP Structure Related	Replacement of 33KV complete DP Structure 9Mtr including pressure channel, MU mounting channel, Angle, Stay set, GI pipe, Complete Concreting, Base plating, earthing, etc. including supply of material & transportation.	EA	10				

Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 14(KED Keonjhar)Keonjhar No-1,Keonjhar No-2,Turumunga				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C )
49	HT/DT	DP Structure Related	Removal of 33KV complete DP Structure 9Mtr including pressure channel, MU mounting channel, Angle, Stay set, GI pipe, Complete Concreting, Base plating, earthing, etc. including transportation	EA	10				
50	FSE	FSE- New Connection	Site verification of new connection with capturing of details as mentioned in site verification form and capturing photographs. Further submission of SVR and file at respective division office.	EA	1000				
51	FSE	FSE - Attribute Change	Site verification Attribute case with capturing of details as mentioned in Attribute Change form and capturing photographs. Further submission of SVR and file at respective division office.	EA	1000				
52	FSE	FSE - SVR Dues/Meter Reading cross check.	Site verification for confirmation of dues with capturing of details as mentioned in dues verification form and capturing photographs. Further submission of SVR and file at respective division office.	EA	500				
53	DD	Data Downloading from Meter (Single Phase )	Data downloading of Meter data after opening of meter box seals and thereafter resealing it. Including DT Meter Reading	EA	500				
54	DD	Data Downloading from Meter (Three Phase/Poly Phase /DT Metering )	Data downloading of Meter data after opening of meter box seals and thereafter resealing it. Including DT Meter Reading	EA	17290				
55	DD	Manul Meter Reading and SVR (Three Phase /Poly Phase/DT Metering)	Taking manual reading parameters from meter display, providing remarks with photographs where data can not be downloaded for reason not attributable to BA, Prepare SVR Against OK Meter in site but Faulty Meter recorded in TPNODL Ledger	EA	4323				
56	MTS	Modem Trouble Shooting activity/Smart Meter Nickcard Replacement & Trouble Shooting	Replacement of faulty modem with healthy modem/Smart Meter Nick card after opening of meter box by removing seals. Coordination with communication testing desk at back office and after ensuring communication, repealing of meter box.	EA	350				
57	MTS	Return Cases - of Modem TS	Return Case of Modem Troubleshooting cases where site visit has been done and modem could not be rectified due to reasons not attributable to BA. The activity include pasting notice , providing photograph of site.	EA	50				
58	SP	Return Cases - SP meter installation	Return Case of New connection and meter replacement cases where site visit has been done and meter could not be installed due to reasons not attributable to BA. The activity include pasting notice, providing photograph of site / meter, Reading and other details of meter. Address not traceable cases will not be included .	EA	1150	0	0	0	0

Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 14(KED Keonjhar)Keonjhar No-1,Keonjhar No-2,Turumunga				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C)
59	SP	Shifting of Meters (New / old) from Central store to site store or Site store to Central store. (Bidder has to provide vehicle and sufficient manpower for shifting of Meters/Meter Boxes /accessories from Central Store to respective Division / sub division. The activity include loading and unloading of material at designated locations/stores. Meter LOT size shall be 1000 meters For New Meter 2000 Meter for Scarp Old Meter . Otherthen Define lot Rate will be provided in prorate Basis.	Up to 50 Km						
			Up to 100 Km						
			Up to 150 Km						
			Up to 200 Km		10				
			Above 200 Km	EA	10				
60	SP	Shifting of Cable from Central store to site store or Site store to Central store. Bidder has to provide vehicle and sufficient manpower for shifting of cable . The activity include loading and unloading of material at designated locations/stores. LOT size shall be 6Km for 2*4 sqmm/2*6 MM cable/ any 2 core cable.Otherthen Define lot Rate will be provided in prorate Basis.	Up to 50 Km						
			Up to 100 Km						
			Up to 150 Km						
			Up to 200 Km		10				
			Above 200 Km	EA	10				
61	Protocol Punching	Punching of Protocols for field activities Protal entry In Protal Or Installation Data Capatauring IN MY MMG Mobile Application	Bidder has to punch protocol or Installation Details capturing In MY MMG Mobile APP for Meter installation (Both Single Phase and Three Phase activity/Modem Installation / rectification / Meter Testing (HT and LT) activity / data downloading activity, with 5% QC	EA	21500				

Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 14(KED Keonjhar)Keonjhar No-1,Keonjhar No-2,Turumunga				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C )
62	DT Metering	Static / Smart /DT Meter installation along with Meter Box and connection for CT / PT	Installation of DT meters 800/400/200/5A, installation of ring type CT, Meter Box, and associated accessories on LT side of transformers Incl Electrical Power Cable/Control Cable Laying & Termination	EA	800				
63	DT Metering	Static / Smart /DT Meter removal along with Meter Box	Removal of any DT meter from site with De energisation of Meter, Modem and its allied accessories	EA	200				
64	DT Metering	Static / Smart /DT Meter installation along with Meter Box and Complete Electrical connection	Installation of Static / Smart /DT Meter meters, along with Meter Box, Mounting Arrangement Installation and associated accessories on LT side of transformers.	EA	200				
65	DT Metering	Concreting of Prefabricated GI Structure base by Cement, Sand & Chips Grade M40	Supply of Cement, Sand & Chips, digging of hole Labour as per the site requirement	EA	200				
66	DT Metering	GI Nut, bolts & washer \	Supply of GI Nut, bolts & washer as per the site requirement M10 -M20	KG	200				
67	DT Metering	Installation of 1C*95 , 1C X 150, 1C*300, sq mm from Tr. LT side through meters.	Installation of cable from Meter To Source Vice Varsa Upto 6- 40 MTR	EA	200				
68	DT Metering	DT Meter with box Removal - All Rating	Removal of any DT meter from site with de-energisation, Meter, modem and its allied accessories with meter box.	EA	200				
69	DT Metering	Modem Installation	Replacement of faulty modem with healthy modem after opening of meter box by removing seals. Coordination with communication testing desk at back office and after ensuring communication, resealing of meter box.	EA	200				
70	DT Metering	Return Cases - of Modem TS	Return Case of Modem Troubleshooting cases where site visit has been done and modem could not be rectified due to reasons not attributable to BA. The activity include pasting notice , providing photograph of site.	EA	200				
71	DT Metering	Shifting of Meter from Central store to respective Division / Sub division.	Bidder has to provide vehicle and sufficient manpower for shifting of Meters/accessories from Central Store to respective Division / sub division The activity include loading and unloading of material at designated locations/stores. Meter LOT size shall be 100 meters. (Quantity mentioned in number of to and fro trips). Separate rate to be quoted for the distance range 1-50 Km, 51-100 Km, 100-150 Km, 150-200 Km, & above 200 Kms	EA	200				

Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 14(KED Keonjhar)Keonjhar No-1,Keonjhar No-2,Turumunga				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C)
72	DT Metering	Meter & Channel Earthing	Earthing of the meter and meter channel	EA	800				
<b>Total all inclusive Amount for First year (Year -1)</b>					<b>Total Amount For Year 1</b>				.....
<b>Percentage (%) escalation for Second year (Year 2) (The % escalation shall be applicable on unit rate of all service line item for second year)</b>					..... %				
<b>Total all inclusive Amount for Second year (Year -2)</b>					<b>Total Amount For Year 2</b>				.....
<b>Total Overall all inclusive value for Year 1 and Year 2 ( in Rs.)</b>					<b>Rs. ....</b>				
<p>Note -The bids shall be evaluated commercially on the overall lowest cost for each Divison Set <u>for both years</u>. Therefore bidders are advised to quote their best price for year 1 and best % escalation for year 2 as well.</p>									

Abbreviations	
SP	Single Phase
PP	Poly Phase
LT CT	Low Tension Current Transformer Operated Meters
DT Metering	Distribution TRf Metering
HT CT	High Tension Current Transformer Operated Meters
FSC	Field Service Executive
DD	Data Download
MTS	Modem Trouble Shooting
SVR	Survey
BA	Business Associate / Vendor / Bidder

## Annexure-1 (Schedule of Items)

Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 15(JED Joda)Joda,Barbil,Champua				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C)
1	SP	Meter Installation - Single Phase	Installation of 1 phase energy meter with / without meter box. Static /BLE /Smart AMI	EA	17000				
2	SP	Installation of 2C*4 sq mm/2*6 sq mm /2 C* 10 SQMM armoured, Cable O/H (Length 7M-30M)	Stringing, sagging of armoured service cable size 2CX 4 sq mm /2Cx6 mm with length between 7m to 30m including installation of saddle, fastener for support and connection at pole /Required to Fix Height rising Channel,Angle With Anchor Fastener ,Nut & Bolts Supply Of Sundry Items Like Anchor Fastener ( M 12 ) and Nut Bolts will Be in BA Scope With in Service Cable Laying Cost ./Required to Fix Height rising Channel ,Angle With Anchor Fastener ,Nut & Bolts Supply Of Sundry Items Like Anchor Fastener ( M 12 ) and Nut Bolts will Be in BA Scope With in Service Cable Laying Cost .	EA	3000				
3	SP	Meter Removal - Single Phase	Removal of single phase meter without service cable.	EA	15000				
4	SP	Service Cable Removal of any size used for Single Ph connections	Removal of service cable of any size used for single Phase connections from pole/ LT Network.	EA	500				
5	SP	SP Meter Box Replacement	Replacement only Meter box WC Meter (1 Ph) & Smart Meter Single Phase	EA	500				
6	SP	SP Meter Shifting ( Without cable replacement)	Shifting of 1 ph Meters from inside to outside of premises ,height meters to 5 to 6 ft range and as per requirement (With out Cable Replacement )	EA	500				
7	SP	SP Meter Shifting ( With cable replacement)	Shifting of 1 ph Meters from inside to outside of premises ,height meters to 5 to 6 ft range and as per requirement (With cable Replacement)	EA	500				
8	PP	Meter Installation - Poly Phase Whole Current	Installation of Poly Phase whole current energy meter with / without meter box BLE/static /Smart AMI	EA	900				
9	PP	Installation of 4C*25 sq mm armoured, Cable O/H (Length 7M-30M)	Stringing, sagging of armoured service cable size 4CX 25 sq mm with length between 7m to 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble.	EA	150				
10	PP	Installation of 4C*6/4C*10 /4C*16 /Controc Cable Laying sq mm armoured, Cable O/H (Length 7M-30M)	Stringing, sagging of armoured service cable size 4CX 10 sq mm with length between 7m to 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble.	EA	75				
11	PP	Meter Removal - Poly Phase Whole Current	Removal of Poly Phase whole current meter with / without meter box.	EA	700				

Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 15(JED Joda)Joda,Barbil,Champua				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C )
12	PP	Service Cable Removal of any size used for Poly Phase connections	Removal of service cable of 4C X 10 sq mm(majorly) or any other size used for Poly Phase Whole Current connections from pole/ LT Network.	EA	100				
13	P/PP / LTC	Meter Accuracy test at site with Accucheck	Single Phase /Polyphase/LTCT Meter Testing with Accucheck (Will be provided by TPNODL) to be done.	EA	800				
14	SP/PP	Supply and Installation of wall corner clamp	Supply and Installation of Wall Corner Clamp. Consumables i.e. fastener etc. shall be in the scope of BA	EA	300				
15	SP/PP	Supply and Installation of Stand pipe for maintaining the Sagging.	Supply and Installation of Stand pipe for maintaining the Sagging. (LT GI Pipe for Service Line Support as per REC / TPNODL standard)	EA	2800				
16	SP/PP	Bus bar Installation	Installation of any type of bus bar box ( 2 Way & 4 Way etc ) on wall / Pole along with supply of fasteners, steel strap and buckles. (Fastener / Steel strap shall be supplied by BA)	EA	100				
17	SP/PP	Prefabricated GI Structure (Supply Item) / kg	Supply & Installation of Prefabricated / GI structural angle/ channel / flats of different sizes, as per the site requirement	Kg	600				
18	SP/PP	Installation of Bracket Angle/ service anchor/ suspension clamp/ slotted angle	Installation of GI Bracket for Anchoring service cable of size 50, 95 & 150 sqmm / Installation of Service Cable Anchor / Installation of Slotted angle on pole in case of 2x10/4x10/4x25 cable lying, on uncleaned poles. (Number of items used at one site shall be considered for billing).	EA	1000				
19	SP/PP	Loop Connection for service cable size 2C X 4 sq mm/ 2C X 10 sq mm/ 4C X 10 sq mm/ 4C X 25 sq mm with length ≤ 6 M	Stringing of loop connection ( length ≤ 6 meter ) for service cable size 2C X 4 sq mm/ 2C X 10 sq mm/ 4C X 10 sq mm/ 4C X 25 sq mm.	EA	100				
20	PP/DT	Distribution box/ Busbar work	Bus bar/Distribution Box Installation: Installation of any type of bus bar box on wall / Pole along with supply of fasteners, steel strap and buckles. (Fastener / Steel strap shall be supplied by BA)	EA	500				
21	PP/DT	Distribution box/ Busbar work	Bus bar/Distribution Box Removal	EA	500				
22	PP/DT	Meter Box Replacement	Replacement only Meter box WC Meter (3 Ph)	EA	500				
23	PP/DT	Meter Box Replacement	Replacement only Meter box LTCT Meter	EA	500				
24	PP/DT	Meter shifting work	Shifting of 3 ph WC Meters from inside to outside of premises ,height meters to 5 to 6 ft range and as per requirement.	EA	500				
25	PP/DT	Transportation	Hiring of Crane for Cubical and other related work (Rate/Hr)	EA	10				

Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 15(JED Joda)Joda,Barbil,Champua				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C)
26	LTCT	Static / Smart installation along with Meter Box and connection for CT / PT	Installation of Static / Smart meters along with ring type CT, Meter Box, and associated accessories on LT side of transformers.	EA	10				
27	LTCT	Installation of 4C*95 / 4C X 150 sq mm armoured service cable, O/H (Length up to 30M)	Stringing, sagging of armoured service cable size 4CX 95 sq mm / 4C X 150 sq mm with length upto 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble. (Saddles and Fastners are to be supplied by BA)	EA	25				
28	LTCT	Installation of LTCT Meter with Resign cast CT box (For 100/5 Amps & 200/5 Amps)	Installation, energisation along with communication of new LTCT meters with resin cast CT box and allied accessories. The activity includes supply of 8 Nos of lugs and its crimping on Service cable and connections, Complete grouting of meter box, Communication check of meter with back end server. Earthing also needs to be extended using armour of cable from pole to inside the meter box using suitable size of lugs. (These lugs will also be in scope of supply of BA.)	EA	50				
29	LTCT	Meter Replacement - LTCT Meter Only without box replacement.	Replacement of LTCT meter/ LTCT Smart meter of any rating i.e. 100/5A or 200/5A or 400/5A without box	EA	25				
30	LTCT	Fault rectification in CT Meter pertaining to termination/LT Cable dressing.	Fault rectification includes termination (thimble / socket crimping, gland change, cable lead extension crimping and tightening) and cable dressing.	EA	25				
31	LTCT	LTCT Meter with box Removal - All Rating	Removal of any LTCT meter from site with de-energisation, Meter, modem and its allied accessories with meter box.	EA	25				
32	HT	Meter Accuracy test at site (HTCT)--	HTCT Meter Testing to be done at site. Testing kit will be provided by TPNODL.	EA	50				
33	HT	CTPT / Metering cubicle Installation	Installation of new HT 11 KV Metering cubicle / CTPT unit. The activity includes to & fro transportation, commissioning, energisation of unit in all respect (i.e. connections of CTPT / Metering cubicle , fixing of complete Unit, necessary masonry work, grouting, Cable terminations, control cable connections, socket/thimble crimp , earthing connections, vermin proofing if any) . Note : Loading, Unloading, Installation of CT PT unit, Metering Cubicle at store, site through crane will be included in this cost.	EA	30				



Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 15(JED Joda)Joda,Barbil,Champua				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C)
34	HT	Pole mounted CTPT Installation	Installation of new HT 11 KV out door Metering CTPT unit, includes to & fro transportation, commissioning and energisation in all respect (i.e. connection in meter box from CTPT terminal block through control cable, pole mount CTPT unit erected at 30' height. Fix and Bolt CTPT unit, stand pipe flange, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CTPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door).	EA	30				
35	HT	Meter Installation - HT Meter Only--	Installation of any HT energy meter along with modem and its termination in Metering cubicle / CTPT unit. This will include removal of existing energy meter if installed. HT team will take care of metering activities of falling under the geographical area of Circle. This rate will include travelling up to an average of 50 KM / case/ month (including to and fro). Any travel beyond an avg. of 50 KM / cases / Month will be paid in the lot of 50 KM basis over and above the rates quoted per activity. BA to quote rate for additional travel / 50 KM during any month.	EA	40				
36	HT	Replacement of only HT meter chamber at PMSS OR Replacement / Shifting of control cable pipe with meter chamber for CTPT unit--circlewise	Replacement of HT Metering chamber of HT 11 KV out door Metering CTPT unit, replacement of control cable pipe , energy meter and allied accessories include to & fro transportation, commissioning and energisation in all respect (i.e. reconnection in meter box from CTPT terminal block through control cable, stand pipe flange replacement, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CTPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door). Note : Loading, Unloading, Installation of CT PT unit, Metering Cubicle at store, site through crane will be included in this cost.	EA	20				
37	HT	CTPT / Metering cubicle Removal	Dismantling of complete HT CTPT / Metering Cubicle unit which includes to & fro transportation, complete removal and de-energisation in all respect (i.e. disconnection in all respect, removal of control cable, ends termination removal and all accessories removal) Note : Loading, Unloading, Installation of CT PT unit, Metering Cubicle at store, site through crane will be included in this cost.	EA	10				

Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 15(JED Joda)Joda,Barbil,Champua				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C)
38	HT	Travel in HT Meter Installation - (Travel charges in lot of 50 KM)	Rate for travel of HT Vehicle for additional travel in lot of 50 KM (over and above which is covered in Sr. No 27 / 28 /29 /30 ) for a month. Rate for 50 KM additional mileage after rounding off to be charged. If more than one activity is performed at one site at a time, then this cost to be charged against only one activity.	Lot size of 50 KM each	30				
39	HT	Pole mounted CTPT Removal	Dismantling of complete HT metering out door CTPT unit, includes to & fro transportation, removing and de-energisation in all respect (i.e. connection from meter box from CTPT terminal block through control cable, pole mount CTPT unit erected at 30' height. Fix and Bolt CTPT unit, stand pipe flange, two earth connections, HT cable ends termination removal, socket/ thimble crimp, stand pipe flanges removal, meter terminal cover, window and chamber door removal from site).	EA	10				
40	HT	CTPT / Metering cubicle Installation	Installation of new HT 33 KV Metering cubicle / CTPT unit. The activity includes to & fro transportation, commissioning, energisation of unit in all respect (i.e. connections of CTPT / Metering cubicle , fixing of complete Unit, necessary masonry work, grouting, Cable terminations, control cable connections, socket/thimble crimp , earthing connections, vermin proofing if any) . Note : Loading, Unloading, Installation of CT PT unit, Metering Cubicle at store, site through crane will be included in this cost.	EA	30				
41	HT	Pole mounted CTPT Installation	Installation of new HT 33 KV out door Metering CTPT unit, includes to & fro transportation, commissioning and energisation in all respect (i.e. connection in meter box from CTPT terminal block through control cable, pole mount CTPT unit erected at 30' height. Fix and Bolt CTPT unit, stand pipe flange, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CTPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door).	EA	30				

Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 15(JED Joda)Joda,Barbil,Champua				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C )
42	HT	Replacement of only HT meter chamber at PMSS OR Replacement / Shifting of control cable pipe with meter chamber for CTPT unit--circlewise	Replacement of HT Metering chamber of HT 33 KV out door Metering CTPT unit, replacement of control cable pipe , energy meter and allied accessories include to & fro transportation, commissioning and energisation in all respect (i.e. reconnection in meter box from CTPT terminal block through control cable, stand pipe flange replacement, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CTPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door). Note : Loading, Unloading, Installation of CT PT unit, Metering Cubicle at store, site through crane will be included in this cost.	EA	3				
43	HT	Pole mounted CTPT Removal	Dismantling of complete 33 KV HT metering out door CTPT unit, includes to & fro transportation, removing and de-energisation in all respect (i.e. connection from meter box from CTPT terminal block through control cable, pole mount CTPT unit erected at 30' height. Fix and Bolt CTPT unit, stand pipe flange, two earth connections, HT cable ends termination removal, socket/ thimble crimp, stand pipe flanges removal, meter terminal cover, window and chamber door removal from site).	EA	10				
44	HT/DT	DP Structure Related	Supply and Installation of 11KV complete DP Structure 9Mtr including pressure channel, MU mounting channel, Angle, Stay set, GI pipe, Complete Concreting, Base plating, etc. including supply of material & transportation (Supply of Pole Excluded).	EA	10				
45	HT/DT	DP Structure Related	Replacement of 11KV complete DP Structure 9Mtr including pressure channel, MU mounting channel, Angle, Stay set, GI pipe, Complete Concreting, Base plating, etc. including supply of material & transportation,	EA	10				
46	HT/DT	DP Structure Related	Removal of 11KV complete DP Structure 9Mtr including pressure channel, MU mounting channel, Angle, Stay set, GI pipe, Complete Concreting, Base plating, etc. including transportation.	EA	10				
47	HT/DT	DP Structure Related	Supply and Installation of 33KV complete DP Structure 9Mtr including pressure channel, MU mounting channel, Angle, Stay set, GI pipe, Complete Concreting, Base plating, earthing etc. including supply of material & transportation (Supply of Pole Excluded).	EA	10				
48	HT/DT	DP Structure Related	Replacement of 33KV complete DP Structure 9Mtr including pressure channel, MU mounting channel, Angle, Stay set, GI pipe, Complete Concreting, Base plating, earthing, etc. including supply of material & transportation.	EA	10				

Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 15(JED Joda)Joda,Barbil,Champua				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C )
49	HT/DT	DP Structure Related	Removal of 33KV complete DP Structure 9Mtr including pressure channel, MU mounting channel, Angle, Stay set, GI pipe, Complete Concreting, Base plating, earthing, etc. including transportation	EA	10				
50	FSE	FSE- New Connection	Site verification of new connection with capturing of details as mentioned in site verification form and capturing photographs. Further submission of SVR and file at respective division office.	EA	1000				
51	FSE	FSE - Attribute Change	Site verification Attribute case with capturing of details as mentioned in Attribute Change form and capturing photographs. Further submission of SVR and file at respective division office.	EA	1000				
52	FSE	FSE - SVR Dues/Meter Reading cross check.	Site verification for confirmation of dues with capturing of details as mentioned in dues verification form and capturing photographs. Further submission of SVR and file at respective division office.	EA	500				
53	DD	Data Downloading from Meter (Single Phase )	Data downloading of Meter data after opening of meter box seals and thereafter resealing it. Including DT Meter Reading	EA	500				
54	DD	Data Downloading from Meter (Three Phase/Poly Phase /DT Metering )	Data downloading of Meter data after opening of meter box seals and thereafter resealing it. Including DT Meter Reading	EA	15351				
55	DD	Manul Meter Reading and SVR (Three Phase /Poly Phase/DT Metering)	Taking manual reading parameters from meter display, providing remarks with photographs where data can not be downloaded for reason not attributable to BA, Prepare SVR Against OK Meter in site but Faulty Meter recorded in TPNODL Ledger	EA	3836				
56	MTS	Modem Trouble Shooting activity/Smart Meter Nickcard Replacement & Trouble Shooting	Replacement of faulty modem with healthy modem/Smart Meter Nick card after opening of meter box by removing seals. Coordination with communication testing desk at back office and after ensuring communication, repealing of meter box.	EA	350				
57	MTS	Return Cases - of Modem TS	Return Case of Modem Troubleshooting cases where site visit has been done and modem could not be rectified due to reasons not attributable to BA. The activity include pasting notice , providing photograph of site.	EA	50				
58	SP	Return Cases - SP meter installation	Return Case of New connection and meter replacement cases where site visit has been done and meter could not be installed due to reasons not attributable to BA. The activity include pasting notice, providing photograph of site / meter, Reading and other details of meter. Address not traceable cases will not be included .	EA	1000	0	0	0	0

Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 15(JED Joda)Joda,Barbil,Champua				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C)
59	SP	Shifting of Meters (New / old) from Central store to site store or Site store to Central store. (Bidder has to provide vehicle and sufficient manpower for shifting of Meters/Meter Boxes /accessories from Central Store to respective Division / sub division. The activity include loading and unloading of material at designated locations/stores. Meter LOT size shall be 1000 meters For New Meter 2000 Meter for Scarp Old Meter . Otherthen Define lot Rate will be provided in prorate Basis.	Up to 50 Km						
			Up to 100 Km		10				
			Up to 150 Km		10				
			Up to 200 Km		10				
			Above 200 Km	EA	10				
60	SP	Shifting of Cable from Central store to site store or Site store to Central store. Bidder has to provide vehicle and sufficient manpower for shifting of cable . The activity include loading and unloading of material at designated locations/stores. LOT size shall be 6Km for 2*4 sqmm/2*6 MM cable/ any 2 core cable.Otherthen Define lot Rate will be provided in prorate Basis.	Up to 50 Km		10				
			Up to 100 Km		10				
			Up to 150 Km						
			Up to 200 Km		10				
			Above 200 Km	EA	10				
61	Protocol Punching	Punching of Protocols for field activities Prtal entry In Prtal Or Installation Data Capatauring IN MY MMG Mobile Application	Bidder has to punch protocol or Installation Details capturing In MY MMG Mobile APP for Meter installation (Both Single Phase and Three Phase activity/Modem Installation / rectification / Meter Testing (HT and LT) activity / data downloading activity, with 5% QC	EA	18000				

Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 15(JED Joda)Joda,Barbil,Champua				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C )
62	DT Metering	Static / Smart /DT Meter installation along with Meter Box and connection for CT / PT	Installation of DT meters 800/400/200/5A, installation of ring type CT, Meter Box, and associated accessories on LT side of transformers Incl Electrical Power Cable/Control Cable Laying & Termination	EA	800				
63	DT Metering	Static / Smart /DT Meter removal along with Meter Box	Removal of any DT meter from site with De energisation of Meter, Modem and its allied accessories	EA	200				
64	DT Metering	Static / Smart /DT Meter installation along with Meter Box and Complete Electrical connection	Installation of Static / Smart /DT Meter meters, along with Meter Box, Mounting Arrangement Installation and associated accessories on LT side of transformers.	EA	200				
65	DT Metering	Concreting of Prefabricated GI Structure base by Cement, Sand & Chips Grade M40	Supply of Cement, Sand & Chips, digging of hole Labour as per the site requirement	EA	200				
66	DT Metering	GI Nut, bolts & washer \	Supply of GI Nut, bolts & washer as per the site requirement M10 -M20	KG	200				
67	DT Metering	Installation of 1C*95 , 1C X 150, 1C*300, sq mm from Tr. LT side through meters.	Installation of cable from Meter To Source Vice Varsa Upto 6- 40 MTR	EA	200				
68	DT Metering	DT Meter with box Removal - All Rating	Removal of any DT meter from site with de-energisation, Meter, modem and its allied accessories with meter box.	EA	200				
69	DT Metering	Modem Installation	Replacement of faulty modem with healthy modem after opening of meter box by removing seals. Coordination with communication testing desk at back office and after ensuring communication, resealing of meter box.	EA	200				
70	DT Metering	Return Cases - of Modem TS	Return Case of Modem Troubleshooting cases where site visit has been done and modem could not be rectified due to reasons not attributable to BA. The activity include pasting notice , providing photograph of site.	EA	200				
71	DT Metering	Shifting of Meter from Central store to respective Division / Sub division.	Bidder has to provide vehicle and sufficient manpower for shifting of Meters/accessories from Central Store to respective Division / sub division The activity include loading and unloading of material at designated locations/stores. Meter LOT size shall be 100 meters. (Quantity mentioned in number of to and fro trips). Separate rate to be quoted for the distance range 1-50 Km, 51-100 Km, 100-150 Km, 150-200 Km, & above 200 Kms	EA	200				

Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 15(JED Joda)Joda,Barbil,Champua				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C)
72	DT Metering	Meter & Channel Earthing	Earthing of the meter and meter channel	EA	800				
<b>Total all inclusive Amount for First year (Year -1)</b>					<b>Total Amount For Year 1</b>				.....
<b>Percentage (%) escalation for Second year (Year 2)</b> <b>(The % escalation shall be applicable on unit rate of all service line item for second year)</b>					..... %				
<b>Total all inclusive Amount for Second year (Year -2)</b>					<b>Total Amount For Year 2</b>				.....
<b>Total Overall all inclusive value for Year 1 and Year 2 ( in Rs.)</b>					<b>Rs. ....</b>				
<p>Note -The bids shall be evaluated commercially on the overall lowest cost for each Divison Set <u>for both years</u>. Therefore bidders are advised to quote their best price for year 1 and best % escalation for year 2 as well.</p>									

Abbreviations	
SP	Single Phase
PP	Poly Phase
LT CT	Low Tension Current Transformer Operated Meters
DT Metering	Distribution TRf Metering
HT CT	High Tension Current Transformer Operated Meters
FSC	Field Service Executive
DD	Data Download
MTS	Modem Trouble Shooting
SVR	Survey
BA	Business Associate / Vendor / Bidder

## Annexure-1 (Schedule of Items)

Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 16 (AED Anandapur) Anandapur,Ghatagaon,Bidyadharpur				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C)
1	SP	Meter Installation - Single Phase	Installation of 1 phase energy meter with / without meter box. Static /BLE /Smart AMI	EA	30000				
2	SP	Installation of 2C*4 sq mm/2*6 sq mm /2 C* 10 SQMM armoured, Cable O/H (Length 7M-30M)	Stringing, sagging of armoured service cable size 2CX 4 sq mm /2Cx6 mm with length between 7m to 30m including installation of saddle, fastener for support and connection at pole /Required to Fix Height rising Channel,Angle With Anchor Fastener ,Nut & Bolts Supply Of Sundry Items Like Anchor Fastener ( M 12 ) and Nut Bolts will Be in BA Scope With in Service Cable Laying Cost ./Required to Fix Height rising Channel ,Angle With Anchor Fastener ,Nut & Bolts Supply Of Sundry Items Like Anchor Fastener ( M 12 ) and Nut Bolts will Be in BA Scope With in Service Cable Laying Cost .	EA	3000				
3	SP	Meter Removal - Single Phase	Removal of single phase meter without service cable.	EA	22000				
4	SP	Service Cable Removal of any size used for Single Ph connections	Removal of service cable of any size used for single Phase connections from pole/ LT Network.	EA	500				
5	SP	SP Meter Box Replacement	Replacement only Meter box WC Meter (1 Ph) & Smart Meter Single Phase	EA	500				
6	SP	SP Meter Shifting ( Without cable replacement)	Shifting of 1 ph Meters from inside to outside of premises ,height meters to 5 to 6 ft range and as per requirement (With out Cable Replacement )	EA	500				
7	SP	SP Meter Shifting ( With cable replacement)	Shifting of 1 ph Meters from inside to outside of premises ,height meters to 5 to 6 ft range and as per requirement (With cable Replacement)	EA	500				
8	PP	Meter Installation - Poly Phase Whole Current	Installation of Poly Phase whole current energy meter with / without meter box BLE/static /Smart AMI	EA	900				
9	PP	Installation of 4C*25 sq mm armoured, Cable O/H (Length 7M-30M)	Stringing, sagging of armoured service cable size 4CX 25 sq mm with length between 7m to 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble.	EA	150				
10	PP	Installation of 4C*6/4C*10 /4C*16 /Controc Cable Laying sq mm armoured, Cable O/H (Length 7M-30M)	Stringing, sagging of armoured service cable size 4CX 10 sq mm with length between 7m to 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble.	EA	75				
11	PP	Meter Removal - Poly Phase Whole Current	Removal of Poly Phase whole current meter with / without meter box.	EA	700				



Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 16 (AED Anandapur)Anandapur,Ghatagaon,Bidyadharpur				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C)
12	PP	Service Cable Removal of any size used for Poly Phase connections	Removal of service cable of 4C X 10 sq mm(majorly) or any other size used for Poly Phase Whole Current connections from pole/ LT Network.	EA	100				
13	P/PP / LTC	Meter Accuracy test at site with Accucheck	Single Phase /Polyphase/LTCT Meter Testing with Accucheck (Will be provided by TPNODL) to be done.	EA	800				
14	SP/PP	Supply and Installation of wall corner clamp	Supply and Installation of Wall Corner Clamp. Consumables i.e. fastener etc. shall be in the scope of BA	EA	300				
15	SP/PP	Supply and Installation of Stand pipe for maintaining the Sagging.	Supply and Installation of Stand pipe for maintaining the Sagging. (LT GI Pipe for Service Line Support as per REC / TPNODL standard)	EA	2800				
16	SP/PP	Bus bar Installation	Installation of any type of bus bar box ( 2 Way & 4 Way etc ) on wall / Pole along with supply of fasteners, steel strap and buckles. (Fastener / Steel strap shall be supplied by BA)	EA	100				
17	SP/PP	Prefabricated GI Structure (Supply Item) / kg	Supply & Installation of Prefabricated / GI structural angle/ channel / flats of different sizes, as per the site requirement	Kg	600				
18	SP/PP	Installation of Bracket Angle/ service anchor/ suspension clamp/ slotted angle	Installation of GI Bracket for Anchoring service cable of size 50, 95 & 150 sqmm / Installation of Service Cable Anchor / Installation of Slotted angle on pole in case of 2x10/4x10/4x25 cable lying, on uncleaned poles. (Number of items used at one site shall be considered for billing).	EA	1000				
19	SP/PP	Loop Connection for service cable size 2C X 4 sq mm/ 2C X 10 sq mm/ 4C X 10 sq mm/ 4C X 25 sq mm with length ≤ 6 M	Stringing of loop connection ( length ≤ 6 meter ) for service cable size 2C X 4 sq mm/ 2C X 10 sq mm/ 4C X 10 sq mm/ 4C X 25 sq mm.	EA	100				
20	PP/DT	Distribution box/ Busbar work	Bus bar/Distribution Box Installation: Installation of any type of bus bar box on wall / Pole along with supply of fasteners, steel strap and buckles. (Fastener / Steel strap shall be supplied by BA)	EA	500				
21	PP/DT	Distribution box/ Busbar work	Bus bar/Distribution Box Removal	EA	500				
22	PP/DT	Meter Box Replacement	Replacement only Meter box WC Meter (3 Ph)	EA	500				
23	PP/DT	Meter Box Replacement	Replacement only Meter box LTCT Meter	EA	500				
24	PP/DT	Meter shifting work	Shifting of 3 ph WC Meters from inside to outside of premises ,height meters to 5 to 6 ft range and as per requirement.	EA	500				
25	PP/DT	Transportation	Hiring of Crane for Cubical and other related work (Rate/Hr)	EA	10				

Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 16 (AED Anandapur)Anandapur,Ghatagaon,Bidyadharpur				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C)
26	LTCT	Static / Smart installation along with Meter Box and connection for CT / PT	Installation of Static / Smart meters along with ring type CT, Meter Box, and associated accessories on LT side of transformers.	EA	10				
27	LTCT	Installation of 4C*95 / 4C X 150 sq mm armoured service cable, O/H (Length up to 30M)	Stringing, sagging of armoured service cable size 4CX 95 sq mm / 4C X 150 sq mm with length upto 30m including installation of saddle, fastener for support and connection at pole / LT network with thimble. (Saddles and Fastners are to be supplied by BA)	EA	25				
28	LTCT	Installation of LTCT Meter with Resign cast CT box (For 100/5 Amps & 200/5 Amps)	Installation, energisation along with communication of new LTCT meters with resin cast CT box and allied accessories. The activity includes supply of 8 Nos of lugs and its crimping on Service cable and connections, Complete grouting of meter box, Communication check of meter with back end server. Earthing also needs to be extended using armour of cable from pole to inside the meter box using suitable size of lugs. (These lugs will also be in scope of supply of BA.)	EA	50				
29	LTCT	Meter Replacement - LTCT Meter Only without box replacement.	Replacement of LTCT meter/ LTCT Smart meter of any rating i.e. 100/5A or 200/5A or 400/5A without box	EA	25				
30	LTCT	Fault rectification in CT Meter pertaining to termination/LT Cable dressing.	Fault rectification includes termination (thimble / socket crimping, gland change, cable lead extension crimping and tightening) and cable dressing.	EA	25				
31	LTCT	LTCT Meter with box Removal - All Rating	Removal of any LTCT meter from site with de-energisation, Meter, modem and its allied accessories with meter box.	EA	25				
32	HT	Meter Accuracy test at site (HTCT)--	HTCT Meter Testing to be done at site. Testing kit will be provided by TPNODL.	EA	50				
33	HT	CTPT / Metering cubicle Installation	Installation of new HT 11 KV Metering cubicle / CTPT unit. The activity includes to & fro transportation, commissioning, energisation of unit in all respect (i.e. connections of CTPT / Metering cubicle , fixing of complete Unit, necessary masonry work, grouting, Cable terminations, control cable connections, socket/thimble crimp , earthing connections, vermin proofing if any) . Note : Loading, Unloading, Installation of CT PT unit, Metering Cubicle at store, site through crane will be included in this cost.	EA	10				

Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 16 (AED Anandapur)Anandapur,Ghatagaon,Bidyadharpur				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C)
34	HT	Pole mounted CTPT Installation	Installation of new HT 11 KV out door Metering CTPT unit, includes to & fro transportation, commissioning and energisation in all respect (i.e. connection in meter box from CTPT terminal block through control cable, pole mount CTPT unit erected at 30' height. Fix and Bolt CTPT unit, stand pipe flange, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CTPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door).	EA	10				
35	HT	Meter Installation - HT Meter Only--	Installation of any HT energy meter along with modem and its termination in Metering cubicle / CTPT unit. This will include removal of existing energy meter if installed. HT team will take care of metering activities of falling under the geographical area of Circle. This rate will include travelling up to an average of 50 KM / case/ month (including to and fro). Any travel beyond an avg. of 50 KM / cases / Month will be paid in the lot of 50 KM basis over and above the rates quoted per activity. BA to quote rate for additional travel / 50 KM during any month.	EA	40				
36	HT	Replacement of only HT meter chamber at PMSS OR Replacement / Shifting of control cable pipe with meter chamber for CTPT unit--circlewise	Replacement of HT Metering chamber of HT 11 KV out door Metering CTPT unit, replacement of control cable pipe , energy meter and allied accessories include to & fro transportation, commissioning and energisation in all respect (i.e. reconnection in meter box from CTPT terminal block through control cable, stand pipe flange replacement, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CTPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door). Note : Loading, Unloading, Installation of CT PT unit, Metering Cubicle at store, site through crane will be included in this cost.	EA	20				
37	HT	CTPT / Metering cubicle Removal	Dismantling of complete HT CTPT / Metering Cubicle unit which includes to & fro transportation, complete removal and de-energisation in all respect (i.e. disconnection in all respect, removal of control cable, ends termination removal and all accessories removal) Note : Loading, Unloading, Installation of CT PT unit, Metering Cubicle at store, site through crane will be included in this cost.	EA	10				

Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 16 (AED Anandapur)Anandapur,Ghatagaon,Bidyadharpur				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C)
38	HT	Travel in HT Meter Installation - (Travel charges in lot of 50 KM)	Rate for travel of HT Vehicle for additional travel in lot of 50 KM (over and above which is covered in Sr. No 27 / 28 /29 /30 ) for a month. Rate for 50 KM additional mileage after rounding off to be charged. If more than one activitiy is performed at one site at a time, then this cost to be charged against only one activity.	Lot size of 50 KM each	30				
39	HT	Pole mounted CTPT Removal	Dismantling of complete HT metering out door CTPT unit, includes to & fro transportation, removing and de-energisation in all respect (i.e. connection from meter box from CTPT terminal block through control cable, pole mount CTPT unit erected at 30' height. Fix and Bolt CTPT unit, stand pipe flange, two earth connections, HT cable ends termination removal, socket/ thimble crimp, stand pipe flanges removal, meter terminal cover, window and chamber door removal from site).	EA	10				
40	HT	CTPT / Metering cubicle Installation	Installation of new HT 33 KV Metering cubicle / CTPT unit. The activity includes to & fro transportation, commissioning, energisation of unit in all respect (i.e. connections of CTPT / Metering cubicle , fixing of complete Unit, necessary masonry work, grouting, Cable terminations, control cable connections, socket/thimble crimp , earthing connections, vermin proofing if any) . Note : Loading, Unloading, Installation of CT PT unit, Metering Cubicle at store, site through crane will be included in this cost.	EA	30				
41	HT	Pole mounted CTPT Installation	Installation of new HT 33 KV out door Metering CTPT unit, includes to & fro transportation, commissioning and energisation in all respect (i.e. connection in meter box from CTPT terminal block through control cable, pole mount CTPT unit erected at 30' height. Fix and Bolt CTPT unit, stand pipe flange, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CTPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door).	EA	30				

Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 16 (AED Anandapur)Anandapur,Ghatagaon,Bidyadharpur				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C)
42	HT	Replacement of only HT meter chamber at PMSS OR Replacement / Shifting of control cable pipe with meter chamber for CTPT unit--circlewise	Replacement of HT Metering chamber of HT 33 KV out door Metering CTPT unit, replacement of control cable pipe , energy meter and allied accessories include to & fro transportation, commissioning and energisation in all respect (i.e. reconnection in meter box from CTPT terminal block through control cable, stand pipe flange replacement, two earth connections, HT cable ends termination, socket/ thimble crimp, tape & plug cable entry, sealing CTPT unit terminal block, stand pipe flanges, meter terminal cover, window and chamber door). Note : Loading, Unloading, Installation of CT PT unit, Metering Cubicle at store, site through crane will be included in this cost.	EA	3				
43	HT	Pole mounted CTPT Removal	Dismantling of complete 33 KV HT metering out door CTPT unit, includes to & fro transportation, removing and de-energisation in all respect (i.e. connection from meter box from CTPT terminal block through control cable, pole mount CTPT unit erected at 30' height. Fix and Bolt CTPT unit, stand pipe flange, two earth connections, HT cable ends termination removal, socket/ thimble crimp, stand pipe flanges removal, meter terminal cover, window and chamber door removal from site).	EA	10				
44	HT/DT	DP Structure Related	Supply and Installation of 11KV complete DP Structure 9Mtr including pressure channel, MU mounting channel, Angle, Stay set, GI pipe, Complete Concreting, Base plating, etc. including supply of material & transportation (Supply of Pole Excluded).	EA	10				
45	HT/DT	DP Structure Related	Replacement of 11KV complete DP Structure 9Mtr including pressure channel, MU mounting channel, Angle, Stay set, GI pipe, Complete Concreting, Base plating, etc. including supply of material & transportation,	EA	10				
46	HT/DT	DP Structure Related	Removal of 11KV complete DP Structure 9Mtr including pressure channel, MU mounting channel, Angle, Stay set, GI pipe, Complete Concreting, Base plating, etc. including transportation.	EA	10				
47	HT/DT	DP Structure Related	Supply and Installation of 33KV complete DP Structure 9Mtr including pressure channel, MU mounting channel, Angle, Stay set, GI pipe, Complete Concreting, Base plating, earthing etc. including supply of material & transportation (Supply of Pole Excluded).	EA	10				
48	HT/DT	DP Structure Related	Replacement of 33KV complete DP Structure 9Mtr including pressure channel, MU mounting channel, Angle, Stay set, GI pipe, Complete Concreting, Base plating, earthing, etc. including supply of material & transportation.	EA	10				

Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 16 (AED Anandapur)Anandapur,Ghatagaon,Bidyadharpur				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C)
49	HT/DT	DP Structure Related	Removal of 33KV complete DP Structure 9Mtr including pressure channel, MU mounting channel, Angle, Stay set, GI pipe, Complete Concreting, Base plating, earthing, etc. including transportation	EA	10				
50	FSE	FSE- New Connection	Site verification of new connection with capturing of details as mentioned in site verification form and capturing photographs. Further submission of SVR and file at respective division office.	EA	1000				
51	FSE	FSE - Attribute Change	Site verification Attribute case with capturing of details as mentioned in Attribute Change form and capturing photographs. Further submission of SVR and file at respective division office.	EA	1000				
52	FSE	FSE - SVR Dues/Meter Reading cross check.	Site verification for confirmation of dues with capturing of details as mentioned in dues verification form and capturing photographs. Further submission of SVR and file at respective division office.	EA	500				
53	DD	Data Downloading from Meter (Single Phase )	Data downloading of Meter data after opening of meter box seals and thereafter resealing it. Including DT Meter Reading	EA	500				
54	DD	Data Downloading from Meter (Three Phase/Poly Phase /DT Metering )	Data downloading of Meter data after opening of meter box seals and thereafter resealing it. Including DT Meter Reading	EA	13344				
55	DD	Manul Meter Reading and SVR (Three Phase /Poly Phase/DT Metering)	Taking manual reading parameters from meter display, providing remarks with photographs where data can not be downloaded for reason not attributable to BA, Prepare SVR Against OK Meter in site but Faulty Meter recorded in TPNODL Ledger	EA	3336				
56	MTS	Modem Trouble Shooting activity/Smart Meter Nickcard Replacement & Trouble Shooting	Replacement of faulty modem with healthy modem/Smart Meter Nick card after opening of meter box by removing seals. Coordination with communication testing desk at back office and after ensuring communication, repealing of meter box.	EA	350				
57	MTS	Return Cases - of Modem TS	Return Case of Modem Troubleshooting cases where site visit has been done and modem could not be rectified due to reasons not attributable to BA. The activity include pasting notice , providing photograph of site.	EA	50				
58	SP	Return Cases - SP meter installation	Return Case of New connection and meter replacement cases where site visit has been done and meter could not be installed due to reasons not attributable to BA. The activity include pasting notice, providing photograph of site / meter, Reading and other details of meter. Address not traceable cases will not be included .	EA	1250				

Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 16 (AED Anandapur)Anandapur,Ghatagaon,Bidyadharpur				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C)
59	SP	Shifting of Meters (New / old) from Central store to site store or Site store to Central store. (Bidder has to provide vehicle and sufficient manpower for shifting of Meters/Meter Boxes /accessories from Central Store to respective Division / sub division. The activity include loading and unloading of material at designated locations/stores. Meter LOT size shall be 1000 meters For New Meter 2000 Meter for Scarp Old Meter . Otherthen Define lot Rate will be provided in prorate Basis.	Up to 50 Km						
			Up to 100 Km						
			Up to 150 Km		10				
			Up to 200 Km		10				
			Above 200 Km	EA	10				
60	SP	Shifting of Cable from Central store to site store or Site store to Central store. Bidder has to provide vehicle and sufficient manpower for shifting of cable . The activity include loading and unloading of material at designated locations/stores. LOT size shall be 6Km for 2*4 sqmm/2*6 MM cable/ any 2 core cable.Otherthen Define lot Rate will be provided in prorate Basis.	Up to 50 Km						
			Up to 100 Km		10				
			Up to 150 Km		10				
			Up to 200 Km		10				
			Above 200 Km	EA	10				
61	Protocol Punching	Punching of Protocols for field activities Prtal entry In Prtal Or Installation Data Capatauring IN MY MMG Mobile Application	Bidder has to punch protocol or Installation Details capturing In MY MMG Mobile APP for Meter installation (Both Single Phase and Three Phase activity/Modem Installation / rectification / Meter Testing (HT and LT) activity / data downloading activity, with 5% QC	EA	31000				

Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 16 (AED Anandapur)Anandapur,Ghatagaon,Bidyadharpur				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C)
62	DT Metering	Static / Smart /DT Meter installation along with Meter Box and connection for CT / PT	Installation of DT meters 800/400/200/5A, installation of ring type CT, Meter Box, and associated accessories on LT side of transformers Incl Electrical Power Cable/Control Cable Laying & Termination	EA	800				
63	DT Metering	Static / Smart /DT Meter removal along with Meter Box	Removal of any DT meter from site with De energisation of Meter, Modem and its allied accessories	EA	200				
64	DT Metering	Static / Smart /DT Meter installation along with Meter Box and Complete Electrical connection	Installation of Static / Smart /DT Meter meters, along with Meter Box, Mounting Arrangement Installation and associated accessories on LT side of transformers.	EA	200				
65	DT Metering	Concreting of Prefabricated GI Structure base by Cement, Sand & Chips Grade M40	Supply of Cement, Sand & Chips, digging of hole Labour as per the site requirement	EA	200				
66	DT Metering	GI Nut, bolts & washer \	Supply of GI Nut, bolts & washer as per the site requirement M10 -M20	KG	200				
67	DT Metering	Installation of 1C*95 , 1C X 150, 1C*300, sq mm from Tr. LT side through meters.	Installation of cable from Meter To Source Vice Varsa Upto 6- 40 MTR	EA	200				
68	DT Metering	DT Meter with box Removal - All Rating	Removal of any DT meter from site with de-energisation, Meter, modem and its allied accessories with meter box.	EA	200				
69	DT Metering	Modem Installation	Replacement of faulty modem with healthy modem after opening of meter box by removing seals. Coordination with communication testing desk at back office and after ensuring communication, resealing of meter box.	EA	200				
70	DT Metering	Return Cases - of Modem TS	Return Case of Modem Troubleshooting cases where site visit has been done and modem could not be rectified due to reasons not attributable to BA. The activity include pasting notice , providing photograph of site.	EA	200				
71	DT Metering	Shifting of Meter from Central store to respective Division / Sub division.	Bidder has to provide vehicle and sufficient manpower for shifting of Meters/accessories from Central Store to respective Division / sub division The activity include loading and unloading of material at designated locations/stores. Meter LOT size shall be 100 meters. (Quantity mentioned in number of to and fro trips). Separate rate to be quoted for the distance range 1-50 Km, 51-100 Km, 100-150 Km, 150-200 Km, & above 200 Kms	EA	200				



Sr. No	Activity Type	Item Short Description	Detailed Item Description	U o M	Qty for 1st Year				
					Division 16 (AED Anandapur)Anandapur,Ghatagaon,Bidyadharpur				
					Qty (Q)	Unit Rate (Rs.) (A)	Taxes (Rs.) (B)	Total All inclusive unit rate (C = A+B)	Total Amt. (Rs.) (Q x C)
72	DT Metering	Meter & Channel Earthing	Earthing of the meter and meter channel	EA	800				
<b>Total all inclusive Amount for First year (Year -1)</b>					<b>Total Amount For Year 1</b>				.....
<b>Percentage (%) escalation for Second year (Year 2) (The % escalation shall be applicable on unit rate of all service line item for second year)</b>					..... %				
<b>Total all inclusive Amount for Second year (Year -2)</b>					<b>Total Amount For Year 2</b>				.....
<b>Total Overall all inclusive value for Year 1 and Year 2 (in Rs.)</b>					<b>Rs. ....</b>				
<p>Note -The bids shall be evaluated commercially on the overall lowest cost for each Divison Set <u>for both years</u>. Therefore bidders are advised to quote their best price for year 1 and best % escalation for year 2 as well.</p>									

Abbreviations	
SP	Single Phase
PP	Poly Phase
LT CT	Low Tension Current Transformer Operated Meters
DT Metering	Distribution TRf Metering
HT CT	High Tension Current Transformer Operated Meters
FSC	Field Service Executive
DD	Data Download
MTS	Modem Trouble Shooting
SVR	Survey
BA	Business Associate / Vendor / Bidder