



**OWNER:
THE TATA POWER COMPANY LIMITED**

TITLE OF WORK TO BE AWARDED:

ELECTRICAL WORKS FOR CENTRAL KITCHEN AT TROMBAY, CHEMBUR, MUMBAI

ENQUIRY REFERENCE NO.: CC26PMR016

NOTICE INVITING EXPRESSION OF INTEREST (EOI) FOR

ELECTRICAL WORKS FOR CENTRAL KITCHEN AT TROMBAY, CHEMBUR, MUMBAI

Enquiry reference no.: CC26PMR016
Title of Work: Electrical Works for Central Kitchen at Trombay, Chembur, Mumbai
Type of Bidding: E-tendering (through Ariba online portal) / Two Part (Technical and Price bids under separate envelopes)
Contact Details: All communication including EOI submission shall be addressed to following officer/s: Mr. Prasad Redij Email: prasad.redij@tatapower.com Copy of all communications shall be marked to (Cc): Ms. Yogita Waman Email: yogita.waman@tatapower.com Mr. P Ramrayka Email: p.ramrayka@tatapower.com

The Tata Power Company Limited (“Owner”) invites Expression of Interest (EOI) from interested parties for the Two-Part e-Tendering Process of following Relevant Work Package:

Table 1

Package Description	Tender Fee	Bid Security	Estimated package value	Last date and time for Payment of Tender Participation Fee	Last date and time for bid submission
Electrical Works for Central Kitchen at Trombay, Chembur, Mumbai	INR 2000/- (INR Two Thousand Only) <i>To be submitted along with EOI.</i>	INR 75,000 (INR Seventy Five Thousand only). <i>Bid Security to be submitted as a Guarantee/ DD/ NEFT at the BID stage (and not with EOI)</i>	INR 75 Lakhs (INR Seventy Five Lakhs) approx.	21 st July 2025, CoB.	30 th July 2025 1700 Hrs Any changes/ extensions shall be intimated through Ariba online portal to vendors who have purchased the tender.

- Interested bidders are strongly advised not to wait by above time and purchase the tender immediately to get the link for bid submission. This will enable them to communicate/raise queries against the subject tender in time.

1. INTRODUCTION:

The Tata Power Company Limited (TPC) is among the largest private sector Power Utility companies in India with presence in Generation, Transmission and Distribution of Power through conventional and renewable sources.

The tendering/ procurement activities for this Package are being managed from Tata Power's following office

Smart Center of Procurement Excellence (SCOPE),
Corporate Contracts,
The Tata Power Company Limited,
2nd Floor, Sahar Receiving Station, Near Hotel Leela,
Sahar Airport Road, Andheri East, Mumbai – 400 059, Maharashtra, India.

2. SCOPE OF WORK:

Brief scope includes electrical works for development of Central Kitchen at Trombay which covers complete wiring, associated connections and replacement of switch /socket for new equipments installed at kitchen along with changing of internal switch gear panel.

Detailed Technical Specifications/ Scope of Work and BOQ/ Price schedule is attached as Volume F & I in this NIT document, respectively.

3. TENDER FEE & TIMELINES:

a) Interested parties meeting the "Bidder Pre-Qualification Requirements" specified under point no. 4 in this document can request tender document and participate in the bidding process by submitting the Expression of Interest (EOI) Letter along with the Tender Fee Payment Details to the contact details mentioned below not later than deadline specified below. Request for extension of EOI submission date will be not entertained.

b) Interested bidders should submit the Expression of Interest (EOI) letter and tender fee payment details to below mentioned email addresses:

- Mails shall be addressed to (To): prasad.redij@tatapower.com
- Must mark copy to (cc): yogita.waman@tatapower.com; p.ramrayka@tatapower.com

EOI / requests without complete information and communication as above within deadline shall be liable to be rejected and will not be considered further.

c) Tender Fee, as indicated in the Table1 above may be paid through **NEFT/RTGS** as per details for payment of Tender Fee given in Table2 below:

Table 2

Details for payment of Tender Fee:	
Bank details for submitting Tender fees through bank transfer / NEFT:	Beneficiary Name: The Tata Power Company Limited Bank Name: HDFC Bank A/c no: 00600110000763 IFS Code: HDFC0000060 A/c type: CC Branch Name & Address: HDFC Bank, Maneckji Wadia Building, Nanik Motwani Marg, Fort, Mumbai 400023
Deadline for tender fee payment and submission of EOI:	21st July 2025, CoB.
Deadline for submission of bid in ARIBA and EMD:	30th July 2025, 1700 HRS Any changes/ extensions shall be intimated through Ariba online portal to vendors who have purchased the tender.

d) Expression of Interest letter to be submitted along with tender fee payment details should include the following details:

- A covering letter duly stamped and signed by an authorized signatory clearly indicating the Tender Reference number and your EOI to participate in the tendering process.
- Tender fee payment details / reference no (ensure that tender fee is received by us within specified deadline)
- Bidder to indicate authorized person name, contact number and e-mail id (mandatory) of the person to whom RFQ / tender and all other communications to be addressed for this tender.

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

4. BIDDER PRE-QUALIFICATION REQUIREMENTS:

Interested parties to note that Bidder shall be required to fulfill the following bidder pre-qualification requirement / criteria to qualify for the subject work. Bidder will be required to submit relevant supporting documents to demonstrate their qualification during the bid submission stage against Tender document / RFQ and bidders not found meeting the pre-qualification requirements given below will be disqualified from the tender.

4.1 TECHNICAL REQUIREMENT:

4.1.1. Bidder should have valid Electrical Contractor License with minimum 3 (Three) years of experience in similar Electrical Works **(Attach related supporting documents)**.

4.1.2. Bidder should have successfully executed minimum 1 (One) contract of value of Rs. 1 Crore

OR

minimum 2 (Two) contracts of value Rs. 50 Lakhs each

OR

minimum 3 (Three) contracts of value Rs. 35 Lakhs each, for similar Electrical Works in last 3 (Three) years.

(Attach Purchase order copy, Certificate of Experience and Satisfactory Completion of work awarded from concerned Establishments / Companies along with their references)

4.1.3. Bidder / Tenderer should have ISO 9001, ISO 14001, OHSAS-18001/ ISO- 45001 certification or must give an undertaking for its willingness to obtain the same within 2 months of qualification for the work.

4.2 FINANCIAL REQUIREMENT:

Bidder / Tenderer should have minimum Average Annual Turn-over of Rs. 2 Crores (Indian Rupees Two Crores only) in the preceding 3 years. **(Attach Certificates from Chartered Accountant in this regard)**

It may be noted that the above requirements are minimum qualification criteria. However, Tata Power reserves its right to further assess the capabilities of the parties and reserves its rights to further shortlist, accept or reject any party without assigning any reason. The tender may be split in more than one parties at the discretion of Owner.

5. BID SECURITY / EMD:

Interested parties to note that Bidder will be required to furnish a Bid Security along with their Bid, in the format prescribed in Bid Document **in the form of Bank Guarantee or through RTGS or Demand Draft**, for an amount as defined in the covering page of this notice document. Bids not accompanied by an acceptable Bid Security shall be rejected by the Owner as being non-responsive and returned to the bidder without being opened.

6. BIDDING PROCESS:

Detailed Bid Document (also referred as RFQ) shall be issued through Tata Power e-tender portal (Ariba System) only to the parties that submitted a valid EOI as per terms mentioned in this document.

Bidder to note that commercials for subject tender may be conducted through e-auction. Detailed bidding and auction process shall be detailed in the RFQ / tender document.

CONTENTS OF THE ENQUIRY

Following Documents Form Part of Tender Enquiry:

- A. Tender notice including Instruction to Bidders (This document)
- B. Format for Submission of Bank Guarantee for EMD/ Bid security
- C. Agreed Terms and Conditions
- D. Format for Pre bid queries/ deviations
- E. Techno-Commercial Pre-Qualification Requirement
- F. Scope of Work/ Technical specification/ Layout/ Drawing
- G. Safety bid document & Safety requirements
- H. Special Conditions of Contract
- I. Price Schedule
- J. General Conditions of Contract-Supply
- K. General Conditions of Contract-Service
- L. Tata Power Policies
 - L.1 Safety Terms and Condition- R6
 - L.2 Environment Policy
 - L.3 Health and Safety Policy
 - L.4 Sustainability Policy with ESG framework for BA.
 - L.5 TCOC
 - L.6 Guidelines of CERC
 - L.7 Vendor Declaration Compliances

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	INSTRUCTIONS TO BIDDER (TWO PART BID)	

The Tata Power Company Limited (TPCL) invites bid for “**Electrical Works for Central Kitchen at Trombay, Chembur, Mumbai.**”

1. The bid package is issued in the name of Bidder and is non-transferable.
2. Bidder shall acknowledge the receipt of the tender within two (2) working days from the Date of issue of this Request for Quotation (RFQ)/enquiry.
3. Bidders shall review the entire tender document (including technical documents) and ensure the given objectives expected herein can be achieved or the technical requirements can be met in totality. Any deviation or substitution must be highlighted on a separate document.
4. Bidder must carefully go through all commercial conditions of contract before quoting the price. Any exceptions pertaining to clauses affecting prices or costs either way must be clearly stated.
5. Any deviation taken by Bidder may lead to rejection of the bid.
6. Bidder shall quote a firm price and shall be bound to keep this price firm without any escalation for any reason whatsoever until they complete Service against the tender.
7. Bidder shall give clear break-up of the basic price and the taxes and duties included in the price quoted.
8. The quantities mentioned in the tender are liable for change.
9. TPCL reserves the right to accept or reject any or all bids or cancel/ withdraw the RFQ without assigning any reason whatsoever. In such an event, no claim shall be made arising out of such action.
10. Any time prior to the deadline for submission of Bid, TPCL may for any reasons, whether at their own initiative or in response to clarifications requested by Bidders, modify the enquiry including specification by amendment. The amendment will be notified in writing to all qualified Bidders to whom the RFQ has been issued and will be binding on them. The Bidder shall acknowledge the receipt of the amendment promptly upon the receipt of the same. In order to afford Bidders time in preparing of Bid due to amendment, TPCL may, at its discretion, extend the deadline set for submission of the Bid.
11. TPCL will not be liable for any expenses whatsoever incurred by the Bidder for the preparation, submission and opening of bids
12. This specification consists following Volumes:-

12.1 Volume I:-

A-Instruction to bidders (ITB), B- Format for submission of deviations. C- Special Conditions of Contract, D-Agreed terms and Conditions (ATC), E1- General Terms and Conditions – Supply, E2- General Terms and Conditions – Service, E3- General Terms and Conditions – Civil, F1-Environment- F2-Health & Safety, F3-Sustainability, F4-Safety terms & Conditions, F5-Tata Code Of Conduct, F6-Guidelines of Central Electricity Authority, F7- Vendor Declaration Compliances V12, G- Safety Bid Document.

12.2 Volume II:-

A- Standard Technical Specifications
B- Scope of Work-Lift
C- AMC Scope & SLA

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13. Submission of Offer

Two bid system: Bidder shall submit complete bid including list of deviations if any to the Scope of Work and the terms & conditions of the RFQ if any as well as furnish all required and relevant enclosures and submit the same in **submit/upload the same in Ariba system as per the guidelines:**

- I. Techno-Commercial Bid (Un-priced Bid)
- II. Price Bid

14. Kindly, note that the Technical Bid shall contain Volume I- **A,C,E,F** and Volume II- **A, B & C** has to be signed and stamped. Volume I- **B,D,G** to be duly filled, signed & stamped. Above mentioned documents to be submitted with all the supporting document requested for evaluation.

15. Kindly note that offers submitted with price details in technical bid are liable for rejection.

16. The bidder shall sign, its proposal with the exact names of the entity to which the contract is to be awarded. Each page of the bid shall be duly signed and sealed by an authorized officer of the bidder's organization.

17. The bid must be kept valid for **180** days from the date of opening of the bids. In exceptional circumstances TPCL may solicit the bidder's consent to an extension of the period of validity.

18. Bidders are advised to submit their bid well in time.

19. Bidders are advised to submit their bid well in time i. e. on or before bid submission date and time. Request for extension of Bid submission date will not be entertained.

20. Bidders are advised to contact following Tata Power personnel at Tata Power for technical queries/ site visit.

Last date for Pre-bid queries	24.07.2025
Pre - bid clarification meeting & site visit	To be decided
Due date and time for submission of bids & Bid Security	30.07.2025 till 5PM
Bid Security (EMD)	Rs. 75,000

Details for payment of EMD:

Bank details for submitting Tender fees through bank transfer / NEFT:	Beneficiary Name: The Tata Power Company Limited Bank Name: HDFC Bank A/c no: 00600110000763 IFS Code: HDFC0000060 A/c type: CC Branch Name & Address: HDFC Bank, Maneckji Wadia Building, Nanik Motwani Marg, Fort, Mumbai 400023
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21. Bid Security / Bid Security Validity:

21.1. Bidder shall furnish a Bid Security along with the Bid, in the form of **a Bank Guarantee or through RTGS or Demand Draft**, for an amount of INR 75,000/- with expiry date at least 45 days beyond the expiry of Bid Validity. In case of bid security Bank Guarantee, validity shall be of minimum 225 days from the Bid Submission Date and having a claim period of six months beyond the expiry date

21.2. Owner may request for extension of Bid Validity at its convenience till the award of contract to the successful Bidder and accordingly, Bidder shall extend the Bid Security Validity along with the Bid Validity such that the Bid Security is valid for at least 45 days beyond the Bid Validity date. In case Bidder do not accept Owner's request of extension to Bid Validity or Bidder fails to suitably extend the Bid Security Validity date in line with the above requirement before the expiry date, the Bid shall thereon be treated as invalid and not evaluated further.

21.3. Subsequent to post-bid discussions/clarifications and in response to Owner's request for any revised Price Bid/s thereon, any revised Price Bid submitted by the Bidder shall thereon have the same Bid Validity of 180 days from the Bid Submission Date of such revised Price Bids and Bidder shall have to extend the Bid Security Validity accordingly for minimum 225 days from such revised Bid Submission Date failing which the Bid shall be rejected.

21.4. Bids not accompanied by an acceptable Bid Security/ EMD shall be summarily rejected by the Owner as being non-responsive and not evaluated further. Bid Security of the unsuccessful bidder will be returned at the end of the Bid Validity. Bid Security of successful Bidder shall be returned on submission of Contract Performance Security cum Warranty Bank Guarantee (CPBG) and due acceptance of the same by Owner. Successful Bidder must therefore submit CPBG well in advance prior to the expiry of the Bid Security failing which Owner shall be within his rights to revoke the Bid Security. Wherever CPBG is not applicable, the Bid Security of successful Bidder shall be retained as Contract Security till work completion.

21.5. The bid package document shall remain the property of the Company.

22. Evaluation Criteria:

22.1 The bids will be evaluated technically on the compliance to tender terms and conditions, scope compliance etc.

22.2. The bids will be evaluated commercially on lowest total contract price basis as per Price Schedule excluding AMC part. Hence, all bidders are advised to quote their most competitive offer.

22.3 The tender may be split in more than one parties at the discretion of Owner.

23. Bid Opening & Evaluation Process:

23.1. Process to be Confidential:

Information relating to the examination, clarification, evaluation and comparison of Bids and recommendations for the award of a contract shall not be disclosed to Bidders or any other persons not officially concerned with such

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process. Any effort by a Bidder to influence the TPCL processing of Bids or award decisions may result in the rejection of the Bidder's Bid.

23.2. Technical Bid Opening:

Technical Bid of all valid Bids shall be opened simultaneously.

23.3. Preliminary Examination of Bids/ Responsiveness:

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

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

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

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

23.4. Techno Commercial Clarifications:

Bidders need to ensure that the bids submitted by them are complete in all respects to assist in the examination, evaluation and comparison of Bids, TPCL may, at its discretion, ask the Bidder for a clarification on its Bid for any deviations with respect to the TPCL specifications and attempt will be made to bring all bids on a common footing. All responses to requests for clarification shall be in writing only. Where applicable, Safety Bid shall also be evaluated along with technical bid for the qualification of Bidders against their safety systems & practices and past safety records.

23.5. Price Bid Opening:

Bidders may be asked to submit revised Price Bid in case there is any material change agreed by TPCL during technical evaluation / clarifications. Price Bid of

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only Technically and / or Safety Qualified Bidders shall be considered and opened.

24. Reverse Auctions:

TPCL reserves the right to go for Reverse Auction (RA) for price negotiation and discover the most competitive price on its e-sourcing portal. This will be decided after techno-commercial evaluation of the bids. Bidders need to give their acceptance with the offer for participation in RA. Non-acceptance to participate in RA may result in non-consideration of their bids, in case TPCL decides to go for RA.

Only those Bidder who are techno-commercially qualified & have submitted valid Price Bids shall be eligible to participate further in RA process. However, H1 Bidder (whose price bid is the highest post techno-commercial evaluation) shall not be allowed to participate in further RA process provided minimum three techno-commercially qualified bids are available.

FORMAT OF EMD – Bid Guarantee BG

Note: a) Format shall be followed in toto

b) Claim period of six months must be kept. In case of Bank is not ready to give BG for six months and claim period of six months EMD BG valid of one year to be given

c) The guarantee to be accompanied by the covering letter from the bank confirming the signatories to the guarantee on the Bank's letter head.

The Tata Power Co Ltd
34, Sant Tukaram Road
Carnac Bunder,
Mumbai 400 009

Whereas (Name of the Contractor), a Company incorporated under the Indian Companies Act 1956, having its Registered office at _____, (hereinafter called the "BIDDER") has in response to your Invitation to Bid against Enquiry No. _____ dated _____, for (name of work), offered to supply and/or execute the works as contained in Employers letter dated _____.

AND WHEREAS BIDDER is required to furnish to you a Bank Guarantee for the sum of Rs. _____/-(Rupees ____ only) as Earnest Money against Bidder's offer as aforesaid.

AND WHEREAS we, (name of the bank) having our Registered Office at _____ and Branch office at _____, have at the request of Bidder, agreed to give you this Guarantee as hereinafter contained.

NOW THEREFORE, in lieu of earnest money deposit, we, the undersigned, hereby covenant that the aforesaid Bid of the BIDDER shall remain open for acceptance by you during the period of validity as mentioned in the Bid Document or any extension thereof as requested by you and if Bidder shall for any reason back out, whether expressly or impliedly, from this said Bid during the period of its validity or any extension thereof as aforesaid, we hereby guarantee to you the payment of the sum of Rs. _____/-(Rupees ____ only) on demand and without demur and notwithstanding the existence of any dispute between you and the BIDDER in this regard and we hereby further agree as follows:

- (a) You shall have the right to file/make a claim on us under the Guarantee for a further period of six months from the said date of expiry.
- (b) That this guarantee shall not be revoked during its currency without your written express consent.
- (c) That you may without affecting this guarantee grant time or other indulgence to or negotiate further with BIDDER in regard to the conditions contained in the said Bid document and thereby modify these conditions or add thereto any further conditions as may be mutually agreed upon between you and BIDDER.
- (d) That the guarantee hereinbefore contained shall not be affected by any change in the constitution of our Bank or in the constitution of BIDDER.

- (e) That any account settled between you and BIDDER shall be conclusive evidence against us of the amount due hereunder and shall not be questioned by us.
- (f) That this guarantee commences from the date hereof and shall remain in force till BIDDER, if his Bid is accepted by you, furnishes the Contract Performance Guarantee as required under the said specifications and executes formal Contract Agreement as therein provided or till ____Days (__days) from the date of submission of the Bid by the BIDDER i.e. (expiry date), whichever is earlier.
- (g) That the expression, BIDDER and Bank, and OWNER herein used shall, unless such an interpretation is repugnant to the subject or context, include their respective successors and assignees.
- (h) Notwithstanding anything herein contained, our liability under this guarantee is limited to Rs._____/-(Rupees _____only) and the Guarantee will remain in force upto and including and shall be extended from time to time for such period or periods as may be desired by you. Unless a demand or claim under this Guarantee is received by us in writing within six months from (expiry date), i.e. on or before (claim period date), we shall be discharged from all liabilities under this guarantee thereafter.
- (i) Any claim/extension under the guarantee can be lodgeable at issuing outstation bank or at Mumbai branch and claim will also be payable at Mumbai Branch. **(To be confirmed by Mumbai Branch by a letter to that effect)**

Notwithstanding anything contained hereinabove :

- a) Our liability under this Bank Guarantee shall not exceed Rs._____/-(Rupees _____ only).
- b) This Bank Guarantee shall be valid upto ----- 200.
- c) Our Liability to make payment shall arise and we are liable to pay the guaranteed amount or any part there of under this Bank Guarantee only and only if you serve upon us a written claim or demand on or before ----- 200.

VOLUME ID

AGREED TERMS & CONDITIONS (ATC)

Bidder's Name: M/s. _____

RFQ ref. No. _____

Enquiry Description: _____

Bidder's Offer Ref.: _____

1. SUBMISSION OF THIS DOCUMENT DULY SIGNED, SHALL CONSTRUE THAT ALL THE CLAUSES OF AGREED TERMS AND CONDITIONS HAVE BEEN ACCEPTED BY YOU. PURCHASE ORDER, IF ANY, SHALL BE GOVERNED BY THE CONFIRMATION PROVIDED HERE.

Sr. No.	Description	BIDDER'S RESPONSE
A	<u>TECHNICAL (If applicable)</u>	
1	Acceptance of technical specifications including General/Technical notes and scope of supply/work as per Tender specification In case of deviation, confirm that the same has been furnished separately.	
2	Confirm data sheets duly filled in have been submitted, wherever required as requested in Technical specification	
B	<u>COMMERCIAL</u>	
3	Bid Validity As per Annexure - Special Conditions of Contract	
4	Firm price: Quoted prices shall remain firm and fixed till complete execution of the order.	
5	Taxes: GST: Any other tax as applicable:	
6	Completion/Delivery Period : As per Annexure - Special Conditions of Contract	
7	Payment Terms Acceptance: As per Annexure - Special Conditions of Contract	
8	Contract Performance Bank Guarantee: As per Annexure - Special Conditions of Contract	
9	Liquidated Damages (LD):- As per Annexure - Special Conditions of Contract	
10	Service Level Agreement (SLA):- As per Annexure - Special Conditions of Contract	
11	Compliance to other terms & conditions Acceptance of all other terms & conditions as forming the Part of the RFQ/ Tender document and communicated vide subsequent addendum(s) if any: In case of deviation, confirm that the same has been furnished separately.	

*Bidders/ Vendor shall note that in case of any contradiction between the Agreed Terms and Conditions (ATC) ; Bidder offer and the Bidders offer , the ATC shall prevail.

Bidder's Authorised Signatory
Name:

PRE-QUALIFICATION REQUIREMENT (PQR)

TECHNICAL REQUIREMENT:

1. Bidder should have valid Electrical Contractor License with minimum 3 (Three) years of experience in similar Electrical Works **(Attach related supporting documents)**.
2. Bidder should have successfully executed minimum 1 (One) contract of value of Rs. 1 Crore
OR
minimum 2 (Two) contracts of value Rs. 50 Lakhs each
OR
minimum 3 (Three) contracts of value Rs. 35 Lakhs each, for similar Electrical Works in last 3 (Three) years.

(Attach Purchase order copy, Certificate of Experience and Satisfactory Completion of work awarded from concerned Establishments / Companies along with their references)

3. Bidder / Tenderer should have ISO 9001, ISO 14001, OHSAS-18001/ ISO- 45001 certification or must give an undertaking for its willingness to obtain the same within 2 months of qualification for the work.

FINANCIAL REQUIREMENT:

Bidder / Tenderer should have minimum Average Annual Turn-over of Rs. 2 Crores (Indian Rupees Two Crores only) in the preceding 3 years. **(Attach Certificates from Chartered Accountant in this regard)**

It may be noted that the above requirements are minimum qualification criteria. However, Tata Power reserves its right to further assess the capabilities of the parties and reserves its rights to further shortlist, accept or reject any party without assigning any reason. The tender may be split in more than one parties at the discretion of Owner.

Scope of Work

Scope covers electrical work for Development of Central Kitchen at Trombay . This Kitchen will have new Kitchen equipments installed for which complete wiring and associated connection and switch /socket needs to be changed. Scope also covers changing of internal switch gear panel . Tentative Electrical layout is enclosed for reference.

Kindly note following :

Lighting Point wiring shall be done with PVC FR insulated 2.5 sq.mm stranded copper wire instead of 1.5 sq. mm wire as indicated item in BOQ.

- All cables shall be FRLS type and provided with anti-rodent treatment. Add FRLS type in BOQ spec for Cables.
- The incomer of Lighting panel shall be provided with TPN MCB with ELCB (30mA) and each outgoing circuits shall be provided with single pole MCB. ELCB is mandatory to meet statutory requirement for human safety against electric shocks.
- The lighting fixtures, receptacles (6A/16A), switch, conduits and junction boxes will be properly earthed using copper wire of 14 SWG (2 sq. mm).
- Cable trays should be properly earthed.
- For panel design and manufacturing, it is recommended to allocate 20% additional spare feeder outgoing to accommodate future expansions and modifications.
- Supplier of Lighting DB & lighting fixtures should be Tata Power's approved vendor (refer below list).

Lightning DB's L&T Ahmednagar 415V /230V

MDS Andheri, Mumbai 415V /230V

Control & Switchgear New Delhi 415V /230V

Havells Noida 415V /230V

Philips Lighting Mumbai 415V /230V

Bajaj Electricals Mumbai 415V /230V

Wipro Lighting Mumbai 415V /230V

GE Lighting Mumbai 415V /230V

Crompton Greaves Limited Mumbai 415V /230V

Lighting Fixture Philips Lighting Kolkata

Bajaj Electricals Mumbai

Crompton Greaves Limited Mumbai

GE Lighting Bangalore

Pyrotech Udaipur

Insta Power Roorkee

Wipro Lighting Pune

Please find the attached approved vendor list for Panel and Technical Standard Specification for the LV Switchgear

Special Notes:-

Lighting Point wiring shall be done with PVC FR insulated 2.5 sq.mm stranded copper wire instead of 1.5 sq. mm wire as indicated item in BOQ.

All cables shall be FRLS type and provided with anti-rodent treatment. Add FRLS type in BOQ spec for Cables.

The incomer of Lighting panel shall be provided with TPN MCB with ELCB (30mA) and each outgoing circuits shall be provided with single pole MCB. ELCB is mandatory to meet statutory requirement for human safety against electric shocks.

The lighting fixtures, receptacles (6A/16A), switch, conduits and junction boxes will be properly earthed using copper wire of 14 SWG (2 sq. mm).

Cable trays should be properly earthed.

For panel design and manufacturing, it is recommended to allocate 20% additional spare feeder outgoing to accommodate future expansions and modifications.

Supplier of Lighting DB & lighting fixtures should be Tata Power's approved vendor (refer below list).

Item Description	Make/ Manufacturer		Technical Specification
Lightning DB's	L&T	Ahmednagar	415V /230V
	MDS	Andheri, Mumbai	415V /230V
	Control & Switchgear	New Delhi	415V /230V
	Havells	Noida	415V /230V
	Philips Lighting	Mumbai	415V /230V
	Bajaj Electricals	Mumbai	415V /230V
	Wipro Lighting	Mumbai	415V /230V
	GE Lighting	Mumbai	415V /230V
	Crompton Greaves Limited	Mumbai	415V /230V
Lighting Fixture	Philips Lighting	Kolkata	
	Bajaj Electricals	Mumbai	
	Crompton Greaves Limited	Mumbai	
	GE Lighting	Bangalore	
	Pyrotech	Udaipur	
	Insta Power	Roorkee	
	Wipro Lighting	Pune	
1.1 kV Power Cables & LT Power Cables	KEC International	Vadodara	up to 1.1KV
	Universal Cables Limited	Satna, MP	up to 1.1KV
	Finolex	Pune	up to 1.1KV
	Nicco Corporation Limited	Kolkata	up to 1.1KV
	Polycab	Silvassa, Vapi	up to 1.1KV
	Ravin Cables	Pune	up to 1.1KV
	Gemscab Industries	Alwar, Rajasthan	up to 1.1KV
	APAR Industries	Umbergaon, Valsad	up to 1.1KV
	Gupta Cables.	Kashipur, New Delhi	up to 1.1KV
	Dynamic cables	Unit IV, Reengus, Jaipur	up to 1.1KV
	KEI Cables	Bhiwadi, RJ	up to 1.1KV
	CCI	Nashik	up to 1.1KV
	Suyog cables	Vadodara	up to 1.1KV
	Paramount	Noida	up to 1.1KV
	K C Powertracks	Silvassa	up to 1.1KV
	Diamond Power infrastructure Limited	Halol Vadodara	up to 1.1KV
	Ultracab cables	Rajkot	up to 1.1KV
	Special Cables	Rudrapur	up to 1.1KV
	Havells	Bhiwadi, RJ	up to 1.1KV
Torrent Cables	Nadiad	up to 1.1KV	

Chandresh Cables (AVOCAB)	Gandhinagar	up to 1.1KV
Cords Cables Industries Ltd.	Bhiwadi, RJ	up to 1.1KV
Torrent	Nadiad	up to 1.1KV
Zenium	Silvassa, Vapi	up to 1.1KV

LV Switchgear Panel Components

Sr No.	Product / Material description	Manufacturer Name	Factory Location	Range / Type/ Size/ Rating
1	LT ACB	C&S	New Delhi	2000A, 50KA
		L&T	Ahmednagar	
		Schnedier	Vadodara	
		GE	Chennai	
		ABB	Vadodara	
		Siemens	Mumbai	
		HPL		2000A, 50KA
		Havells		2000A, 50KA
2	MCB/ MCCB / MPCB/ RCCB	Siemens		
		MDS		
		GE		
		L&T		
		Indo Asian		
		C&S		
		Schneider		
		ABB		
3	Relays.	L&T	Hosur	110V/220V DC
		Easun Reyrolle	Bangalore	110V/220V DC
		GE	Bangalore	110V/220V DC
		Alstom	Chennai	110V/220V DC
		ABB	Bangalore	110V/220V DC
		Siemens	Kalwa, Mumbai	110V/220V DC
5	Interposing Relays (For Command Output To MCC)	Alstom	Chennai	upto 220V AC/DC
		Omron	Mumbai	upto 220V AC/DC
		Jyoti	Pune	upto 220V AC/DC
		National	Ireland	upto 220V AC/DC
		OEN	Bangalore	upto 220V AC/DC
6	LT Fuses (HRC)	Siemens		
		L&T		
		GE		
		ABB		
		Schneider		
		HPL		
		Eaton		
		C&S		
7	Timer	Siemens		
		BCH		
		L&T		
		Schneider		
8	Push Buttons	Siemens		
		L&T		
		BCH		
		Schneider		
		Binay		
		Kaycee		
		Tecnic		
		GE		
9	LED indicating lamps	Schneider		
		GE		
		BCH		
		Binay		
		Tecnic		
		L&T		
		C&S		
10	Selector Switches & Control Switches	Siemens		
		Kaycee		
		L&T		
		Schneider		
11	SFU	Siemens		
		C&S		
		HPL		
		ABB		
		L&T		
		Schneider		
		GE		

		Connectwell	Type CDTTS, CBDT4U & CDTTU, 1100Volts Rated	
12	Terminal Block	Elmex		
		Phoenix Contact		TB4 EI
		DAV industries	Mumbai	4SF, 1000volts
13	Finolex flexible fires	Finolex cables ltd.	Pune	1.1KV, 1.5 sqmm.
		Techno flex cables	Thane	
		NEC wires & cables	Noida	
		RR Kabel		
14	Gasket	Dirak	Bengaluru	20x5-neoprene
		R. k. Profiles	Ghaziabad	20x5, 20x10 -neoprene
		Perfect Rubber Industries	Mumbai	20x5 & 20x 1.6
15	CTs	Newtek electricals	Aurangabad	
		Indcoil transformers pvt.ltd.	Thane	
		Siemens		
		Satec Powerful solutions		1000/1
		Pragati Electricals	Thane	3200/5
		Reco Transformers	Lonavala	
16	VAF+PF Meter	L & T		
		Elmeasure	Coimbatore	
17	SS/CRCA sheet	AM/NS india	Surat	1.6, 2.0, 3.0mm
		POSCO Maharashtra steel		
		JSW steel		
		TATA Steel	Jamshedpur	
18	Aluminium Busbar	Jindal Aluminium Ltd.		
		Banco Aluminium Ltd.	Vadodara	
19	Copper Busbar	Metallonics Global LLP	Nashik	
		S. metal industries		
		Supertech Conductors	Nashik	80X10 MM
20	Thermostat	APT		
21	Space heater	Girish Co.		
22	PTs	Precise		
		Satec Powerful solutions		
23	Transducers	AE		
		Rishabh Instruments Pvt.Ltd.	Nashik	
24	Annunciators	Alan electronic system		
25	Analog & digital meter	Rishabh Instruments Pvt.Ltd.	Nashik	
		AE		
26	Toggle switch	Kaycee		
27	FRP sheet	ARC insulation & insulators		

EXTRA
5/15A, 230V, 1P+N+E
AFFL-1200mm (SW/SOCK)

FOR ITEM - PREPARATION AREA
16T063A, 415V, 3P+N+E
AFFL-1800mm (SW/MCB)
AFFL-1200mm (SOCK)
w/MOTOR STARTER

FOR ITEM - PREPARATION AREA
16T063A, 415V, 3P+N+E
AFFL-1800mm (SW/MCB)
AFFL-1200mm (SOCK)
w/MOTOR STARTER

FOR ITEM - PREPARATION AREA
16T063A, 415V, 3P+N+E
AFFL-1800mm (SW/MCB)
AFFL-1200mm (SOCK)
w/MOTOR STARTER

FOR ITEM 2 Door Fridge & Idli , Veg Cutting
5/15A, 230V, 1P+N+E
AFFL-1800mm (SWITCH)
AFFL-2200mm (SOCKET)

EXTRA
5/15A, 230V, 1P+N+E
AFFL-1200mm (SW/SOCK)

EXTRA
5/15A, 230V, 1P+N+E
AFFL-1200mm (SW/SOCK)

FOR ITEM WATER GYSER
5/15A, 230V, 1P+N+E
AFFL-1800mm (SWITCH)
AFFL-2200mm (SOCKET)

EXTRA
5/15A, 230V, 1P+N+E
AFFL-1200mm (SW/SOCK)

FOR ITEM - CHAPATTI MACHINE
16T063A, 415V, 3P+N+E
AFFL-1800mm (SW/MCB)
AFFL-1200mm (SOCK)
w/MOTOR STARTER

EXTRA
5/15A, 230V, 1P+N+E
AFFL-1200mm (SW/SOCK)

EXH. HOOD LTG.
20A, 230V, 1P+N+E
AFFL-1200mm (SW/MCB)
AFFL-1200mm (SOCK)

EXH. HOOD LTG.
20A, 230V, 1P+N+E
AFFL-1200mm (SW/MCB)
AFFL-1200mm (SOCK)

FOR ITEM VEG CUTTING MACHINE
5/15A, 230V, 1P+N+E
AFFL-1200mm (SW/SOCK)

EXHAUST BLOWER
—A, 415V, 3P+N+E
AFFL-1800mm (P.B.STN.)
MOTOR STARTER IN PANEL

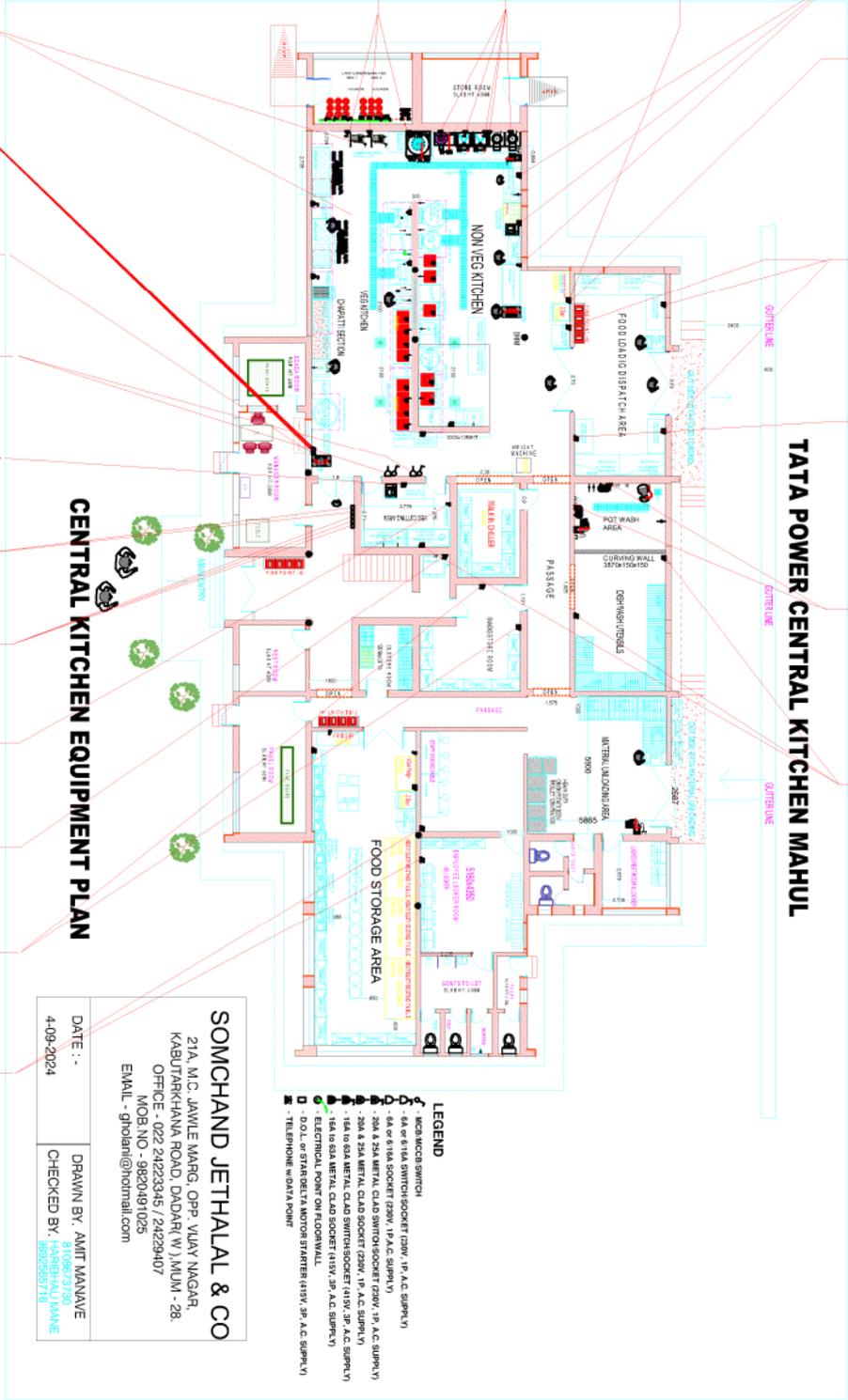
FRESH AIR BLOWER
—A, 415V, 3P+N+E
AFFL-1800mm (P.B.STN.)
MOTOR STARTER IN PANEL

FOR ITEM AC
5/15A, 230V, 1P+N+E
AFFL-1200mm (SW/SOCK)
AFFL-2200mm (SOCK)

FOR ITEM WATER CLR & PURIFIER
5/15A, 230V, 1P+N+E
AFFL-1200mm (SW/SOCK)

FOR ITEM SNACK STORE
5/15A, 230V, 1P+N+E
AFFL-1200mm (SW/SOCK)

EXTRA
5/15A, 230V, 1P+N+E
AFFL-1200mm (SW/SOCK)



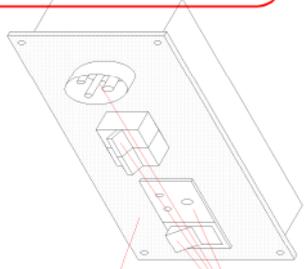
TATA POWER CENTRAL KITCHEN MAHUL

CENTRAL KITCHEN EQUIPMENT PLAN

- LEGEND**
- ⊕ MCB/MCB SWITCH
 - ⊕ 6A or 15A SOCKET (230V, 1P, A.C. SUPPLY)
 - ⊕ 20A & 25A METAL CLAD SWITCH(SOCKET) (230V, 1P, A.C. SUPPLY)
 - ⊕ 20A & 25A METAL CLAD SOCKET (230V, 1P, A.C. SUPPLY)
 - ⊕ 15A to 63A METAL CLAD SWITCH(SOCKET) (415V, 3P, A.C. SUPPLY)
 - ⊕ 15A to 63A METAL CLAD SOCKET (415V, 3P, A.C. SUPPLY)
 - ⊕ ELECTRICAL POINT ON FLOORWALL
 - ⊕ D.O.L. or STAR DELTA MOTOR STARTER (415V, 3P, A.C. SUPPLY)
 - ⊕ TELEPHONE W/DATA POINT

SOMCHAND JETHALAL & CO
21A, M.C. JAWLE MARG, OPP. VIJAY NAGAR,
KABUTARKHANA ROAD, DADAR (W), MUM - 28
OFFICE - 022 24223345 / 24223407
MOB.NO - 9820491023
EMAIL - ghodanji@hotmail.com

DATE :- 4-09-2024
DRAWN BY: AMIT MANAVE
CHECKED BY: GHODANJI MANAVE



SWITCH/MCB-SOCKETS
(CONCEALED)

REMOVABLE TYPE S.S. COVER PLATE
(16 SWG THK.) - BRUSH FINISHED
W/S.S. SCREW

ELECTRICAL LAYOUT

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
<u>Project /AMC Manager(R7)</u>						
Site In Charge						
Safety Manager						
Safety Officer						
Supervisors						
Technicians						
High Skilled workmen						
Skilled workmen						
Semiskilled workmen						
Lineman						
Helpers						
Drivers						
Unskilled						
<u>Others(R7)</u>						

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

4.0.1 **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
- 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.

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

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.

Ref No: CC26PMR016 Electrical Works for Central Kitchen at Trombay, Chembur, Mumbai	TATA POWER COMPANY LIMITED	
	SPECIAL CONDITIONS OF CONTRACT	Sheet 1 of 4

Sr. No.	TOPIC	PRINCIPLES OF TERMS & CONDITIONS
1	GENERAL	The Tata Power Company Limited (TPCL) invites sealed bid through Ariba online system for: “ ELECTRICAL WORKS FOR CENTRAL KITCHEN AT TROMBAY, CHEMBUR, MUMBAI. ” The following Special Conditions of Contract (SCC) shall supplement the General Terms and Conditions. Wherever there is a conflict, the provisions herein shall prevail over those in the "General Terms and Conditions" (GTC).
2.	BRIEF SCOPE OF TENDER	Brief scope includes electrical works for development of Central Kitchen at Trombay which covers complete wiring, associated connections and replacement of switch /socket for new equipments installed at kitchen along with changing of internal switch gear panel. Detailed scope shall be as per BOQ/ Scope/ Drawing/ Layout attached with RFQ.
3.	BID VALIDITY	The Bid Price shall remain valid for a period of 180 days reckoned from the date of opening of the bids.
4.	CONTRACT PRICE AND CONTRACT STRUCTURE	Prices to be quoted strictly as per the attached Price Schedule. This shall be Unit Rate Contract with unit rates remaining firm and fixed till tenancy of contract. Payment will be done based on the actual executed quantities duly certified by Order Manager. All supplies shall be on DAP site basis.
5.	TAXES AND DUTIES	All indirect taxes, duties, levies including entry/local municipal taxes if any etc. in relation to the execution of this Contract shall be included by the Contractor in the quoted price. Only GST shall be payable extra by the Owner as per the Price Schedule.
6.	EFFECTIVE DATE/CONTRACT PERIOD / DELIVERY SCHEDULE	Effective Date (ED) of the contract shall be from the date of issue of Letter of Award (LoA)/ Purchase Order (PO) whichever is earlier. The entire works as per the scope shall be completed within 90 days from ED.
7.	LIQUIDATED DAMAGES FOR DELAYS	In case of delay beyond agreed completion schedule, LD shall be applicable at the rate of 1% of contract value per week or part thereof delay beyond the completion schedule subject to maximum cap of 10% of contract value.
8.	TERMS OF PAYMENT	Monthly Running Account (RA) bill shall be paid for the executed quantities duly certified by Order Manager. All invoices shall be payable within 60 days (45 days for MSME) against receipt of error-free and commercially clear invoice. All payments shall be subject to deduction of LD charges, TDS as applicable.
9.	CONTRACT PERFORMANCE BANK GUARANTEE	Contractor shall submit within 15 days of the Effective Date an unconditional and irrevocable Bank Guarantee (CPBG) payable on demand strictly as per prescribed format of Owner for a sum equivalent to 10% of the basic Contract Value, valid till expiry of warranty/ defect liability period and having a claim period of 6 months beyond the expiry date.

Ref No: CC26PMR016 Electrical Works for Central Kitchen at Trombay, Chembur, Mumbai	TATA POWER COMPANY LIMITED	
	SPECIAL CONDITIONS OF CONTRACT	Sheet 2 of 4

		An amount equivalent to CPBG shall be retained from Contractor's bills payable till CPBG is submitted by Contractor.
10.	WARRANTY / DEFECT LIABILITY WORK	<ul style="list-style-type: none"> Defect Liability Period (DLP) shall be for 12 (Twelve) months from the date of issuance of completion certificate issued by the Owner/Order Manager to the Contractor for the respective Works. Defects if any observed during the Defect Liability Period shall be rectified by the Contractor free of cost failing which Tata Power may get the same rectified by any third party and recover all such costs plus overhead from the Contractors. Warranty period for components/ items mentioned in Scope/ BOQ/ Technical specifications shall be min. 1 year from date of takeover by Owner/ Order Manager For components/ items specified for longer warranties in the Scope/ BOQ/ Technical specifications than those stated above, the period of guarantee shall be as per the Scope/ BOQ/ Technical specifications.
10.	CONTRACTOR ALL RISK INSURANCE FOR SITE WORKS	Bidder shall take all necessary insurances of adequate sums (however not less than 110% of Contract Price) to cover all its manpower / material / resources including 3rd party general liability insurance / workmen compensation policy as applicable. In the event of any loss or damages or any accident etc., Bidder shall make all claims directly with his insurer. Any difference between the claims settled and the actual value of loss shall be borne by Bidder. Bidder will bear the additional costs for replacements if any and ensure timely delivery as mutually agreed. Owner shall not be responsible for any loss or damage whether by accident or otherwise to equipment or material or to any personnel of Bidder.
12.	ACCEPTANCE ON PF & ESI & OTHER STATUTORY COMPLIANCES:	<p>Bidder shall have the PF & ESI registration and shall comply with all statutory requirements and submit documentary evidence towards the same. This shall include monthly wages register, PF & ESI challans for demonstrating compliance for minimum wages, PF & ESI for each individual employee in accordance with the wage register. The compliance statement with supporting challans will be submitted every month as per the timelines prescribed by Owner. PF, ESI & other statutory compliance of the previous month must be attached with the Invoice of any given month for release of service payments.</p> <p>The Bidder shall comply to the requirements stated under Vendor Declaration Compliances Form (V12) attached as Volume F7 pertaining to guidelines of the Central Electricity Authority and provide the undertaking as per the form prescribed therein towards the statutory compliances / site operating procedures compliances.</p> <p>Bidder confirmed to also provide medical report for all his employee at the time of joining without any cost to Owner.</p>

Ref No: CC26PMR016 Electrical Works for Central Kitchen at Trombay, Chembur, Mumbai	TATA POWER COMPANY LIMITED	
	SPECIAL CONDITIONS OF CONTRACT	Sheet 3 of 4

13.	LODGING, BOARDING, TRAVEL AND LOCAL CONVEYANCES:	Prices shall be inclusive of boarding & lodging, travel costs, local conveyances of any nature and no separate payment on any of these accounts admissible. Bidder shall arrange for accommodation of his personnel outside Site premises only (accommodation inside the Site premises shall not be permitted).
14.	SAFETY T&CS	Bidder shall comply with all Safety Terms and Conditions of Tata Power annexed to the tender document and revised time to time. All workers shall undergo TPSDI L1, L2 and L3 training as per Safety terms and condition as per Tata Power terms and condition and cost towards this training shall be included in the quoted prices. These TPSDI trainings are imparted at various Tata Power Skill Development Institutes including one in Trombay. at nominal rates. The current cost and duration of each training are as given in Annexure-I. These rates shall be subject to change at the discretion of TPSDI. No escalation in view of such changes if any on this account shall be payable to contractor.

Ref No: CC26PMR016 Electrical Works for Central Kitchen at Trombay, Chembur, Mumbai	TATA POWER COMPANY LIMITED	
	SPECIAL CONDITIONS OF CONTRACT	Sheet 4 of 4

Annexure I

Name of Training Program	Applicable to	Training duration	Training Charges	Total Charges /per Person	Validity
SHE-L0 Basic Safety Training	Contractor workers engaged in non-technical works e.g. Housekeeping, Gardening, Pantry, Canteen, driving of passenger vehicle etc.	1 days	Rs 700.00 Per day /per person	Rs. 700/- Per person / per training	3 years
SHE-L1 Basic Safety Training	All contractor workers engaged in technical jobs	2 days	Rs 700.00 Per day /per person	Rs. 1400/- Per person / per training	3 years
SHE-L2 Critical Safety Procedure for relevant procedure	Contractor workers engaged in critical jobs (13 critical work are Work at Height, Work on electrical System, Work in confined space	2 Days	Rs 700.00 Per day /per person	Rs. 1400/- Per person / per training	3 years
SHE-L3 Training for supervisors	All Supervisors working under contractors	2 Days	Rs 700.00 Per day /per person	Rs. 1400/- Per person / per training	3 years
SHE L1/L0 Revalidation Test	All employees of Contractors	Quarterly Online test	Free	Free	3 months

--End of Document--

Price Schedule for Electrical Works for Central Kitchen at Trombay, Chembur, Mumbai (Tender ref: CC26PMR016)

Sr. No.	Work Description	Unit	Quantity	Rate (INR)	Amount (INR)
1	S & I OF GI PERF TRAY- 300MM X50MMX 2MM "Design, Fabrication, Supply& installation incl. all tools and tackles, Unloading, Handling, Installation,Commissioning & Handing Over of of heavy duly hot dipped galvanised (65- 70 Micron as per IS 2629) Perforated type cable trays of followingsizes, suspended from ceiling or fixed vertically on wall / column asper route directed at site, as approved complete as per technicalspecifications, drawings & relevant standards & site conditions.(Tray shall be made out of 2 / 2.5 mm thick sheet, standard length2.5mtr GI coupler plate2.5 mm thick with eight holes and 8 nos. 1 1/2x 3/8 GI pasivated nut bolts with 2 nos plain washers & GI clamp fortray fixing along with GI hard ware.)Note:1) Rate Quoted shall include cold galvanizing paint on welded spots.2) Rate Quoted shall include site fabrication of required Bends,T-Junction, Elbows, X-Junction, Z-Sections, Reducer etc."S & I OF GI PERF TRAY- 300MM X50MMX 2MM	M	55		
2	S&I OF GI PERF TRAY- 150MM X 50MM X 2MM "Design, Fabrication, Supply& installation incl. all tools and tackles, Unloading, Handling, Installation,Commissioning & Handing Over of of heavy duly hot dipped galvanised (65- 70 Micron as per IS 2629) Perforated type cable trays off ollowingsizes, suspended from ceiling or fixed vertically on wall / column asper route directed at site, as approved complete as per technicalspecifications, drawings & relevant standards & site conditions.(Tray shall be made out of 2 / 2.5 mm thick sheet, standard length2.5mtr GI coupler plate2.5 mm thick with eight holes and 8 nos. 1 1/2x 3/8 GI pasivated nut bolts with 2 nos plain washers & GI clamp fortray fixing along with GI hard ware.)Note:1) Rate Quoted shall include cold galvanizing paint on welded spots.2) Rate Quoted shall include site fabrication of required Bends,T-Junction, Elbows, X-Junction, Z-Sections, Reducer etc."S&I OF GI PERF TRAY- 150MM X 50MM X 2MM	M	275		
3	SITC RACEWAY FABRICATED,100MX50MMX2MM Design, Manufacture, Supply& installation incl. all tools and tackles, Unloading, Handling, Installation, Commissioning & Handing Over of under-floor, surface type wire ducts/raceway fabricated from 2mm thick heavy duly hot dipped galvanised, (65 -70 Micron as per IS 2629), with screwed folded covers, coupler plates, screws, partition to segregate wires, slotted metal section to secure wire bunch, PVC "U" gasket to protect wires from sharp edges, standard bends/elbows/ reducers & other accessories etc., 25 mm dia knock-outs on sides at every 500 mm, as per specification for computer power & tel. / data cabling, in following sizes (standard length 1.25m/2.5m).100 mm wide x 50 mm deep - 1 compartment	M	55		
4	S&I 25MM DIA HEAVY DUTY UPVC CONDUIT sizes. Contractor to note that Installation shall include Supply& installation incl. all tools and tackles & installation of bends, tees, couplers, pull boxes, GI pulling wires end caps, sealing bell mouths, JB, sealing of ends, clamping, saddles, spacers, wall plug, screws, bolts, nuts as necessary as required. Installation of concealed conduit includes chipping of wall and plaster of the same after installation of conduit 25 mm dia Heavy Duty UPVC conduit	M	110		
5	S&I 32MM DIA HEAVY DUTY UPVC CONDUIT Supply and installation of Heavy Duty FR UPVC Conduits of following types & sizes. Contractor to note that Installation shall include supply & installation of bends, tees, couplers, pull boxes, GI pulling wires end caps, sealing bell mouths, JB, sealing of ends, clamping, saddles, spacers, wall plug, screws, bolts, nuts as necessary as required. Installation of concealed conduit includes chipping of wall and plaster of the same after installation of conduit32 mm dia Heavy Duty UPVC conduit	M	88		
6	S&I UPVC 20MM FLEXIBLE CONDUIT Supply and installation of Heavy Duty FR UPVC Conduits of following types & sizes. Contractor to note that Installation shall include supply & installation of bends, tees, couplers, pull boxes, GI pulling wires end caps, sealing bell mouths, JB, sealing of ends, clamping, saddles, spacers, wall plug, screws, bolts, nuts as necessary as required. Installation of concealed conduit includes chipping of wall and plaster of the same after installation of conduit20mm Flexible Conduit	M	55		

7	<p>SITC OF 40 MM DIA EARTH ELECTRODES</p> <p>Supply, Unloading, Handling, Installation, Testing, Commissioning of GI Earth Electrodes 40mm Dia., 3m long as per IS 3043.Filled with salt and charcoal mixed with sand in alternate layers 150 mm. each upto a height of 3000mm. from bottom. The pipe shall have provision for watering through a funnel. 40X10 mm GI. STRIP upto CHAMBER, disconnecting links, with 450 x 450 mm (clear) chamber & heavy duty Cast Iron Cover (10 Kg) complete as per para 7.3 of I.S. 3043 shall be used to cover the pit. Excavation, backfilling, removal of excess soil is included in the scope complete as per technical specifications, drawings, relevant standards & site conditions.</p> <p>Note:</p> <p>1) Earthing stations should contain relevant grade of charcoal/coke and salt packed around the earth plate/earth pipe as called for in the item.</p> <p>2) Adequate number of earth strips with proper sized holes shall be provided for extending earthing/looping earth connections at various floors shall be provided and executed as per the requirement.</p> <p>3) All earth pits shall be as per IS 3043 with latest amendments.</p> <p>4) The minimum distance between the two earth station shall be 3 meters and that from the building is 1500 mm.</p>	M	5		
8	<p>CHEMICAL EARTHING,3000LX50MMDIA</p> <p>Supply, Unloading, Handling, Installation, testing & commissioning of Chemical Earthing, Ashlok (Model - T19) or Galaxy (Model - GAL 503) Length 3000mm, 50mm dia electrode, It shall also have provision for connecting 50 x 10 mm. G.I. Flat on two sides. A masonry structure shall be constructed to a depth of 750mm.and with 450 x 450 mm (clear) chamber, and a heavy duty Cast Iron Cover shall be used to cover the pit. Excavation of Hard Rock, Boring, Drilling, backfilling, removal of excess soil/Rock, supply of Back filling compound is included in the scope complete as per technical specifications, drawings, relevant standards & site conditions.</p> <p>Note:</p> <p>1) All earth pits shall be as per IS 3043 with latest amendments.</p> <p>2) Earthing stations should contain relevant grade of BFC packed around the earth earth electrode as called for in the item.</p> <p>3) Earthing shall be done at indicted location by the Consultants. The minimum distance between the two earth station shall be 3 meters and that from the building is 2500 mm. 4) An earth ring with relevant earth test terminal boxes shall to be provided at regular intervals.</p> <p>5) Adequate number of earth strips with proper sized holes shall be provided for extending earthing/looping earth connections at various floors shall be provided and executed as per the requirement. 6) Rate Quoted shall include the 2Bags of (BFC) Back filling compound as required.</p>	M	5		
9	<p>S&I 25X3 MM GI EARTH STRIP</p> <p>Supply & Installation of the following earthing strip along the cable trays or fixing to walls (by using proper size of spacer and saddles) or structures or buried individually in paved /unpaved areas (minor civil work like chipping of paved surface finishing after laying grounding loop, etc. Welding at joints, providing anti-corrosive paint on welded portion, clamping & necessary hardware for connection, excavation & refilling, etc Including provision for risers wherever required as per approved drawings, all labour to be considered in installation work & all other required materials complete as per drawings, specifications of this tender & directions of site in-charge. including earthing Clamps, terminal lugs etc.</p> <p>25 X 6 mm GI strip</p>	m	220		

10	<p>S&I -8 SWG GI WIRE</p> <p>Supply & Installation of the following earthing strip along the cable trays or fixing to walls (by using proper size of spacer and saddles) or structures or buried individually in paved /unpaved areas (minor civil work like chipping of paved surface finishing after laying grounding loop, etc. Welding at joints, providing anti-corrosive paint on welded portion, clamping & necessary hardware for connection, excavation & refilling, etc Including provision for risers wherever required as per approved drawings, all labour to be considered in installation work & all other required materials complete as per drawings, specifications of this tender & directions of site in-charge. including earthing Clamps, terminal lugs etc.</p> <p>8 SWG wire</p>	m	330		
11	<p>TESTING AND COMMISSIONING OF 12 SWG GI WIRE.FOR EARTHING AS DIRECTED BY EIC</p> <p>Supply & Installation of the following earthing strip along the cable trays or fixing to walls (by using proper size of spacer and saddles) or structures or buried individually in paved /unpaved areas (minor civil work like chipping of paved surface finishing after laying grounding loop, etc. Welding at joints, providing anti-corrosive paint on welded portion, clamping & necessary hardware for connection, excavation & refilling, etc Including provision for risers wherever required as per approved drawings, all labour to be considered in installation work & all other required materials complete as per drawings, specifications of this tender & directions of site in-charge. including earthing Clamps, terminal lugs etc. 12 SWG wire</p>	M	220		
12	<p>P&F,SHUTTERED SOCKET,16A 3 PIN</p> <p>Supply, Unloading, Handling, Installation, Testing, Commissioning & Handing Over of the following wiring accessories, complete with recessed/surface type metal / PVC boxes, modular gridplate, faceplate and accessories in walls/partitions as directed by architects/consultants,as per specifications and layout drawings and site conditions & including all accessories as per site conditions to make the system fully operational.Providing and Fixing shuttered Socket 1 no. 16A 3 Pin</p>	Nos	11		
13	<p>SITC 1 NO.16A SP SWITCH</p> <p>SWITCHES & SOCKETS WITH ITS ACCESSORIES (As per Architect selection it may vary) Supply, Handling, Installation, Testing, Commissioning & Handing Over of the following switch, socket and accessories, complete with recessed/surface type with Metal/ PVC boxes, modular grid plate, face plate and accessories in walls/partitions as directed by architects/consultants/as per specifications and layout drawings. Including all accessories as per site conditions to make the system fully operational. (Make: Legrand, Schneider)16A SP Switch, make:- Legrand Myrius(6730 08)</p>	Nos	11		
14	<p>SITC 1 NO.16A SP SWITCH</p> <p>Supply, Handling, Installation, Testing, Commissioning & Handing Over of the following switch, socket and accessories, complete with recessed/surface type with Metal/ PVC boxes, modular grid plate, face plate and accessories in walls/partitions as directed by architects/consultants/as per specifications and layout drawings. Including all accessories as per site conditions to make the system fully operational. (Make: Legrand, Schneider) set of 1 no. 6/16A 3 Pin shuttered socket with 1 no. 16A switch. make:- Legrand Myrius(6731 42)</p>	Nos	35		
15	<p>SITC,SOCKET,SHUTTERED,6A,5PINX1,SWITCH6A</p> <p>SWITCHES & SOCKETS WITH ITS ACCESSORIES (As per Architect selection it may vary) Supply, Handling, Installation, Testing, Commissioning & Handing Over of the following switch, socket and accessories, complete with recessed/surface type with Metal/ PVC boxes, modular grid plate, face plate and accessories in walls/partitions as directed by architects/consultants/as per specifications and layout drawings. Including all accessories as per site conditions to make the system fully operational. (Make: Legrand, Schneider) set of 1 no. 6A 5 Pin shuttered socket with 1 no. 6A switch.</p>	Nos	28		

16	SITC SET OF 1NOS 6A SP SWITCHES SWITCHES & SOCKETS WITH ITS ACCESSORIES (As per Architect selection it may vary)Supply, Handling, Installation, Testing, Commissioning & Handing Over of the following switch, socket and accessories, complete with recessed/surface type with Metal/ PVC boxes, modular grid plate, face plate and accessories in walls/partitions as directed by architects/consultants/as per specifications and layout drawings. Including all accessories as per site conditions to make the system fully operational. (Make: Legrand, Schneider)set of (1 no. 6A SP Switches)	Nos	6		
17	SITC 2 NO. OF 6A SP SWITCH Supply, Unloading, Handling, Installation, Testing, Commissioning & Handing Over of the following wiring accessories, complete with recessed/surface type metal boxes, modular gridplate, faceplate and accessories in walls/partitions as directed by architects/consultants,as per specifications and layout drawings and site conditions & including all accessories as per site conditions to make the system fully operational. (Make Schneider Opal Series or equivalent or as Approved by Architect.)2 no. of 6A SP Switch set of (2 no. 6A SP Switches) Legrand Myrius(6730 00)	Nos	11		
18	SITC 25A,230V,50HZ,3PIN SWITCH SOCKET SWITCHES & SOCKETS WITH ITS ACCESSORIES (As per Architect selection it may vary)Supply, Handling, Installation, Testing, Commissioning & Handing Over of the following switch, socket and accessories, complete with recessed/surface type with Metal/ PVC boxes, modular grid plate, face plate and accessories in walls/partitions as directed by architects/consultants/as per specifications and layout drawings. Including all accessories as per site conditions to make the system fully operational. (Make: Legrand, Schneider)25Amp,230V, 50Hz, 3pin, Switch Socket.(For Air conditioning Unit). Legrand Myrius(6730 47 +673015)	Nos	22		
19	SITC 32A,3P+E+N INDUSTRIAL SOCKET it may vary) Supply, Handling, Installation, Testing, Commissioning & Handing Over of the ollowing switch, socket and accessories, complete with recessed/surface type with Metal/ PVC boxes, modular grid plate, face plate and accessories in walls/partitions as directed by architects/consultants/as per specifications and layout drawings. Including all accessories as per site conditions to make the system fully operational. (Make: Legrand, Schneider) Supply and installation of 32Amp,230V, 50Hz, 3pin, non-metallic Surface mount Secure Socket (IP66/67).(For IT Rack). Legrand Cat. No. 055327	Nos	9		
20	SITC,IND PLUG&SOCKET,NON-METAL,32A,SPN Supply and installation of 32Amp,230V, 50Hz, 3pin, non-metallic type industrial Plug and socket outlet (IP65) interlock with 32Amp, SPN/DP MCB and with surface mounted box / Conciled box including all necessary accessories.(For Maintenance Purpose) Legrand Cat No. 56669	Nos	7		
21	SITC LIGHT POINT WIR. 2X2.5MM2+1X2.5MM2 LIGHTING / POWER POINT WIRING INSTALLATION Supply, Handling, Installation, Testing, Commissioning & Hand over of FRLS ISI marked PVC insulated multistranded copper wire in 25mm dia FR UPVC HEAVY DUTY conduit. it also includes cost of conduits, surface type on the slab ceiling, recessed in wall/partitions, complete with all conduit accessories, Ceilingrose or brass light holder as directed by architects/consultants, as per specifications and layout drawings and site conditions. 2 X 2.5 sq. mm + 1 X 2.5 sq. mm wire	M	1980		
23	PWR CKT LAY 2X4.0+1X2.5MM2 CU WIRE LIGHTING / POWER POINT WIRING INSTALLATION Supply, Handling, Installation, Testing, Commissioning & Hand over of FRLS ISI marked PVC insulated multistranded copper wire in 25mm dia FR UPVC HEAVY DUTY conduit. it also includes cost of conduits, surface type on the slab ceiling, recessed in wall/partitions, complete with all conduit accessories, Ceiling rose or brass light holder as directed by architects/consultants, as per specifications and layout drawings and site conditions. 2 X 4 sq. mm + 1 X 2.5 sq. mm wire	M	440		

24	<p>INSTALLATION OF LIGHT FIXTURES LIGHTING FIXTURES (INTERNAL/EXTERNAL) - (Free Issue) Unloading, Handling, Shifting, Installation, testing & commissioning of Free Issued following surface / recessed type/ down light / spot light / Hanging LED lighting fixtures complete & driver with other accessories for Luminaire, all fixing accessories such as down-rope, hanger rope, dog chain of 1.2mtr length etc. as directed by architects/lightning consultants, as per specifications and layout drawings and site conditions & including all fixing accessories as per site conditions to make the system fully operational.</p>	Nos	88		
25	<p>S&I ANTISKID RUBBER MAT 900MM WIDE,1.1KV Supply, Unloading, Handling, & Installation of 900 mm wide, 1.1kV grade, anti skid rubber mat, ISI approved and of reputed make to be spread in front of the 415 V switchgear panels / DBs etc.</p>	M	11		
26	<p>SUP& INST OF DANGER BOARDS,415V & 11000V supply and fixing in position the best quality danger boards (415 V) of approved shape and size (6" X 4") as specified by the local electrical authorities written in English, Hindi and in local Language</p>	Nos	2		
27	<p>CHRG EXCAVATION F/CBL LAYING up to 600X600 MM Excavation in soft soil for directly buried LT cables including leveling bottom of the excavated trench; back filling the trench with loose earth over the laid cables, consolidation of the loose earth and finishing the top; removal of surplus earth away from the work site and cable identifications. All work and labour complete as per Specifications, codes and standards and directions of consultant/Client. This shall also be inclusive of laying of Sand bed and Brick layer for LV cable over the laid cable for mechanical protection and cable marker as per directions of EIC up to 600mm (W) x 600mm (D)</p>	Cum	66		
28	<p>Point Wiring</p> <p>Supply & Installation of concealed point wiring using 3 x 1.5 sq.mm size FRLS grade PVC insulated multistanded flexible copper wires (with proper R,Y,B,Bk,G color code) pulled through haevy gauge PVC conduits, with all necessary accessories, exposed in slab with fixing on G.I. spacers fixed with nettle fold wood screws with nylon plug complete with all conduit accessories G.I. saddles, PVC Sockets, Elbows, Bend, Junction Boxes Etc. Below false ceiling consealed wiring to be done, which also includes GI Gang box, modular Top Plate of suitable for modular type switches, Sockets, Regulators, & other accessories including 1.00 / 1.5 sq.mm Green coloured PVC insulated copper earth continuity conductor, including switches, sockets, Fan Regulator, Tel. Jack, TV Jack, Dummy Plates etc./ lamp holders, 3 plate ceiling rose / 3 core flexible copper chords, connectors, painting etc. as per instructions of Consultants / Architects. (The Cost of Lighting circuit, using 1.1 KV grade 3 x 2.5 sq.mm size FRLS PVC insulated multistanded flexible copper wires (with proper R,Y,B,Bk,G color code) pulled through heavy gauge PVC conduits, with all necessary accessories should be included in the cost of Point wiring)</p> <p>2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire</p> <p>2 X 4 sq. mm + 1 X 4 sq. mm earth wire</p> <p>2 X 6 sq. mm + 1 X 6 sq. mm earth wire</p> <p>4 X 4 sq. mm + 2 X 4 sq. mm earth wire</p> <p>4 X 6 sq. mm + 2 X 6 sq. mm earth wire</p> <p>4 X 10 sq. mm + 2 X 10 sq. mm earth wire</p>				
29	<p>Ceiling Fan points</p> <p>Ceiling Fan operated on seperate switch shall be Controlled by 2 Module, Step type Fan regulartor, Rate should be including the cost of Fan hook, Suspending suitable fan rod, Connecting cord and Step type Fan Regulator</p>	Nos	11		
30	<p>Eaust Fan Point</p> <p>Exhaust fan point consisting of 5A socket near fan and switch on light switch board Each Exhaust Fan operated on seperate switch, Rate should be including the cost of 5 A 3 pin Plug top, Connecting cord and Mounting Plates</p>	Nos	6		
31	<p>LED SQUARE LIGHT FITTING 600 X 600MM</p> <p>36 w LED Panel of 600mm X 600mm size, Square , Powder coated Recess mounting LED Light Fitting Make : Philips, Model : RC380B G2 LED28S / RC380B G2 LED35S-6500 PSU OD WH Make : Wipro, Model : CRCO10R038HP57 38 w Make : Havells, Model : LHHEBP7CUL1W034 6000k</p>	Nos	88		

32	LED 22w 1200mm				
	Supplying & Installing following mentioned lighting fixtures as per the details given below including necessary hardware such as clamps,nuts, bolts, nails, screws and suspension chains as required for fixing the fixtures in position as directed by architect / Consultant. 1200mm Long Surface / Wall Mounted, 22 w LED Tube light fixture having white end caps, complete : Philips, Crompton, Wipro, Model : BRP020, 22w Philips make	Nos	55		
33	MCCB				
	Unit rate of 415V, 200A, Moulded case circuit breaker with Thermal magnetic overload suitable for DB mountin - Rated Current: 200A- Poles: 3 (for 3-phase system) - Breaking Capacity: 25kA or higher (adjustable) - Thermal and Magnetic Trip Settings - Brand: Schneider, Siemens, ABB, or equivalent complete with connection, testing & commissioning etc. as required.	Nos	3		
34	MCB				
	Unit rate of 240V/415V, 'C' Curve, 10kA, Miniature circuit breaker suitable for DB mounting complete with connection, testing & commissioning etc. as required				
	10A SP MCB	Nos	11		
	16A/20A SP MCB	Nos	9		
	32A SP MCB	Nos	3		
	10A DP MCB	Nos	7		
	16A/20A DP MCB	Nos	5		
	32A DP MCB	Nos	3		
	63A DP MCB	Nos	3		
	10A TP MCB	Nos	2		
	16A/20A TP MCB	Nos	5		
	25A FP MCB	Nos	3		
	32A 4P MCB	Nos	3		
	63A 4P MCB	Nos	2		
35	Earth Leakage circuit Breaker / Residual Current circuit Breaker with 100mA Sensitivity				
	16Amp. 2Pole ELCB	Nos	2		
	25Amp. 2Pole ELCB	Nos	2		
	40Amp. 2Pole ELCB	Nos	2		
	16Amp. 4Pole ELCB	Nos	3		
	25Amp. 4Pole ELCB	Nos	3		
	40Amp. 4Pole ELCB	Nos	2		
	63Amp. 4Pole ELCB	Nos	2		
	with 30mA Sensitivity				
	16Amp. 2Pole ELCB	Nos	11		
	25Amp. 2Pole ELCB	Nos	6		
	40Amp. 2Pole ELCB	Nos	2		
	40Amp. 4Pole ELCB	Nos	2		
	63Amp. 4Pole ELCB	Nos	2		
36	Supply and Laying of Cables				
	Supply, Laying of cables on cable trays, structural supports and cable supports provided, include unloading, shifting upto site. The scope includes clamping of cables by ready made G.I. spacers, saddles or clamps fabricated out of M.S. strip 3 mm thick, Treasing and Clamping of Cable on cable tray, supply of all clamping materials and hardware etc., providing cable tags made out of aluminium strip and 75x20 mm in size with cable number and size punched on it. Cable tags shall be tied to cables at every 10 meter interval and at both the ends. All cables shall be of CU. FRLSZH category				
	6C x 1.5 Sq.mm Cu. FRLSZH Cable	M	110		
	6C x 2.5 Sq.mm Cu. FRLSZH Cable	M	132		
	3C x 2.5 Sq.mm Cu. FRLSZH Cable	M	110		
	3C x 4 Sq.mm Cu. FRLSZH Cable	M	110		
	3C x 6 Sq.mm Cu. FRLSZH Cable	M	132		
	3C x 10 Sq.mm Cu. FRLSZH Cable	M	66		
	3C x 16 Sq.mm Cu. FRLSZH Cable	M	55		
	4C x 2.5 Sq.mm Cu.FRLSZH Cable	M	110		
	4C x 4.0 Sq.mm Cu. FRLSZH Cable	M	88		
	4C x 6.0 Sq.mm Cu. FRLSZH Cable	M	110		
	4C x 10 Sq.mm Cu. FRLSZH Cable	M	11		
	4C x 16 Sq.mm Cu. FRLSZH Cable	M	11		
	4C x 25 Sq.mm Cu. FRLSZH Cable	M	11		
A	DISTRIBUTION BOARDS				
	Design, Supply, Unloading, Handling, Shifting, Installation, testing at site, Commissioning & Handing Over of surface type / concealed in				

	wall, surface mounted, or mounted on iron angle frame- work, front operated, Distribution Boards including transportation by contractors own lifting & transportation arrangement. Suitable for use on 415Volts 3-phase, 4wire, 50Hz system, housed with incoming and outgoing feeders, busbar, interconnections etc. Complete as per technical specifications, schematic drawing, relevant standards & including all accessories, aligning, and levelling, grouting, assembly of loose parts supplied by OEM as per site conditions to make the system fully operational.				
1	(TPN) THREE PHASE POWER DISTRIBUTION BOARD				
1.1	Supply & INST PANEL- Incomer -600Amp FP MCCB with built in thermal magnetic release unit for short circuit, over current, earth fault with adjustable setting as per specifications with terminal suitable for cable connection at incomer end 2 nosx 240 sqmm Al armoured and outgoing end 4 Nosx 4Cx95 sqmm Al armoured cable. O/G- 200 Amp FP MCCB =2Nos with same provision of protection given at incomer end suitable for 200 A ,63Amp FP MCCB =3Nos DISTRIBUTION PANEL (Schneider/Bharat/L&T)	Nos	1		
1.1A	600 A FP MCCB with enclosure	Nos	2		
1.2	Supply & INST Indoor / Outdoor feeder pillar/ Distribution Board -I/C 200Amp MCCB and O/G 125 Amp MCCB - 2nos and 63 A FP MCB - 3 nos.(for MCCB -with built in thermal magnetic release unit for short circuit, over current ,earth fault with adjustable setting as per specifications with terminal suitable for cable connection at incomer end 1 nosx 4CX95 sqmm Al armoured).Also provion of 3 nos 16 A DPMCB+30 mA ELCB with secure (3pin socket+plug- IP44)+ 1 Nos 63 A FPMCB+ 30 mA ELCB with secure(5 pin socket+plug - IP44) Panel Tentative Size: (1200mm x 450mm x 1800mm) (Schneider/Bharat/L&T) Wt : 100 - 350 Kg.	Nos	1		
1.3	3 Row 12 WAY TPN LIGHTING & POWER DIST. BOARD - Make (Schneider/ABB/Legrand) Incomer: 63 Amp. MCB 4P Sub incomer per phase 1 No. 63Amp DP MCB & 30ma ELCB. Outgoings: 6 Nos.10Amps + 6 Nos 16 Amp SP MCB per Phase. Neutral Links: i) Main Neutral link -100Amp rating. 3 Nos. NL for R/Y/B phase. Earthing Link (Schneider/ABB)	Nos	4		
B	Termination				
	Design, Supply, Unloading, Handling, Shifting, Installation, Testing at site, Commissioning & Handing Over of Double Compression Nickel Plated Cable Glands of Commet make & Cable terminations (Tinned Copper / Aluminium Lugs of Dowells make) for XLPE/PVC insulated, XLPE/PVC sheathed, 1100 V, armoured/unarmoured power cables including stripping of cable insulation, Drilling of gland plate, Clamping of cable cones, Ferrules etc.complete as per technical specifications, drawings, relevant standards and site conditions. Note: 1) Wherever the Aluminium cables are terminated on Copper Bus or visa versa, suitable size bimetalic washer shall be used. 2) Rate Quoted shall include the cost of Bimetalic washer.				
1	2.1 4C x 240 SQ MM AL XLPE Armoured Cable.	Nos	45		
2	2.2 4C x 95 SQ MM AL XLPE Armoured Cable.	Nos	9		
3	2.3 4C x 25 SQ MM AL XLPE Armoured Cable.	Nos	5		
4	2.4 1CX 185 sqmm copper flexible cable.	Nos	18		
C	(TPN) THREE PHASE POWER DISTRIBUTION BOARD	Nos	1		
	800A 4P 36kA MCCB with Microprocessor Release MTX2.0 & iTRP3 - 1No. Extended rotary handle for 800A - 1No. Spreaders (Set of 4) 4P for 800A - 2Sets. Red (Red Lens) 22.5mm Indicating Lamp with Integral LED, Voltage: 230V AC - 2Nos. Yellow (Yellow Lens) 22.5mm Indicating Lamp with Integral LED, Voltage: 230VAC - 1No. Blue (Blue Lens) 22.5mm Indicating Lamp with Integral LED, Voltage: 230V AC - 1No. Green (Green Lens) 22.5mm Indicating Lamp with Integral LED, Voltage: 230VAC - 1No. Amber (Amber Lens) 22.5mm Indicating Lamp with Integral LED, Voltage: 230V AC - 1No. 800/5A Acc.Cl: 1 10VA Resin Cast Ring Type Current Transformer, Round - 3nos. Load Manager with RS 485 Port, Parameters: V, I, Hz, Kw, Kwh, PF, KVA, KVAh, KVAR, KVARh, ON Hrs, load RUN Hrs., Acc. CL: 1, Voltage: 48-277V AC/ 48-277V DC, Size: 96X96 - 1No. 6A 1P 10kA C-Curve MCB - 7Nos. Aluminum Bus bar 800A TPN 36KA - 1Lot. Outgoings				

	<p>630A 4P 36kA MCCB with Microprocessor Release MTX2.0 & iTRP3 - 2Nos. Extended rotary handle for 630A - 2Nos. Spreaders (Set of 4) 4P for 630A - 4Sets. Red (Red Lens) 22.5mm Indicating Lamp with Integral LED, Voltage: 230V AC - 1No. Green (Green Lens) 22.5mm Indicating Lamp with Integral LED, Voltage: 230VAC - 1No. Amber (Amber Lens) 22.5mm Indicating Lamp with Integral LED, Voltage: 230V AC - 1No. 6A 1P 10kA C-Curve MCB - 2Nos. 125A 4P 36kA MCCB with Microprocessor Release MTX2.0 & iTRP3 -4Nos. Extended rotary handle for 125A - 4Nos. Spreaders (Set of 4) 4P for 125A - 8Set. Red (Red Lens) 22.5mm Indicating Lamp with Integral LED, Voltage: 230V AC - 4nos. Green (Green Lens) 22.5mm Indicating Lamp with Integral LED, Voltage: 230VAC - 4Nos. Amber (Amber Lens) 22.5mm Indicating Lamp with Integral LED, Voltage: 230V AC - 4Nos. 6A 1P 10kA C-Curve MCB - 4Nos.</p>				
D	800A MCCB Enclosure - (Indoor Type) IP Rating 43.	Nos	1		
	<p>800A 4P 36kA MCCB with Microprocessor Release MTX2.0 & iTRP3 - 1No. Extended rotary handle for 800A - 1No. Spreaders (Set of 4) 4P for 800A - 2Set. Red (Red Lens) 22.5mm Indicating Lamp with Integral LED, Voltage: 230V AC - 2Nos. Yellow (Yellow Lens) 22.5mm Indicating Lamp with Integral LED, Voltage: 230VAC - 1No. Blue (Blue Lens) 22.5mm Indicating Lamp with Integral LED, Voltage: 230V AC - 1No. Green (Green Lens) 22.5mm Indicating Lamp with Integral LED, Voltage: 230VAC - 1No. Amber (Amber Lens) 22.5mm Indicating Lamp with Integral LED, Voltage: 230V AC - 1No. 6A 1P 10kA C-Curve MCB - 7Nos. Aluminum Bus bar 800A TPN 36KA - 1Lot.</p>				
E	3 Feeder pillar/ Distribution Board - (Outdoor Type) IP Rating 55.	Nos	1		
	<p>630A 4P 36kA MCCB with Microprocessor Release MTX2.0 & iTRP3 - 1No. Extended rotary handle for 630A - 1No. Spreaders (Set of 4) 4P for 630A - 2Sets. Red (Red Lens) 22.5mm Indicating Lamp with Integral LED, Voltage: 230V AC - 2No. Yellow (Yellow Lens) 22.5mm Indicating Lamp with Integral LED, Voltage: 230VAC - 1No. Blue (Blue Lens) 22.5mm Indicating Lamp with Integral LED, Voltage: 230V AC - 1No. Green (Green Lens) 22.5mm Indicating Lamp with Integral LED, Voltage: 230VAC - 1No. Amber (Amber Lens) 22.5mm Indicating Lamp with Integral LED, Voltage: 230V AC - 1No. 600/5A Acc.Cl: 1 10VA Resin Cast Ring Type Current Transformer, Round - 3nos. Load Manager with RS 485 Port, Parameters: V, I, Hz, Kw, Kwh, PF, KVA, KVAh , KVAR, KVARh, ON Hrs, load RUN Hrs., Acc. CL: 1, Voltage: 48-277V AC/ 48-277V DC, Size: 96X96 - 1No. 6A 1P 10kA C-Curve MCB - 7Nos. Aluminum Bus bar 800A TPN 36KA - 1Lot. Outgoings 315A 4P 36kA MCCB with Microprocessor Release MTX2.0 & iTRP3 - 2Nos. Extended rotary handle for 315A - 2Nos. Spreaders (Set of 4) 4P for 315A - 4Sets. Red (Red Lens) 22.5mm Indicating Lamp with Integral LED, Voltage: 230V AC - 2Nos. Green (Green Lens) 22.5mm Indicating Lamp with Integral LED, Voltage: 230VAC - 2Nos. Amber (Amber Lens) 22.5mm Indicating Lamp with Integral LED, Voltage: 230V AC - 2Nos. 6A 1P 10kA C-Curve MCB - 2Nos. 125A 4P 36kA MCCB with Microprocessor Release MTX2.0 & iTRP3 - 4Nos. Extended rotary handle for 125A - 4Nos.</p>				

Spreaders (Set of 4) 4P for 125A - 8Sets. Red (Red Lens) 22.5mm Indicating Lamp with Integral LED, Voltage: 230V AC - 4Nos. Green (Green Lens) 22.5mm Indicating Lamp with Integral LED, Voltage: 230VAC - 4Nos Amber (Amber Lens) 22.5mm Indicating Lamp with Integral LED, Voltage: 230V AC - 4Nos. 6A 1P 10kA C-Curve MCB - 4Nos. 25A 2P MCB - 3nos. 25A 2P ELCB, 30 mA. - 3nos. 25A 2Pin +E Plug & sockets - 3nos. 63A 4P MCB - 1no. 63A 4P ELCB, 30 mA. - 1no. 63A 3Pin +N+E Plug & sockets -1no.				
Supply & Installation of DP Enclosure Box.	No	6		
Supply & Installation of 3M box with 1 Nos - 16A switch & 1 Nos - 16A socket	Set	3		
Supply & Installation of 6M box with 2 Nos - 6A switch & 2 Nos - 6A socket (Make Legrand Britzy)	Set	3		
Supply & Installation of 400 watt LED Flood Light - 5700k (Make : Panason	Nos	11		
Termination using 42/48 sqmm PVC Weatherproof PG glands	Nos	3		
Termination using 20 sqmm PG glands	Nos	22		
Termination using 10 sqmm lugs.	Nos	22		
Supply & Installation of 16A Connector	Nos	100		
Supply & installation of Clamp Meter including all tools and tackles as directed by EIC	Nos	2		
Supply& installation incl. all tools and tackles of 63 Amp 5 pin plug & socket IP-44	Nos	5		
Supply& installation incl. all tools and tackles of 15-watt LED square panel light.	Nos	6		
Supply& installation incl. all tools and tackles of 32 Amp 5 pin plug & socket IP-44	Nos	5		
			Total	
			Addl. GST	
			Total incl. GST	

Date:

(Authorised Signatory with company seal)

Place:

Name:

Designation:

Bidder Name:

Special Notes:

1. Bidder shall strictly quote price as per above price schedule and shall indicate GST % in the price schedule

2. Bidder shall quote with reference to Volume II A, B, C of Technical Specifications

The Tata Power Company Limited is hereunder referred to as the "Purchaser" or "Company". The person, firm or company selling the goods, the subject of this purchase order is referred to as "Vendor" or "Contractor". The subject of this purchase order is hereinafter referred to as the "Material(s)" or "Goods".

The Contract shall mean the contract as derived from the following:

1. Purchase Order (with 'Commercial Notes' and Annexures to the Purchase Order referred thereon)
2. Technical Specifications.
3. General Terms & Conditions

The documents including all reference document (s) and Annexures forming the Contract are to be read together as a whole and are to be taken as mutually explanatory.

1. Price:

Unless otherwise specifically stipulated, the price shall be firm and shall not be subject to escalation for any reason till the validity of this Contract.

Unless otherwise specifically stipulated, the price shall be inclusive of road/ rail worthy water-proof packing & forwarding charges up to effecting delivery at FOT/ FOR despatch point, GST and shall also be inclusive of inland freight, terminal taxes and entry taxes as leviable on the transportation or entry of goods into any local area limits pursuant to the Contract.

2. Taxes and Duties:

- 2.1 The Contract Price shall be inclusive of all taxes, duties, including but not limited to GST or any local taxes, levies imposed by State/Central/Local governments
- 2.2 Taxes as mentioned in the Contract Price or Price Schedule shall be paid to the contractor subject to the Contractor complying with all the statutory requirements and furnishing the relevant documents including error free invoices containing detailed break-up of the taxes
- 2.3 However the payment of GST or local levies shall be restricted to the total amount as indicated in the price schedule.
- 2.4 Any duties, levies or taxes not mentioned in Contract Price or Price Schedule but applicable as per any statute (s) shall be deemed to be

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included in the Contract price and shall be to the account of the Contractor.

- 2.5 Any statutory variation in duties, levies or taxes if applicable and specified in this Contract till the scheduled date for supply of Goods and limited to direct invoices of the Contractor shall be to the account of Purchaser. The Contractor shall have the obligation to provide the necessary documentary evidence / supporting by way of gazetted notifications etc. to prove the change in such levies or taxes between the due date of submission of the Bid and the scheduled date of supply of goods to claim the difference.
- 2.6 The Contractor shall pass on to the Purchaser all the benefits of either reduction in tax rates, exemptions, concessions, rebate, set off, credits etc. or introduction of new tax rates exemptions, concessions, rebate, set off, credits etc. pertaining to all taxes, duties, imposts, fees and levies in respect of the supplies of Goods or performance of obligations under the contract. This would specifically include reduction of tax rates as a result of statutory changes or judicial rulings.
- 2.7 Any other taxes, levies and duties not mentioned in Contract Price or Price Schedule but applicable as per any statute (s) or introduction (omission) of new taxes, levies and duties shall be deemed to be included in the Contract Price and shall be to the account of the Contractor.
- 2.8 For facilitating availment of a credit, set-off, rebate, drawback or like benefit available to the Purchaser, the Contractor will facilitate the Purchaser by providing the necessary documentary and/or procedural support. In any process of assessment or re-assessment, of taxes payable by the Purchaser. Wherever expressly agreed the purchaser would provide the statutory form 'C' to the seller for availing the concessional rate of Central sales tax.
- 2.9 The Contractor shall bear and pay all the costs, liabilities, levies, interest, penalties in respect of non-compliances of any legal requirements as per various statutory provisions. The contractor shall keep the owner indemnified at all times from any tax liability, interest, penalties or assessments that may be imposed by the statutory authorities for non-compliances or non-observation of any statutory requirements by the Contractor.
- 2.10 Purchaser shall pay the invoices to the Vendor after necessary deductions as prescribed under the applicable law, income - tax or other

deductions under the State Tax laws as may be applicable to the Contract.

3 Packing details:

Packing details: The material must be packed in suitable packing to suit the mode of transport and to ensure its safe receipt at point of delivery. Any damage to material noticed at the time of delivery at site, due to improper packing or any other reason whatsoever shall be the responsibility of the Vendor. Such damaged goods shall be replaced within 14 days from intimation from the Purchaser.

4 Transportation and Unloading at Site:

The Vendor shall deliver the Material(s) at site/ Stores as per the delivery address specified in the Purchase order. The unloading at delivery shall be organised by the Purchaser unless otherwise specified. The receipt of the material/ equipment is subject to inspection and rejection if Material(s) is found unsatisfactory or any of the clauses under this purchase order are violated.

5 Insurance:

Unless otherwise specified, Purchaser will be responsible to obtain transit insurance for the Material(s). The Vendor shall intimate the Order Manager (as mentioned in the Purchase Order) along with Invoice, packing list, the Railway Receipt/Truck or Lorry Receipt etc. immediately after the consignment is booked, at the e-mail id mentioned in the Purchase order.

6 Payment Terms:

100% payment shall be made within 60 days from the receipt and acceptance of the material at the Consignee Stores/ Site/ Location as per the Contractual terms and conditions herein.

7 Bills and invoice:

The tax invoices should contain the details to comply with the GST Law. The supplier shall:

- i) Furnish (electronically) and communicate to the Owner, the details of Goods or Services supplied by the 10th of the month succeeding the said tax period,
- ii) Upon discovery of any discrepancy, rectify it and shall pay the tax and interest thereof,
- iii) Furnish the returns (electronically), for the inward and outward supplies of

Goods and/or Services, before the specified dates as per the GST Law,
iv) Communicate the tax paid, credits etc. as and when credited.

v) The Invoice should clearly state the description of the goods, quantity, sale price, tax %, and tax amount;

vi) The Invoice should be signed by an Authorized Signatory.

Bills/Invoices in the name of The Tata Power Company Ltd. with packing lists in triplicate shall be forwarded along with the equipment.

Contractor to furnish GST Registration no. in all invoices as well as Purchaser's (Tata Power's) GST no.

8 Transfer of Title and risk:

The transfer of property and risk of Material(s) shall be deemed to take place as follows:

a. For delivery F.O.R. or F.O.T. despatch point: Transfer of property on handing over the Material(s) to the carrier against receipt of clean Railway Receipt/Truck or Lorry Receipt and such receipt having been handed over to Purchaser. However, the risk of loss shall pass to the Purchaser on delivery of goods at the specified destination.

b. In case the Material(s) are procured by the Vendor from sub-vendors on receipt of duly endorsed documents of title to the goods.

9 Contract Performance Bank Guarantee (In case applicable):

9.1 The Vendor shall within 15 days of issue of this Purchase Order furnish an unconditional irrevocable bank guarantee duly stamped and strictly as per the prescribed format of the Purchaser from any nationalized bank or any scheduled bank having a branch in Mumbai and approved by the Purchaser for a sum equivalent to 10% of the Total value of Order valid for a period not less than 6 months from the expiry of the Warranty period.

9.2 Irrespective of the performance demonstrated as part of the Factory Acceptance Tests Take-over tests / Performance Tests etc, the Purchaser may call for re-validation of performance of the system during the performance guarantee period by conducting fresh performance tests if in its opinion, the

system is not able to deliver the designed performances based on its operational performance results. If the equipment fails to prove the performance during such performance tests, the Purchaser may allow the Vendor to either rectify the system by addition / modification of equipment etc at the Vendor's costs & risk to restore the performance levels. Failure to rectify the system to achieve the designed performance levels may result in imposition of penalties including revocation of the Performance Bank Guarantee and forfeiture of the entire amount under the Performance Guarantee.

- 9.3 In case the Vendor fails to furnish the requisite Bank Guarantee as stipulated above, then the Company shall have the option to terminate the contract besides other contractual remedies.

10 Price reduction:

- 10.1 The Vendor agrees that time of supply of Material(s) is of prime importance. If the Vendor fails to supply Material(s) before the respective scheduled / fixed date for supply. Company may without prejudice to any other right or remedy available to the Company: -

10.1.1 Recover from the Vendor ascertained and agreed, genuine pre-estimate liquidated damages, and not by way of penalty, a sum equivalent to 1% (of total value of order) per week or part thereof for each week's delay, beyond the scheduled supply date each subject to maximum of 10% of the total order value, even though the Company may accept delay in supply after the expiry of the scheduled supply date. The Company may, at its discretion, set off the aforesaid amounts from any other amounts owed by the Company to the Vendor or recover such amounts in other manner as may be permissible under applicable laws.

10.1.2 Arrange to get supply from elsewhere on account and at the sole risk of the Vendor, such decision of the Company being final and binding on the Vendor; or

10.1.3 Terminate the contract or a portion of supply of the supply work thereof, and if so desired, arrange for the supply in default by the Vendor to be attained from elsewhere at the sole risks and costs of the Vendor.

10.2 Liquidated damages for performance shortfall (if applicable) shall be specified in the Technical Specifications.

10.3 The Liquidated Damages referred in this clause 10 may be recovered by the Company from the Vendor as set off against any monies owed by the Company to the Vendor or in any other manner permissible under applicable laws.

11 Warranties:

11.1 Materials and Workmanship: Vendor shall fully warrant that all the stores, equipment and component supplied under the order shall be new and of first class quality according to the specifications and shall be free from defects (even concealed fault, deficiency in design, materials and workmanship).

11.2 Should any defects be noticed in design, material and/or workmanship within 12 months after the Material(s) or any portion thereof as the case may be have been commissioned or for 24 months from the date of delivery, whichever period concludes earlier. Purchaser shall inform Vendor and Vendor shall immediately on receipt of such intimation, depute their personnel within 7 days to investigate the causes of defects and arrange rectification/ replacement/modification of the defective equipment at site, without any cost to Purchaser within a reasonable period. If the Vendor fails to take proper corrective action to repair/replace defects satisfactorily within a reasonable period, Purchaser shall be free to take such corrective action as may be deemed necessary at Vendor's risk and cost after giving notice to the Vendor, including arranging supply of the Goods from elsewhere at the sole risk and cost of the Vendor.

11.3 In case defects are of such nature that equipment shall have to be taken to Vendor's work for rectification etc., Vendor shall take the equipment at his costs after giving necessary undertaking or security as may be required by Purchaser. After repair Vendor shall deliver the equipment at site on freight paid basis. Any taxes applicable in relation to this repair shall be to the Vendor's account. All risks in transit to and fro shall be borne by the Vendor.

11.4 Equipment or spare parts thereof replaced shall have further warranty for a period of 12 months from the date of acceptance.

12 Quality, Testing, inspection, installation:

12.1 All Material(s) supplied under this Contract shall be new and unused.

- 12.2 Wherever a specific Quality Assurance Plan is provided with the Request for Quotation (RFQ) or agreed as part of the commercial/ technical discussions, the same shall be binding on the Vendor.
- 12.3 The material shall be inspected
- a. At consignee end by Purchaser.
 - b. At factory premise of the Vendor/ sub-vendor by Purchaser or third party duly nominated by Purchaser. The Vendor shall extend all necessary co-operation to Purchaser/ third party inspector carrying out the inspection. The Inspector(s) shall have the right to carry out the inspection or testing, which will include inspection and testing of the raw materials at manufacturers shop, at fabricators shop and at the time of actual despatch before and/or after completion of packing.
- 12.4 The Vendor will inform Purchaser at least eight (8) days in advance of the exact place, date and time of tendering the Material(s) for required inspection and provide free access to the Inspector(s) during normal working hours at Vendor's or his/ its sub-Suppliers works, and place at the disposal of the Inspector(s) all useful means for undertaking the Inspection, checking the results of tests performed, marking the Material(s), getting additional tests conducted and final stamping of the Material(s).
- 12.5 Even if the inspection and tests are fully carried out, the Vendor shall not be absolved from its responsibilities to ensure that the Material(s), raw materials, components and other inputs are supplied strictly to conform and comply with all the requirements of the Contract at all stages, whether during manufacture and fabrication, or at the time of Delivery as on arrival at site and after its erection or start up or consumption, and during the defect liability period. The inspections and tests are merely intended to prima facie satisfy Purchaser that the Material(s) and the parts and components comply with the requirements of the Contract.
- 12.6 *All costs associated with the inspection shall be included in cost of Material(s).*
- 12.7 Original material test certificate/ performance test certificate/ fitment certificate/ test reports etc. relevant/ applicable as per the specifications/ standards shall be dispatched along with the material supply failing which the material may be rejected.
- 13 Rejection:**
- 13.1 Rejected goods shall be removed and replaced within 14 days of the date of communication of rejection.
- 13.2 Claim in respect of breakage/shortages in any cases shall be referred on the Vendor within ninety (90) days from the date of receipt of Goods by the Purchaser which shall be replaced/made good by the Vendor at his own cost. All risk of loss or damage to the material shall be upon the Vendor till it is delivered to the purchaser/consignee.
- 14 General Indemnity:**
- The Vendor shall indemnify and keep the Purchaser indemnified from and against any and all claims, costs, liabilities (financial), litigations, compensations, judgments, expenses or damages (including attorney's fees and other related expenses) arising out of any breach or alleged breach of any of the conditions of this Contract, performance of the obligations hereunder, or any representation or misrepresentation made by the Vendor or any third party with regard to the subject of this Contract.
- 15 Indemnity against IPR:**
- The equipment, system, drawings, and other materials that shall be supplied against the order will become the Purchaser's property. Without limitation of any liability of whatsoever nature, the Purchaser shall be indemnified and kept indemnified against any claim for infringement or breach of any of the statues, rules & regulations by the use of or sale of any article or material supplied by the Vendor. The indemnity shall include any infringement of patent, trade mark, design, copyright or other property rights whether in Country of Origin, or elsewhere resulting from the Vendor's design, manufacture, use, supply or re-supply & would also cover use or sale of any article or material supplied by the Vendor to the Purchaser under the Purchase Order. The Indemnity shall cover any claim/action taken by a third party either directly against the Purchaser or any claim/action made against the Vendor & where under the Purchaser is made liable. The

Indemnity shall be for losses, damages, and costs including litigation costs, attorney fees etc incurred by the Purchaser in relation to the Purchase Order.

16 Latent Defects Liability period (if applicable):

Notwithstanding the inspections, acceptance tests, quality checks etc carried out by the Vendor and witnessed/accepted by the Purchaser, the Vendor shall further warrant the equipment for any latent defects in its design, material or workmanship against the specifications set forth and shall make good any such defects by way of repair or replacement of the part or whole of the defective product at its own cost & risks as and when such latent defects are observed and intimated by the Purchaser and intimated to the Vendor within 36 months of completion of warranty period.

17 Force Majeure:

- 17.1 In the event of either party being rendered unable by force majeure to perform any obligation required to be performed by it under this Contract the relative obligation of the party affected by such force majeure shall, after notice under this articles be suspended for the period during which such cause lasts. The term 'Force Majeure' as employed herein shall mean acts of God, wars (declared or undeclared), riots or civil commotion, fire, floods, and acts and regulations of the Government of India or State Government or any of the statutory agencies. Both the party shall pay to the other party, the amount payable upon the date of the occurrence of such force majeure.
- 17.2 Upon the occurrence of such cause and upon its termination, the party alleging that it has been rendered unable as aforesaid, thereby shall notify the other party in writing immediately but not later than twenty four (24) hours of the alleged beginning and ending thereof giving full particulars and satisfactory evidence in support of the claims.
- 17.3 During the period, the obligations of the parties are suspended by force majeure, the contractor shall not be entitled to payment of any rate.
- 17.4 In the event of the force majeure conditions continuing or reasonably expected to continue for a period more than thirty (30) days, Purchaser shall have the option of terminating the contract by giving seven (7) days notice thereof to the contractor.

18 Variation:

Except for any provisions in this Purchase Order, any change /modification to the terms and conditions of this Order can be issued only by Purchaser or with the prior written approval from Purchaser.

19 Termination

- 19.1 The Contract shall be deemed to be terminated on completion of delivery of Material(s)
- 19.2 Termination of Default by Vendor:
Purchaser may terminate the contract at any time if the Vendor fails to carry out any of his obligations including timely delivery under this Contract. Prior to termination, the Vendor shall be advised in writing of the causes of unsatisfactory performance to be improved upon 15 days of the receipt of notice. In case, if the Vendor fails to bring about the improvement to the satisfaction of the Purchaser, then the order shall be terminated.
- 19.3 Without prejudice to the rights and remedies available to Purchaser, Purchaser may terminate the Contract or part thereof with immediate effect with written notice to the Vendor if,:
- 19.3.1 The Vendor becomes bankrupt or goes into liquidation.
- 19.3.2 The Vendor makes a general assignment for the benefit of creditors.
- 19.3.3 A receiver is appointed for any substantial property owned by the Vendor.
- 19.3.4 The Vendor has misrepresented to Purchaser, acting on which misrepresentation Purchaser has placed the Purchase Order on the Vendor.

The Vendor/ Contractor shall not be entitled to any further payment under the Contract if the Contract is terminated. If the order is terminated under clause 19.2 and 19.3, the Vendor shall not be entitled to any further payment, except that, if Purchaser completes the supply of Material(s) and the costs of completion are less than the Total Order value, the Purchaser shall pay Vendor an amount properly allocable to supply of Material(s) fully performed by Vendor prior to termination for which payment was not made to Vendor. In case, the cost of completion of Material(s) exceed the total Order value, the additional cost incurred by Purchaser for such completion shall be paid by the Vendor.

19.4 Purchaser shall be entitled to terminate the Contract at its convenience, at any time by giving thirty (30) Days prior notice to the Contractor. Such notice of termination shall specify that termination is for Companies convenience and the date upon which such termination becomes effective. Upon receipt of such notice, the Contractor shall proceed as follows:

- 19.4.1 cease all further work, except for such work as may be necessary and instructed by the Company/ Company's representative for the purpose of protecting those parts of the supplies already manufactured;
- 19.4.2 stop all further sub-contracting or purchasing activity, and terminate Sub-contracts;
- 19.4.3 handover all Documents, equipment, materials and spares relating to the supply of goods prepared by the Contractor or procured from other sources up to the date of termination for which the Contractor has received payment equivalent to the value thereof; and
- 19.4.4 handover those parts of the supplies manufactured by the Contractor up to the date of termination.

Upon termination pursuant to clause 19.4, the Vendor shall be entitled to be paid the full value on the Material(s) delivered in accordance with the Contract.

19.5 The Contractor shall not be released from any of his obligations or liabilities accrued under the Contract on termination. For the avoidance of doubt, the termination of the Contract in accordance with this clause shall neither relieve the Contractor of his accrued obligations for Warranty or his accrued liability to pay (liquidated) damages for Delay nor shall entitle him to reduce the value of Performance Security.

20 Sub letting and assignment:

The contractor shall not without prior consent in writing of the Purchaser, sublet, transfer or assign the contract or any part thereof or interest therein or benefit or advantage thereof in any manner whatsoever, provided nevertheless that any such consent shall not relieve the contractor from any obligation, duty or responsibility under the contract.

21 Dispute Resolution:

Dispute or differences arising out or relating to this Order shall be resolved amicably by the parties. Failing such amicable resolution of dispute / differences either party may refer the matter to arbitration of a Sole Arbitrator to be appointed jointly by both the parties. The award of the Arbitrator shall be final, binding and conclusive on the parties. The venue for arbitration shall be Mumbai. The Arbitration proceedings will be governed and regulated by the provisions of Indian Arbitration and Conciliation Act, 1996 as amended from time to time and the rules framed there under.

22 Governing laws

This Contract shall be construed in accordance with and governed by the Laws of India without giving effect to any principle of conflict of law.

23 Jurisdiction

This Contract and the transaction contemplated herein shall be subject to the exclusive jurisdiction of the competent Courts in Mumbai only.

24 Limitation of Liability

Notwithstanding anything contained in the Contract, the Contractor's aggregate liability under this Contract shall be limited 100% of the Total order value. This shall however, exclude liability arising pursuant to clause 2.8- tax indemnity, clause 14- General Indemnity, clause 15- Indemnity against IPR, clause 25 – Confidentiality and liabilities arising due to wilful misconduct, gross negligence, third party claims and corrupt acts attributable to the Vendor.

25 Confidentiality:

The Vendor shall use the Confidential Information of the Purchaser only in furtherance of this Contract and shall not transfer or otherwise disclose the Confidential Information to any third party. The Vendor shall (i) give access to such Confidential Information solely to those employees with a need to have access thereto; and (ii) take the same security precautions to protect against disclosure or unauthorized use of such Confidential Information that the party takes with its own confidential information but, in no

event, shall a party apply less than a reasonable standard of care to prevent such disclosure or unauthorized use.

26 Consequential Damages:

Unless otherwise specified, neither Party shall be responsible for and nor shall be liable to the other Party for indirect/consequential losses and damages suffered by such Party including for loss of use, loss of profit whether such liability or claims are based upon any negligence on the part of the other Party or its employees in connection with the performance of the Purchase Order.

27 New Legislation (The Micro, Small and Medium Enterprise Development Act 2006)

- a. This Act has been enacted and made effective from 2nd October 2006. The Interest on Delayed Payments to Small Scale and Ancillary Industrial Undertaking Act, 1993 is repealed.
- b. Vendor is requested to inform the purchaser if vendor fall under The Micro, Small and Medium Enterprises Development Act, 2006 legislation and provide the purchaser, registration number and date to enable purchaser to take necessary care. The vendors are also requested to mention the same on their invoice / bill.

28 Relation between parties:

The Purchase Order shall be entered into on a principal-to-principal basis only. The Purchase order shall not be construed as a partnership or an association of persons. There is no agent and principal relationship between the parties. Each party shall be responsible for its own conduct. The Vendor shall ensure at all times that all the work carried out under this contract either by its own person or through any of its sub-Vendors shall be always done under its own direct supervision.

29 Environment / ISO 14001 Certification:

The Vendor to confirm whether their organization is ISO 14001 certified. If not, the Vendor must certify that the handling, use and disposal of their product / by-products conform to practices consistent with sound environmental management and local statutes. The Vendor shall ensure that all the wastes are disposed in environmental friendly way with strict compliance to applicable laws including

adherence to MoEF guidelines with respect to disposal of batteries, lead waste, copper cables, ash, waste oil, e-waste etc which shall be disposed through MoEF approved parties only. The Vendor shall also be responsible to collect and recycle all the e-waste generated at the end of the product life cycle at its own costs and risks as per the MoEF guidelines/ orders.

30 Tata Code of Conduct

The Purchaser abides by the Tata Code of Conduct in all its dealing with stake holders and the same shall be binding on the Purchaser and the Vendor for dealings under this Purchase Order. A copy of the Tata Code of Conduct is available at our website: <http://www.tatapower.com/aboutus/code-of-conduct.aspx>. The Vendor is requested to bring any concerns regarding this to the notice of our Chief Ethics Officer on the e-mail ID: cecounsellor@tatapower.com.

31 Responsible Supply Chain Management:

The Purchaser is committed for a cleaner environment and respect of Human rights through its Responsible Supply Chain Management policy. The Vendor is required to comply with all the environment & Human rights related laws, including emission norms, Labour and environmental regulations. The Purchaser encourages its Vendors/ Contractors/ Business partners to pay more attention to green design, green supply, green production, green logistics and green packaging in performing their business obligations.

The Vendor is required to abide by the Tata Power Corporate Environment policy, Energy Conservation and Corporate Sustainability Policy.

A copy of the Responsible Supply Chain Management Policy along with Environment policy, Energy Conservation policy, Sustainability policy, Health & Safety policy and Human Rights policy is available at website: <http://www.tatapower.com/sustainability/policies.aspx>.

Vendor/Bidder is required to completely fill the attached "Supplier Sustainability Questionnaire" in support of their Green Supply Chain Management initiatives and submit the same with their offer.

The Owner recognizes that diversity in the workplace positively impacts business. The Owner is committed to help people from SC/ST background either by helping them to become entrepreneurs or by engaging workforce from SC/ST community under the contracts agreed herein. To encourage engaging SC/ST community, the owner may consider on the merit to incentivize the Contractor by paying additional 1% of the service contract portion if the number of SC/ST workforce engaged in the contract exceeds 30% of the total deployed strength and 2%, if the strength goes beyond 50%. While the Contractor will assist the workforce so engaged to become self-reliant in meeting the work expectation, the Owner may also volunteer its training resources to the extent possible to improve their employability. The Contractor shall maintain the proper documentation of such category of the workforce engaged and the owner may consider to pay the incentive after its verification.

The Owner may also consider extending price preference of 5% in the bid evaluation for an order value up to Rs.50 Lacs, provided the company is owned by a person from SC/ST community having minimum 50% holding in the company.

32 Vendor rating

You are requested to ensure compliance to the terms of the individual orders with regards to timely delivery, provision of all applicable documents / challans / test certificate, quality of the material etc. Your performance with respect to the said factors will be taken into consideration for future business.

33 Vendor Feedback:

- 33.1 In this dealing Vendors feedback is important for the purchaser to improve its processes. If vendor have to report any grievance, problem or require any clarification, information, vendor is requested to contact purchaser at email ID: CC_CUSTOMERFEEDBACK@tatapower.com
- 33.2 Vendor is requested to ensure compliance to the terms of the individual orders with regards to timely delivery, provision of all applicable documents / challans / test certificate, quality of the material etc. Vendor performance with

respect to the said factors will be taken into consideration for future business.

34 Non-Waiver:

Failure of Purchaser or its representatives to insist upon adherence to any of the terms or conditions incorporated in the Contract or failure or delay to exercise any right or remedies herein or by law accruing, or failure to promptly notify the Vendor in the event of breach or the acceptance of or the payment of any Material(s) hereunder or approval of any design or Material(s) shall not release the Vendor and shall not be deemed a waiver of any right of Purchaser to insist upon the strict performance thereof or of any of its rights or remedies as to any such Material(s) regardless of when the Material(s) are shipped, received or accepted not shall any purported oral modification or revisions of the Contract by Purchaser or its representative(s) act as waiver of the terms hereof.

35 Repeat Order:

Purchaser may place the repeat order for 100% of ordered quantities within a span of 6 months from the date of issue of this Purchase Order & Vendor shall execute it at same rates, terms and conditions.

36 Severability

If any provision of this Contract is invalid, unenforceable or prohibited by law, this Contract shall be considered divisible as to such provision and such provision shall be inoperative and shall not be part of the consideration moving from any Party hereto to the others, and the remainder of this Contract shall be valid, binding and of like effect as though such provision was not included herein.

ESG FRAMEWORK FOR BUSINESS ASSOCIATES

Tata Power's Sustainability philosophy sits at the core of its Business Strategy. Tata Power Sustainability Model has an overarching objective of 'Leadership with care' with key elements of 'Care for the Environment'; 'Care for the Community'; 'Care for our Customers / Partners' and 'Care for our People'. These sustainability objectives encompass the Environmental, Social and Governance objectives driven as integrated elements.

Tata Power, together with its stakeholders is determined to achieve sustainable growth while creating shared value for all.

As a part of future ready roadmap, Tata Power has targeted following as our Environment, Social and Governance priorities:

- Being Carbon Net Zero before 2045
- Growing Clean capacity (80% by 2030)
- Customer centricity
- Becoming water neutral before 2030
- Achieving zero waste to landfill before 2030
- No net loss of biodiversity before 2030
- Positively impacting 80 million lives by 2027

In order to create a sustainable business ecosystem, Tata Power expects that all its Business Associates (BA) which includes its suppliers, vendors, consultants and service providers to align to its ESG and sustainability commitments.

Tata Power encourages improved efficiencies and scaling up of green initiatives through technology and innovation taking us farther on the journey of reducing carbon emissions and preparing the entire eco-system towards products and services that would have net positive impact on the environment and communities that we operate in.

The Vendors/ bidders wishing to associate with Tata Power are expected to share their own sustainability and ESG journey. We at Tata Power promote all Business Associates to have a sustainable procurement policy for their supplier and service providers to contribute to our integrated approach in achieving a sustainable supply chain. The BA is encouraged to carry out the assessment of their sub-contractors and sub-vendors on sustainability readiness so that they are aware of the expectation/ business requirement.

The Vendor/ Bidder shall fill-in the 'Environment, Social and Governance Compliance Screening Questionnaire for Business Associates' attached at Annexure-I and submit the same along with the Bid in Ariba online platform.

Responsible Supply Chain Management:

Tata Power is committed for a cleaner environment and respect of Human rights through its Responsible Supply Chain Management policy.

Tata Power Business Associate (BA) shall comply with all the environment & Human rights related laws, including emission norms, Labour and environmental regulations.

Tata Power encourages its BA to focus on green design, green supply, green production, green logistics and green packaging in performing their business obligations. The BA is expected to abide by the Tata Power Corporate Environment policy, Energy Conservation and Corporate Sustainability Policy (enclosed with this document as Annexure-II).

The BA is expected to:

- Strive towards Conservation of Energy, Water, Resources and optimize transportation of Men & Materials to minimize environmental impact and reduce carbon footprint.
- Carry out the assessment of materials used for construction, operation & maintenance, consumables and accordingly phase out those materials which are environmentally hazardous.
- Be cognizant that diversity in the workplace positively impacts business.
- Promote affirmative action by supporting people from SC/ ST background by engaging workforce from SC/ ST community under the contracts agreed herein.
- Share the commitment of 'No child labour', 'No forced labour', Non-discrimination on the basis of caste, colour, religion, gender, disability, maternity or pregnancy or any other factor unrelated to the requirements of the job
- Pay the wages or remuneration to the workforce, personnel deployed in compliance to all applicable laws and regulations.
- Provide its employees/ deployed labor with an employment environment that is free of physical or psychological harassment.
- Carry out the assessment of their Sub-contractors on their Sustainability Readiness so that they are aware of the above expectation/ standards
- To ensure usage of suitable package material which is more environmentally sustainable. Further the packing material shall be recycled to the extent possible. The material used for packing is expected to suit the mode of transport and to ensure its safe receipt at point of delivery.

Waste Disposal:

The BA is expected to follow best practices for disposal of waste, few of which are listed below:

- Have a detailed project plan that includes the waste management, segregation of all designated waste material (Recyclable/ Non-Recyclable), collecting, storing, disposing and transferring the same to pre-arranged facility/ destination in timely and safe manner as per environmental legislations. The project plan shall also include the innovative construction practice to eliminate or minimize waste, protect surface/ground water, control dust and other emissions to air and control noise.
- Have purchase policy to encourage the procurement of material with recycled and minimum packaging of goods during delivery and appropriate means for site-to-site transportation of materials to avoid damage and litter generation.
- Ensure that the residents living near the site are kept informed about proposed working schedule and timings/ duration of any abnormal noise full activity that is likely to happen.
- Ensure the regular maintenance and monitoring of vehicles and equipment for efficient fuel use so that emissions and noise are within acceptable limits to avoid air pollution.

Water Management:

The BA is expected to follow best practices for water management, few of which include a management and monitoring system for water withdrawals and consumption, procedures to reduce water usage or reuse/recycle water, and pretreatment of wastewater before disposal.

Compliance to Law:

The BA shall adhere to responsible business practices and comply with the provision of all the Statutory Acts Applicable. Special attention of the BA is drawn towards the compliance of provision of the following statues: (along with the latest amendments/additions, as applicable):

- The Child Labour (Prohibition and Regulation) ACT, 1986.
- The Contract Labour (Regulation and Abolition) ACT, 1970.
- The Employee's Pension Scheme, 1995.
- The Employee's Provident Funds and miscellaneous provisions Act, 1952.
- The Employees State Insurance Act, 1948.
- The Equal Remuneration Act, 1976.
- The Industrial Disputes Act, 1947.
- The Maternity Benefit Act, 1961.
- The Minimum Wages Act, 1948.
- The Payment of Bonus Act, 1965
- The Payment of Gratuity Act, 1972.
- The Payment of Wages Act, 1936.
- The Shops & Establishment Act, 1954.
- The Workmen's Compensation Act, 1923.
- The Employer's Liability Act, 1938.
- and any other applicable statutory act

Social Accountability (SA 8000):

Tata Power expects its BAs to follow guidelines of SA 8000:2014 on the following aspects

- Child Labour
- Forced or Compulsory Labour
- Health & Safety
- Freedom of Association & Right to Collective Bargaining
- Discrimination
- Disciplinary Practices
- Working Hours
- Remuneration
- Management System

Health and Safety

The BA is expected to ensure the health and safety of his and his Sub-contractor's staff and labour. The BA shall, in collaboration with and according to the requirements of the local health authorities, ensure that medical staff, first aid facilities, sick bay and ambulance service are available at the accommodation and on the Site at all times, and that suitable arrangements are made for all necessary welfare and hygiene requirements and for the prevention of epidemics. The BA shall maintain records and make reports concerning health, safety and welfare of persons deployed, and damage to property, as the Owner's Representative may reasonably require. The BA shall be responsible for the medical treatment / hospitalization of his and his Sub-contractor's staff/ labour.

The BA shall appoint a qualified Safety officer at the Site to be responsible for maintaining the safety, and protection against accidents, of all personnel on the Site. Such Safety officer shall have the authority to issue instructions and take protective measures to prevent accidents.

The BA shall comply in toto with the Tata Power's Contractor Safety Terms & Conditions, Health Safety & Environment Manual while working on Tata Power Site/ Services/ Contracts.

Grievance Mechanism

The BA is expected to have grievance procedures that allow stakeholders to anonymously bring environmental and/or work-related violations and/or concerns to the attention of management. In addition, the BA is expected to have procedures for examining reports of environmental and/or work-related violations or concerns and/or privacy complaints.

Data Protection

The BA is expected to have a formal process to address data security or privacy issues.

ANNEXURE-I



Sr. No.	Question Description	Response (Y/N)	Remarks
Organization			
1	Does your Company have Sustainability Policy at Organization Level? If Yes, Please attach		
2	Do you have sustainable procurement policy in place for your own suppliers? If Yes, Please attach		
3	Does your company do regular assessment of its suppliers on ESG parameters?		
4	Are there ESG risks, or negative impacts identified in your supply chain		
Governance			
1	Is diversity taken into consideration when appointing board members/ senior management? Do you have an independent director/s?		
2	Has your company taken initiatives to ensure ethical practices at workplace? Please share the details, Policies etc.		
3	Does your company have a formal process to address data security or privacy issues? Please share the details, Policies etc.		
4	Does your company have grievance mechanism for stakeholder issues and track resolution?		
Environment/ Planet			
1	Does your company have Environmental Policy? If Yes, Please attach		
2	Do you have a formal process for waste management including solid wastes, liquid wastes and hazardous waste?		
3	Does your company track greenhouse gas emission? Also, what percentage of own consumption comes from the renewable energy?		
4	Does your company have a formal process for water management including monitoring of water consumption and withdrawals, and if applicable, pretreatment of wastewater?		
Green Technology/ Innovation			
1	Are your facility/ Product/ Services provided by you is based on green design, green production, green packaging or green logistics considerations? Please elaborate.		
2	Do your products or services have any environmental or social features or benefits (e.g. environmental/energy certification, ecolabels, fair trade certification, etc.)?		
Social/ People			
1	Does you facility/ Company have written personnel policies in place Are you an equal opportunity employer?		
2	Please describe any formal programme / campaign in place to promote company involvement with the community (volunteering, etc.). What is the percentage of profit spend on community activities?		
3	Does your company have a written Health & Safety Policy or Program? If Yes, Please attach		
Certifications: Does your company have following certifications (valid till date-please mention validity)			
1	ISO9001 accreditation		
2	SA8000 or equivalent		
3	ISO 14001 certification		
4	ISO 18001/45001 or equivalent		
5	ISO/IEC 27001 or equivalent		
6	Any Other (Please specify)		

Signature

Business Associate Name

ANNEXURE-II

CORPORATE SUSTAINABILITY POLICY

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

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

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



(Praveer Sinha)
CEO & Managing Director

Date: 15th June, 2018



The Tata Power Company Limited is hereunder referred to as the "Owner" or "Company". The person, firm or company offering the services, the subject of this order is referred to as "Contractor". The subject of this order is hereinafter referred to as the "Work".

"Sub-Contractor" means any person named in the Contract as a Sub-contractor, sub-vendor, manufacturer or supplier for a part of the Works or any person to whom a part of the Works has been subcontracted and the legal successors in title to such Person, but not any assignee of such Person.

The Contract shall mean the contract as derived from the following:

1. Work Order (with 'Commercial Notes' and Annexures to the Work Order referred thereon)
2. Scope of Work.
3. General Terms & Conditions - Service

The documents including all reference document (s) and Annexures forming the Contract are to be read together as a whole and are to be taken as mutually explanatory, provided however, in the event of any inconsistency or discrepancy between the aforementioned documents, the order of precedence in interpretation of the documents shall be as set out above. For the avoidance of doubt, it is clarified that the terms set forth in the Work Order (with 'Commercial Notes' and Annexures to the Work Order referred thereon) shall take precedence over the terms set out in the Scope of Work, which shall in turn take precedence of the terms set out in the General Terms & Conditions – Service.

1. Contractor's obligation:

- 1.1 Contractor warrants that it is a competent, qualified and experienced contractor, equipped, organised and financed to perform and complete the services in the operating area in an efficient and professional manner and capable of meeting all the requirements of the Contract.
- 1.2 The Contractor has the overall responsibility of executing the contract, conducting Planning, Job Scheduling, Maintenance Planning, Maintenance Job Scheduling, executing the Work and maintenance jobs as per the Scope of work & schedule.
- 1.3 Except to the extent that it may be legally or physically impossible or create a hazard to safety, the Contractor shall comply with the Owner's representative(s) instructions and directions on all matters relating to the Work.
- 1.4 Contractor shall at all times have full responsibility for control of the Equipment and for the direction and supervision of operations being carried out under the Contract.
- 1.5 In the performance of the Work, Contractor shall be and act as an independent Contractor fully responsible and accountable for the proper execution of its responsibilities, obligations and

liabilities under this Contract and for its own acts and the acts of its Sub-Contractors and the Personnel. Owner's supervision, examination or inspection of the (performance of the) Work or omission to carry out the same shall not be construed in any manner whatsoever as relieving Contractor from its responsibilities, obligations or liabilities under this Contract.

- 1.6 Contractor shall submit list of tools & tackles with details of make, year of manufacturing, valid certification to the Project Manager/ User for their approval.

Project Manager may during the execution of project inspect & verify that the tools & tackles are as per the qualification requirements approved by him and will have right to seek replacements in case of any discrepancies. The Contractor shall always comply with such directives.

- 1.7 Contractor shall engage Tata Power Skill Development Institute (TPSDI) certified labour force at the site for execution of the job. Requirement & fees for TPSDI certification shall be as per Company Policy.
- 1.8 Contractor shall take full responsibility for the protection and security of Owner's materials and equipment while such materials and equipment are temporarily stored in Contractor's facility or otherwise in Contractor's custody.
- 1.9 All notices, instructions, information, and other communications given by the Contractor to Owner under the Contract shall be given to the Order Manager/ Owner's representative, except as otherwise provided for in this Contract.
- 1.10 The Contractor shall make its own arrangements for movement of personnel and equipment, within and outside the sites / units / offices at the various locations covered by the Contract.
- 1.11 The Contractor shall acquire in its name all permits, approvals, and/or licenses from all local, state, or national government and other statutory authorities and/or public service undertakings that are necessary for the performance of the Contract.
- 1.12 Neither the Contractor nor its personnel shall during the term of this Contract, engage in any business or professional activities in India/abroad which would conflict with the activities assigned to them under this Contract.

2. Service Warranties:

Contractor warrants that all services performed for or on behalf of Owner will be performed in a competent,

workmanlike manner and shall be free from faults and defects. Said warranties shall be in addition to any warranties of additional scope given by Contractor to Owner. None of said warranties and no other implied or express warranties shall be deemed is claimed or excluded unless evidenced by a change notice or revision issued and signed by Owner's authorized representative.

3. Compliance of Local Laws:

Contractor shall be responsible and shall comply with the provision of all the Statutory Acts Applicable. Special attention of the Contractor is drawn towards the compliance of provision of the following statues: (along with the latest amendments/additions, as applicable):

- a) The Child Labour (Prohibition and Regulation) ACT, 1986.
- b) The Contract Labour (Regulation and Abolition) ACT, 1970.
- c) The Employee's Pension Scheme, 1995.
- d) The Employee's Provident Funds and miscellaneous provisions Act, 1952.
- e) The Employees State Insurance Act, 1948.
- f) The Equal Remuneration Act, 1976.
- g) The Industrial Disputes Act, 1947.
- h) The Maternity Benefit Act, 1961.
- i) The Minimum Wages Act, 1948.
- j) The Payment of Bonus Act, 1965
- k) The Payment of Gratuity Act, 1972.
- l) The Payment of Wages Act, 1936.
- m) The Shops & Establishment Act, 1954.
- n) The Workmen's Compensation Act, 1923.
- o) The Employer's Liability Act, 1938.
- p) and any other applicable statutory act

Site Specific requirements shall be as Annexure at I. The compliance to these Site Specific requirements shall not absolve the Contractor of its obligation to comply with the Owner's Contractor Safety Management Policy.

4. Owner's Obligation:

- 4.1 The order manager (As specified in the 'Commercial Notes') shall have the authority to represent Owner on all day-to-day matters relating to the Contract or arising from the Contract. All notices, instructions, orders, certificates, approvals, and all other communications under the Contract shall be given by the order manager, except as otherwise provided for in this Contract. The order manager may appoint the Engineer-In-Charges for different areas for monitoring the work progress, inspections and signing of bills.

- 4.2 Owner shall ensure the availability of site access, all information and/or data to be arranged/ supplied by Owner to the Contractor for execution of the Work . The terms on which the Contractor shall be allowed access to the site shall be specified by the Owner prior to commencement of the execution of the Work and thereafter shall be governed in accordance with such policies as the Owner may provide in writing to the Contractor from time to time.

5. Contractor's/ Sub-contractor's employees:

- 5.1 The Contractor shall engage appropriately qualified persons to provide the services with the prior approval of Owner. Owner may withhold such approval for any reason whatsoever.

- 5.2 The Contractor hereby represents and warrants that:

- i) the personnel are duly qualified, and are, and will remain, sufficiently qualified, careful, skilful, diligent and efficient to provide the services to Owner; and
- ii) the Services will be rendered carefully, skilfully, diligently and efficiently, and to the professional standard reasonably expected by Owner of a contractor qualified and experienced in providing services substantially the same as the Services.

- 5.3 The Contractor must ensure that the Contractor's personnel conduct themselves in a proper manner and comply with the procedures and all policies, regulations and directives of Owner including any occupational, health and safety policies and the relevant prevailing laws and regulations in the Country of operations and specifically in the area where Work is being executed.

- 5.4 Owner may inform the Contractor to immediately remove Contractor's personnel from the relevant premises in the event of misconduct or incompetence on the part of the Personnel. The Contractor shall at all times remain liable for all acts and/or omissions of its Personnel.

- 5.5 It is made clear that no relationship of Owner and employee is created between Owner and the Contractor's resident engineers, employees and no claim for employment of any such personnel shall be tenable or entertained.

6. Title of Property:

- 6.1 Unless otherwise provided in this order or agreed to in writing, property of every description including but not limited to all tooling, tools, equipment and material furnished or made available to Contractor, title to which is

in Owner, and any replacement thereof shall be and remain the property of Owner. Such property other than material shall not be modified without the written consent of Owner. Such property shall be plainly marked or otherwise adequately identified by Contractor as being owned by Owner and shall be safely stored separately and apart from Contractor's property.

6.2 Contractor shall not use such property except for performance of work hereunder or as authorized in writing by Owner. Such property while in Contractor's possession or control shall be listed in writing and kept in good condition, shall be held at Contractor's risk, and shall be kept insured by Contractor, at its expense, in an amount equal to the replacement cost with loss payable to Owner. To the extent such property is not material consumed in the performance of this order, it shall be subject to inspection and removal by Owner and Owner shall have the right of entry for such purposes without any additional liability whatsoever to Contractor. As and when directed by Owner, Contractor shall disclose the location of such property, prepare it for shipment and ship it to Owner in as good condition as originally received by Contractor, reasonable wear and tear excepted.

7. Work Completion schedule:

Contractor shall plan and execute the Work in accordance with a detailed schedule mutually agreed upon by the Parties (Owner and Contractor).

8. Contract Price and Payment:

8.1 The Contract Price shall be a firm & fixed Contract Value for the Work inclusive of all the taxes, levies & duties and shall remain firm till the validity of this contract.

8.2 Unless Specifically stated elsewhere in the contract, the Contractor is solely liable for payment of , and warrants that it will pay, or ensure the payment of all taxes imposed, assessment made in relation to the Work.

8.3 An amount as stated in the table below shall be retained towards Contractor's safety performance against every RA bill:

Contract Value	Retention Amount (%)
Upto Rs. 10 lakhs	2.5
Above Rs. 10 lakhs and below Rs. 50 lakhs	2
Above 50 lakhs and upto Rs. 10 Crores	1.5
Above Rs. 10 Crores	1

Rev. date: 25 Jul 2017

The above mentioned safety retention shall be over and above any other retentions/ deferred payments as may have been specifically agreed in the Contract.

8.4 For Contract Price Rs. 1 crores or above and Contract Completion Schedule 12 months or more, the above safety retention will be released half yearly against the Safety Performance Score (methodology for evaluation enumerated in the Safety Terms & Conditions attached as Appendix to this General Terms & Condition) which will be evaluated by the Order Manager every month. For all other contracts, the above said safety retention shall be released along with the final settlement only at the end of the contract period.

8.5 The Owner shall have the right to stop any work which in its opinion is not meeting the safety standards/ guidelines of the Owner and good engineering practice. The Contractor shall not be eligible for and shall not be granted any extension in Completion Schedule due to such stoppage of work by the Owner.

8.6 The above retention towards safety shall not absolve the Contractor of its liabilities including statutory liabilities towards safety violations, injury or death (whether by accident or otherwise). An amount between Rs. 5 to 50 lakhs as deemed appropriate by Owner's appointed Committee for incident investigation and/ or as determined by statutory authorities (whichever higher), will be payable by the Contractor in case of such severe incidents of injury leading to loss of property or partial/ permanent disablement (e.g. loss of limb/s, vision etc.) or death.

8.7 Notwithstanding anything else stated in the Contract, the Contractor shall be liable for termination without any notice and without recourse to Owner in case of three (3) or more severe safety violations. There shall be no termination fees/ compensation payable to Contractor for such termination.

8.8 In case the Contractor achieves 100% on the Safety Performance Score, the Contractor shall be awarded a discretionary bonus of 1% of invoiced value subject to a maximum of Rs. 50 lakhs towards Safety Performance.

8.9 Payment shall be released within 60 days of submission of error free invoice with supporting documents duly certified by the Order Manager/ Engineer-in-Charge after deducting taxes at source as prescribed under the applicable law, income – tax or other deductions under the state value added tax laws . If such payment release

day falls on a holiday of Owner, payment will be released on the next working day. Against deduction of statutory taxes, tax deduction certificates where ever applicable shall be issued as per the applicable provisions of the statute. The Order Manager may recover any amount wrongly paid in excess in any previous bills certified by him.

8.10 *Mode of Payment:* All payments shall be made direct to the Contractor or his authorized representative in the shape of RTGS or Electronics Transfer method, on certification of the Order Manager/Engineer-in-Charge and on compliance of contractual terms & conditions.

9. **Taxes and Duties:**

9.1 The Contract Price shall be inclusive of all taxes, duties, including but not limited to Customs duty, GST or any local taxes, levies imposed by State/Central/Local governments.

9.2 Taxes as mentioned in the Contract Price or Price Schedule shall be paid to the contractor subject to the Contractor complying with all the statutory requirements and furnishing the relevant documents including error free invoices containing detailed break up of the taxes.

9.3 The tax invoices should contain the details to comply with the GST Law. The supplier shall:

- i) Furnish (electronically) and communicate to the Owner, the details of Goods or Services supplied by the 10th of the month succeeding the said tax period,
- ii) Upon discovery of any discrepancy, rectify it and shall pay the tax and interest thereof,
- iii) Furnish the returns (electronically), for the inward and outward supplies of Goods and/or Services, before the specified dates as per the GST Law,
- iv) Communicate the tax paid, credits etc. as and when credited.
- v) The Invoice should clearly state the description of the goods, quantity, sale price, tax %, and tax amount;
- vi) The Invoice should be signed by an Authorized Signatory.

Bills/Invoices in the name of The Tata Power Company Ltd. with packing lists in triplicate shall be forwarded along with the equipment.

Contractor to furnish GST Registration no. in all invoices as well as Purchaser's (Tata Power's) GST no.

9.4 However the payment of tax shall be restricted to the total amount as indicated in the price schedule.

9.5 Any statutory variation in duties, levies or taxes if applicable and specified in this Contract till the scheduled date for completion of Work and limited to direct invoices of the Contractor shall be to the account of Owner. The Contractor shall have the obligation to provide the necessary documentary evidence / supporting by way of gazetted notifications etc. to prove the change in such levies or taxes between the due date of submission of the Bid and the scheduled date of completion of work to claim the difference.

9.6 The Contractor shall pass on to the Owner all the benefits of either reduction in tax rates, exemptions, concessions, rebate, set off, credits etc. or introduction of new tax rates exemptions, concessions, rebate, set off, credits etc. pertaining to all taxes, duties, imposts, fees and levies in respect of the supplies of Goods or performance of obligations under the contract. This would specifically include reduction of tax rates as a result of statutory changes or judicial rulings.

9.7 Any other taxes, levies and duties not mentioned in Contract Price or Price Schedule but applicable as per any statute (s) or introduction (omission) of new taxes, levies and duties shall be deemed to be included in the Contract Price and shall be to the account of the Contractor.

9.8 For facilitating availment of a credit, set-off, rebate, drawback or like benefit available to the Owner, the Contractor will facilitate the Owner by providing the necessary documentary and/or procedural support. In any process of assessment or re-assessment, of taxes payable by the Owner,

9.9 The Contractor shall bear and pay all the costs, liabilities, levies, interest, penalties in respect of non-compliances of any legal requirements as per various statutory provisions. The contractor shall keep the owner indemnified at all times from any tax liability, interest, penalties or assessments that may be imposed by the statutory authorities for non-compliances or non-observation of any statutory requirements by the Contractor.

9.10 All formalities required under statutes, for availing any concessions under relevant tax laws shall be adhered to by the Contractor.

9.11 Deduction at source: Recovery at source towards income tax calculated at the rate prescribed from time to time under the Income Tax Act 1961 and other relevant sections of Income Tax Act shall be made from the bills of the Contractor and the amount so recovered shall be

deposited with the Income Tax Department. Necessary TDS certificate to this effect will be issued to the Contractor in the prescribed proforma.

- 9.12 If any other taxes / duties / cess etc are to be recovered at source as per government regulations / Legislation from time to time, the same shall be recovered from the bills payable to the Contractor. Necessary receipt to this effect will be issued to the Contractor in this regard as per the applicable legislation.

10. Contract Performance Guarantees (If applicable)

The Contractor shall within 15 days of issuance of this Order/Contract furnish an unconditional irrevocable bank guarantee duly stamped, strictly as per the prescribed format of Owner from any nationalized bank or any scheduled bank having a branch in Mumbai and approved by the Owner for a sum equivalent to 10% of the Total Contract Price valid for the Contract Period and with a claim period of not less than 6 months from the completion of Contract Period. The issuing bank should be advised to send a direct confirmation of issue of bank guarantee to Owner.

In case the Contractor fails to furnish the requisite Bank Guarantee as stipulated above, then the Owner shall have the option to cancel the Contract besides other contractual remedies.

11. Price Reduction:

- 11.1 In case the Contractor fails to deliver the service/ Complete the work as per the agreed Completion Schedule including intermediate milestones (if applicable), the Owner shall recover from Contractor, as ascertained and agreed Liquidated Damages, and not by way of penalty, a sum equivalent to 1% of the Contract Value per week of delay. The Liquidated Damages referred above may be recovered by the Owner as set off against any amounts payable by the Owner to the Contractor or in any other manner in accordance with applicable laws.
- 11.2 The overall cap on liquidated damages shall be limited to 10% of the Contract Price.

12. Insurance

- 12.1 The Contractor agrees to indemnify and protect Owner against all liability, claims or demands for injuries or damages to any person or property growing out of the performance of this order/ Contract.
- 12.2 The Contractor further agrees to furnish evidence of insurance showing that Contractor has and will maintain adequate insurance coverage during the life of this Contract/ order in the opinion of Owner, including but not

limited to comprehensive general liability insurance. Such evidence of insurance must set forth the name of the insurer, policy number, expiration date, and limits of liability. Compliance by Contractor with insurance requirements does not in any way affect Contractor's indemnification of Owner under Indemnification clause

13. Indemnification:

The Contractor shall indemnify, save harmless and defend the Owner and keep the Owner indemnified from and against any and all claims, costs, liabilities (financial), litigations, compensations, judgments, expenses or damages (including attorney's fees and other related expenses) arising out of any breach or alleged breach of any of the conditions of this Contract including compliance to statutory laws of provisioned under clause 3, performance of the obligations hereunder, or any representation or misrepresentation made by the Contractor or by any third party in respect of death or bodily injury or in respect to loss or damage to any property with regard to the subject of this Contract.

14. Indemnity against IPR:

The equipment, system, drawings, and other materials that shall be supplied against the Contract will become the Owner's property. Without limitation of any liability of whatsoever nature, the Owner shall be indemnified and kept indemnified against any claim for infringement or breach of any of the statues, rules & regulations by the use of or sale of any article or material supplied by the Contractor. The indemnity shall include any infringement of patent, trade mark, design, copyright or other property rights whether in Country of Origin, or elsewhere resulting from the Contractor's design, manufacture, use, supply or re-supply & would also cover use or sale of any article or material supplied by the Contractor to the Owner under the Contract. The Indemnity shall cover any claim/action taken by a third party either directly against the Owner or any claim/action made against the Contractor & where under the Purchaser is made liable. The Indemnity shall be for losses, damages, and costs including litigation costs, attorney fees etc incurred by the Owner in relation to the Contract.

15. Free Issue Material:

Wherever contracts envisage supply of Free Issue Material (FIM) by the Owner to the contractor for fabrication/ use in service performance, such Free Issue Material shall be safeguarded by an insurance policy to be provided by the Contractor at his own cost for the full value of such materials and the insurance policy shall cover the following risks specifically and shall be valid for six months beyond the Contract Validity date :

RISKS TO BE COVERED: Any loss or damage to the Owner's materials due to fire, theft, riot, burglary,

strike, civil commotion, terrorist act, natural calamities etc. and any loss or damage arising out of any other causes such as other materials falling on Owner's materials.

The amount for which insurance policy is to be furnished shall be indicated in the respective Contract.

Free Issue material (FIM) will be issued to the Contractor only after receipt of the Insurance Policy from the Contractor. The contractor shall arrange collection of the FIM from the Owner's premises and safe transportation of the same to his premises at his risk and cost. Notwithstanding the insurance cover taken out by the Contractor as above, the Contractor shall indemnify the Owner and keep the Owner indemnified to the extent of the value of free issue materials to be issued till such time the entire contract is executed and proper account for the free issue materials is rendered and the left over/surplus and scrap items are returned to the Owner. The contractor shall not utilize the Owner's free issue materials for any job other than the one contracted out in this case and also not indulge in any act, commission or negligence which will cause/result in any loss/damage to the Owner and in which case, the Contractor shall be liable to the Owner to pay compensation to the full extent of damage/loss. The Contractor, shall be responsible for the safety of the free issue materials after these are received by them and all through the period during which the materials remain in their possession/control/custody. The Free issue materials on receipt at the Contractor's works shall be inspected by them for ensuring safe and correct receipt of the material. The contractor shall report the discrepancies, if any, to the Owner within 5 days from the date of receipt of the material. The contractor shall take all necessary precautions against any loss, deterioration, damage or destruction of the FIMs from whatever cause arising while the said materials remain in their possession/custody or control. The free issue materials shall be inspected periodically at regular intervals by the Contractor for ensuring safe preservation and storage, the Contractor, shall also not mix up the materials in question with any other goods and shall render true and proper account of the materials actually used and return balance remaining unused material on hand and scrap along with the final product and if it is not possible within a period of one month from the date of delivery of the final product/ completion of Service covered by this Contract. The Contractor shall also indemnify the Owner to compensate the difference in cost between the actual cost of the free issue material lost/damaged and the claim settled to the Owner by the insurance company.

16. Relation between parties:

The Contract shall be entered into on a principal-to-principal basis only. The Contract shall not be construed as a partnership or an association of persons. There is no agent and principal relationship between the parties. Each party shall be responsible for its own conduct. The Contractor shall ensure at all times that all the work carried out under this contract

either by its own person or through any of its sub-Vendors shall be always done under its own direct supervision.

17. Safety:

Contractor shall comply with all legal and statutory provisions including all rules and regulations pertaining to Safety, Health and the Environment and will be responsible for all legal liabilities arising due to any of their acts or of their personnel.

The Contractor shall comply with the Owner's Contractor Safety Policy and Safety Terms and Conditions. Any misconduct and/ or violation with respect to the Owner's Contractor Safety Policy and Safety Terms and Conditions or any other legal and statutory provisions pertaining to Safety, Health and Environment shall be dealt with as per the Safety Terms and Conditions.

Prior to commencement of any work at site Contractor shall submit an undertaking in writing to adhere to and comply with all the provisions of Owner's Contractor Safety Code of Conduct.

The Contractor shall have a valid ISO 14001/ OHSAS certification. In absence of the same, the Contractor shall obtain the same within 6 months from the date of the Effective Date of Contract.

18. Suspension of Work

Owner may instruct Contractor at any time to suspend performance of the Work or any part thereof with a notice of 7 days for whatever reason. Provided Contractor is not in default under this Contract subject to Articles 1 and 5 inclusive, the Contractor shall be paid a mutually agreed fee, if any, necessarily incurred by Contractor as a direct consequence thereof of suspension and the Project Completion Schedule may be revised accordingly.

Without prejudice to any other rights Owner may have under this Contract or at law if Contractor is in default under this Contract, Owner may instruct Contractor to suspend performance of the Work or any part thereof by giving 7 days notice till such default has been corrected to the satisfaction of Owner. Also Liquidated Damages in accordance with Clause 11 shall continue to be applicable during such period until the default is cured. The costs incurred by the Contractor for such correction shall be to the Contractor's account, and furthermore no payment shall become due to the Contractor. Any cost incurred due to non - performance of the Contractor by the Owner shall be charged to the Contractor.

19. Change Management:

Owner shall have the right at any time to order any change in the Work in accordance with the following procedure. Contractor shall furnish to Owner upon request as soon as reasonably possible but no later

than five (5) days following the request, a written statement specifying:

- (a) the increase or decrease, as the case may be, in the costs of the Work which will result from a change in the Work as requested by Owner,
- (b) any effect such change in the Work may have on any other provision of this Contract originating from either parties, and
- (c) such other details as Owner may require.

Any change in costs shall be reasonably related to the proportional change in the Work and any other costs incurred by Contractor. If Owner agrees to Contractor's statement Owner shall notify Contractor thereof in writing in the form of a change order, whereupon the change in the Work shall be incorporated in the Work and immediately implemented. In the event that the change relates to a reduction in Work, the work in question shall not be undertaken pending the issue of an appropriate Change Order.

20. Governing Laws

This Contract shall be construed in accordance with and governed by the Laws of India without giving effect to any principle of conflict of law.

21. Jurisdiction

This Contract and the transaction contemplated herein shall be subject to the exclusive jurisdiction of the competent Courts in Mumbai only.

22. Dispute settlement:

Dispute or differences arising out or relating to this Order shall be resolved amicably by the parties. Failing such amicable resolution of dispute / differences either party may refer the matter to arbitration of a Sole Arbitrator to be appointed jointly by both the parties. The award of the Arbitrator shall be final, binding and conclusive on the parties. The venue for arbitration shall be Mumbai. The Arbitration proceedings will be governed and regulated by the provisions of Indian Arbitration and Conciliation Act, 1996 as amended from time to time and the rules framed there under.

23. Force majeure:

- 23.1 In the event of either party being rendered unable by force majeure to perform any obligation required to be performed by it under this Contract the relative obligation of the party affected by such force majeure shall, after notice under this articles be suspended for the period during which such cause lasts. The term 'Force Majeure' as employed herein shall mean acts of God, wars (declared or undeclared), riots or civil commotion, fire, floods, and acts and regulations of the Government of India or State Government or any of the statutory agencies. Both the party

shall pay to the other party, the amount payable upon the date of the occurrence of such force majeure.

- 23.2 Upon the occurrence of such cause and upon its termination, the party alleging that it has been rendered unable as aforesaid, thereby shall notify the other party in writing immediately but not later than twenty four (24) hours of the alleged beginning and ending thereof giving full particulars and satisfactory evidence in support of the claims.

- 23.3 During the period, the obligations of the parties are suspended by force majeure; the contractor shall not be entitled to payment of any rate.

- 23.4 In the event of the force majeure conditions continuing or reasonably expected to continue for a period more than thirty (30) days, Owner shall have the option of terminating the contract by giving seven (7) days notice thereof to the contractor.

24. Sub letting and Assignment

The contractor shall not, without prior consent in writing of the Owner, sublet, transfer or assign the contract or any part thereof or interest therein or benefit or advantage thereof in any manner whatsoever, provided nevertheless that any such consent shall not relieve the contractor from any obligation, duty or responsibility under the contract.

25. Limitation of Liability:

Notwithstanding anything contained in the Contract, the Contractor's aggregate liability under this Contract shall be limited 100% of the Total Contract value. This shall exclude liability arising pursuant to clause 3- Compliance to Local Laws, clause 9.10, clause 14- Indemnity against IPR, clause 13- Indemnity, clause 26 – Confidentiality, liability arising due to loss of or damage to the Free Issue Material (FIM) issued by Owner to Contractor for completion of the Work and liability arising due to wilful misconduct, gross negligence, third party claims and corrupt acts attributable to the Contractor.

26. Confidentiality:

The Contractor shall use the Confidential Information of the Owner only in furtherance of this Contract and shall not transfer or otherwise disclose the Confidential Information to any third party. The Contractor shall (i) give access to such Confidential Information solely to those employees with a need to have access thereto; and (ii) take the same security precautions to protect against disclosure or unauthorized use of such Confidential Information that the party takes with its own confidential information but, in no event, shall a party apply less than a reasonable standard of care to prevent such disclosure or unauthorized use.

27. Termination:

27.1 The Contract shall be deemed to be terminated on completion of the Contract period.

27.2 Termination of default by Contractor:
Owner may terminate the contract at any time if the Contractor fails to carry out any of his obligations under this Contract. Prior to termination, the Contractor shall be advised in writing of the causes of unsatisfactory performance to be improved upon 15 days of the receipt of notice. In case, if the Contractor fails to bring about the improvement to the satisfaction of the Owner, then the Contract shall be terminated.

27.3 Without prejudice to the rights and remedies available to Owner, Owner may terminate the Contract or part thereof with immediate effect with written notice to the Contractor if:

27.3.1 The Contractor becomes bankrupt or goes into liquidation.

27.3.2 The Contractor makes a general assignment for the benefit of creditors.

27.3.3 A receiver is appointed for any substantial property owned by the Contractor.

27.3.4 The Contractor is in breach of any representation or warranty made to the Owner by the Contractor.

The Contractor shall not be entitled to any further payment under the Contract if the Contract is terminated. If the order is terminated under clause 27.2 and 27.3, the Contractor shall not be entitled to any further payment, except that, if Owner completes the Work and the costs of completion are less than the Contract Price, the Owner shall pay Contractor an amount properly allocable to services fully performed by Contractor prior to termination for which payment was not made to Contractor. In case, the cost of completion of Work exceeds the Contract Price, the additional cost incurred by Owner for such completion shall be paid by the Contractor.

27.4 Owner shall be entitled to terminate the Contract at its convenience, at any time by giving thirty (30) Days prior notice to the Contractor. Such notice of termination shall specify that termination is for Companies convenience and the date upon which such termination becomes effective. Upon receipt of such notice, the Contractor shall proceed as follows:

27.4.1 cease all further work, except for such work as may be necessary and instructed by the Owner/ Owner's representative for the purpose of preserving and protecting Work already in progress and protect

materials, facilities and equipment on the Work Site or in transit;

27.4.2 stop all further sub-contracting or purchasing activity, and terminate Sub-contracts;

27.4.3 handover all Documents, equipment, materials and spares relating to the portion of Work already executed by the Contractor or procured from other sources up to the date of termination for which the Contractor has received payment equivalent to the value thereof; and

27.4.4 handover those parts of the supplies manufactured/ work executed by the Contractor up to the date of termination.

Upon termination pursuant to clause 27.4, the Contractor shall be entitled to be paid (a) all sums properly due to the Contractor under the Contract up to the date of termination; and (b) any direct and substantiated charges already incurred or committed for cancellation of the procurement of third party goods or services which were to have been supplied by the Contractor in connection with this Contract provided that the Contractor shall use its best endeavours to minimise such charges

25.5 The Contractor shall not be released from any of his obligations or liabilities accrued under the Contract on termination. For the avoidance of doubt, the termination of the Contract in accordance with this clause shall neither relieve the Contractor of his accrued obligations for Warranty or his accrued liability to pay (liquidated) damages for Delay nor shall entitle him to reduce the value of Performance Security.

28. Consequential Damages:

Unless otherwise specified, neither Party shall be responsible for and nor shall be liable to the other Party for indirect/consequential losses and damages suffered by such Party including for loss of use, loss of profit whether such liability or claims are based upon any negligence on the part of the other Party or its employees in connection with the performance of the Contract.

29. Environment / ISO 14001 Certification:

The Contractor to confirm whether their organization is ISO 14001 certified. If not, the Contractor must certify that the handling, use and disposal of their product / by-products conform to practices consistent with sound environmental management and local statutes. The Contractor shall ensure that all the wastes are disposed in environmental friendly way with strict compliance to applicable laws including adherence to MoEF guidelines with respect to disposal of batteries, lead waste, copper cables, ash, waste oil, e-waste etc which shall be disposed through MoEF approved

parties only. The Contractor shall also be responsible to collect and recycle all the e-waste generated at the end of the product life cycle at its own costs and risks as per the MoEF guidelines/orders.

30. Non-Exclusive Agreement

This Contract is non-exclusive and Owner reserves the right to engage other contractors to perform similar or identical work. Contractor shall accord such other contractors adequate opportunity to carry out their contracts and shall accomplish the Work in co-operation with those contractors and with Owner, in accordance with such instructions as may be issued by the Owner from time to time.

31. Severability

In the event that any of the provisions, or portions or applications thereof, of this Contract are held to be unenforceable or invalid by any court or arbitration panel of competent jurisdiction, Contractor and Owner shall negotiate an equitable adjustment to the provisions of the Contract with a view towards effecting the purpose of the Contract and the validity and enforceability of the remaining provisions, or portions or applications thereof, shall not be affected thereby.

32. Housekeeping & Removal of scrap:

The Contractor shall be responsible for keeping the areas of his work at site, neat and tidy throughout the period of his work. All excess material/ spares/ consumables taken by Contractor, as well as the scrapped items and wooden logs/ crates/ planks shall be returned, from time to time, to the Stores, and transported/ unloaded by Contractor's personnel at the place shown by Order Manager/Engineer-in charge.

The Contractor shall so arrange that all the scrap generated during the progress of his work, is separated into two categories, viz.

- i) Saleable scrap like steel, copper or other metals, etc., and,
- ii) Others, which have nil or negligible resale value, like insulation material, jute, debris, etc. (or as directed by the Order Manager/Engineer-in charge).

The saleable scrap shall be shifted to and unloaded at a central place as per directions of the Stores-in charge, while the other scraps shall be shifted to other locations as per directions from Order Manager/Engineer-in Charge, or as per terms of the order.

The Contractor shall arrange to remove the scrap on regular basis, or even on daily basis, depending upon the requirement, to keep the area around his workplace neat and tidy. In case, it is observed that the

Contractor is not carrying out regular cleaning of his areas of work, or, is not returning the excess materials/ scrap, etc., to the Stores, Owner reserves the right to arrange the same through other sources, and back-charge the Contractor the cost of doing so, along-with overheads, by deducting the amount from Contractor's bills.

Contractor's final bill will be cleared by Owner only after confirming that proper clearing of his areas of work has been completed by the Contractor, and same is certified by the Order Manager/ Engineer in-charge

33. Tata Code of Conduct

The Owner abides by the Tata Code of Conduct in all its dealing with stake holders and the same shall be binding on the Owner and the Contractor for dealings under this Order/ Contract. A copy of the Tata Code of Conduct is available at our website: <http://www.tatapower.com/aboutus/code-of-conduct.aspx>. The Contractor is requested to bring any concerns regarding this to the notice of our Chief Ethics Officer on the e-mail ID: cecounsellor@tatapower.com.

34. Responsible Supply Chain Management:

The Owner is committed for a cleaner environment and respect of Human rights through its Responsible Supply Chain Management policy. The Contractor is required to comply with all the environment & Human rights related laws, including emission norms, Labour and environmental regulations. The Owner encourages its Vendors/ Contractors/ Business partners to pay more attention to green design, green supply, green production, green logistics and green packaging in performing their business obligations.

The Contractor is required to abide by the Tata Power Corporate Environment policy, Energy Conservation and Corporate Sustainability Policy.

A copy of the Responsible Supply Chain Policy along with Environment policy, Energy Conservation policy, Sustainability policy, Health & Safety policy and Human Rights policy is available at website: <http://www.tatapower.com/sustainability/policies.aspx>.

Contractor/Bidder is required to completely fill the attached "Supplier Sustainability Questionnaire" in support of their Green Supply Chain Management initiatives and submit the same with their offer.

The Owner recognizes that diversity in the workplace positively impacts business. The Owner is committed to help people from SC/ST background either by helping them to become entrepreneurs or by engaging workforce from SC/ST community under the contracts agreed herein. To encourage engaging SC/ST community, the owner may consider on the merit to incentivize the Contractor by paying additional 1% of

the service contract portion if the number of SC/ST workforce engaged in the contract exceeds 30% of the total deployed strength and 2%, if the strength goes beyond 50%. While the Contractor will assist the workforce so engaged to become self-reliant in meeting the work expectation, the Owner may also volunteer its training resources to the extent possible to improve their employability. The Contractor shall maintain the proper documentation of such category of the workforce engaged and the owner may consider to pay the incentive after its verification.

The Owner may also consider extending price preference of 5% in the bid evaluation for an order value up to Rs.50 Lacs, provided the company is owned by a person from SC/ST community having minimum 50% holding in the company.

35. Vendor rating:

You are requested to ensure compliance to the terms of the individual orders with regards to timely delivery, provision of all applicable documents / challans / test certificate, quality of the material etc. Your performance with respect to the said factors will be taken into consideration for future business.

36. Vendor Feedback:

34.1 In this dealing Vendors feedback is important for the purchaser to improve its processes. If Contractor have to report any grievance, problem or require any clarification, information, Contractor is requested to contact purchaser at email ID:
CC_CUSTOMERFEEDBACK@tatapower.com

34.2 Contractor is requested to ensure compliance to the terms of the individual orders with regards to timely delivery, provision of all applicable documents / challans / test certificate, quality of the material etc. Contractor performance with respect to the said factors will be taken into consideration for future business.

37. Non-Waiver:

Failure of Owner or its representatives to insist upon adherence to any of the terms or conditions incorporated in the Contract or failure or delay to exercise any right or remedies herein or by law accruing, or failure to promptly notify the Contractor in the event of breach or the acceptance of or the payment of any Material(s) hereunder or approval of any design or Material(s) shall not release the Contractor and shall not be deemed a waiver of any right of Owner to insist upon the strict performance thereof or of any of its rights or remedies as to any

such Material(s) regardless of when the Material(s) are shipped, received or accepted not shall any purported oral modification or revisions of the Contract by Owner or its representative(s) act as waiver of the terms hereof.

ESG FRAMEWORK FOR BUSINESS ASSOCIATES

Tata Power's Sustainability philosophy sits at the core of its Business Strategy. Tata Power Sustainability Model has an overarching objective of 'Leadership with care' with key elements of 'Care for the Environment'; 'Care for the Community'; 'Care for our Customers / Partners' and 'Care for our People'. These sustainability objectives encompass the Environmental, Social and Governance objectives driven as integrated elements.

Tata Power, together with its stakeholders is determined to achieve sustainable growth while creating shared value for all.

As a part of future ready roadmap, Tata Power has targeted following as our Environment, Social and Governance priorities:

- Being Carbon Net Zero before 2045
- Growing Clean capacity (80% by 2030)
- Customer centricity
- Becoming water neutral before 2030
- Achieving zero waste to landfill before 2030
- No net loss of biodiversity before 2030
- Positively impacting 80 million lives by 2027

In order to create a sustainable business ecosystem, Tata Power expects that all its Business Associates (BA) which includes its suppliers, vendors, consultants and service providers to align to its ESG and sustainability commitments.

Tata Power encourages improved efficiencies and scaling up of green initiatives through technology and innovation taking us farther on the journey of reducing carbon emissions and preparing the entire eco-system towards products and services that would have net positive impact on the environment and communities that we operate in.

The Vendors/ bidders wishing to associate with Tata Power are expected to share their own sustainability and ESG journey. We at Tata Power promote all Business Associates to have a sustainable procurement policy for their supplier and service providers to contribute to our integrated approach in achieving a sustainable supply chain. The BA is encouraged to carry out the assessment of their sub-contractors and sub-vendors on sustainability readiness so that they are aware of the expectation/ business requirement.

The Vendor/ Bidder shall fill-in the 'Environment, Social and Governance Compliance Screening Questionnaire for Business Associates' attached at Annexure-I and submit the same along with the Bid in Ariba online platform.

Responsible Supply Chain Management:

Tata Power is committed for a cleaner environment and respect of Human rights through its Responsible Supply Chain Management policy.

Tata Power Business Associate (BA) shall comply with all the environment & Human rights related laws, including emission norms, Labour and environmental regulations.

Tata Power encourages its BA to focus on green design, green supply, green production, green logistics and green packaging in performing their business obligations. The BA is expected to abide by the Tata Power Corporate Environment policy, Energy Conservation and Corporate Sustainability Policy (enclosed with this document as Annexure-II).

The BA is expected to:

- Strive towards Conservation of Energy, Water, Resources and optimize transportation of Men & Materials to minimize environmental impact and reduce carbon footprint.
- Carry out the assessment of materials used for construction, operation & maintenance, consumables and accordingly phase out those materials which are environmentally hazardous.
- Be cognizant that diversity in the workplace positively impacts business.
- Promote affirmative action by supporting people from SC/ ST background by engaging workforce from SC/ ST community under the contracts agreed herein.
- Share the commitment of 'No child labour', 'No forced labour', Non-discrimination on the basis of caste, colour, religion, gender, disability, maternity or pregnancy or any other factor unrelated to the requirements of the job
- Pay the wages or remuneration to the workforce, personnel deployed in compliance to all applicable laws and regulations.
- Provide its employees/ deployed labor with an employment environment that is free of physical or psychological harassment.
- Carry out the assessment of their Sub-contractors on their Sustainability Readiness so that they are aware of the above expectation/ standards
- To ensure usage of suitable package material which is more environmentally sustainable. Further the packing material shall be recycled to the extent possible. The material used for packing is expected to suit the mode of transport and to ensure its safe receipt at point of delivery.

Waste Disposal:

The BA is expected to follow best practices for disposal of waste, few of which are listed below:

- Have a detailed project plan that includes the waste management, segregation of all designated waste material (Recyclable/ Non-Recyclable), collecting, storing, disposing and transferring the same to pre-arranged facility/ destination in timely and safe manner as per environmental legislations. The project plan shall also include the innovative construction practice to eliminate or minimize waste, protect surface/ground water, control dust and other emissions to air and control noise.
- Have purchase policy to encourage the procurement of material with recycled and minimum packaging of goods during delivery and appropriate means for site-to-site transportation of materials to avoid damage and litter generation.
- Ensure that the residents living near the site are kept informed about proposed working schedule and timings/ duration of any abnormal noise full activity that is likely to happen.
- Ensure the regular maintenance and monitoring of vehicles and equipment for efficient fuel use so that emissions and noise are within acceptable limits to avoid air pollution.

Water Management:

The BA is expected to follow best practices for water management, few of which include a management and monitoring system for water withdrawals and consumption, procedures to reduce water usage or reuse/recycle water, and pretreatment of wastewater before disposal.

Compliance to Law:

The BA shall adhere to responsible business practices and comply with the provision of all the Statutory Acts Applicable. Special attention of the BA is drawn towards the compliance of provision of the following statues: (along with the latest amendments/additions, as applicable):

- The Child Labour (Prohibition and Regulation) ACT, 1986.
- The Contract Labour (Regulation and Abolition) ACT, 1970.
- The Employee's Pension Scheme, 1995.
- The Employee's Provident Funds and miscellaneous provisions Act, 1952.
- The Employees State Insurance Act, 1948.
- The Equal Remuneration Act, 1976.
- The Industrial Disputes Act, 1947.
- The Maternity Benefit Act, 1961.
- The Minimum Wages Act, 1948.
- The Payment of Bonus Act, 1965
- The Payment of Gratuity Act, 1972.
- The Payment of Wages Act, 1936.
- The Shops & Establishment Act, 1954.
- The Workmen's Compensation Act, 1923.
- The Employer's Liability Act, 1938.
- and any other applicable statutory act

Social Accountability (SA 8000):

Tata Power expects its BAs to follow guidelines of SA 8000:2014 on the following aspects

- Child Labour
- Forced or Compulsory Labour
- Health & Safety
- Freedom of Association & Right to Collective Bargaining
- Discrimination
- Disciplinary Practices
- Working Hours
- Remuneration
- Management System

Health and Safety

The BA is expected to ensure the health and safety of his and his Sub-contractor's staff and labour. The BA shall, in collaboration with and according to the requirements of the local health authorities, ensure that medical staff, first aid facilities, sick bay and ambulance service are available at the accommodation and on the Site at all times, and that suitable arrangements are made for all necessary welfare and hygiene requirements and for the prevention of epidemics. The BA shall maintain records and make reports concerning health, safety and welfare of persons deployed, and damage to property, as the Owner's Representative may reasonably require. The BA shall be responsible for the medical treatment / hospitalization of his and his Sub-contractor's staff/ labour.

The BA shall appoint a qualified Safety officer at the Site to be responsible for maintaining the safety, and protection against accidents, of all personnel on the Site. Such Safety officer shall have the authority to issue instructions and take protective measures to prevent accidents.

The BA shall comply in toto with the Tata Power's Contractor Safety Terms & Conditions, Health Safety & Environment Manual while working on Tata Power Site/ Services/ Contracts.

Grievance Mechanism

The BA is expected to have grievance procedures that allow stakeholders to anonymously bring environmental and/or work-related violations and/or concerns to the attention of management. In addition, the BA is expected to have procedures for examining reports of environmental and/or work-related violations or concerns and/or privacy complaints.

Data Protection

The BA is expected to have a formal process to address data security or privacy issues.

ANNEXURE-I



Sr. No.	Question Description	Response (Y/N)	Remarks
Organization			
1	Does your Company have Sustainability Policy at Organization Level? If Yes, Please attach		
2	Do you have sustainable procurement policy in place for your own suppliers? If Yes, Please attach		
3	Does your company do regular assessment of its suppliers on ESG parameters?		
4	Are there ESG risks, or negative impacts identified in your supply chain		
Governance			
1	Is diversity taken into consideration when appointing board members/ senior management? Do you have an independent director/s?		
2	Has your company taken initiatives to ensure ethical practices at workplace? Please share the details, Policies etc.		
3	Does your company have a formal process to address data security or privacy issues? Please share the details, Policies etc.		
4	Does your company have grievance mechanism for stakeholder issues and track resolution?		
Environment/ Planet			
1	Does your company have Environmental Policy? If Yes, Please attach		
2	Do you have a formal process for waste management including solid wastes, liquid wastes and hazardous waste?		
3	Does your company track greenhouse gas emission? Also, what percentage of own consumption comes from the renewable energy?		
4	Does your company have a formal process for water management including monitoring of water consumption and withdrawals, and if applicable, pretreatment of wastewater?		
Green Technology/ Innovation			
1	Are your facility/ Product/ Services provided by you is based on green design, green production, green packaging or green logistics considerations? Please elaborate.		
2	Do your products or services have any environmental or social features or benefits (e.g. environmental/energy certification, ecolabels, fair trade certification, etc.)?		
Social/ People			
1	Does you facility/ Company have written personnel policies in place Are you an equal opportunity employer?		
2	Please describe any formal programme / campaign in place to promote company involvement with the community (volunteering, etc.). What is the percentage of profit spend on community activities?		
3	Does your company have a written Health & Safety Policy or Program? If Yes, Please attach		
Certifications: Does your company have following certifications (valid till date-please mention validity)			
1	ISO9001 accreditation		
2	SA8000 or equivalent		
3	ISO 14001 certification		
4	ISO 18001/45001 or equivalent		
5	ISO/IEC 27001 or equivalent		
6	Any Other (Please specify)		

Signature

Business Associate Name

ANNEXURE-II

CORPORATE SUSTAINABILITY POLICY

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

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

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



(Praveer Sinha)
CEO & Managing Director

Date: 15th June, 2018



The Tata Power Company Ltd		Appendix 2 to CSCC Safety Terms and Conditions
Document No. TPSMS/GSR/STC/009 REV 06		Date of Issue: 01/03/2024

Appendix 2: Safety Terms and Conditions

Reason for Change	Date of Last Revision	Prepared By	Reviewed By	Approved by
Periodic Revision and Inclusion of Procedures and formats from BASCC.	<u>1 Aug 2023</u> <i>(Rev 5)</i>	All Discom and CFT members	Corporate Safety Team	Suresh H Khetwani <i>(Chief safety and Environment)</i>

Corporate Safety Team.

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1.0 Objective:

The Objective of Safety Terms and Conditions is to apprise the Business Associates about various expectations from the BA to implement Tata Power Health & Safety Management System without fail.

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.

3.0 Safety Organization & Responsibilities

3.1 Business Associate Site Management and Supervision

Each Business Associate 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 Business Associate 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 Business Associate 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 Business Associate 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.

(For any specific & specialized work, site safety supervisor will be decided by SCG)(R6)

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.

Site Manager of Business Associate /Sub Vendor is responsible, and will be held accountable, for the safety of their own workforce as well as that of sub-Business Associate s. 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 Business Associate Supervisors and General Staff.

Business Associate s' 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.

The BA's supervisor is the link between Tata Power Management and the BA (including his employees). (R6)

- He coordinates the work of his company's employee on site and is responsible & accountable for the safety of BA workforce. He will collaborate with site safety supervisor (SSS). BA's supervisor shall review the Safety requirements with his employees prior to the beginning of each job. Documentation of this review shall be forwarded by him to the Order Manager.(R6)

- Assigning jobs to his workers, inspection of tools, equipment & PPEs , reporting of incidents & near-misses, housekeeping of work area and carrying out Safety Audits.(R6)
- Deployment of all applicable Safety standards & procedure as mention in Safety Term& Condition CSMF2 during execution of the jobs.(R6)
- Ensuring job specific training prior to execution of the job.(R6)
- Conducting Tool - box meeting and compliance of SOP & statutory requirements at work place, correction of all unsafe conditions and acts.(R6)
- BA'S Supervisor will deeply involve in making JSA through participation of work force.(R6)
- BA's Supervisor will invite all BA employees for participation & engagement daily ensuring 100% in either observation reporting, TBT, Mass Meeting and discussion for Risk Assessment & implementation of control measure.(R6)

3.3 BA Site Safety Supervisor (SSS)(R6):

- 3.3.1 SSS will carry out daily safety audit and inspections of tools, tackles, equipment and PPEs. They will identify and help in correcting the unsafe acts and unsafe conditions created while executing job t site with the help of BA's supervisors (R6).
- 3.3.2 SSS will ensure his participations in TBT and Mass Meetings regularly. They will also ensure reporting of all incidents & near-misses and participate in incident investigation (R6).
- 3.3.3 SSS will help in risk assessment of activities while developing SOP for the job (R6).
- 3.3.4 SSS will deeply involve in making JSA through participation of work force.(R6)
- 3.3.5 SSS will assist for participation & engagement of 100% BA employees daily in either observation reporting, TBT, Mass Meeting and discussion for Risk Assessment & implementation of control measure.(R6)

3.4 Business Associate Workforce

- 3.4.1 Business Associate shall provide adequate quality and quantity of manpower as mutually agreed. Generally, for each 10-15 workforce one supervisor is suggested. For all high risk jobs there shall be one Business Associates supervisor shall be deployed.(R6).
- 3.4.2 All the Business Associate 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.

- 3.4.3 Business Associate 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.
- 3.4.4 Business Associate / Vendor shall mobilize their manpower well in advance to complete the training through TPSDI/Sill development Institute.
- 3.4.5 The Vendor / BA shall arrange or bear the conveyance and food expenses incurred during training of BA employees in Odisha Discom.
- 3.4.6 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 BASCC. Those who fail in the competency assessment shall undergo training again.
- 3.4.7 Supervisors/Welder/Electricians/Line man /Fitters /Radiographers/Riggers engaged by the Business Associate shall have valid competency certificates issued by authorized agency/Institute.
- 3.4.8 Business Associate 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.
- 3.4.9 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.
- 3.4.10 All employees shall report hazardous conditions, practices and behaviours in their work areas and correct wherever possible.
- 3.4.11 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.

3.5 Business Associate (Vendor) /sub-Vendor

- 3.5.1 Vendors/Business Associate 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.
- 3.5.2 After receiving the work order/ purchase order vendor/Business Associate /bidder shall not appoint Sub-Business Associate without safety assessment of the sub-Business Associate through safety concurrence group Under Business Associate Safety Code of Conduct. Penalty of 5% of contract value will be applicable to the Business Associate if sub-Vendor is appointed without the permission of SCG and without evaluation through BASCC process.

- 3.5.3 For engaging any sub-Vendor, the Prime Vendor as well as the sub-Vendor should be individually registered with Tata Power. Sub-contracting or hiring of others, by the BA to perform the services is subjected to specific, prior approval by the CA/OM. Such approval shall depend upon compliance with the following minimum requirements (R6)-
- i. Sub-vendors identified by the Prime vendor will be subject to the same Safety Potential Evaluation Criteria as the Prime vendor for all Medium-risk/High-risk job where supervision will be done by the sub- vendors. In such cases, vendors must have a Star-rating of 4 or above, for becoming a sub- vendor(R6).
 - ii. The SCG team shall evaluate the Safety and technical competency of the sub-contractors for High risk job(R6)
 - iii. The Departmental Head will have the authority to approve any sub-contracting process based on requirement as submitted by the Prime Vendor (See CSM F-14 Sub-Vendor Engagement Request Form).
 - iv. No Safety potential evaluation shall be conducted for sub-letting of Low risk work(R6).
 - v. The Prime vendor shall be fully liable and responsible to Tata Power for the acts, errors, and omissions of its sub-vendors and shall be relieved neither of any obligation to Tata Power under the contract, nor of any other legal requirements(R6).
 - vi. The Prime vendor shall use only sub-vendors of demonstrated experience and reliability regarding the services to be provided(R6).
 - vii. The Sub-vendor shall agree in writing to be bound by all obligations of the Prime vendor set forth in the Contract.(R6)
 - viii. Safety performance evaluation shall be done for both prime vendor & sub-vendor.(R6)

Types of Sub-contracts and Associated Requirements (R6):

- I. Sub - Vendor working with his own supervision:- Sub-vendors must achieve a minimum Star-rating of 3 for performing High risk jobs under Tata Power supervision or under the Principal/Main Vendor (Prime Vendor).(R6)
- II. Sub-vendor working under Prime vendor's supervision (as supplier of manpower):- Manpower-supply contracts have to be supervised by the Prime vendor and the Prime vendor's Star- rating has to be taken into consideration. Vendors supplying manpower need not qualify in the Star-rating assessment.(R6)
- III. 3. Only one level of sub-contracting is allowed, and the use of any sub-vendors must be authorised by Tata Power before any contract is finalised. Sub-vendors shall be subject to the same registration and selection/screening processes, as well as the same Safety performance requirements as those required of all Tata Power vendor's. Sub- vendor details are to be attached to the main contract during the RFQ stage. The process of sub-contracting is to be approved by the Chief / Head of the department (BASCC - Appendix#14).(R6)

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4.0 Procedure (R6).

4.1 Registration of Business Associates (Vendors):

For Vendor Registration, Contract Department will issue following documents for evaluation of Business Associate’s safety capability.

- 1) **CSM F2 Safety Terms and Conditions (R6):** The document **CSM F2 Safety Terms and Conditions** provides the information about Tata Power-Division /Odisha Discom safety System to the Business Associate
- 2) **CSM F3 Safety Category Qualification Form(R6)::** Business Associate will submit the **CSM F3 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.

CSM F3 (R6): - Safety Category Qualification form

1. “**Safety Category Qualification Form**” is part of vendor registration form. It needs to be filled by the Business Associate 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 Business Associate 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	i. Y/ N ii. Y/ N iii. Y/ N	If Yes, Attach copy of the certification. If No, mention plan to get the certification.

Name of the Vendor:																			
	(ISO certificates to be issued from reputed accreditation agencies specified by Tata Power)																		
2	Safety Statistics for current and Last Three (3) Years - LTIFR - LTISR	Yes/No	<table border="1"> <thead> <tr> <th></th> <th>Current Year</th> <th>Year 1(Last FY)</th> <th>Year 2</th> <th>Year 3</th> </tr> </thead> <tbody> <tr> <td>LTIFR</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>LTISR</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>		Current Year	Year 1(Last FY)	Year 2	Year 3	LTIFR					LTISR					
	Current Year	Year 1(Last FY)	Year 2	Year 3															
LTIFR																			
LTISR																			
3	Any Compensation paid due to accidents during current and last three years?	Yes/No	<table border="1"> <thead> <tr> <th></th> <th>Amount (INR)</th> <th>Manhour</th> </tr> </thead> <tbody> <tr> <td>Current Year</td> <td></td> <td></td> </tr> <tr> <td>Y1 (Last FY)</td> <td></td> <td></td> </tr> <tr> <td>Y2</td> <td></td> <td></td> </tr> <tr> <td>Y3</td> <td></td> <td></td> </tr> </tbody> </table>		Amount (INR)	Manhour	Current Year			Y1 (Last FY)			Y2			Y3			
	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.																

Name of the Vendor:			
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.
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.

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Name of the Vendor:			
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 :

- 3) **CSM F4 Safety Potential Evaluation Criteria** : The SCG will evaluate the details submitted by the Business Associate based on a predetermined criteria **CSM F4 Safety Potential Evaluation Criteria along with Star Rating(R6)** for Vendor Registration and will determine the category (Category A/B/C/D) for which the Business Associate 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 Business Associate does not qualify the safety criteria, the Business Associate will not be registered. However, he may apply afresh for registration after 6 months.

CSM F4 - Safety Potential Evaluation Criteria for Vendor Registration *(For Information to BA-Not to submit by BA) R6*

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**)

Star rating criteria score: 5 Star- 90 to 100, 4 Star- 80 to 90, 3 Star- 70 to 80(R6)

Sr No	Description	Weight age (%)	Actual Score
1	Does the service provider have a valid 45001 Certification?	10	
2	<u>Performance Measure: Lead Indicator</u> <u>(Ref to Safety Performance evaluation report CSM F11 (A) Lead indicator score)(R6)</u>	40	
3	<u>Performance Measure: Laq Indicator</u> <u>(Ref to Safety Performance evaluation report CSM F11 (B) Laq indicator score)(R6)</u>	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 5 Marks.	5	
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 <ul style="list-style-type: none"> ✓ Safety Officer: >80% of employees: 5 Marks, 50 to 79% of employee: 2.5 Marks and <50%: Zero. ✓ Safety supervisor: >80% of employees: 5 Marks, 50 to 79% of employee: 2.5 Marks and <50%: Zero. ✓ Workmen: >80% of employees: 10 Marks, 50 to 79% of employee: 5 Marks and <50%: Zero 	20	
6	Check the organizational structure for safety professionals & engineers / supervisors. <ul style="list-style-type: none"> ✓ Check Availability of number of Safety Supervisor from government recognized institute as per workforce strength. 1 in 50 employees than 5 Marks <u>otherwise Zero.</u> (R6) 	5	
	Total	100	

Evaluation Criteria for Category C

Sr no	Description	Weight age (%)	Actual Score
1	Does the Business Associate 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	

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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 ✓ Safety Officer: >80% of employees: 5 Marks, 50 to 79% of employee: 2.5 Marks and <50%: Zero. ✓ Safety supervisor: >80% of employees: 5 Marks, 50 to 79% of employee: 2.5 Marks and <50%: Zero. Workmen: >80% of employees: 10 Marks, 50 to 79% of employee: 5 Marks and <50%: Zero	20	
	Total	100	

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 $\geq 70\%$.

4.1.1 Star Rating(R6):

SCG will evaluate Star Rating as per following -

- Initially potential Star Rating based on CSM F4 Safety Potential Evaluation Criteria
- After 6 month actual star rating assessment to be carried out based on CSM F4 Safety Potential Evaluation Criteria and safety performance evaluation.
- Odisha Discom & New Business Star Rating process will be applicable only 1 year after implementation of it.
- Based on Safety capability score Vendors rating will be evaluated (For 3 star rated vendors - within 12 months from previous assessment date and for 4 & 5 Star rated vendors – within 24 months from previous assessment and Re-assessment within three months from previous assessment date when a vendor is unable to achieve Star rating 3)
- Category A - Vendor must require Safety Star Rating 4 and above.
- Category B - Vendor must require Safety Star Rating 3

Star Rating will be evaluated by Third Party from FY 26

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4.2 Contract Preparation(R6).

Safety bid Evaluation will be done only for medium and high risk (R6). The RFQ will be attached with CSM F2 Safety Terms and Conditions which includes following Documents

- 1) CSM F6 Safety Competency Assessment Form
- 2) CSM F8 PPE requirements
- 3) 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.)

Safety bid evaluation will not be done for category C and D.

BA shall submit duly filled **CSM F6 Safety Competency Form** along with the bid. SCG will evaluate the document as per the **CSM F7 Safety bid evaluation criteria**. **Site Safety Management Plan CSM F9**, defining the complete procedure of executing the job at site will be signed by the Business Associate and SCG after mutual agreement. BA 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.**

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
Project /AMC Manager()						
Site In Charge						
Safety Manager						
Safety Officer						
Supervisors						
Technicians						

High Skilled workmen						
Skilled workmen						
Semiskilled workmen						
Lineman						
Helpers						
Drivers						
Unskilled						
<u>Others()</u>						

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

- 4.1.1 **Subcontracted – Red** If subBusiness Associate 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-Business Associate s follow the Tata Power Safety Procedure and agreed CSM F9 Site Safety Management Plan.

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

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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 Business Associate at Site. Bidder to also list down all high-risk activities and provide the Hazard Identification and Risk Assessment (HIRA) for all such high-risk activities involved in the site work.

(Use Method Statement template attached as Appendix 9)

5. PPE Requirement -

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-()

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

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 crane ACE Model SX150, ACE FX150 and Escorts Model TRX 1550.

SI 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:

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	

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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. 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.

CSM F7 Safety bid evaluation criteria. If any specific condition related to Contract is required to be conveyed to the Business Associate, 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 Business Associate will be considered for evaluation by contract team only if Business Associate is qualified in safety bid. Site Safety Management Plan, defining the complete procedure of executing the job at site will be signed by the Business Associate and SCG after mutual agreement. Contract shall attach a copy of Site Safety Management Plan along with PO to the successful bidder.

CSM F7 - Safety Bid Evaluation Criteria (For Information to BA-Not to submit by BA) (R6)

Safety Bid Evaluation will be based on following parameters.

Evaluation Criteria

S. No.	Description	Max Marks	Criteria for evaluation
1.	Qualification and Experience of manpower	15	As per Clause No. 1 <u>CSM F6 (R6)</u>
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 <u>CSM F8.(R6)</u>

4	Job Safety Plan/ Method	15	To be evaluated as per as per SOP/WI/HIRA
5	Vehicle Deployment	5	<u>Weightage will be given for CNG/Electrical Vehicles with endorsement of CNG kit on RC (R6)</u>
6	Crane and Mechanized heavy equipment Deployment	15	<u>Date of manufacturing or running hours or stipulated in laws.(R6)</u>
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
Total		100	

Safety Records (Lag Parameter)-

1.	Fatal Accident	(-) 10 Marks for each case with max of 15 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)	(-) 5 Marks for each case with max of 10 marks	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. 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.

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	Weightage (%)	Score Obtained
Manpower	Safety Officer (1 per 500 workers) or as per requirement	<p>Qualification - 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>Experience- Minimum 2-year experience in relevant field as mentioned in the job in PR.</p>	5	
	<p>Safety Supervisor (1 per work site up to max. 50 workers)</p> <p><u>(For any specific & specialized work, site safety supervisor will be decided by SCG)(R6)</u></p>	<p>Qualification- Supervisor shall possess ITI/ Diploma in relevant field. PDIS is desirable, but not mandatory. Require knowledge of Local language.</p> <p>Experience- Minimum 5-year experience in relevant field as mentioned in the job in PR.</p> <p>Training – Trained and certified by Tata power Skill development Institute or equivalent institute in relevant safety procedures.</p> <p>Note: On request of the Business Associate /Users -TPDSI should vet & certify the skilled & experienced Technician if Technical Qualification is not adequate.</p>	5	
	<p>Qualified Technician (Skilled workers as electrician, rigger, fitter, welder, cable</p>	<p>Experience- Minimum 2-year experience (or experience prescribed by state government) in relevant field as mentioned in the job in PR.</p>	5	

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	jointer, line men etc.)	Training – Trained and certified by TPSDI or equivalent institute in relevant safety procedures.		
Tools & Tackles	Equipment / Machines/ Tools & Tackles (lifting and shifting tools)	<p>The list of Equipment /Machines / Tools and tackles to be used for job to be submitted by the Business Associate .</p> <p>Evaluation of the list will be carried out based on</p> <ol style="list-style-type: none"> 1) Suitability as per the relevant job 2) Make and age of the tools from authorized agencies defined by the user. 3) Certification by the competent authority of respective state. 	15	

CSM F8 - PPE requirements

The Business Associate 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.

PPE Requirement

1	All Business Associate '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</i>

		from Manufacturing date-() & 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.	
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
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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	HDPE Safety helmet with chin strap and ratchet type for adjustment for Nonelectrical work and electrical work	IS:2925-1984/ EN 397/2012	
03	Full body harness (Safety belt) The straps at shoulder and thigh shall have full pad for comfort. The back shall be so designed that harness straps do not tangle with each other.	EN 361:2002 EN 358 : 2000 IS: 3521:1991/2002	

04	Electrical Safety Gloves – Composite type Soft electrical gloves as per size of individual.	EN: 60903 CE marked	
05	Full face visor with safety helmet	EN: 166 CE marked (Visor)	
06	Fireproof jacket for chest protection		
08	Reflective jacket to each workman	As per Tata Power standard	

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.

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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		
Scope of work: -		
Drawing References: -		
Detail of Sub Business Associate s involved: -		
Method Statement Prepared By: - Designation: - (e.g., Site Manager)	<u>Signature</u>	<u>Date</u>

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

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

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

5.0 Role & Responsibilities of Personnel/Parties Involved in activities: Clearly define roles and responsibilities of all personnel involved in activity i.e., Site management staff including sub-Business Associate s' staff, Project Manager/Site Manager of principal Business Associate , Sub Business Associate Site Manager, Project Engineer, Safety officer, Competent Supervisory Staff etc.)

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, Business Associate s. 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).

Fall Protection Measures: (Where Work at height cannot be avoided)							
Control Measures for Electrical Hazards							
Others Hazard if any (please provide details)							
Hazardous Substances to be used in job: (Attach MSDS if required)							
	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>	

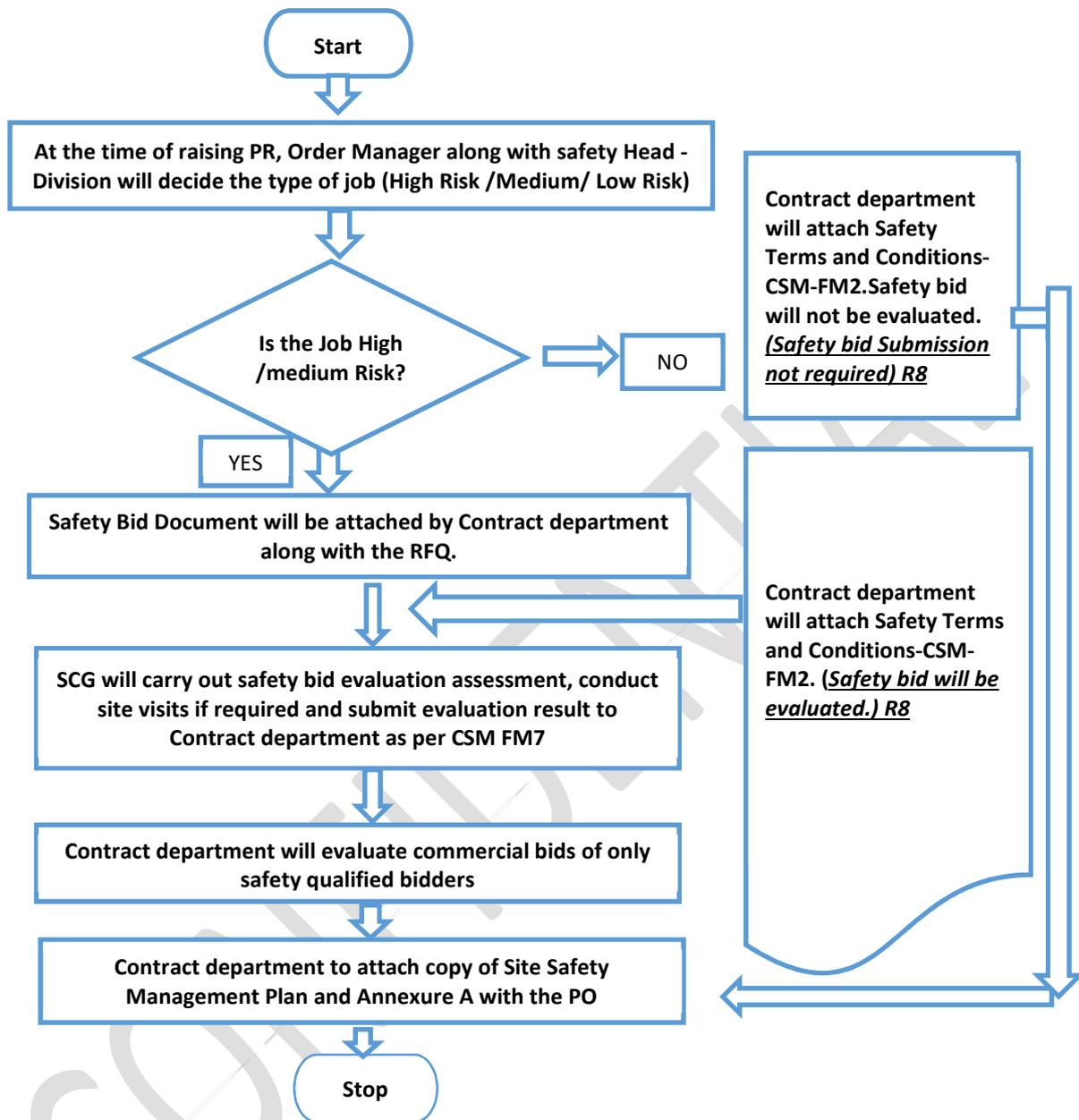
10.0 First Aid facilities and Nearby Hospitals Details

- 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.

4.3 Contract Award - refer CSM F5 Process Flow Chart for issuing RFQ and PO.



4.4 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 Business Associates training and related documentation to assure its adequacy.

4.4.1 Before issuing gate pass:

For Odisha Discom/New Business: All Tata Power Business Associate and sub Business Associate 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

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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 Business Associate and sub Business Associate 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.

4.4.2 Before start of actual work:

- 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
- Business Associate 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.
- 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.
- After expiry of Certificate or Training /Competency Card again one day recertification of L1, L2 and L3 skill training will be provided.
- Quarterly /Half yearly(For Odisha and New business) Revalidation Test - "SHE L1 Revalidation test" will be conducted for the Business Associate 's employees to revalidate their safety awareness and knowledge.
- 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.
- 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 Business Associate 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.
- Competency assessment of all critical workforce to be carried out for all who has taken L2 training.

4.4.3 Recognition to the Prior Learning in Safety

If “Order Manager” recommends and “Head of the Safety Department of Discom” is satisfied with the safety knowledge and competency of the employee of Business Associate , 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 Business Associate s 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.

4.5 Managing Work:

Order Manger shall -

- 1) Comprehensively assess and ensure field Safety implementation against Contract requirements and the Safety Management Plan.
- 2) Maintain a follow up process that drives continuous improvement in Safety practices and avoids repetition of common errors.
- 3) Order Manager and BA should aim at optimizing Safety performance of the Contract by working in a collaborative manner during the execution of the work.

This can be achieved by:

- Ensure that potential safety hazards are identified and controlled before any contracted work starts. Hazard identification should be conducted using multi-disciplinary teams which includes members from competent safety professional/execution team/competent BA supervisor & workforce to understand and identify project-specific safety hazards.
- Monthly inspection and replacement of damaged Personal Protective equipment -PPE & Critical Equipment, lifting Tools & Tackles and hand tools used at site.
- **PTW** - PTW procedure must be adhere and implement at site.
- Reviewing the Safety Management Plan (**CSM F9– Site Safety Management Plan**) before each stage of work begins.
- **TBT & Mass Meeting**: Every day Tool box talks to be conducted based on JSA/SOP with maximum participation of BA Workforce & Safety points to be shared by BA employee & line manager and 100% participation of BA employee & workmen in to mass meeting/communication.
- **BA Self safety audit**: BA Safety Supervisor will carry out daily safety audit and inspections of tools, tackles, equipment and PPEs. They will identify and help in correcting the unsafe acts and unsafe conditions created while executing job at site with the help of BA’s supervisors.

- All respective **Critical safety Rules & Procedures and General safety Rules & Procedures** to be use and implement at site during job.
- "**Suraksha Samwad**" also known as Safety Interaction is a proactive safety initiative. In this program, leadership engages with BA workmen and employees in a scheduled 30-minute session to discuss and observe safety practices in the workplace.
- **Reporting safety observations by BA employee:** This involves the active participation of the workforce in identifying and reporting safety observations, which can help prevent accidents and improve safety performance.
- **Felt Leadership for Business Associates Proprietor /Co-ordinators:** This program aims to develop leadership skills within the Business Associates Proprietor/Co-ordinators. It encourages individuals to take ownership of their work and fosters a culture of responsibility and accountability.
- **Behavior based safety program (Jivan Ki Aur):** It aims to create regular awareness among all ground staff. It seeks to sensitize them, establish relationships, foster teamwork, enhance communication, motivate and empower everyone, promote good health, and enable a happy and safe life. The program will cover various activities such as morning meetings, home visits, personal meetings, group meetings, short training sessions, games, and other forms of engagement.

4.6 Periodic Evaluation:

1. During the time of job execution, regular site inspection will be carried out by the Tata Power-Division /DISCOM officials **mainly Line manager (R6)** to evaluate monthly safety performance of the Business Associate as per **CSM F11 Safety Performance Evaluation Report (R6)** 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.
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 Business Associate, if such delays are attributable to Business Associate.
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.
6. Site contract team will arrange Quarterly meeting with Order Manager to take feedback for Safety performance of Business Associates In-turn Site Leadership and Site Contract team will give feedback of safety performance so as to take Corrective actions (R6).
7. CSM F11 Safety Performance Evaluation Report (R8) to be used to evaluate Star Rating of Business Associate for lead & Laq Indicator.

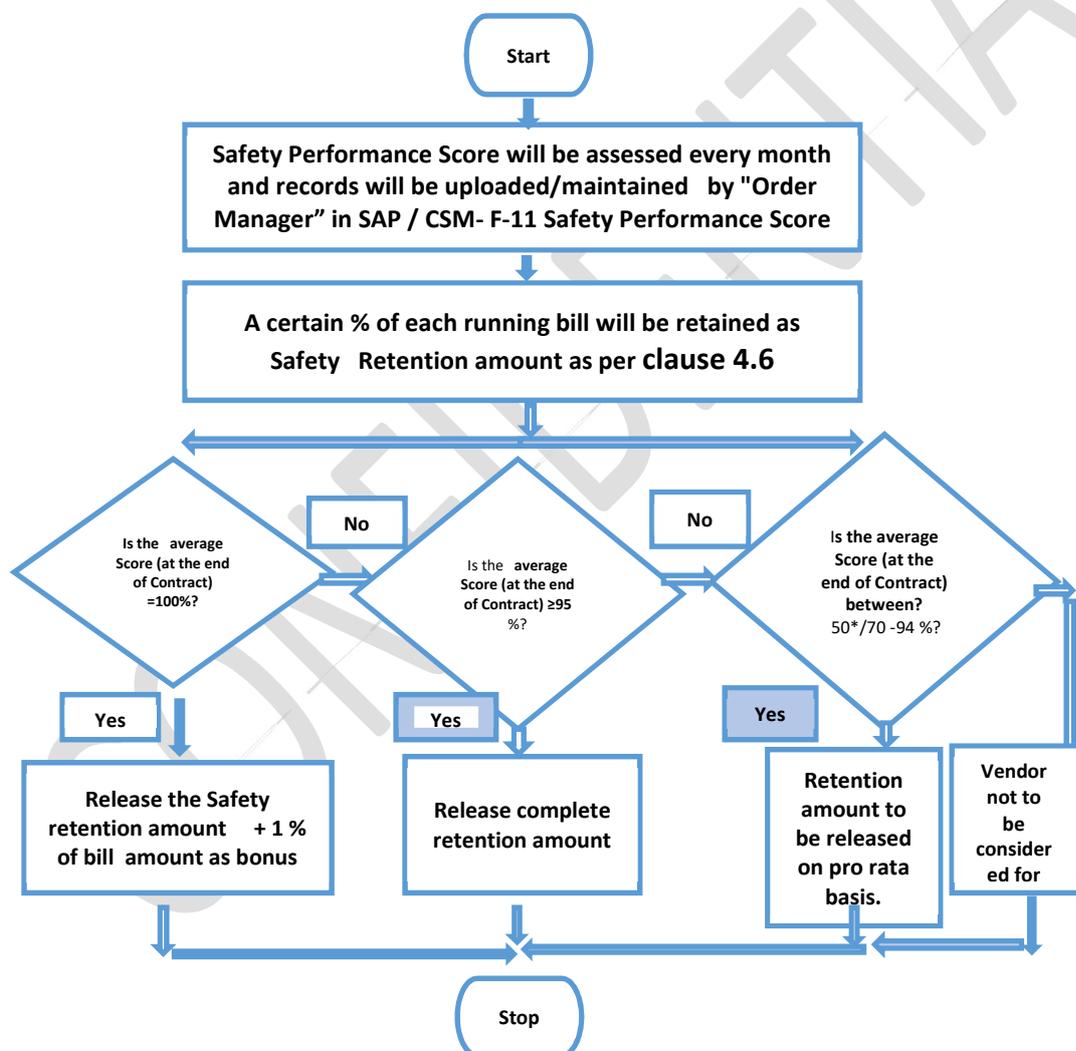
4.6.1 Safety performance retention: A certain percentage of the bill value will be retained against every running bill as safety performance retention. The amount will be released with the last invoice or every six-month based on Safety Performance Score of Business Associate s. The retention amount will be calculated based on contract value as below.

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

1. The safety retention amount will not be applicable if there is clause of Contract Performance Bank Guarantee (CPBG) and safety performance of Business Associate is as per desired criteria.
2. If safety performance of Business Associate 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)-then safety retention percentage as mentioned in table above will be deducted from running bill.
3. 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 Business Associate available with Tata Power for the said contract between the Business Associate and Tata Power.

4. The retention amount against non-safety performance saved and Penalty will go to a separate Safety Improvement Fund.
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%

CSM F10 – Process Flow Chart for Safety Performance Evaluation



CSM F11 - Safety Performance Evaluation Criteria (R6)

Safety Performance Evaluation Report- CSM F11

BA field safety audit (Safety Performance Evaluation for BA).

Division	Function						
Name of BA	Month						
Nature of Work	PO						
	A. <u>Lead Indicators</u>		100 (for star rating score will dividend scale of 2.5)			0	
	-	UOM	Target			Actual score for the month	
1	% of employees certified in Skill development institute/ authorized agency/Card issued.	% Workforce covered	100%	51% to 99%	50%	<50%	
	Score		10	Pro-rata	5	0	
2	Business Associate Safety Field Audit score	Severity score	2 to 3	3 to 4	>4		
	Score		10	5	0		
3	Monthly inspection and replacement of damaged Personal Protective equipment -PPE by contractor(Safety shoes, Induction helmet, full body safety harness with work positioning lanyard, rubber insulated gloves, reflective jacket etc.as per Job requirement)	% of total workforce	100%	99% to 50%	<50%		
	Score		10	5	0		
4	Monthly inspection and replacement of damaged Critical Equipment, lifting Tools & Tackles and hand tools used at site by BA (Neon Tester, Discharge rod,	% Total T&T	100%	99% to 50%	<50%		

	ladders Vehicle, Tools & tackles carried out and defective equipment replaced as required.						
	Score		10	7	0		
5	Unsafe Conditions/Acts (Potential Hazards), near miss(Close calls), minor injury(First aid cases and MTC) cases reported	Observation / Nos of workforce	0.50	0.25	<0.25		
	Score		10	7	0		
6	Monthly R&R for workforce along with Tata power reparative monthly	% of total workforce	10%	5%	0		
	Score		10	5	0		
7	Nos of workforce covered under program under Jivan Ki Aur/Ghar se Ghar tak/Surkhshit Pariwar ki aur	% of total workforce	10%	5%-10%			
	Score		10	0			
8	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			
	Score		10	0			
9	<u>Daily Toolbox talk and Weekly Mass communications covering 100 % workforce and records maintained or not(R6).</u>	% of total workforce	100%	50-100 %			
	Score		10	5			
10	<u>Check for housekeeping at site(R6)</u>	At least 3S.	YES	NO			
	Score		10	0			

	B. Lag Indicators		50 (for star rating score will dividend scale of 2.5)		0
			Target		
1	Number of Fatalities		0	>0	
Score	Score		30	0	
2	No of LWDC - Reportable		0	>0	
Score	Score		10 / 20*	0	
3	Major Fire		0	>0	
Score	Score		10 / 0*	0	
	Total score		150		0
	* Odisha				%
					0

CSM F12 - Safety Violation Penalty Criteria

Major Violations and Escalation matrix-

Consequence of safety violation observed not related to incidents or accidents		Violations				
Sl. No.	Safety Violation	1st	2nd	3rd	4th	Subsequent violation
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

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A	Levy of Penalty	Order manager / EIC	5000	The no. of repeat violations shall be calculated cumulative during the FY and deduction will be done from the monthly bills.(R6)
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	

Other Violations and Penalty

Penalty shall be imposed on the Business Associates 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
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 subBusiness Associate 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 TPSMS/GSP/GHK/022 <ul style="list-style-type: none"> • 1st Instant • 2nd instant • 3rd instant • 4th instant • Subsequent instants 	2	<ul style="list-style-type: none"> • 1000 • 2000 • 5000 • 10000 • 10000
28	Violations related to vehicles with respect to TPSMS/CSP/RSP/015. <ul style="list-style-type: none"> • Parking without wheel choke • Parking in undesignated area • Heavy vehicle without helper or co-driver • Seat belt not available / not used • Driver without license • Heavy vehicles without reverse horn • Using mobile phone while driving • Lights/mirrors not working /broken 	3	1000 per each violation

28	<p>Violation in Gas cutting and Gas cylinder handling</p> <ul style="list-style-type: none"> • Cylinder valve without guard • No flashback arrester • Leaky DA/Oxygen hose • Cylinders not kept in secured manner • Cylinder trolley not available • Cylinders are transported by manual rolling 	5	2000 per each violation
29	<p>Violations in Lifting Operations w.r.t. to TPSMS/CSP/HEMS/005</p> <ul style="list-style-type: none"> • Hook latch missing • Load raised or swung over people or occupied areas of building • Persons standing within the swing area of the crane • No barricading of crane working area • Use of damaged lifting tools and tackles • Lifting tools and tackles not tested / Test certificate expired • Crane operator without proper license • Angular loading • Lifting / shifting heavy material without guide rope • Using mobile phone during loading and unloading jobs 	5	2000 per each violation
30	<p>Violation in Scaffolding work w.r.t. to TPSMS/CSP/SCAF/007</p> <ul style="list-style-type: none"> • Unstable scaffolding/nonstandard Scaffolding in use • Handrails/mid rails/toe guards missing • Safety harness not anchored on fixed structure • Opening found in working platform 	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"> • Loose material falling into excavated pit • Water logging in excavated pits / trenches • Inadequate or no barricading • Undercut / cave in found on sides of excavated pits 	4	2000 per violation
32	<p>Caution boards, danger signs (luminescent /red) along with emergency contact number are not found displayed.</p>	3	3000
34	<p>Spillage of hazardous material/chemicals during transportation</p>	4	4000

Penalty for Incidents / Accidents-()

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				

Legend	Action to be taken	Responsibility	Penalty (INR)	The no. of violations shall be calculated cumulative during FY and deduction will be done just after Consequence of incident / Accident(R6)
F	Memo to BA and Levy of Penalty	Order Manager/Engineer in charge	200000	
G	Memo to BA and Levy of Penalty	Order Manager/Engineer in charge	500000	
H	Memo to BA, Levy of Penalty, Termination of Contract and Blacklisting the BA	Order Manager/Engineer in charge	1000000	

5.0 Tools and Tackles

5.1 Tools & Tackles used to carry out the job shall be checked and inspected by Order Manager and safety Officer.

5.2 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.).

5.3 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 through 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.

5.4 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.

6.0 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.

7.0 Critical safety Rules and Procedures:

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

7.1 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**

7.2 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**

7.3 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**.

7.4 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

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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.

7.5 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.

7.6 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.

7.7 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.

7.8 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.

7.9 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.

7.10 Electrical Safety Procedure.

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

7.11 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

7.12 Hazard Identification & Risk Assessment (HIRA) Procedure:

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.

7.13 Management Of Change (MOC) Procedure:

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.

7.14 Pre-Start-up Safety Review (PSSR) Procedure.

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.

7.15 Road Safety procedure:

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 Business Associates. For complete procedure kindly refer Procedure Document No - TPSMS/CSP/RSP/015.

8.0 General safety Rules and Procedure:**8.1 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,

8.2 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

8.3 Batteries Handling & Disposal

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

8.4 Material Handling and Storage Procedure:

The purpose of this document is to provide procedures to assist the safe handling

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of materials (manual handling and mechanical handling). For complete procedure kindly refer Procedure Document No – **TPSMS/GSP/MATL/004**.

8.5 Office Safety Procedure:

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**

8.6 Earth Leakage Circuit Breaker (ELCB) Testing Procedure):

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**.

8.7 Occupational Health & Safety Legal Compliance Procedure:

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**.

8.8 Incident Reporting & Investigation Procedure:

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**.

8.9 Business Associate Safety Management Procedure.

The purpose of this document is to engage with Business Associate s 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**.

8.10 Tree Trimming Procedure:

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**

8.11 Safe Lone Working Procedure:

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**.

8.12 Good Housekeeping(5S) Procedure:

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**.

8.13 Personal Protective Equipment:

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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**.

8.14 Process Safety Management Procedure:

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) for your reference.

9.0 Pre-Employment and Periodic Medical check-up:

Business Associate 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 Business Associate shall be able to produce the certificate prior to the employment. The Business Associate 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.

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10.0 Other Conditions:

10.1 The manpower/vehicles/Tools & Tackles/Equipment provided shall be as per mutually

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

agreed SLA.

10.2 No Supervision No work policy should strictly be followed.

10.3 Test Before Touch must be ensured every time a job is being carried out in electrical network.

10.4 HIRA /JSA as per the job scope must be prepared in detail and submitted along with Site Safety Plan by the successful bidder.

10.5 Personal protective equipment (PPE) must always be checked before use to ensure that they are in good condition and clean. Replace them if necessary.

10.6 All relevant PPE shall be provided by the vendor while working at the site.

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

10.8 Site Safety Plan shall be prepared by successful bidder along with order manager. 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.

10.9 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.

11.0 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 of attorney dated -----/Board resolution dated----/letter of authority dated----, hereinafter referred to as **Business Associate [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 (Business Associate) as well as my sub-Business Associate and its employees, representatives etc.
2. That I (the Business Associate) 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 Business Associate shall be fully responsible for ensuring occupational health and safety of its employees, representatives, agents as well as of its subBusiness Associate '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 Business Associate 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 Business Associate 's payments.
5. That the Business Associate 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 Business Associate 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 Business Associate 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.
8. That the Business Associate and its sub Business Associate s 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.

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9. That in case the Business Associate and/or any of its Sub Business Associate fail to ensure the compliance as required in terms of this undertaking the Business Associate 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 Business Associate /Sub Business Associate in complying with the same. Business Associate 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 Business Associate .

DEPONENT

VERIFICATION

Verified aton this Day of 20 that the contents of the above affidavit are true and correct and nothing material has been concealed therefrom.

12.0 General Safety Conditions for various contracts Specific to Odisha Discom

12.1 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 4th March, National Fire Service Day on 14th 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.

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- 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.

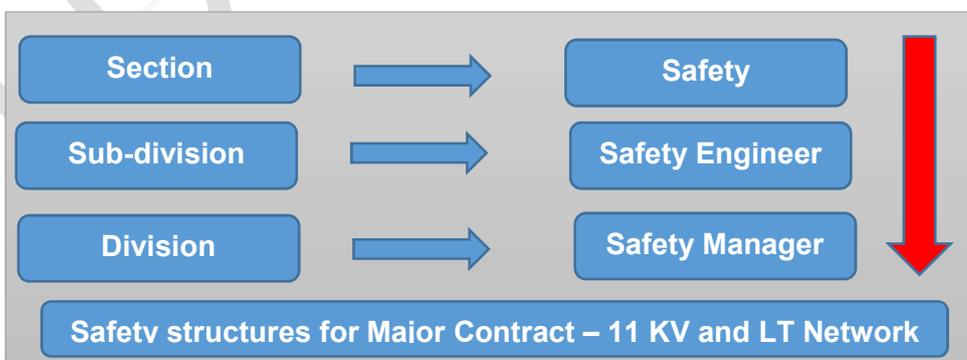


12.2 Safety Conditions for maintenance of 11 KV and LT Network.

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 4th March, National Fire Service Day on 14th 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.
- 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.



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12.3 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 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 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.

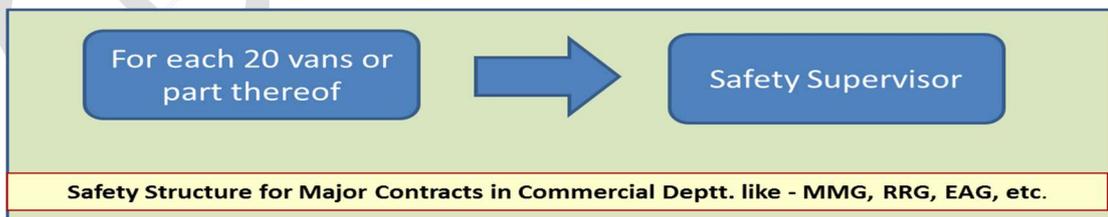


The Tata Power Company Ltd		Appendix 2 to CSCC Safety Terms and Conditions
Document No. TPSMS/GSR/STC/009 REV 06		Date of Issue: 01/03/2024

12.4 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:

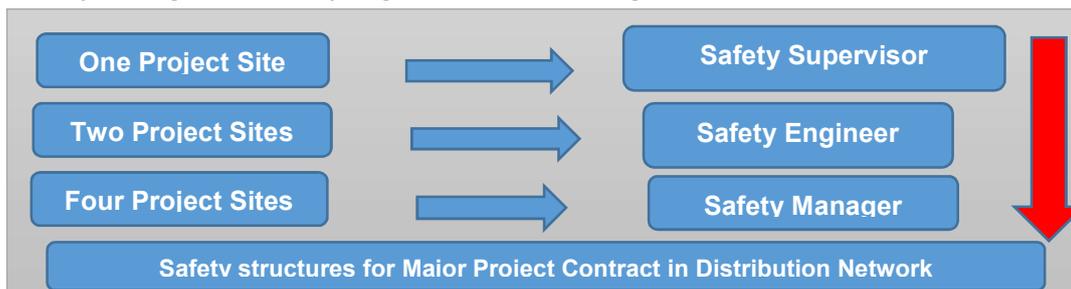
- BA shall provide Safety Policy, Safety Objectives, Organogram showing structure and responsibility of Safety management of his company and shall document the work practices and procedures in terms of Safety Management.
- BA shall comply with all statutory requirements like applicable acts, regulations, 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 4th March, National Fire Service Day on 14th 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.
- 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 a Safety Supervisor for managing safety at worksite.
- The BA for the RRG work shall depute one Safety supervisor.



12.5 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 4th March, National Fire Service Day on 14th 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.
- 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.



The Tata Power Company Ltd



*Appendix 2 to CSCC
Safety Terms and Conditions*

*Document No.
TPSMS/GSR/STC/009 REV 06*

Date of Issue: 01/03/2024

CONFIDENTIAL

CORPORATE ENVIRONMENT POLICY

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

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



(Praveer Sinha)
CEO & Managing Director

Date: 15th June, 2018



HEALTH AND SAFETY POLICY

We, at Tata Power, reaffirm our belief that the health and safety of our stakeholders is of the utmost importance and takes precedence in all our business decisions. In pursuit of this belief and commitment, we strive to:

- Maintain and proactively improve our management systems to minimize health and safety hazards to our stakeholders and all others influenced by our activities.
- Comply and endeavour to exceed all applicable occupational health & safety legal and other requirements by setting the highest standards.
- Integrate health & safety procedures and best practices into every operational activity with assigned line-functional responsibilities at all levels, for improving and sustaining health & safety performance.
- Involve our employees in maintaining a safe and healthy work environment through risk assessments, periodic reviews of operational procedures, safe work methods and adoption of new technology.
- Develop a culture of safety through active leadership and provide appropriate training at all levels to enable employees developing their skills to work safely.
- Incorporate appropriate health & safety criteria into business decisions for selection of plant and technology, performance appraisal of individuals and appointments in key positions.
- Ensure availability at all times of appropriate resources to fully implement the health & safety policy of the company.
- Promptly report incidents, investigate for root causes and ensure lessons learnt shared and deployed across the company.
- Ensure service providers and their workmen align with company's safety codes and practices for the health and safety of personnel working with us.
- Set safety & health metrics as indicators of excellence, monitor progress and continually improve performance.

We shall actively communicate this policy to all stakeholders by suitable means and periodically review its relevance in continuously changing business environment.



(Praveer Sinha)
CEO & Managing Director

Date: 15th June, 2018

TATA POWER

Lighting up Lives!



CORPORATE SUSTAINABILITY POLICY

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

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

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



(Praveer Sinha)
CEO & Managing Director

Date: 15th June, 2018



ESG FRAMEWORK FOR BUSINESS ASSOCIATES

Tata Power's Sustainability philosophy sits at the core of its Business Strategy. Tata Power Sustainability Model has an overarching objective of 'Leadership with care' with key elements of 'Care for the Environment'; 'Care for the Community'; 'Care for our Customers / Partners' and 'Care for our People'. These sustainability objectives encompass the Environmental, Social and Governance objectives driven as integrated elements.

Tata Power, together with its stakeholders is determined to achieve sustainable growth while creating shared value for all.

As a part of future ready roadmap, Tata Power has targeted following as our Environment, Social and Governance priorities:

- Being Carbon Net Zero before 2045
- Growing Clean capacity (80% by 2030)
- Customer centricity
- Becoming water neutral before 2030
- Achieving zero waste to landfill before 2030
- No net loss of biodiversity before 2030
- Positively impacting 80 million lives by 2027

In order to create a sustainable business ecosystem, Tata Power expects that all its Business Associates (BA) which includes its suppliers, vendors, consultants and service providers to align to its ESG and sustainability commitments.

Tata Power encourages improved efficiencies and scaling up of green initiatives through technology and innovation taking us farther on the journey of reducing carbon emissions and preparing the entire eco-system towards products and services that would have net positive impact on the environment and communities that we operate in.

The Vendors/ bidders wishing to associate with Tata Power are expected to share their own sustainability and ESG journey. We at Tata Power promote all Business Associates to have a sustainable procurement policy for their supplier and service providers to contribute to our integrated approach in achieving a sustainable supply chain. The BA is encouraged to carry out the assessment of their sub-contractors and sub-vendors on sustainability readiness so that they are aware of the expectation/ business requirement.

The Vendor/ Bidder shall fill-in the 'Environment, Social and Governance Compliance Screening Questionnaire for Business Associates' attached at Annexure-I and submit the same along with the Bid in Ariba online platform.

Responsible Supply Chain Management:

Tata Power is committed for a cleaner environment and respect of Human rights through its Responsible Supply Chain Management policy.

Tata Power Business Associate (BA) shall comply with all the environment & Human rights related laws, including emission norms, Labour and environmental regulations.

Tata Power encourages its BA to focus on green design, green supply, green production, green logistics and green packaging in performing their business obligations. The BA is expected to abide by the Tata Power Corporate Environment policy, Energy Conservation and Corporate Sustainability Policy (enclosed with this document as Annexure-II).

The BA is expected to:

- Strive towards Conservation of Energy, Water, Resources and optimize transportation of Men & Materials to minimize environmental impact and reduce carbon footprint.
- Carry out the assessment of materials used for construction, operation & maintenance, consumables and accordingly phase out those materials which are environmentally hazardous.
- Be cognizant that diversity in the workplace positively impacts business.
- Promote affirmative action by supporting people from SC/ ST background by engaging workforce from SC/ ST community under the contracts agreed herein.
- Share the commitment of 'No child labour', 'No forced labour', Non-discrimination on the basis of caste, colour, religion, gender, disability, maternity or pregnancy or any other factor unrelated to the requirements of the job
- Pay the wages or remuneration to the workforce, personnel deployed in compliance to all applicable laws and regulations.
- Provide its employees/ deployed labor with an employment environment that is free of physical or psychological harassment.
- Carry out the assessment of their Sub-contractors on their Sustainability Readiness so that they are aware of the above expectation/ standards
- To ensure usage of suitable package material which is more environmentally sustainable. Further the packing material shall be recycled to the extent possible. The material used for packing is expected to suit the mode of transport and to ensure its safe receipt at point of delivery.

Waste Disposal:

The BA is expected to follow best practices for disposal of waste, few of which are listed below:

- Have a detailed project plan that includes the waste management, segregation of all designated waste material (Recyclable/ Non-Recyclable), collecting, storing, disposing and transferring the same to pre-arranged facility/ destination in timely and safe manner as per environmental legislations. The project plan shall also include the innovative construction practice to eliminate or minimize waste, protect surface/ground water, control dust and other emissions to air and control noise.
- Have purchase policy to encourage the procurement of material with recycled and minimum packaging of goods during delivery and appropriate means for site-to-site transportation of materials to avoid damage and litter generation.
- Ensure that the residents living near the site are kept informed about proposed working schedule and timings/ duration of any abnormal noise full activity that is likely to happen.
- Ensure the regular maintenance and monitoring of vehicles and equipment for efficient fuel use so that emissions and noise are within acceptable limits to avoid air pollution.

Water Management:

The BA is expected to follow best practices for water management, few of which include a management and monitoring system for water withdrawals and consumption, procedures to reduce water usage or reuse/recycle water, and pretreatment of wastewater before disposal.

Compliance to Law:

The BA shall adhere to responsible business practices and comply with the provision of all the Statutory Acts Applicable. Special attention of the BA is drawn towards the compliance of provision of the following statues: (along with the latest amendments/additions, as applicable):

- The Child Labour (Prohibition and Regulation) ACT, 1986.
- The Contract Labour (Regulation and Abolition) ACT, 1970.
- The Employee's Pension Scheme, 1995.
- The Employee's Provident Funds and miscellaneous provisions Act, 1952.
- The Employees State Insurance Act, 1948.
- The Equal Remuneration Act, 1976.
- The Industrial Disputes Act, 1947.
- The Maternity Benefit Act, 1961.
- The Minimum Wages Act, 1948.
- The Payment of Bonus Act, 1965
- The Payment of Gratuity Act, 1972.
- The Payment of Wages Act, 1936.
- The Shops & Establishment Act, 1954.
- The Workmen's Compensation Act, 1923.
- The Employer's Liability Act, 1938.
- and any other applicable statutory act

Social Accountability (SA 8000):

Tata Power expects its BAs to follow guidelines of SA 8000:2014 on the following aspects

- Child Labour
- Forced or Compulsory Labour
- Health & Safety
- Freedom of Association & Right to Collective Bargaining
- Discrimination
- Disciplinary Practices
- Working Hours
- Remuneration
- Management System

Health and Safety

The BA is expected to ensure the health and safety of his and his Sub-contractor's staff and labour. The BA shall, in collaboration with and according to the requirements of the local health authorities, ensure that medical staff, first aid facilities, sick bay and ambulance service are available at the accommodation and on the Site at all times, and that suitable arrangements are made for all necessary welfare and hygiene requirements and for the prevention of epidemics. The BA shall maintain records and make reports concerning health, safety and welfare of persons deployed, and damage to property, as the Owner's Representative may reasonably require. The BA shall be responsible for the medical treatment / hospitalization of his and his Sub-contractor's staff/ labour.

The BA shall appoint a qualified Safety officer at the Site to be responsible for maintaining the safety, and protection against accidents, of all personnel on the Site. Such Safety officer shall have the authority to issue instructions and take protective measures to prevent accidents.

The BA shall comply in toto with the Tata Power's Contractor Safety Terms & Conditions, Health Safety & Environment Manual while working on Tata Power Site/ Services/ Contracts.

Grievance Mechanism

The BA is expected to have grievance procedures that allow stakeholders to anonymously bring environmental and/or work-related violations and/or concerns to the attention of management. In addition, the BA is expected to have procedures for examining reports of environmental and/or work-related violations or concerns and/or privacy complaints.

Data Protection

The BA is expected to have a formal process to address data security or privacy issues.

ANNEXURE-I



Sr. No.	Question Description	Response (Y/N)	Remarks
Organization			
1	Does your Company have Sustainability Policy at Organization Level? If Yes, Please attach		
2	Do you have sustainable procurement policy in place for your own suppliers? If Yes, Please attach		
3	Does your company do regular assessment of its suppliers on ESG parameters?		
4	Are there ESG risks, or negative impacts identified in your supply chain		
Governance			
1	Is diversity taken into consideration when appointing board members/ senior management? Do you have an independent director/s?		
2	Has your company taken initiatives to ensure ethical practices at workplace? Please share the details, Policies etc.		
3	Does your company have a formal process to address data security or privacy issues? Please share the details, Policies etc.		
4	Does your company have grievance mechanism for stakeholder issues and track resolution?		
Environment/ Planet			
1	Does your company have Environmental Policy? If Yes, Please attach		
2	Do you have a formal process for waste management including solid wastes, liquid wastes and hazardous waste?		
3	Does your company track greenhouse gas emission? Also, what percentage of own consumption comes from the renewable energy?		
4	Does your company have a formal process for water management including monitoring of water consumption and withdrawals, and if applicable, pretreatment of wastewater?		
Green Technology/ Innovation			
1	Are your facility/ Product/ Services provided by you is based on green design, green production, green packaging or green logistics considerations? Please elaborate.		
2	Do your products or services have any environmental or social features or benefits (e.g. environmental/energy certification, ecolabels, fair trade certification, etc.)?		
Social/ People			
1	Does you facility/ Company have written personnel policies in place Are you an equal opportunity employer?		
2	Please describe any formal programme / campaign in place to promote company involvement with the community (volunteering, etc.). What is the percentage of profit spend on community activities?		
3	Does your company have a written Health & Safety Policy or Program? If Yes, Please attach		
Certifications: Does your company have following certifications (valid till date-please mention validity)			
1	ISO9001 accreditation		
2	SA8000 or equivalent		
3	ISO 14001 certification		
4	ISO 18001/45001 or equivalent		
5	ISO/IEC 27001 or equivalent		
6	Any Other (Please specify)		

Signature

Business Associate Name

ANNEXURE-II

CORPORATE SUSTAINABILITY POLICY

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

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

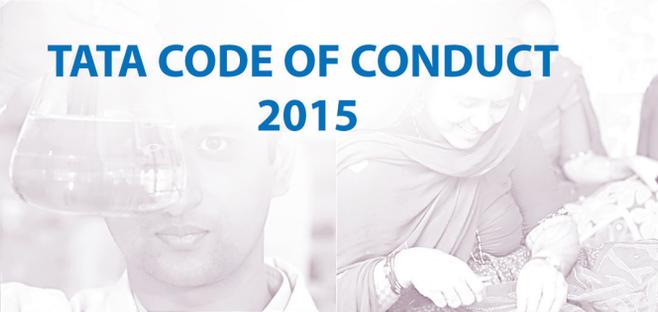
The management will commit all the necessary resources required to meet the goals of Corporate Sustainability.



(Praveer Sinha)
CEO & Managing Director

Date: 15th June, 2018





**TATA CODE OF CONDUCT
2015**



LEADERSHIP THAT INSPIRES

For over 100 years, the Tata group has been led by visionaries who have stayed true to the vision of the founder, Jamsetji Tata.

A vision that placed the greater good of society at par with business growth.

A vision that put into practice pioneering social initiatives that changed the way responsible business was run.

And a vision that brought into the group a strong social conscience.



We do not claim to be more unselfish, more generous or more philanthropic than other people. But we think we started on sound and straightforward business principles, considering the interests of the shareholders our own, and the health and welfare of the employees, the sure foundation of our success.

Jamsetji Tata
Founder of the Tata group
Chairman (1868 – 1904)

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FOREWORD

Tata companies have consistently adhered to the values and ideals articulated by the Founder for over 150 years. The Tata Code of Conduct was first formalized by Mr Ratan Tata. It articulates the Group's values and ideals that guide and govern the conduct of our companies as well as our colleagues in all matters relating to business. Today, the Code is a bedrock on which we base our individual, as well as leadership commitments to core Tata values.

The Tata Code of Conduct outlines our commitment to each of our stakeholders, including the communities in which we operate, and is our guiding light when we are sometimes faced with business dilemmas that leave us at ethical crossroads. The Code is also dynamic in that it has been periodically refreshed in order to remain contemporary and contextual to the changes in law and regulations. However it remains unaltered at its core.

Our stellar reputation and success as a business entity has been defined by the powerful commitment and adherence to the core values and principles expressed in this Code, by all our employees, directors and partners. I trust every Tata colleague and Tata company will continue to not only comply with the laws and regulations that govern our business interests around the world, but will continue to set new standards of ethical conduct that will generate deep respect and inspire emulation by others.

N. Chandrasekaran

21st February, 2017



A. OUR VALUES

TATA has always been values-driven. The five core values that underpin the way we conduct our business activities are:



These universal values serve as the foundation for the Tata Code of Conduct. They find expression within the value system of every Tata company.

B. SCOPE AND PURPOSE OF THIS CODE

1. This Code sets out how we behave with:
 - our employees, or those who work with us;
 - our customers;
 - the communities and the environment in which we operate;
 - our value-chain partners, including suppliers and service providers, distributors, sales representatives, contractors, channel partners, consultants, intermediaries and agents;
 - our joint-venture partners or other business associates;
 - our financial stakeholders;
 - the governments of the countries in which we operate; and
 - our group companies.
2. In this Code, “we or us” means our company, our executive directors, officers, employees and those who work with us, as the context may require.
3. The term “our group companies” in this Code typically means companies Tata Sons intends for this Code to apply to, and / or to whom Tata Sons has issued this Code.
4. This Code sets out our expectations of all those who work with us. We also expect those who deal with us to be aware that this Code underpins everything we do, and in order to work with us they need to act in a manner consistent with it.

REMEMBER...

It is our commitment to protect our reputation and our brand equity by adhering to the values and principles set out in this Code. By doing so, we strengthen our unique culture and identity.

OUR CORE PRINCIPLES



The Tata philosophy of management has always been, and is today more than ever, that corporate enterprises must be managed not merely in the interests of their owners, but equally in those of their employees, of the consumers of their products, of the local community and finally of the country as a whole.

J.R.D. Tata

Chairman, Tata Sons (1938 – 1991)

C. OUR CORE PRINCIPLES

1. We are committed to operating our businesses conforming to the highest moral and ethical standards. We do not tolerate bribery or corruption in any form. This commitment underpins everything that we do.
2. We are committed to good corporate citizenship. We treat social development activities which benefit the communities in which we operate as an integral part of our business plan.
3. We seek to contribute to the economic development of the communities of the countries and regions we operate in, while respecting their culture, norms and heritage. We seek to avoid any project or activity that is detrimental to the wider interests of the communities in which we operate.
4. We shall not compromise safety in the pursuit of commercial advantage. We shall strive to provide a safe, healthy and clean working environment for our employees and all those who work with us.
5. When representing our company, we shall act with professionalism, honesty and integrity, and conform to the highest moral and ethical standards. In the countries we operate in, we shall exhibit culturally appropriate behaviour. Our conduct shall be fair and transparent and be perceived as fair and transparent by third parties.
6. We shall respect the human rights and dignity of all our stakeholders.
7. We shall strive to balance the interests of our stakeholders, treating each of them fairly and avoiding unfair discrimination of any kind.
8. The statements that we make to our stakeholders shall be truthful and made in good faith.
9. We shall not engage in any restrictive or unfair trade practices.
10. We shall provide avenues for our stakeholders to raise concerns or queries in good faith, or report instances of actual or perceived violations of our Code.
11. We shall strive to create an environment free from fear of retribution to deal with concerns that are raised or cases reported in good faith. No one shall be punished or made to suffer for raising concerns or making disclosures in good faith or in the public interest.
12. We expect the leaders of our businesses to demonstrate their commitment to the ethical standards set out in this Code through their own behaviour and by establishing appropriate processes within their companies.
13. We shall comply with the laws of the countries in which we operate and any other laws which apply to us. With regard to those provisions of the Code that are explicitly dealt with under an applicable law or employment terms, the law and those terms shall take precedence. In the event that the standards prescribed under any applicable law are lower than that of the Code, we shall conduct ourselves as per the provisions of the Code.

REMEMBER...

“Good faith” means having a reasonable belief that the information you have provided is truthful. It does not mean having ‘all the evidence’ about the potential violation or case reported.

OUR EMPLOYEES



Once you got the best people, the people who shared our values and ideals, we left them free to act on their own. We do not fetter them. We encourage them and give them opportunities for leadership.

J.R.D. Tata

Chairman, Tata Sons (1938 – 1991)

D. OUR EMPLOYEES

Equal opportunity employer

1. We provide equal opportunities to all our employees and to all eligible applicants for employment in our company. We do not unfairly discriminate on any ground, including race, caste, religion, colour, ancestry, marital status, gender, sexual orientation, age, nationality, ethnic origin, disability or any other category protected by applicable law.
2. When recruiting, developing and promoting our employees, our decisions will be based solely on performance, merit, competence and potential.
3. We shall have fair, transparent and clear employee policies which promote diversity and equality, in accordance with applicable law and other provisions of this Code. These policies shall provide for clear terms of employment, training, development and performance management.

Q&A

A job requirement entails extensive travel. One of the candidates has excellent relevant experience and qualifications. However, this candidate is a single parent. As a result, I feel such a situation would significantly hinder this candidate's ability to cope with the job requirement. What should I do?

In accordance with the Code, the decision to recruit an employee should be based upon merit. We cannot make a presumption that the candidate would not be able to meet the travel requirements of the job. All eligible candidates should be provided with equal opportunity to demonstrate or justify that they can cope with the travel requirements of the job. Being a single parent cannot be a ground to be discriminated against at any stage of recruitment or ongoing employment in our company.

REMEMBER...

We do not tolerate harassment in any form and therefore we expect every employee to discourage such misdemeanours in the workplace.

Dignity and respect

4. Our leaders shall be responsible for creating a conducive work environment built on tolerance, understanding, mutual cooperation and respect for individual privacy.
5. Everyone in our work environment must be treated with dignity and respect. We do not tolerate any form of harassment, whether sexual, physical, verbal or psychological.
6. We have clear and fair disciplinary procedures, which necessarily include an employee's right to be heard.
7. We respect our employees' right to privacy. We have no concern with their conduct outside our work environment, unless such conduct impairs their work performance, creates conflicts of interest or adversely affects our reputation or business interests.

Human rights

8. We do not employ children at our workplaces.
9. We do not use forced labour in any form. We do not confiscate personal documents of our employees, or force them to make any payment to us or to anyone else in order to secure employment with us, or to work with us.

Bribery and corruption

10. Our employees and those representing us, including agents and intermediaries, shall not, directly or indirectly, offer or receive any illegal or improper payments or comparable benefits that are intended or perceived to obtain undue favours for the conduct of our business.

REMEMBER...

Violation by even a single employee of any law relating to anti-bribery, anti-corruption, anti-competition, data privacy, etc. could result in severe financial penalties and cause irreparable reputational damage to the company.

Gifts and hospitality

11. Business gifts and hospitality are sometimes used in the normal course of business activity. However, if offers of gifts or hospitality (including entertainment or travel) are frequent or of substantial value, they may create the perception of, or an actual conflict of interest or an 'illicit payment'. Therefore, gifts and hospitality given or received should be modest in value and appropriate, and in compliance with our company's gifts and hospitality policy.

Freedom of association

12. We recognise that employees may be interested in joining associations or involving themselves in civic or public affairs in their personal capacities, provided such activities do not create an actual or potential conflict with the interests of our company. Our employees must notify and seek prior approval for any such activity as per the 'Conflicts of Interest' clause of this Code and in accordance with applicable company policies and law.

REMEMBER...

As a general rule, we may accept gifts or hospitality from a business associate, only if such a gift:

- has modest value and does not create a perception (or an implied obligation) that the giver is entitled to preferential treatment of any kind;
- would not influence, or appear to influence, our ability to act in the best interest of our company;
- would not embarrass our company or the giver if disclosed publicly.

The following gifts are never appropriate and should never be given or accepted:

- gifts of cash or gold or other precious metals, gems or stones;
- gifts that are prohibited under applicable law;
- gifts in the nature of a bribe, payoff, kickback or facilitation payment*;
- gifts that are prohibited by the gift giver's or recipient's organisation; and
- gifts in the form of services or other non-cash benefits (e.g. a promise of employment).

(*'Facilitation' payment is a payment made to secure or speed up routine legal government actions, such as issuing permits or releasing goods held in customs.)

Working outside employment with us

13. Taking employment, accepting a position of responsibility or running a business outside employment with our company, in your own time, with or without remuneration, could interfere with your ability to work effectively at our company or create conflicts of interest. Any such activity must not be with any customer, supplier, distributor or competitor of our company. Our employees must notify and seek prior approval for any such activity as per the 'Conflicts of Interest' clause of this Code and in accordance with applicable company policies and law.

Integrity of information and assets

14. Our employees shall not make any wilful omissions or material misrepresentation that would compromise the integrity of our records, internal or external communications and reports, including the financial statements.
15. Our employees and directors shall seek proper authorisation prior to disclosing company or business-related information, and such disclosures shall be made in

accordance with our company's media and communication policy. This includes disclosures through any forum or media, including through social media.

16. Our employees shall ensure the integrity of personal data or information provided by them to our company. We shall safeguard the privacy of all such data or information given to us in accordance with applicable company policies or law.
17. Our employees shall respect and protect all confidential information and intellectual property of our company.
18. Our employees shall safeguard the confidentiality of all third party intellectual property and data. Our employees shall not misuse such intellectual property and data that comes into their possession and shall not share it with anyone, except in accordance with applicable company policies or law.
19. Our employees shall promptly report the loss, theft or destruction of any confidential information or intellectual property and data of our company or that of any third party.

Q&A

I am an accountant in the finance department of my company. Due to my artistic skills, I received an offer to pen cartoons for a children's publication for which I would receive compensation. I plan to undertake this activity during week-ends. What should I do before accepting this offer?

Before accepting the offer, you should ascertain whether the company policies and rules require you to make a disclosure to your supervisor so that the company may determine whether your undertaking this activity adversely affects our company's interests. On confirmation from the company that it does not do so, you would be free to take up the activity. It is also your duty to bring to the attention of the company whenever there is any change in the situation you have disclosed.

20. Our employees shall use all company assets, tangible and intangible, including computer and communication equipment, for the purpose for which they are provided and in order to conduct our business. Such assets shall not be misused. We shall establish processes to minimise the risk of fraud, and misappropriation or misuse of our assets.
21. We shall comply with all applicable anti-money laundering, anti-fraud and anti-corruption laws and we shall establish processes to check for and prevent any breaches of such laws.

Insider trading

22. Our employees must not indulge in any form of insider trading nor assist others, including immediate family, friends or business associates, to derive any benefit from access to and possession of price sensitive information that is not in the public domain. Such information would include information about our company, our group companies, our clients and our suppliers.

Q&A

Our company has recently announced the launch of a new business initiative. In connection with this, your friend who is a journalist with a leading business newspaper has asked you to provide some information that he could cover in his forthcoming article. He has promised not to quote you, or reveal your identity. Should you be giving him this information?

No. You should not be sharing information of this nature with the media, even if it is assured that the source would remain anonymous. Only authorised personnel in the company are permitted to speak to the media and provide information of this nature.

Our company has a "Use of Social Media" policy that lays down the "dos and don'ts" for use of social media even if you may access such media on your own time. Why is there such a policy?

External communication is a serious matter. It must be carefully managed because information put out with reference to our company or its businesses needs to be clear, truthful and not violate any undertakings we have given to other parties. In each business there are managers nominated to authorise and make different types of statements to the outside world. These managers should be consulted about any request for information you may receive or information you think we should give out.

In using social media, in particular blogs or social networking sites, you should exercise great caution while talking about our company or the business we do. It may feel like you are chatting with friends or expressing a personal opinion but even while doing so you cannot share any confidential information of our company.

REMEMBER...

We must respect the property rights of others by never misusing their assets, intellectual property or trade secrets, including the copying or downloading of unauthorised software, trademarks, copyrighted material or logos. We should never make unauthorised copies of computer software programs or use unlicensed personal software on company computers.

Prohibited drugs and substances

23. Use of prohibited drugs and substances creates genuine safety and other risks at our workplaces. We do not tolerate prohibited drugs and substances from being possessed, consumed or distributed at our workplaces, or in the course of company duties.

Conflicts of interest

24. Our employees and executive directors shall always act in the interest of our company and ensure that any business or personal association *including close personal relationships* which they may have, does not create a conflict of interest with their roles and duties in our company or the operations of our company. Further, our employees and executive directors shall not engage in any business, relationship or activity, which might conflict with the interest of our company or our group companies.

25. Should any actual or potential conflicts of interest arise, the concerned person must immediately report such conflicts and seek approvals as required by applicable law and company policy. The competent authority shall revert to the employee within a reasonable time as defined in our company's policy, so as to enable the concerned employee to take necessary action as advised to resolve or avoid the conflict in an expeditious manner.
26. In the case of all employees other than executive directors, the Chief Executive Officer / Managing Director shall be the competent authority, who in turn shall report such cases to the Board of Directors on a quarterly basis. In case of the Chief Executive Officer / Managing Director and executive directors, the Board of Directors of our company shall be the competent authority.

Q&A

You are responsible for maintaining our company's customer database. One of your friends is starting a business venture and requests you to share a few particulars from this database for marketing purposes of his business. He assures you that he would keep the data as well as his source confidential. Should you do so?

No. You should respect the confidentiality of customer information and not share any part of the database with any person without due authorisation.

You have access to revenue numbers of different business units of our company. While having a conversation with you over evening drinks, your friend enquires about the financial performance of our company. You do not share detailed information with your friend, but share approximate revenue figures. Is this conduct of yours correct?

No, it is not. You are not permitted to share financial information of our company with others who do not need to know this information. Financial information should always be safeguarded and disclosed only on a need-to-know basis after obtaining requisite approvals. Sharing of any price sensitive information that is not generally available with the public could also lead to violation of applicable insider trading laws.

27. Notwithstanding such or any other instance of conflict of interest that exists due to historical reasons, adequate and full disclosure by interested employees shall be made to our company's management. At the time of appointment in our company, our employees and executive directors shall make full disclosure to the competent authority, of any interest leading to an

actual or potential conflict that such persons or their immediate family (including parents, siblings, spouse, partner, children) or persons with whom they enjoy close personal relationships, may have in a family business or a company or firm that is a competitor, supplier, customer or distributor of, or has other business dealings with, our company.

REMEMBER...

A conflict of interest could be any known activity, transaction, relationship or service engaged in by an employee, his/her immediate family (including parents, siblings, spouse, partner, and children), relatives or a close personal relationship, which may cause concern (based upon an objective determination) that the employee could not or might not be able to fairly perform his/her duties to our company.

Examples of Potential Conflicts of Interest

A conflict of interest, actual or potential, arises where, directly or indirectly, an employee or executive director:

- (a) engages in a business, activity or relationship with anyone who is party to a transaction with our company;
- (b) is in a position to derive an improper benefit, personally or for any family member or for any person in a close personal relationship, by making or influencing decisions relating to any transaction;
- (c) conducts business on behalf of our company or is in a position to influence a decision with regard to our company's business with a supplier or customer where a relative of, or a person in close personal relationship with, an employee or executive director is a principal officer or representative, resulting in a personal benefit or a benefit to the relative;
- (d) is in a position to influence decisions with regard to award of benefits such as increase in salary or other remuneration, posting, promotion or recruitment of a relative or a person in close personal relationship employed in our company or any of our group companies;
- (e) undertakes an activity by which the interest of our company or our group companies can be compromised or defeated; or
- (f) does anything by which an independent judgement of our company's or our group companies' best interest cannot be exercised.

28. If there is a failure to make the required disclosure and our management becomes aware of an instance of conflict of interest that ought to have been disclosed by an employee or executive director, our management shall take a serious view of the matter and consider suitable disciplinary action as per the terms of employment. In all such matters, we shall follow clear and fair disciplinary procedures, respecting the employee's right to be heard.

Examples of activities normally approved (post-disclosure) as per applicable company policy

Acceptance of a position of responsibility (whether for remuneration or otherwise) in the following cases would typically be permitted, provided the time commitments these demand do not disturb or distract from the employee's primary duties and responsibilities in our company, and are promptly disclosed to the relevant competent authority:

- (a) Directorships on the Boards of any of our group companies, joint ventures or associate companies.
- (b) Memberships/positions of responsibility in educational/professional bodies, where such association will promote the interests of our company.
- (c) Memberships or participation in government committees/bodies or organisations.

Q&A

You are in a relationship with a colleague who has been recently moved into your team and would now be reporting to you. What should you do?

Romantic or close personal relationships with another employee where a reporting relationship exists and one is responsible for evaluating the other's performance, is likely to create a conflict of interest. In such a situation, you would need to report the potential conflict to your supervisor.

Your company is submitting a proposal to a company in which you were previously employed. You have confidential information pertaining to your previous employer, which you believe will help your present employer in winning the contract. Should you share this information?

No. You should not share this information with your company since it relates to confidential information of a third party. Your company respects its employees' duty to protect confidential information that they may have relating to their previous employers.

You are the purchasing manager in the procurement department of your company. You receive an invitation from a supplier to attend a premier sporting event as her guest. This particular supplier is one of the vendors who has submitted a proposal for an open tender issued by your company. Should you accept the invitation?

No. You should not accept the invitation in this instance. Since you are in a key decision-making role for the tender, any unusual benefit that you receive could be perceived as an inducement that could compromise your objectivity.

OUR CUSTOMERS



We have continued to enjoy prosperity, even with adverse times to fight against. Our relations with all concerned are the most friendly. We have maintained the same character for straight-forward dealing with our constituents and customers. Our productions have continued to be of the same high quality, and therefore command the best reputation and realise the highest prices. ... I mention these facts only to point out that with honest and straight-forward business principles, close and careful attention to details, and the ability to take advantage of favourable opportunities and circumstances, there is a scope for success.

Jamsetji Tata

Founder of the Tata group
Chairman, Tata Sons (1868 – 1904)

E. OUR CUSTOMERS

Products and services

1. We are committed to supplying products and services of world-class quality that meet all applicable standards.
2. The products and services we offer shall comply with applicable laws, including product packaging, labelling and after-sales service obligations.
3. We shall market our products and services on their own merits and not make unfair or misleading statements about the products and services of our competitors.

Export controls and trade sanctions

4. We shall comply with all relevant export controls or trade sanctions in the course of our business.

Fair competition

5. We support the development and operation of competitive open markets and the liberalisation of trade and investment in each country and market in which we operate.
6. We shall not enter into any activity constituting anti-competitive behaviour such as abuse of market dominance, collusion, participation in cartels or inappropriate exchange of information with competitors.
7. We collect competitive information only in the normal course of business and obtain the same through legally permitted sources and means.

Dealings with customers

8. Our dealings with our customers shall be professional, fair and transparent.
9. We respect our customers' right to privacy in relation to their personal data. We shall safeguard our customers' personal data, in accordance with applicable law.

Q&A

You are the Regional Sales Manager of our company. You have become a member of an “informal group”, on an instant messaging service, whose members are the regional sales heads of our company’s competitors. The administrator of the group has requested an in-person meeting to informally discuss market conditions and brainstorm on “pricing strategy” from an industry perspective. What should you do?

Any meeting with competitors, especially to discuss “pricing strategy”, could be an attempt to promote an anti-competitive practice or manipulate prices. You should respond by declining this invitation and exiting the “informal group”. You should also report this incident to your supervisor and your Legal department.

You are attending a customer meeting with a colleague, and your colleague makes an untruthful statement about the company’s services. What should you do?

You should assist your colleague in correcting the inaccuracy during the meeting if possible. If this is not possible, raise the issue with your colleague after the meeting to enable him/her or the company to correct any misrepresentation made to the customer.

While working on a customer project, you receive a call from your colleague. He used to manage that customer account before you took over his role. He recalls that he had worked with the customer on developing a new ordering system which he thinks would be beneficial for another customer and requests you to send him the project details. What should you do?

You must not share this information without specific approval of the customer; you are not permitted to use a customer’s assets, including software, for another customer or for any personal use.

REMEMBER...

Striving for excellence in the standards of our work and in the quality of our goods and services is a core Tata value. It is the unwavering practice of this value that builds and sustains customer trust in our brand.

OUR COMMUNITIES AND THE ENVIRONMENT



In a free enterprise, the community is not just another shareholder in business but is in fact the very purpose of its existence.

Jamsetji Tata

Founder of the Tata group
Chairman, Tata Sons (1868 – 1904)

F. OUR COMMUNITIES AND THE ENVIRONMENT

Communities

1. We are committed to good corporate citizenship, and shall actively assist in the improvement of the quality of life of the people in the communities in which we operate.
2. We engage with the community and other stakeholders to minimise any adverse impact that our business operations may have on the local community and the environment.
3. We encourage our workforce to volunteer on projects that benefit the communities in which we operate, provided the principles of this Code, where applicable, and in particular the 'Conflicts of Interest' clause are followed.

The environment

4. In the production and sale of our products and services, we strive for environmental sustainability and comply with all applicable laws and regulations.
5. We seek to prevent the wasteful use of natural resources and are committed to improving the environment, particularly with regard to the emission of greenhouse gases, consumption of water and energy, and the management of waste and hazardous materials. We shall endeavour to offset the effect of climate change in our activities.

OUR VALUE-CHAIN PARTNERS



If we had done some of the things that some other groups have done, we would have been twice as big as we are today. But we didn't, and I would not have it any other way.

J.R.D. Tata

Chairman, Tata Sons (1938 – 1991)

(on the pace of expansion of the Tata group in the 1960s and 70s)

G. OUR VALUE-CHAIN PARTNERS

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

Q&A

You head the procurement function in our company. You have tight budgetary constraints for a project that you are working on. In order to complete the project within the targeted costs, you intend to request your supplier to provide you an exceptional discount on this project order on the understanding that you would “make it up to him” in future orders. Would you be violating the Code?

Yes, you would. Inducement in any form, including future benefits to the supplier, could compromise your ability to act objectively and in the best interests of the company and therefore must be avoided.

REMEMBER...

Our value-chain partners would include our suppliers and service providers, distributors, sales representatives, contractors, channel partners, consultants, intermediaries and agents; joint-venture partners and other business associates.

OUR FINANCIAL STAKEHOLDERS



Ethical behaviour in business – in every sphere and with all constituents – has been the bedrock on which the Tata group has built, and operates, its enterprises. This has been an article of faith for the group ever since its inception, a fundamental element of our cherished heritage and the essence of our way of life.

Ratan Tata

Chairman, Tata Sons (1991 – 2012)

H. OUR FINANCIAL STAKEHOLDERS

1. We are committed to enhancing shareholder value and complying with laws and regulations that govern shareholder rights.
 2. We shall inform our financial stakeholders about relevant aspects of our business in a fair, accurate and timely manner and shall disclose such information in accordance with applicable law and agreements.
 3. We shall keep accurate records of our activities and shall adhere to disclosure standards in accordance with applicable law and industry standards.
-

GOVERNMENTS



Business, as I have seen it, places one great demand on you; it needs you to impose a framework of ethics, values, fairness and objectivity on yourself at all times. It is not easy to do this; you cannot impose it on yourself forcibly because it has to become an integral part of you.

Ratan Tata

Chairman, Tata Sons (1991 – 2012)

I. GOVERNMENTS

Political non-alignment

1. We shall act in accordance with the constitution and governance systems of the countries in which we operate. We do not seek to influence the outcome of public elections, nor to undermine or alter any system of government. We do not support any specific political party or candidate for political office. Our conduct must preclude any activity that could be interpreted as mutual dependence/favour with any political body or person, and we do not offer or give any company funds or property or other resources as donations to any specific political party, candidate or campaign.

Any financial contributions considered by our Board of Directors in order to strengthen democratic forces through a clean electoral process shall be extended only through the Progressive Electoral Trust in India, or by a similar transparent, duly-authorised, non-discriminatory and non-discretionary vehicle outside India.

Government engagement

2. We engage with the government and regulators in a constructive manner in order to promote good governance. We conduct our interactions with them in a manner consistent with our Code.
3. We do not impede, obstruct or improperly influence the conclusions of, or affect the integrity or availability of data or documents for any government review or investigation.

OUR GROUP COMPANIES



I do not think anyone was on par with Jamsetji as an industrial visionary. But that is not the sole reason why I have been an admirer of Jamsetji. The major reason was his sense of values, sterling values, which he imparted to this group. If someone were to ask me, what holds the Tata companies together, more than anything else, I would say it is our shared ideals and values which we have inherited from Jamsetji Tata.

J.R.D. Tata

Chairman, Tata Sons (1938 – 1991)

J. OUR GROUP COMPANIES

1. We seek to cooperate with our group companies, including joint ventures, by sharing knowledge, physical resources, human and management resources and adopting leading governance policies and practices in accordance with applicable law including adherence to competition law, where relevant.
2. We shall strive to achieve amicable resolution of any dispute between us and any of our group companies, through an appropriate dispute resolution mechanism so that it does not adversely affect our business interests and stakeholder value.
3. We shall have processes in place to ensure that no third party or joint venture uses the TATA name/brand to further its interests without proper authorisation.
4. Our Board of Directors shall consider for adoption policies and guidelines periodically formulated by Tata Sons and circulated to group companies.

Q&A

You are in the process of selecting potential vendors for an IT project in our company. In the final shortlist of two companies, one is a new start-up with limited references and a lower price-quotation, while the other is a Tata company with thirty years of implementation experience and good references, but a marginally higher quote for the same job. With all other parameters of choice being nearly equal, which company should you select for the job?

While price is undoubtedly an important criterion for decision making, it is clearly not the only one to be evaluated. You may also need to consider good customer references, proven track record and shared value systems in order to decide on your IT partner.

You are in the process of selecting potential vendors for a project. One of the three finalists is a group company. In reviewing the final proposals, you rank the group company second out of the three proposals based on pricing and total cost of ownership, and select the first-ranked vendor. Is this the right decision?

Yes. You should select the vendor that, on its own merits, is the vendor that is most appropriate for your company's requirements. You should not select a group company only because of its affiliation.

RAISING CONCERNS

We encourage our employees, customers, suppliers and other stakeholders to raise concerns or make disclosures when they become aware of any actual or potential violation of our Code, policies or law. We also encourage reporting of any event (actual or potential) of misconduct that is not reflective of our values and principles.

Avenues available for raising concerns or queries or reporting cases could include:

- immediate line manager or the Human Resources department of our company
- designated ethics officials of our company
- the 'confidential reporting' third party ethics helpline (if available)
- any other reporting channel set out in our company's 'Whistleblower' policy.

We do not tolerate any form of retaliation against anyone reporting legitimate concerns. Anyone involved in targeting such a person will be subject to disciplinary action.

If you suspect that you or someone you know has been subjected to retaliation for raising a concern or for reporting a case, we encourage you to promptly contact your line manager, the company's Ethics Counsellor, the Human Resources department, the MD/CEO or the office of the group's Chief Ethics Officer.

Q&A

My supervisor has asked me to do something which I believe may be illegal. I am afraid if I do not do what I am told, I could lose my job. Should I do it?

No. Breaking the law is never an option. Discuss the situation with your supervisor to be certain that you both understand the facts. If your concerns are not resolved, contact a higher level supervisor, the Ethics Counsellor, the Legal department or report them via the company's confidential reporting system, if available.

I feel that my supervisor is treating me unfairly for reporting a concern to the Ethics Counsellor. What should I do?

Retaliation against anyone who raises a concern is a violation of the Code. You should therefore promptly report this action of your supervisor to the Ethics Counsellor or the MD/CEO of your company or via the company's confidential reporting system, if available.

ACCOUNTABILITY

This Code is more than a set of prescriptive guidelines issued solely for the purpose of formal compliance. It represents our collective commitment to our value system and to our core principles.

Every person employed by us, directly or indirectly, should expect to be held accountable for his/her behaviour. Should such behaviour violate this Code,

they may be subject to action according to their employment terms and relevant company policies.

When followed in letter and in spirit, this Code is *'lived'* by our employees as well as those who work with us. It represents our shared responsibility to all our stakeholders, and our mutual commitment to each other.

SPEAK UP...

If you are unsure whether a particular action you are about to take is consistent with the principles set forth in the Code, ask yourself:

- Could it directly or indirectly endanger someone or cause them injury?
- Is it illegal/unlawful or out of line with our policies and procedures?
- Does my conscience reject it? Does it conflict with my personal values?
- Would I feel uncomfortable if the story appeared in the media? Would it shame my company, spouse, partner, parent or child?
- Does it 'feel' wrong?

If the answer to any of these questions is "Yes", please stop and consult your reporting manager, the Ethics Counsellor, the Human Resource department, the Legal department or any member of the senior management team, to assist you in making the decision.

When faced with a dilemma: Stop, Think, Act Responsibly

NOTE

The Code does not provide a comprehensive and complete explanation of all expectations from a company standpoint or obligations from a stakeholder standpoint.

Our employees have a continuing obligation to familiarise themselves with all applicable law, group-level advisories and policies, company-level policies, procedures and work rules as relevant. For any guidance on interpretation of the Code, we may seek support from our company's Ethics Counsellor or from the group's Chief Ethics Officer, as appropriate.

All joint ventures are encouraged to adopt the Tata Code of Conduct (TCOC) or a code of conduct that incorporates all elements of the TCOC.

This version of the Tata Code of Conduct supersedes all earlier versions and associated documents and stands effective from 29th July, 2015.

For any query or clarification on the Code, please contact the office of the group's Chief Ethics Officer via email at: ethicsoffice@tata.com.



TATA CODE OF CONDUCT – 2015

I acknowledge that I have received the Tata Code of Conduct.

I have read the Tata Code of Conduct and I acknowledge that as a Tata employee, I am required to comply with the guidelines described therein and failure to do so may subject me to action as per my employment terms and relevant company policies.

If I have a concern about a violation, or a potential violation of the Tata Code of Conduct, I understand that there are channels available to me in my company to report such concerns. By making use of these channels when necessary, I will play my part in maintaining the high ethical standards to which we hold ourselves.

Signature: _____

Date: _____

Name: _____

Department: _____

Address: _____

(Please submit this declaration to your Ethics Counsellor or the Human Resource department of your company.)







For further information on the Code please contact:
 The Ethics Office,
 Tata Sons Ltd.,
 Bombay House,
 24, Homi Mody Street,
 Mumbai – 400001, India.
 Email: ethicsoffice@tata.com



भारत सरकार
GOVERNMENT OF INDIA
विद्युत मंत्रालय
MINISTRY OF POWER
केन्द्रीय विद्युत प्राधिकरण
CENTRAL ELECTRICITY AUTHORITY
मानव संसाधन विकास प्रभाग
HUMAN RESOURCE DEVELOPMENT DIVISION

विद्युत उत्पादन के क्षेत्र में प्रशिक्षण संस्थानों की मान्यता के लिए और इंजीनियरों, पर्यवेक्षकों और तकनीशियनों के प्रशिक्षण पाठ्यक्रम के विवरण के लिए मार्गदर्शी सिद्धांत

Guidelines for Recognition of Training Institutes in the field of Generation of Electricity including details of Training Curriculum for Engineers, Supervisors and Technicians

January, 2024

The Tata Power Company Ltd

Undertaking by Vendor for Statutory Compliances

I undersigned,on behalf of M/s....."Name of Vendor Company" with "S&E registration no'.....having registered office at....."Address"..... confirm having received a Purchase Order from the Tata Power Company LTD to provide the services at theLocation..... In consideration of the purchase order and in view of the terms and conditions of purchase order, I declare and undertake the following:

1 I/ we have the valid registration Documents (*allotment letter issued by the authorities (EPFO & ESIC) are enclosed*):

Agreed	Not Applicable	Reason For Not Applicable
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- I. PF registration code
- II. ESIC registration code

2 I/we agree that for all the manpower engaged by me/us under this contract (direct or engaged through a subcontractor), we ensure that:

Agreed	Not Applicable	Reason For Not Applicable
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- I. Payment to all workers by 7th of every month for the salary / wages due for the preceding month through online Bank transfers and shall submit the wage register, pay slips, bank statement etc to "The Company".
- II. Minimum wages shall be paid to all the workers.
- III. PF & ESIC deposition and respective payment challan/ ECR shall be done on or before 12th of every month for the salary / wages for the preceding month and shall submit the copy of ECR & TRRN to "The Company".
- IV. General Employee Compensation under the Employee Compensation Act, 1928 shall be taken for those who are outside the wage limits of ESIC applicability or location where ESIC is not applicable.
- V. Statutory Bonus shall be paid on or before November every year.

3 I/ We understand that incase if we default on payment of salary of statutory dues for our manpower engaged by us under this contract (direct or engaged through a subcontractor), for a particular month, Tata Power constitutes the right to pay wages or deposit statutory dues directly adjusting from our bills and shall deduct or charge 25% penalty on the total amount defaulted.

Agreed	Not Applicable	Reason For Not Applicable
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4 I/we agree that for all the manpower deployed under this contract (direct or engaged through a subcontractor), we ensure that:

Agreed	Not Applicable	Reason For Not Applicable
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- I. Appointment letter and employment card will be issued to all either by us or through our sub-contractors. The copy of the appointment letter acknowledged by the employee and certified by us will be submitted to Tata Power within 1 month of joining.
- II. Full & Final settlement of the employee will be completed in 7 days of his/her last working day and a service completion letter to be issued, the acknowledge copy of both the documents (F&F settlement and Service certificate) by the employee and certified by us will be submitted to Tata Power.
- III. For our permanent staff, 4 (I) and 4 (II) is not applicable and we shall submit an undertaking either on mail / letterhead, with their names.

All the manpower are technically qualified as per the norms of **Power IV. Sector Skill Council (PSSC) issued by Ministry of Power- GOI dt January 2024. (copy enclosed)**

5	I/we shall mandatorily obtain the Labour License for all the manpower deployed under this contract (direct or engaged through subcontractor/s) to cater the entire work as per PO, if the overall number of manpower deployed under this contract exceeds the permissible limit under Contract Labour Act. The Form-V will be issued in name of my Company by Tata Power.	Agreed	Not Applicable	Reason For Not Applicable
6	I shall, in case for construction job, apply for registration under BOCW Act before start of work and obtain the said registration within a month of starting its work.	Agreed	Not Applicable	Reason For Not Applicable
7	For Clause no 6, I shall also make the payment of cess applicable under the BOCW Act for the work associated under this PO.	Agreed	Not Applicable	Reason For Not Applicable
8	I/ We understand & agree to adhere all the prevailing statutory compliances and any laws, rules & regulations which may get amended from time to time. We will be solely responsible for all the compliances including compliances by my sub-vendors & for all the workers.	Agreed	Not Applicable	Reason For Not Applicable
9	Following will be adhered:	Agreed	Not Applicable	Reason For Not Applicable

I. Medical fitness certificate and police verification certificate for all my workers for Gate pass process.

Indemnify "Tata Power" from any future liability of account of statutory compliance or failure on part of me for my work in "Tata Power" in respect of all the workers including my vendors & his workers, by submitting an Indemnity Bond on non judicial stamp paper (Rs 500 non judicial stamp paper for Maharashtra state and Rs 100 for all other states or as applicable) executed by its Director/Proprietor, authorized for the purpose, and duly notarized.

III. Maintain all registers under the various Acts and shall submit to "Tata Power" as and when required.

10	I shall depute competent resource/ supervisors to ensure supervision of work, follow proper disciplinary action for misconduct, ensuring availability of all resources required to execute the contract, ensuring good work culture and behaviour among my resources as framed under the provisions of law. I will also ensure engagement and R&R of my resources as required by "The Company".	Agreed	Not Applicable	Reason For Not Applicable
11	If "clause no 4 (iv)" is not adhered, then I will ensure compliance to capability building by training/upskilling of the workers as per the norms of Power Sector Skill Council (PSSC) through Tata Power Skill Development Institute (TPSDI) and will bare all the cost of training.	Agreed	Not Applicable	Reason For Not Applicable
12	I will make the provisions for canteen, sitting arrangement, rest rooms, washing facility, first Aid, drinking water and toilet facilities for my workers. I may consult with the order manager of "The Company".	Agreed	Not Applicable	Reason For Not Applicable
13	I will constitute the "Grievance Redressal Committee" to address the grievances of our workmen deployed under the contract.	Agreed	Not Applicable	Reason For Not Applicable

14	I shall comply, wherever applicable, to requirements under the Apprentices (Amendment) Act, 2014.	Agreed	Not Applicable	Reason For Not Applicable
15	I/ We understand that failure to adhere to the compliances and the timelines will attract penalties under the vendor penalty scheme attached as annexure 7 And it may lead to holding (fully or partially) of my payments of the bills.	Agreed	Not Applicable	Reason For Not Applicable
16	I shall ensure submission of required information to Tata Power (“The Company”) as required by The Company or any government authorities (with a copy to “The Company”), as a when required within the stipulated time frame.	Agreed	Not Applicable	Reason For Not Applicable
17	I/ We understand that Tata Power constitutes the right to cancel the gate pass of any of our workman if the above conditions have not been fulfilled by us in the above mentioned stipulated time.	Agreed	Not Applicable	Reason For Not Applicable
18	Continuous default in compliance of any statutory provisions, for three months , may lead to termination of the contract and may also lead to blacklisting my vendors’ registration with “The Company”.	Agreed	Not Applicable	Reason For Not Applicable
19	In case any kind of work disruption is caused to the functioning of “The Company” due to agitation or tool down by my workmen (or workers of my sub-vendors), I will take appropriate disciplinary action including cancellation of gate pass of such worker/s as well as filing a FIR with the Police Authorities within 6 hours of the incidence. The details of the disciplinary actions undertaken will be submitted to “The Company” within 7 days of such incident.	Agreed	Not Applicable	Reason For Not Applicable
20	I have read & agree to abide the guidelines, rules etc as mentioned in the Annexures (Annexure 1 to 8) and the Guidelines of Central Electricity Authority – Ministry of Power.	Agreed	Not Applicable	Reason For Not Applicable

Date: _____

Signature: _____

Place: _____

Name: _____

Vendor code: _____

Witness :

For The Tata Power Company Limited:

Name & Signature:.....
(Head Corp Contracts)

Name & Signature:.....
(Head IR/ Head BHR)

Annexure 1

Onboarding of Vendor

1 I shall, before start of work, obtain and submit to “The Company” a copy of:

Agreed	Not Applicable	Reason For Not Applicable
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- I. PF Code allotment letter issued by the PF organization.
- II. ESIC Code allotment letter issued by the ESI authorities.
- III. Valid insurance documents (Policy) under Employees’ Compensation Act, for my employees who are not eligible for coverage under ESIC.
- IV. Copy of accepted Work Order received from “The Company”
- V. Indemnity Bond
- VI. ISM Bond
- VII. Copy of valid ISMW (if applicable)
Submit an application for obtaining Form-V required for applying for Labour License for all the manpower deployed under this contract (direct or engaged through subcontractor/s) to cater the entire work as per PO, if the overall number of manpower deployed under this contract exceeds the permissible limit under Contract Labour Act.
- VIII. I will submit a copy of valid Labour License along with other relevant documents with reference to the work order for catering the entire work, without which gate passes would not be issued to my employees.
- IX.

Annexure 2

Onboarding of Employees/ Manpower

1 I shall ensure safety training, medical check-up, police verification procedures for my employees (manpower deployed under this contract either direct or engaged through a subcontractor) as laid down for issue of gate-passes. I shall not engage any of my workers for work without a valid gate-pass or with a VISITOR GATE PASS. Violation of the above may lead to termination of the contract.

Agreed	Not Applicable	Reason For Not Applicable
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2 Temporary permission is issued only for seven days only for preparing gate passes, hence I will be required to arrange for issuance of permanent gate-pass within said timeline, by submitting required documents/information in online gate pass portal, as applicable. Under no circumstances shall temporary permission be issued for more than 7 days.

Agreed	Not Applicable	Reason For Not Applicable
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I will complete the process of medical fitness certificate and police verification certificate of all workers within these seven days and upload documents in ONLINE GATE PASS portal. If for any reason ONLINE GATE PASS portal is non-functional then application for gate pass will be processed through manual/other available system.

3 Gate Passes to be processed through Online Gate Pass Portal only, as applicable. I will obtain required registration in Online Gate Pass Portal and required data and documents of workmen will be uploaded in ONLINE GATE PASS portal for generation of gate passes.

Agreed	Not Applicable	Reason For Not Applicable
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4 I will facilitate transfer of PF/EPS accumulations in respect of my workers from their previous employer, if any.

Agreed	Not Applicable	Reason For Not Applicable
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5 I will ensure to transfer of PF accumulations / updating KYC details of workers who will be engaged in the contract (if pending) by me within 02 months of starting of contract. Existing UAN to be continued and new UAN will not be generated.

Agreed	Not Applicable	Reason For Not Applicable
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6 I will continue with existing ESI number for all covered workmen and shall complete KYC (if pending) and issue E-Pehchan card including dependents within 15 days of starting of contract.

Agreed	Not Applicable	Reason For Not Applicable
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Annexure 3: Monthly compliances

- 1** I will submit all documents as per checklist to comply with the various statutes, statutory requirement or any other requirement as may be applicable from time to time:
- I.** I will submit details of Muster roll, Wage Register, Workmen Register in excel format.
 - II.** I shall submit the Register of Workmen in prescribed Form, duly filled in all respects, immediately after starting the said job.
 - III.** I will give Wage notification to my workmen at least one week ahead. A copy of the same shall be forwarded to "The Company" for necessary witnessing of payment and certification
 - IV.** I will provide Wage Slip (as per provided format) to all my workers before disbursement of wages.
 - V.** I shall disburse wages to all my employees before 7th of every subsequent month, of the previous month under intimation to "The Company" through bank transfer and shall submit a copy of bank statement to the respective compliance team of "The Company".
 - VI.** I will deposit PF contribution on or before 12th of the subsequent month for the previous month wages and submit proof thereof to "The Company" by 15th of the month.
 - VII.** I will deposit ESI contribution on or before 12th of the subsequent month for the previous month wages and submit proof thereof to "The Company" by 15th of the month
 - VIII.** I will submit all documents as per checklist; Muster roll, Wage Register, Bank statement, Adult Register, Workmen Register, Wage Slip copies, Combined Challan & ECR & TRRN of PF deposition and Challan/ Contribution History of ESIC/ Employee Compensation Policy and all other registers including MIS Reports (Excel sheet), Employee profile to "The Company"
 - IX.** I shall get my submitted statutory compliance documents verified before 15th of every month in prescribed format (checklist) provided by "The Company" and upload the same along with PF Challan & ESIC Challan with the invoice in Ariba System for obtaining statutory clearance on uploaded bills.

Agreed	Not Applicable	Reason For Not Applicable
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- 2** I understand that failure to adhere to the compliances and the timelines will lead to holding (fully or partially) of my payments of the bills.

Agreed	Not Applicable	Reason For Not Applicable
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Annexure 4
Renewal of Gate passes

- 1 In case of renewal of gate pass, I will initiate the application at least Fifteen days in advance in ONLINE GATE PASS portal.

Agreed	Not Applicable	Reason For Not Applicable
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Annexure 5
Annual Compliances

- 1 I will submit all relevant returns under all applicable enactments on or within the scheduled date and submit a copy of the same to “The Company” within seven days of the scheduled date of submission.

Agreed	Not Applicable	Reason For Not Applicable
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Annexure 6
Contract closure and/or F&F settlement

- 1 **After completion of work and before or at the time of submission of final bills,** I will ensure the following and submit proof thereof to “The Company” enabling “The Company” to release my final bills/invoices:

Agreed	Not Applicable	Reason For Not Applicable
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- I. All wage payments as per statute are made to all the workers (including subvendors) till the last day of their work in “The Company”.
- II. Compensation towards Leave with wages are disbursed to all the workers (including subvendors) till the last day of their work.
- III. Statutory bonus is paid to all the workers (including subvendors) for the period of their work.
- IV. Retrenchment compensation, if applicable, is paid to all the workers (including subvendors) as per eligibility. Notice is given to the workers regarding retrenchment and in absence of notice payment is given to the workers as per the enactment.
- V. Gratuity is paid to all the workers (including subvendors) irrespective of the fact whether the worker has /hasn’t completed 5 years of continuous service with me.
- VI. Along with final payments, full & final statement is issued to all the workers engaged by me (including subvendors) for work in “The Company”.
- VII. No dues certificate obtained from all my employees (including subvendors) and copy submitted to “The Company”.
- VIII. Ensure completion of withdrawal or transfer formalities in respect of PF/EPS accumulation of all workers and submit proof thereof to “The Company” HR/IR dept after closure of contract.
- IX. Submit Form VI-A to “The Company” and surrender Labour License, if issued, to concerned Labour department in case the license is no more required for work in “The Company” and obtain clearance thereof from the Licensing Authority for submission to “The Company”.
- X. Ensure intimation to PF & ESI authorities regarding completion of work and surrendering ESI & PF sub code obtained for execution of work at “The Company”. Proof of the same will be submitted to “The Company”.
- XI. Cancel all gate passes in online gate pass portal & surrendering the access cards immediately upon closure of the said contract.

Annexure 7

Penalty scheme if defaulted in compliances:

I agree for the following penalty scheme which will be applicable if defaulted in compliances:

I agree for the following penalty scheme which will be applicable if defaulted in compliances:						Agreed	Not Applicable	Reason For Not Applicable
S N	Applicable Act	Compliance Requirement		Reference Annexure for Compliance Requirement	Due Date	Deduction as a % age of Monthly Bill Value		
1	CL (R&A) Act	a	Possessing Valid Labour License	Annexure 8 (4)	1 st day of work / Last day of existing license	5		
		b	Employment Card Issuance		1 st day of joining of worker	0.2		
2	CL (R&A) Act / Payment of Wages Act	a	Wage payment through Cheque/NEFT to 100% of Workmen	Annexure 8 (1)	7 th of following month	5		
		b	Wage Slip Distribution	Annexure 8 (4)	1 day before respective wage payment	1		
		c	Full & Final Settlement upon separation		30 days from last working day of individual worker	2		
3	EPF (MP) Act	a	Deposit of PF contribution	Annexure 8 (5)	15 th of following month	2		
		b	UAN Activation with mobile linkage		30 days from date of joining of worker	0.2		
4	ESI Act	a	Deposit of ESI contribution	Annexure 8 (6)	15 th of following month	2		
		b	ESIC & ESIC e-Pehchan Card Issuance		ESIC E-Pehchan Card- 01 days from Joining	0.2		
5	Payment of Bonus Act, MW Act, PoW Act, CL (R&A) Act	Submission of Return under Bonus Act, MW Act, PoW Act & CLR Act		Annexure 8	Bonus Act-31 st Dec MW Act- 31 st Jan Pow Act-31 st Jan CL (R&A) Act-31 st Jan/ 31 st July	0.5		
6	CL(R&A) Act, Factories Act, BOCW Act, EPF Act, ESI Act	Maintaining of registers/ challans under CLR Act, Factories Act,		Annexure 8	20 th of following month	0.5		
7	Other	a	Submission of false or fake documents			10		
		b	Disruption (Strike, Gate jam etc) caused to the functioning of "The Company" and Lack of disciplinary action on the worker/s.	Conducting the enquiry of the incident/s, preparing & submitting the report to Mgmt, filing of FIR in police station as & when required, taking action on the worker/s and concluding the disciplinary process. (clause 19)		10		
		c	Delay in submission of statutory documents, checklist etc			1		
		d	Non adherence to Gate pass, onboarding process	Annexure 1 and 2		1		
					TOTAL	40.6		

Annexure 8

List of few of the statutory requirements, not being exhaustive:

I/We understand & agree to abide by all the Statutory Acts, Rules, amendments in Acts/ rules & notifications which may get amended / applicable from time to time.

Following is the list of few of the statutory requirements, not being exhaustive, which I will be complying from time to time and as applicable:

Agreed	Not Applicable	Reason For Not Applicable
Agreed	Not Applicable	Reason For Not Applicable
Agreed	Not Applicable	Reason For Not Applicable

1

I shall comply with all applicable provisions under **THE PAYMENT OF WAGES ACT, 1936**

- I will display a notice showing the day on which the wages are paid,
- I. notice containing abstract of this Act in English and the vernacular language.
- II. I will pay wages on or before 7th of every month.
- III. Pay wages to employee for the purpose of this Act by NEFT.
- I will maintain register giving particulars of - (a)Persons employed (b)Work performed by the employees (c) Deductions made from the wages (d) Fines imposed (e) Receipts given (f) Any other particulars in such a form as may be prescribe.
- IV.
- V. I will maintain a register in Form IV for all the amount of advances sanctioned and the re-payment made.

2

I shall comply with all applicable provisions under **THE MINIMUM WAGES ACT, 1948**

- I will Pay minimum rates of wages to each employee as declared by the State Government by bank Transfer. I will follow the minimum wages circular by the Govt Authority/ Company as declared time to time.
- I. II. I will maintain a Muster Roll cum Wage Register in Form II.
- III. I will Provide one day as a weekly day of rest to each employee.
- IV. I will ensure that the normal working hour in a day does not exceed 9 hours for an adult.
- I will Fix working hours in such a way so as to provide atleast half and hour rest, ensuring that the continuous working hour, does not exceed 5 hours in a row.
- V.
- VI. I will provide a holiday for a period of 24 consecutive hours, from the time his shift ends.
- VII. I will pay extra wages @ double the ordinary rate of wages for extra hours working.
- VIII. I will maintain a hard bound Inspection Book and produce it to Inspecting Officer, when required by him.

Agreed	Not Applicable	Reason For Not Applicable
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- IX. I will preserve all the registers and records maintained for a period of 3 years from the date of last entry.
- X. I will provide payment for work on a day of rest at a rate not less than the overtime rate.

3 I shall comply with all applicable provisions under **EQUAL REMUNERATION ACT, 1976**

Agreed	Not Applicable	Reason For Not Applicable
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- I. I will pay equal remuneration to men and women workers for same work or work of a similar nature.
- II. I shall maintain such registers and other documents in relation to the workers employed by me.

4 I shall comply with all applicable provisions under **THE CONTRACT LABOUR (REGULATION AND ABOLITION) ACT, 1970**

Agreed	Not Applicable	Reason For Not Applicable
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- I. I will provide at least 1 first aid box for every 150 workers.
- II. I will pay wages on or before expiry of 7th day of each wage-period after the last day of wage period.
- III. I will ensure the presence of authorized representative of Principal Employer at the place and time of disbursement of wages by me to workmen.
- IV. I will display a notice at the work place showing: i) wage-period, ii) place of disbursement, and iii) time of disbursement.
- V. I will keep all the records and registers at office or within the radius of 3 kms. of establishment, maintain such records and registers legibly in English, Marathi or Hindi, preserve them for a tenure of 3 calendar years from date of last entry.
- VI. I will display the wage notice in English and Hindi or in Marathi at a conspicuous place containing the following particulars:- 1. wages, 2. working hours, 3. wage -period, 4. Date of payment of wages, 5. Name and address of the Inspector having jurisdiction, 6. Date of payment of unpaid wages.
- VII. I will submit annual return in Form XXV in duplicate to Registering Officer before 15th February following the end of the year.
- VIII. I will pay wages before the expiry of 1 working day from the day on which the employee is terminated.

5 I shall comply with all applicable provisions under **THE EMPLOYEES PROVIDENT FUNDS AND MISCELLANEOUS PROVISIONS ACT, 1952**

Agreed	Not Applicable	Reason For Not Applicable
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- I. I will submit the statement within 7 days of the close of every month.
- II. I will deduct the employee's contribution paid towards Employees Provident Fund.
- III. I will submit the duly approved form 11 by the competent authority while claiming the exemption from the PF act for my workers. **(Not valid for the Exempted PF Trusts).**
- IV. I will submit the ECR, Challan, TRRN etc on or before 14th of each month.
- V. I will maintain an inspection note-book in such form as may be specified by the Commissioner.

6

I shall comply with all applicable provisions under **THE EMPLOYEES' STATE INSURANCE ACT,1948 AND THE EMPLOYEES STATE INSURANCE (GENERAL) REGULATIONS,1950 AND THE EMPLOYEES' STATE INSURANCE RULES,1950**

Agreed	Not Applicable	Reason For Not Applicable
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- I. I will preserve all the register maintained for a period of 5 years from the date of last entry therein.
- II. I will register on-line on the website of Employees State Insurance within 15 days of employing the required number of employees.
- III. I will obtain correct particular of employees as required in Form 1.
- IV. I will send the declaration forms enclosed with Temporary Identification Certificate and a return in Form 3 within 10 days of furnishing the particulars to the appropriate office of ESIC.
- V. I will deliver the Temporary Identification Certificate and a copy of Form 3 to the employee.
- VI. I will take a duly filled Form 1-A from the employee having signature/thumb-impression and send it to the authority within 10 days of being furnished.
- VII. I will enter the particulars of changes given by the employee in Form 2 and send it within 10 days to the appropriate office.
- VIII. I will furnish information as required in Form 10.
- IX. I will maintain an Accident Book in Form 11 and preserve it for 5 years from the date of last entry.
- X. I will send an accident report in Form 12 to the nearest local office and Insurance Medical Officer.
- XI. I will provide the proper first-aid and arrange proper transportation for obtaining aid and care as may be required.
- XII. I will produce the Inspection Book on demand to the Inspector or any other person authorized by him.
- XIII. I will immediately report the death of the workers to the local officer, in death case.
- XIV. I will ensure that the body of deceased employee is not disposed until it has been examined by an Insurance Medical Officer.
- XV. I will ensure that no employee is dismissed, discharged or otherwise punished at any time while he/she is in receipt of benefit for Sickness, maternity, Temporary Disablement; or i. is under medical treatment for sickness; or ii. is absent due to illness arising.

7

I shall comply with all applicable provisions under **THE EMPLOYEE'S COMPENSATION ACT, 1923**

Agreed	Not Applicable	Reason For Not Applicable
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- I. I will pay compensation if personal injury is caused to an employee by accident arising out of and in course of his employment.
- II. In case of death of an employee, I will deposit with the Commissioner a sum of not less than five thousand rupees as funeral expenditure.
- III. I will pay compensation only by deposit with the Commissioner.
- IV. I will submit a statement to the Commissioner detailing the circumstances attending the death of the employee and indicating the grounds if he is not liable to pay compensation on account of death.

V. I will under any other law required to give notice to any authority of any accident occurring on his premises shall send a report to the Commissioner giving the circumstances attending the death or serious bodily injury.

VI. If directed under a notification then I shall send a return specifying the number of injuries in respect to which the compensation has been paid during the previous year along with the amount paid.

8 I shall comply with all applicable provisions under THE PAYMENT OF BONUS ACT, 1965

Agreed	Not Applicable	Reason For Not Applicable
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I. I will pay bonus to its employee's in an accounting year provided that an employee shall be entitled to bonus if he has worked for at least thirty working days in that year.

II. I will pay at least minimum bonus which shall be 8.33 per cent of the salary or wage earned by the employee during the accounting year or seven thousand Five hundred rupees whichever is higher.

III. I will prepare and maintain a register showing the computation of the allocable surplus.

IV. I will prepare and maintain a register showing details of the amount of bonus due to each of the employees, the deductions and the amount actually disbursed.

V. I will send an annual return to the Inspector.

9 I shall comply with all applicable provisions under THE INTER-STATE MIGRANT WORKMEN (REGULATIONS OF EMPLOYMENT AND CONDITIONS OF SERVICE) ACT, 1979

Agreed	Not Applicable	Reason For Not Applicable
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I. I will make application (in triplicate) for grant of license under the Act.

II. I will furnish such particulars to the specified authority in the State from which an Inter-State migrant workman is recruited and in the State in which such workman is employed.

III. I will issue to every inter-State migrant workman, a pass book.

IV. I will furnish return in respect to every Inter-State migrant workman who ceases to be employed.

V. I will pay wages to each Inter-State migrant workman employed by me which cannot be less than the rate of wages paid by the principal employer to a workman in the lowest category directly employed by him or minimum rate of wages, whichever is higher.

VI. I will issue service certificate on termination of employment to the migrant workman.

VII. I will maintain displacement-cum-outward journey allowance sheet and return journey allowance register.

VIII. I will maintain muster roll register and register of wages, register of deduction, fines and advances, maintain register of overtime.

IX. I will display an abstract of the Act and the rules in such form as may be approved by the Deputy Chief Labour Commissioner.

X. I will display Notices showing the rates of wages, names and addresses of the Inspectors having jurisdiction at the conspicuous places at the establishment and the work-site.

XI. I will submit half yearly return (in duplicate).

10

I shall comply with all applicable provisions under **THE PAYMENT OF GRATUITY ACT 1972**

Agreed	Not Applicable	Reason For Not Applicable
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- I. I will pay the due amount of gratuity **annually** to all the employees & maintain the records. The same will be shared with my employees & also with the employer during the bill submission in month of March.
- II. I will pay the due amount of gratuity within 30 days from the date it becomes payable to the employee, net amount not exceeding 10 lakhs; and intimate the payment done to the Controlling Authority.
- III. I will deposit the amount of gratuity payable with the Controlling Authority if the claimant is minor nominee/heir.
- IV. I will authorize an officer as a representative to receive the notices on behalf of company under the Act and Rules.
- V. I will obtain insurance for securing liability for payment towards gratuity from the Life Insurance Corporation of India or any other prescribed insure; as recommended in the notification.
- VI. I will pay the due amount of premium for renewal of insurance policy obtained for securing liability for payment of gratuity.
- VII. I will serve a notice of opening of the establishment in Form A to the Controlling Authority, within 30 days of the Act becoming applicable to the establishment.
- VIII. I will serve a notice of change in Form B to the Controlling Authority within 30 days of change in name, address, employer or nature of business.
- IX. I will serve notice in Form C to the Controlling Authority before 60 days of intended closure.
- X. I will display conspicuously a notice at or near the main entrance of the establishment in bold letters in English and in a language understood by the majority of the employees specifying the name of the officer with designation authorised by me to receive notices under the Act or the Rules.
- XI. I will keep nominations in safe custody.
- XII. I will verify the service particulars of the employee with the service details within 30 days of receipt.
- XIII. I will return duplicate copy of nomination form after obtaining receipt from the employee.
- XIV. I will deposit such amount with the Controlling Authority, payable to such employee.
- XV. I will send a notice in Form L to the applicant (employee/nominee/heir; as the case may be) within 15 days of receipt of the application specifying the amount of gratuity payable, fix a date for payment of it and forward a copy of the same to the Controlling Authority.
- XVI. I will send a notice in duplicate in Form M to the applicant (employee/nominee/heir) within 15 days of receipt of the application specifying the reason for inadmissibility and forward a copy of the same to the Controlling Authority.

XVII. I will display an abstract of the Act and the Rules at or near main entrance of the establishment, in English and in language understood by the majority of employees.

11 I shall comply with all applicable provisions under **THE MATERNITY BENEFIT ACT, 1961**

Agreed	Not Applicable	Reason For Not Applicable
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- I will ensure not to make the woman employee do any work which is of an arduous nature or which involves long hours of standing or which in any way is likely to interfere with her pregnancy or the normal development of the foetus, or is likely to cause her miscarriage or otherwise to adversely affect her health; during the specified period.
- I.
 - II. I will display the abstract of Rules in Form 9 in a conspicuous place in the language or languages of the locality.
 - III. I will maintain a Maternity Benefit Register in Form 10.
 - IV. I will ensure not to: i) dismiss or discharge the women employee on account of absence during maternity period, ii) serve notice of discharge or dismissal on such a day that the notice will expire during such absence, iii) vary to her disadvantage any of the conditions of her service.
 - V. I will give maternity leave for a period of 26 weeks.

12 I shall comply with all applicable provisions under **THE CHILD LABOUR (PROHIBITION AND REGULATION) ACT, 1986**

Agreed	Not Applicable	Reason For Not Applicable
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- I. I will ensure not to employ any child or permit to work in : i) occupations specified in Part A of the Schedule or ii) processes specified in Part B of the Schedule.

13 I shall comply with all applicable provisions under **THE FACTORIES ACT, 1948 AND THE RULES** as & if applicable.

Agreed	Not Applicable	Reason For Not Applicable
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14 I shall comply with all applicable provisions under **THE SHOPS AND ESTABLISHMENTS (REGULATION OF EMPLOYMENT AND CONDITIONS OF SERVICE) ACT AND THE RULES** as & if applicable.

Agreed	Not Applicable	Reason For Not Applicable
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15 I shall comply with all applicable provisions under **THE WEEKLY HOLIDAYS ACT, 1942.**

Agreed	Not Applicable	Reason For Not Applicable
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16 I shall comply with all the applicable provisions under **THE NATIONAL AND FESTIVAL HOLIDAY ACT**

Agreed	Not Applicable	Reason For Not Applicable
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- I will grant leave/ holiday with wages on following 3 days, i.e. 26th
- I. January (Republic Day), 15th August (Independence Day) and 2nd October (Gandhi Jayanti).

17 I shall comply with all applicable provisions under **THE BUILDING AND OTHER CONSTRUCTION WORKERS (REGULATION OF EMPLOYMENT AND CONDITIONS OF SERVICE) ACT, 1996** as & if applicable.

Agreed	Not Applicable	Reason For Not Applicable
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18	I shall comply with all applicable provisions under APPRENTICES ACT, 1961 , as & if applicable.	Agreed	Not Applicable	Reason For Not Applicable
19	I shall comply with all applicable provisions under THE PRIVATE SECURITY GUARDS ACT AND THE RULES of the State, as & if applicable. I. I have the licence issued by the Competent Authority.	Agreed	Not Applicable	Reason For Not Applicable
20	I shall comply with all applicable provisions under LABOUR WELFARE FUND ACT AND THE RULES of the State, as & if applicable.	Agreed	Not Applicable	Reason For Not Applicable
21	I shall comply with all applicable provisions under The EMPLOYMENT OF LOCAL CANDIDATES IN THE INDUSTRIES ACT AND THE RULES of the State, as & if applicable.	Agreed	Not Applicable	Reason For Not Applicable
22	I shall comply with all applicable provisions under THE WORKMEN'S MINIMUM HOUSE RENT ALLOWANCE ACT AND THE RULES of the State, as & if applicable.	Agreed	Not Applicable	Reason For Not Applicable
23	I shall comply with all applicable provisions under Motor Transport Workers Act 1961 AND THE RULES of the State, as & if applicable.	Agreed	Not Applicable	Reason For Not Applicable
24	I shall comply with all applicable provisions under THE MAHARASHTRA MATHADI, HAMAL AND OTHER MANUAL WORKERS (REGULATION OF EMPLOYMENT AND WELFARE) ACT, 1969.	Agreed	Not Applicable	Reason For Not Applicable

Date: _____

Signature: _____

Place: _____

Name: _____

Vendor code: _____

Witness :

For The Tata Power Company Limited:

Name & Signature:.....
(Head Corp Contracts)

Name & Signature:.....
(Head IR/ Head BHR)

- iii. Checking of BFP, its lube oil system, condensate/drip/CW pumps operation
- iv. Local Scope tube operation of BFP
- v. Charging of HP & IP bypass system

c. Electrical Field in general

- i. Checking stator water cooling system
- ii. Checking Hydrogen cooling system, charging of Hydrogen
- iii. Checking of seal oil system
- iv. Checking up excitation system
- v. Checking & Resetting of Relays
- vi. Electrical Isolation of supply
- vii. Checking the position of breakers/isolators/CTs/PTs
- viii. Routine checks on transformers
- ix. Drawing power from grid & giving power for charging feeders
- x. Liaison with load despatch center/calculation of daily statistics
- xi. Frequency & voltage control/checking synchronous scope
- xii. Plant Visit

c) Maintenance/On job

- a. HT/LT motors maintenance
- b. Transformer maintenance
- c. AC/DC supply systems, station batteries and DG sets
- d. Generator/ excitation systems
- e. Switchyard / switchgear equipment maintenance
- f. Electrical Testing Lab Activities and equipment of electrical testing lab.
- g. C&I Lab: Equipment and Tools in C&I lab. Functions and operations carried out in C&I Lab, Calibration and repairs for UCB and field instruments, Pneumatic components
- h. calibration and testing case studies, repair of UCB/Field instruments
- i. Control system - basic principles, constructional features, calibration, preventive maintenance and troubleshooting of analog control systems, level, flow, pressure and temperature control systems, component / cards used in control systems, static and dynamic timing, control valves and dampers
- j. Data acquisition system. or distributed digital control system - basic principles, constructional features, calibration, preventive maintenance and troubleshooting of digital and analog inputs to Digital Automation System (DAS) and their conditioning, I/O and interface, functioning of alarms, monitoring formats and logs, sequence of events

d) Suggestion:

Appropriate training on Mechanical Side of Thermal Power Plant may be included as per the organization needs.

(3) CURRICULUM FOR TECHNICIANS ASSISTING SUPERVISORS ENGAGED IN THE OPERATION AND MAINTENANCE OF THE COAL/Lignite BASED THERMAL POWER PLANTS

a) Classroom

- a. Power plant familiarization
- b. Fundamental units and their conversion (mechanical, electrical, thermo-dynamic).
- c. Engineering drawing and practice.
- d. Principle and working of alternating current and direct current generators

- e. Principle and working of transformers and their parallel operation,
- f. Principle and working of alternating current & direct current motors, their speed characteristics, controls
- g. Storage battery- principle, construction and charging
- h. Fuels and combustion, types of fuels – their properties and testing, requirement of efficient combustion
- i. Boiler and boiler house plant and auxiliaries:
- j. Turbine and turbine house auxiliaries.
- k. Condenser and vacuum extraction plant
- l. Cooling water systems and cooling towers
- m. Water conditioning, pre-treatment and demineralization, water chemistry.
- n. Coal handling
- o. Ash handling and electrostatic precipitation

- p. Flow diagrams of basic cycles and scheme tracing:
 - i. Coal handling.
 - ii. Steam and condensate
 - iii. Ash and slag handling
 - iv. Station services - domestic water, air conditioning, ventilation, lifts
 - v. Air services, air compressors, switchgear
 - vi. Bearing cooling, and general service water system
 - vii. Circulating water system
 - viii. Feed water and reheating plant
 - ix. Fuel oil system
 - x. Station batteries and battery charging equipment
 - xi. Station lighting, power supply and distribution boards.

- q. **Power Plant Hazards**
 - i. Industrial Hazards
 - ii. Power plant hazards
 - iii. Risks, Hazards & Accidents
 - iv. Hazard Identification and Risk Assessment
 - v. Legal aspects of Safety
 - vi. Personal protective equipment & clothing
 - vii. Safety & House keeping

- r. **Major Safety Risks**
 - i. Fall Protection
 - ii. Road Safety
 - iii. Fire Safety
 - iv. Material Handling

- s. **Safety in O&M**
 - i. Introduction to E&M Safety Rules -1996
 - ii. Familiarization of Safety rules
 - iii. Basic Safety Rules SR 1 to 11.
 - iv. Different Safety documents -LWC, PTW, PTW (Romp) & SFT -Related Precautions to be taken
 - SR1. Applications of the Electrical and Mechanical Safety Rules.
 - SR2. Safety precautions for work on or adjacent to plant and high voltage apparatus.
 - SR3. Safety precautions for testing plant and high Voltage apparatus.
 - SR4. Approach to exposed high voltage conductors or insulators.
 - SR5. Safely precautions for work on or testing of medium voltage or low voltage apparatus.
 - SR6. Operation to achieve safety from the system.

- SR7. Demarcation of work areas.
- SR8. Identification of plant and apparatus.
- SR9. Safety precautions for work/testing on plant.
- SR10. Venting of plant and apparatus
- SR11. Purging of plant and apparatus.

t. Procedure - Safety Document (LWC/PTW/PTW(ROMP) /SFT)

- i. Preparation
- ii. Issue
- iii. Receipt
- iv. Transfer
- v. Suspension and
- vi. Cancellation
- vii. LOTO System

b) Practicals/ On-Job

- a. Use of machines, tools and tackles, gauges, fits and clearances, tolerances, brazing,
- b. Soldering and welding, bearings, gears and thread, fasteners
- c. Bearings types, installation and removal procedures and maintenance of clearances and tolerances, oil seals types, their applications and clearances.
- d. Lubrication and cooling principles.
- e. Electrical labs
- f. Controls and Instrumentation Lab.

c) Suggestion:

Appropriate training on Mechanical Side of Thermal Power Plant may be included as per the organization needs.

15. Curriculum for Combined Cycle Gas Turbine based Power Plants

(1) CURRICULUM FOR ENGINEERS AND SUPERVISORS ENGAGED IN THE OPERATION AND MAINTENANCE OF THE COMBINED CYCLE GAS TURBINE BASED POWER PLANTS

- a) Power sector scenario of India
- b) **Introduction to Gas turbines & Combined cycle power generation**
 - a. The Gas Turbine (Brayton) Cycle
 - b. The Steam-Water (Rankine) Cycle
 - c. Heat Recovery Steam Generator (HRSG)
 - d. The Combined Cycle
 - e. Benefits of the Combined Cycle
 - f. Plant Layout & Auxiliary systems
- c) **Constructional features of Gas turbine system**
 - a. Inlet filter system
 - b. Compressor
 - c. Combustion Chamber
 - d. Turbine
 - e. Gas Turbine (GT) Dampers

- SR6. Operation to achieve safety from the system.
- SR7. Demarcation of work areas.
- SR8. Identification of plant and apparatus.
- SR9. Safety precautions for work/testing on plant.
- SR10. Venting of plant and apparatus
- SR11. Purging of plant and apparatus.

q) Procedure - Safety Document (LWC/PTW/PTW(ROMP) /SFT)

- a. Preparation
- b. Issue
- c. Receipt
- d. Transfer
- e. Suspension and
- f. Cancellation
- g. LOTO System

r) Roles & Responsibilities of CP, AP, SAP

- a. Precautions for Isolation and Normalization function
- b. Isolation procedure as per E&M safety rule
- c. Importance of Safety Related Compliance Claim (SRCC)
- d. Safety in welding and gas cutting
- e. Safety in erection, use and dismantling of scaffolds
- f. Concept of Preventive, Predictive, Maintenance.
- g. Long-Term Short-Term Planning.
- h. Maintenance Planning of any equipments. Spare parts planning. Analyzing Past history of equipments.
- i. Understanding maintenance modules of SAP
- j. PR Raising – issues and concerns. Understanding relevant clauses of DOP, Material PO, and Service PO preparation
- k. How to prepare technical specification of an item for purchase and Understanding Material Coding. Inspection, issue & return of material.

(2) CURRICULUM FOR TECHNICIANS ENGAGED IN THE OPERATION AND MAINTENANCE OF THE COMBINED CYCLE GAS TURBINE BASED POWER PLANTS

a) Classroom

- a. Gas Power plant familiarization
- b. Fundamental units and their conversion (Mechanical, electrical, thermo-dynamic).
- c. Engineering drawing and practice.
- d. Fuels and combustion types of fuels – their properties and testing, requirement of efficient combustion Gas turbine and WHRB
 - i. General description.
 - ii. Arrangement of Gas turbines
 - iii. WHRB (Waste Heat Recovery Boiler)
 - iv. Instrumentation and Control system.
 - v. Fabrication and assembly of different parts of gas turbine and its accessories.
 - vi. High pressure welding.
 - vii. Fuel storage and transport arrangement.

- viii. Operation appreciation (start-up, running and shutdown).
- e. Water conditioning, pre-treatment and demineralization.
- f. Steam turbine and turbine house auxiliaries.
 - i. Fundamental principle of steam turbine
 - ii. Theory and operation of steam turbine
 - iii. Arrangement of steam turbine.
 - iv. Governing and protection of turbine.
 - v. Operation appreciation (start-up, running and shutdown)
- g. Handling of gas turbine, steam turbine and WHRB
- h. Condenser and vacuum extraction plant :
 - i. Purpose and function.
 - ii. Construction of surface condenser and vacuum pumps
- i. Cooling water systems and cooling towers.
- j. Flow diagrams of basic cycles and scheme tracing :
 - i. Steam and condensate
 - ii. Station services, domestic water, air conditioning, ventilation, lifts
 - iii. Air services, air compressors, switchgear.
 - iv. Bearing cooling and general service water system.
 - v. Circulating water system.
 - vi. Feed water system
 - vii. Fuel oil system
 - viii. Station batteries and battery charging equipment
 - ix. Station lighting, power supply and distribution boards
- k. Mechanical appreciation – correct use of machines, tools and tackles, gauges, fits and clearances, tolerances, brazing, soldering and welding, bearings, gears and thread, fasteners
Station instrumentation and controls.
- l. Fire-fighting installations in thermal power station.
- m. Electric shocks, first aid, acid burn, alkali wounds, chlorine gas poisoning and their treatment.
Duties and responsibilities of operators and plant attendants, carrying out instructions, reporting to supervisors, recording reading unusual occurrences, expected behavior, discipline, sincerity, cleanliness and love for machines.
- n. Safety of personnel and equipment, cleanliness, caution and care in power station working.
- o. How electricity is generated, transmitted and distributed i.e. generator to Consumer service board.
- p. Fundamental units, conversion and measurement of electrical quantities.
- q. Principle and working of alternating current and direct current generators and their parallel operation.
- r. Principle and working of transformers and their parallel operation.
- s. Principle and working of alternating current and direct current motors, their speed characteristics, controls.
- t. Storage battery- principle, construction and charging.
- u. Alternator cooling, different systems of cooling, advantages of hydrogen cooling over others, hydrogen plant.

(3) CURRICULUM FOR TECHNICIANS ASSISTING SUPERVISORS ENGAGED ON THE ELECTRICAL SIDE OF THE HYDRO ELECTRIC POWER PLANTS

- a) Classroom Training
- b) Operation and general aspects of annual maintenance of generators and auxiliaries
 - a. Generator and its dry out
 - b. Excitation system
 - c. AVR
- c) Operation and general maintenance of common electrical auxiliaries
 - a. Station supply
 - b. Batteries and chargers, DC distribution boards and emergency lighting system
 - c. Motor winding and repairs
 - d. Understanding of electrical panel wiring
 - e. PLCC system
 - f. EOT crane
- d) Study of various components and systems within a hydro power plant that can be upgraded, such as turbines, generators, control systems, and auxiliary equipment.
- e) Techniques and methodologies for assessing the condition and performance of aging hydro power plants.
- f) Residual Life Assessment (RLA) Studies of Hydro Power Projects to assess and evaluate the condition and remaining life of critical component.
- g) Classification of R&M schemes based on scope of works:
 - a. Renovation and Modernisation (R&M)
 - b. Restoration (Res)
 - c. Upgrading (U)
 - d. Life Extension (LE)
- h) Approaches and best practices for upgrading and modernizing hydro power projects to enhance efficiency, reliability, and safety.
- i) Implementation of advanced automation and control systems for improved monitoring, operation, and maintenance of hydro power plants.
- j) Case studies of successfully renovated hydro power projects, along with the best practices, challenges faced and lessons learned.
- k) Commercial Aspects of R&M of Hydro Power plants i.e. Cost-benefit analysis, tariff determination etc
- l) Basics of Floating Solar PV on Water Bodies - Suitability of reservoir, Anchoring & Mooring Arrangements, Design parameters, Basics of Bathymetry Survey etc.!
- m) Operation and maintenance of transformers including oil filtration
- n) Types of Turbines (Kaplan, Francis, Pelton) and their usages in different Climatic and Geographical Conditions
- o) Governing System and its Relationship with Guide Vane Opening and Closing.
- p) Pumped Storage HE Projects-Need of the Hour.
- q) Flood Control Mechanism and the Operating Mechanism of Crest Gates and Under Sluice Gates.
- r) Differences between Hydro and Thermal Power Plants on Technical and Commercial Comparison.

- s) Outdoor switch yard equipment such as isolators, circuit breakers and contactors, earthing switches, CT, CVT, LA
- t) Indoor switch gear system
- u) Alarm systems - visual and audible
- v) Earthing and neutral grounding: necessity of methods for safety while handling electrical equipments. Reading electrical circuit diagrams
- w) Meggering and testing of electrical equipment, wiring and cables
- x) Maintenance of electrical switchgears
- y) Fuses-rewirable types, cartridges type, high rupturing capacity fuse, constructional features of fuse and fuse sockets, knife type high rupturing capacity fuses, use of pullers for insertion and removal, color code for fuse ratings.
- z) Motor starters and their applications- direct-on-line, star delta, rotor resistance, contactors and relays
- aa) Voltmeters, ammeters, watt meters, energy meters, meggers, multi-meters, tong testers and general information about their use
- bb) Laying and jointing of cables of voltage up to 250 V and exceeding 250 V but not exceeding 650 V
- cc) Panel wiring methods, connections, earthing, and principles of operation of small distribution transformers.
- dd) Protection relays, current and potential transformers, purposes, connections and use

a) Practicals:

- a. Interpretation of instrument reading and accurate logging.
- b. Workshop practices, making of spare parts, welding, gas cutting, pipe fitting methods.
- c. Introduction to various tools and tackles
- d. Shaft Alignment methods
- e. Vibrational general causes effects, remedies, measurement and balancing.
- f. Maintenance and testing of disturbance fault recorder, event sequence recorder, digital relay.
- g. Pressure gauges, Level gauges, Temperature indicator.
- h. Transfer Oil Testing.
- i. Meggering and testing of electrical equipments.
- j. Disaster Management Plan implementation and coordination
- k. Understanding Fire safety and other hazard management as per ISO
- l. Understanding of Occupational Health and Safety (OHS)
- m.

b) Suggestion:

Appropriate training on Mechanical and Civil Side of Hydro Electric Power Plant may be included as per the organization needs.

	conditions, framing of Q R(Qualifying requirements), Tendering procedure & Tender opening, Tender/BID Evaluation, Loading for deviations, Price/Cost analysis, Placement of Orders, Lead time analysis. Pricing Agreement (Rate Contract), Various price basis. Vendor enlistment & Source standardization Expediting of supply from vendor, closing of POs.	
	<p>CONTRACTS MANAGEMENT: Preparation & approval of Scope of work & cost estimate. Budgeting. General & Special Contract Conditions, Qualifying Requirements. Mode of tendering, Single part bid/ two part bids, Tender Opening, Preparation of comparative statement, Technical Evaluation of bids in line with considering deviations & cost compensation, Placement of Award, Signing of agreement, Different Bank Guarantees, Post Award Activities: Role & Responsibilities of Engineers-in-charge, First RA bill. Final bill & closing of contract, Arbitration cases</p> <p>Basics of Finance in Power Sector, Capital Budgeting, Capital Budgeting, Capital Budgeting, Sources of Finance, Working Capital Management, Financial Statements, Financial Statement Analysis, Financial Statement Analysis, Project Financing, Basics of Financial Modeling, Financial Modeling – Case Study, Renewable Energy Planning in India, Environmental Issues, Regulatory Issues, Health Issues, Entrepreneurship, Understanding the business environment of Renewables in India.</p>	

Practical session – 1 Days

Site visit to Solar & wind plant at nearby site

- a) Demonstration of technical aspects – 01 day
- b) Demonstration of O & M Practices – 01 Day

19. CURRICULUM FOR TECHNICIANS ENGAGED IN OPERATION & MAINTENANCE OF SOLAR PV SYSTEMS

1. Renewable Energy Scenario in India
2. Electrical Safety Electrical & Safety Rules
3. Simple First Aid, General safety of tools and equipment
4. Personal Protective Equipment
5. Fire extinguishers, Type of fire extinguishers
6. Electricity Basics
7. Fundamental of earthing system
8. Solar PV module Fundamentals - Types of modules and its applications, PV components and configuration etc.

9. Introduction to Solar Photovoltaic, Basic Principle of Photovoltaic Tech.
10. PV System Sizing - series & parallel Array
11. Fundamental temperature coefficients - Current, voltage and power fundamentals
12. Performance analysis and troubleshooting monitoring of generation per string incoming & outgoing power at junction box & Inverter level.
13. Requirement and Uses of Tools & Tackles
14. Basic knowledge of Ammeter Voltmeter, clamp meter, tong tester Irradiance sensor temperature sensors
15. Cable tray & Cable laying
16. SCADA & Control System
17. End termination of power cable
18. (LT/ HT) Commissioning & testing
19. Structure erection
20. Battery installation & Maintenance
21. Check list preparation
22. Pre -requirement of installation of sub-station equipment
23. Basics and erection of transformers, pole erection and Stringing
24. Foundation- reinforcement & Shutting
25. Operation & Maintenance
26. Soft & Entrepreneurship Skills

Practical session – 1 Days

Site visit to Solar & wind plant at nearby site

- a) Demonstration of technical aspects – 01 day
- b) Demonstration of O & M Practices – 01 Day

Solar PV Lab and Solar PV Trainer /Simulation Kit:

1. 10 KWp Grid connected Roof Top Solar PV Installation (Mono /Poly Crystalline Technology & Thin film Technology) with 10 Kw Inverter,
2. SCADA Monitoring Facility, Pyranometer, Data Logger, Temperature sensor & Irradiance Sensor etc.
3. Measuring Devices like Megger, Clamp Meter, Multimeter, Hydro Meter, Vernier Caliper, Measuring Tape Etc.

4. Fitting Tools like Double ended Flat spanner, Double End Ring Spanner, Combination Pliers, Side Cutting Pliers, Nose pliers, Nose pliers, wire Stripper, hand Crimping Tools, Cable cutter, Screw Driver etc.

5. Safety Tools like Safety Helmets, safety Belt, Nose mask, Safety Goggles, PVC Hand Gloves



भारत सरकार

GOVERNMENT OF INDIA

विद्युत मंत्रालय

MINISTRY OF POWER

केन्द्रीय विद्युत प्राधिकरण

CENTRAL ELECTRICITY AUTHORITY

मानव संसाधन विकास प्रभाग

HUMAN RESOURCE DEVELOPMENT DIVISION

विद्युत प्रसारण के क्षेत्र में प्रशिक्षण संस्थानों की मान्यता के लिए और इंजीनियरों,
पर्यवेक्षकों और तकनीशियनों के प्रशिक्षण पाठ्यक्रम के विवरण के लिए मार्गदर्शी
सिद्धांत

**Guidelines for Recognition of Training Institutes in the field of
Transmission of Electricity including details of training Curriculum
for Engineers, Supervisors and Technicians**

January, 2024

19. CURRICULUM FOR TECHNICIANS ASSISTING SUPERVISORS ENGAGED IN OPERATION AND MAINTENANCE OF TRANSMISSION SYSTEM ("Basic Course" element of Mandatory Induction Course)

Qualifications- ITI (2 years Course) OR Experienced based employee at equivalent level

- a) Over view of Substation construction , Operation and Maintenance, Transmission Line construction
Transmission Line Operation and Maintenance

b) Operation/Maintenance

Part-A- Substation

- a) Sub-station - 132 kV and above
- b) Sub-station- Daily inspection for condition monitoring of various switchyard equipment including transformer /Reactor.
- c) Thermovision scanning of switchyard for detection of hot spot .
- d) Transformer/ Reactor Maintenance including its accessories like electrical and mechanical relays
- e) Condition monitoring of switchyard equipment like Circuit breaker , current transformer , isolators , CVT and Lightning arrestor alongwith Principle and its operation
- f) Measurement of current, voltage, power, energy, frequency and power factor
- g) Testing and connection of various protection relays like transmission line , transformer /Reactor , Bus bar protection
- h) Measurement of earth resistivity for transformer / reactor neutral earth pit
- i) Insulation testing of switchyard equipment and its importance
- j) Operation and its maintenance of Auxiliary system like ACLT , DCDB , DG set , Fire protection system operation and its maintenance Video monitoring system , Illumination system
- k) Understanding & Demonstration of cable laying , cable glanding , termination & ferruling
- l) Study of various type of power fuses, control fuses and horn gaps and its application
- m) Demonstration of discharge rod fixing and removal with safety aspect
- n) Role of Permit to work(PTW) and Sanction for test (SFT) before taking any maintenance activities in switchyard
- o) Condition monitoring, calibration and handling of various measuring testing equipment and Tools & Plant
- p) Best Earthing Practices to be implemented for different Electrical Installations

Part-B- Transmission line -132kV and above

Transmission line basic concepts like type of towers , conductors and its associated hardware. Route survey of Transmission line to recognise the type of towers and voltage level of transmission line based on conductor configuration.

- a) Transmission line foundation – types and identification of various defects on foundation
- b) Understanding Permit to Work (PTW) and isolation of transmission line before attending any transmission line defects
- c) Tower top inspection of transmission line for checking any abnormality of insulators and hardware
- d) Transmission line inspection – check list and its importance for transmission line
- e) Measurement of TFR , clearance and performing Puncture insulator disc(PID) scanning
- f) Measurement of hot spot through thermovision scanning
- g) Demonstration of conductor compression jointing for mid span and dead end joints
- h) Replacement of suspension and tension insulators
- i) Use of safety equipment, practical's followed for permit on works(PTW)
- j) Demonstration of discharge rod fixing and removal with safety aspect

- k) Tower Climbing practice up to Bottom Cross arm
- l) Tower Climbing practice up to Middle Cross arm
- m) Tower Climbing practice up to Top Cross arm
- n) Tower Climbing practice up to Earth wire peak

20. Curriculum for Hot-line Training (Total Duration: 11 weeks)

Training Module -Live Line Maintenance using Hot Stick Method

(Replacement of insulators of Suspension String/Tension String/V String of 66 kV, 110 kV/132, 220kV using Hot Stick Method)

Session 1: Tower Climbing and Tower Patrolling

- a) This training on tower climbing is generally aimed at those persons new to the tower climbing and provides a solid base for safe working on towers during transmission line maintenance work.
- b) Those attending are equipped with the key information, knowledge and practical skills required to work safely on tower using personal protection equipment (PPEs)
- c) Course Objectives & Content
 - To get rid of fear of tower climbing
 - Climbing of tower and movement on tower with safety
 - To provide knowledge about different parts of transmission line towers
 - To know about the different T&Ps required for maintenance of transmission lines
 - General transmission line maintenance and safety practices
- d) Prerequisites
All Technicians/JE/AE/ET. Those attending should be medically fit
- e) This Tower Climbing training course uses a combination of classroom and hands-on fieldwork to train workers/supervisors/ETs for tower climbing and for safe working on height.
 - a. Introduction of various T&Ps required for live line transmission line maintenance activities
 - b. Importance of various personnel protective equipment's /safety gears used during transmission maintenance activities
 - c. Uses of double lanyard safety belts/safety helmets/safety shoes with the its benefits during tower climbing
 - d. Use of mobile fall arrester and retractable fall arresters
 - e. Introduction to various hardware fittings and its assembly
 - f. Demo of photography/TFR/Laser finder/PID/Thermo-scanning/ PG- Darq
 - g. Demonstration of tower climbing
 - h. Tower climbing training up to waist level
 - i. Tower climbing training up to cross arm level
 - j. Horizontal movement (cross arm to cross arm) on the tower with proper anchoring of double lanyard
 - k. Tower climbing training up to earth peak level
 - l. Tower climbing training with dummy load of (5-10 KG)
 - m. Earthing arrangements (how to fix discharge leads with discharge rod)
 - n. Copper bond/earth wire jumper checking
 - o. Fixing of loose copper bonds/earth wire jumpers
 - p. Safety aspects and Regulatory requirements
 - q. First Aid,

- r. Electrical safety,
- s. Fire fighting etc

f) (class room training)

- a. Patrolling Norms of 220/400/765/800 KV lines
- b. Importance of patrolling of lines and procedures
- c. Emergency patrolling procedures
- d. Methods of preventive maintenance
- e. Photography of lines
- f. Thermos canning of lines
- g. PID of lines
- h. Clearance measurement of lines
- i. TFR measurement
- j. Fault finding of lines

g) Evaluation of participants on the basis of following:

- a. Their practical performance of tower climbing
- b. Duration of tower climbing
- c. Adoption of safety practices during tower climbing
- d. Interest level during training program

h) After completing this course, the participants will understand and be capable for

- a. Tower climbing
- b. Working on transmission line towers with safety
- c. Uses of personal protective equipment's
- d. General transmission line maintenance

Session- 2 (Class Room Session for insulator replacement)

- a) Need of insulator replacement
- b) Various causes of insulator failure
- c) Introduction to various T&P required for replacement of suspension insulators
- d) Purpose/usage of all the T&P required for insulator replacement
- e) Ground arrangement required for suspension/tension/ V String insulator replacement
- f) Uses of safety gears such as retractable fall arrester.

Session-3 (Practical Session on Experimental Line 66 kV, 110 kV/132, 220 kV in Cold Condition)

- a) Climbing of tower with required T&P
- b) Safe movement on cross arms with T&P
- c) Use of PID to identify faulty/defective
- d) Fixing of pulleys, uses of metal/polyester slings
- e) Uses of chain hoist/ratchet
- f) Uses of Epoxy Glass Hot Stick and other tools
- g) Taking of load of Suspension String /Tension String /V String using Epoxy Glass Hot Stick
- h) Fixing of Static Shunt between tower to the Insulator String if needed
- i) Removal of Complete Insulator String using Epoxy Glass Hot Stick
- j) Bringing Complete Insulator String to Ground
- k) Removal of faulty insulator from Insulator String

- l) Fixing of new insulator (porcelain/glass insulators/polymer Insulators) in Insulator String
- m) Taking Complete Insulator String to its original location
- n) Fixing/Replacement of whole suspension string
- o) Removing the Tools and Tackles from the tower and sending them to the ground

Session- 4 (Practical Session on Experimental Line on 66 kV, 110 kV/132, 220 kV after charging with 11 kV supply)

- a) Climbing & Movement on tower & cross arms with T&P
- b) Use of PID to identify faulty/defective
- c) Fixing of pulleys, uses of metal/polyester slings
- d) Uses of Epoxy Glass Hot Stick & chain hoist/ratchet and other tools
- e) Taking of load of Suspension String /Tension String /V String using Epoxy Glass Hot Stick
- f) Fixing of Static Shunt between tower to the Insulator String if needed
- g) Removal of Complete Insulator String using Epoxy Glass Hot Stick
- h) Bringing Complete Insulator String to Ground
- i) Removal of faulty insulator from Insulator String
- j) Fixing of new insulator (porcelain/glass insulators/polymer Insulators) in Insulator String
- k) Taking Complete Insulator String to its original location
- l) Fixing/Replacement of whole suspension string
- m) Removing the Tools and Tackles from the tower and sending to the Ground

Session- 5 (Practical Session on Live Line/ Commercial Line 66 kV, 110 kV/132, 220 kV in fully charged Condition)

- a)
- b) Climbing on tower and going on the cross arms with T&P
- c) Use of PID to identify faulty/defective
- d) Fixing of pulleys, uses of metal/polyester slings
- e) Uses of Epoxy Glass Hot Stick & chain hoist/ratchet and other tools
- f) Taking of load of Suspension String /Tension String /V String using Epoxy Glass Hot Stick
- g) Fixing of Static Shunt between tower to the Insulator String if needed
- h) Removal of Complete Insulator String using Epoxy Glass Hot Stick
- i) Bringing Complete Insulator String to Ground
- j) Removal of faulty insulator from Insulator String
- k) Fixing of new insulator (porcelain/glass insulators/polymer Insulators) in Insulator String
- l) Taking Complete Insulator String to its original location
- m) Fixing/Replacement of whole suspension string
- n) Removing the Tools and Tackles from the tower and sending to the Ground

**21. Refresher Course Training Module- Live Line Maintenance using Bare Hand Method (05 Weeks)
(Replacement of insulators of suspension string/tension string/V string 400 kV using Bare Hand Method)**

(This training module is a refresher course and the trainees can undergo this training programme only after they have undergone the 11 week induction

training as mentioned at section 21 and have relevant working experience of at least 2 years.)

Session-1

- a) Purpose/usage of all the T&P required for insulator replacement
- b) Ground arrangement required for Suspension String /Tension String /V String insulator replacement
- c) Uses of safety gears such as retractable fall arrester etc.

Session-2 (Practical Session on Experimental Line 400kV in Cold Condition)

- a) Climbing of tower with required T&P
- b) Safe movement on cross arms with T&P
- c) Fixing of pulleys, uses of metal/polyester slings
- d) Uses of chain hoist/ratchet
- e) Uses of Epoxy Glass Hot Stick and other tools
- f) Sending Hot man near to the Live Conductor by Epoxy glass Ladder /Hot Line Chair
- g) Taking of load of Suspension String /Tension String /V String using Epoxy Glass Hot Stick
- h) Fixing of Static Shunt between tower to the Insulator String if needed
- i) Removal of Complete Insulator String using Epoxy Glass Hot Stick
- j) Bringing Complete Insulator String to Ground
- k) Removal of faulty insulator from Insulator String
- l) Fixing of new insulator (porcelain/glass insulators/polymer Insulators) in Insulator String
- m) Taking Complete Insulator String to its original location
- n) Fixing/Replacement of whole suspension string
- o) Taking Hot man back from Live conductor
- p) Removing the Tools and Tackles from the tower and sending to the Ground

Session-3 (Practical Session on Experimental Line on 400 kV after charging with 11 kV supply)

- a) Climbing of tower with required T&P
- b) Safe movement on cross arms with T&P
- c) Fixing of pulleys, uses of metal/polyester slings
- d) Uses of chain hoist/ratchet
- e) Uses of Epoxy Glass Hot Stick and other tools
- f) Use of Hot Man Suit
- g) Sending Hot Man near to the Live Conductor using Epoxy glass Ladder /Hot Line Chair
- h) Practice of Hot Man for touching & come back on live conductor
- i) Taking of load of Suspension String /Tension String /V String using Epoxy Glass Hot Stick
- j) Fixing of Static Shunt between tower to the Insulator String if needed
- k) Removal of Complete Insulator String using Epoxy Glass Hot Stick
- l) Bringing Complete Insulator String to Ground
- m) Removal of faulty insulator from Insulator String
- n) Fixing of new insulator (porcelain/glass insulators/polymer Insulators) in Insulator String
- o) Taking Complete Insulator String to its original location
- p) Fixing/Replacement of whole suspension string
- q) Taking Hot man back from Live conductor

- r) Removing the Tools and Tackles from the tower and sending to the Ground

Session-4 (Practical Session on Live Line/ Commercial Line 400 kV in fully charged Condition)

- a) Climbing of tower with required T&P
- b) Safe movement on cross arms with T&P
- c) Fixing of pulleys, uses of metal/polyester slings
- d) Uses of chain hoist/ratchet
- e) Uses of Epoxy Glass Hot Stick and other tools
- f) Use of Hot Man Suit
- g) Sending Hot Man near to the Live Conductor using Epoxy glass Ladder /Hot Line Chair
- h) Practice of Hot Man for touching & come back on live conductor
- i) Taking of load of Suspension String /Tension String /V String using Epoxy Glass Hot Stick
- j) Fixing of Static Shunt between tower to the Insulator String if needed
- k) Removal of Complete Insulator String using Epoxy Glass Hot Stick
- l) Bringing Complete Insulator String to Ground
- m) Removal of faulty insulator from Insulator String
- n) Fixing of new insulator (porcelain/glass insulators/polymer Insulators) in Insulator String
- o) Taking Complete Insulator String to its original location
- p) Fixing/Replacement of whole suspension string
- q) Taking Hot man back from Live conductor
- r) Removing the Tools and Tackles from the tower and sending to the Ground

Session-5

Evaluation of participants on the basis of following

- Their practical performance during training
- Adoption of safety practices during Insulator replacement and other activities
- Interest level during training program



सत्यमेव जयते

भारत सरकार

GOVERNMENT OF INDIA

विद्युत मंत्रालय

MINISTRY OF POWER

केन्द्रीय विद्युत प्राधिकरण

CENTRAL ELECTRICITY AUTHORITY

मानव संसाधन विकास प्रभाग

HUMAN RESOURCE DEVELOPMENT DIVISION

इंजीनियरों, पर्यवेक्षकों और तकनीशियनों के लिए प्रशिक्षण पाठ्यक्रम के विवरण सहित
बिजली वितरण के क्षेत्र में प्रशिक्षण संस्थानों की मान्यता के लिए मार्गदर्शी सिद्धांत

**Guidelines for Recognition of Training Institutes in the field of
Distribution of Electricity including details of Training Curriculum for
Engineers, Supervisors and Technicians**

January 2024

(3) Additional Courses – As per requirement of organization -

- (i) Electrical vehicles- charging infrastructure
- (ii) Underground distribution transformer /Substations
- (iii) Installation of RMUs /FRTUs/other IT solution like ERP,

Refresher Course-: Requirement basis/Need basis (Recommended by the immediate superior/ Employee itself).

18. CURRICULUM FOR TECHNICIANS FOR ASSISTING SUPERVISORS IN THE OPERATION AND MAINTENANCE OF DISTRIBUTION SYSTEM(33 KV and below)

Induction Course (mandatory)

A. Class room

1.0 Common Courses

- (i) Safety Management
 - Overview of Safety Management
 - Causes and factors of accident
 - Statutory requirement
 - Firefighting equipment and Fire prevention
- (ii) First Aid including resuscitation (artificial respiration)
- (iii) Values and Work culture
- (iv) Relevant regulations and relevant sections of Electricity Act (EA), CEA (Measures Relating to Safety & Electric Supply) Regulations, 2023 and amendments).
- (v) Necessary permissions/Clearances
- (vi) IT Applications and Cyber Security Awareness/overview
- (vii) Disaster management
- (viii) Electrical Vehicle-Charging - introduction
- (ix) Batteries Storage
- (x) Renewable overview
- (xi) **Other Government of India Initiative: MISSION LIFE-** brief presentation and video shows

2.0 Basic Course:

A. Sub-transmission and Distribution Lines:

- (i) Survey for lines at voltage – at all voltages
- (ii) Line Conductors – types, Classification, Conductor stringing, jointing/ binding, sagging & tensioning, clipping & jumpering
- (iii) Earthing arrangements
- (iv) Cable – types, cable trenches, cable routing and laying, cable jointing and junction box
- (v) Earth wire/ neutral wire, guarding, etc.
- (vi) Fixing of control devices, viz. Gang Operating Switches, fuses, isolators and earthing switches, lightning arrestors, and distribution box, etc.
- (vii) Installation of service lines. / meters/smart meters/net meter

- (viii) Street Lighting – design and layout methods.
- (ix) Line/ cable maintenance including hot line maintenance – line patrolling, inspection, periodicity, work permit, line clear and authorization, erection of temporary earth and restoration of supply, maintenance T&P and safety devices, thermo vision scanning, hot spots, etc.

B. Electric Sub-Stations:

- (i) Type, layout
- (ii) Bus bar arrangement, sub-station equipment, viz. transformers, circuit breakers, etc.
- (iii) Auxiliary systems, viz. DG set, battery system and firefighting system, etc.
- (iv) Control panel, meters, indicators and recorders and relays, etc.
- (v) Erection, testing and commissioning of equipment's/systems
- (vi) Earthing of sub-stations equipment's and soil testing
- (vii) Transformer oil and its testing
- (viii) Operation and maintenance of all equipment's, protective relays and auxiliaries.
- (ix) HVDS

C. Metering

- (i) Type of metering, viz. DT metering, feeder metering and Consumer metering.
- (ii) Meter types, their settings and operation, testing and sealing.
- (iii) Smart metering working

D. Working with Technician/Practical's

- (i) Use of Instruments-
 - Megger , tong tester, multimeters, earth tester
 - Transformer Oil testing and oil filtration
 - Measurement of earth resistance
 - Measurement of Load of transformer on L.T. Side
 - Testing of Circuit Breaker
 - Testing of CT PT
 - Installation of energy meters
 - IR Value of Power / Distribution Transformer
 - USE OF SAFETY APPLIANCES – Discharge rod, DO Fuse rod , safety belt ,
 - Conductor winding on Insulator
 - M.R.I. of energy meter
 - Measurement of cell voltage and specific gravity of Battery set
 - Crimping of lugs on conductors
 - Jointing of ACSR/AAC Conductors
 - L.T. Cable jointing

E. Releasing of New Connection

- (i) Type of connections, selection of 1-Ph or 3 Ph supply as per load,
- (ii) Checking of Wirings and Earthing, Neutral Looping etc in Independent and Multi storied Residential and commercial premises.
- (iii) Installation of meters including smart meter (1-Ph /3 Ph –prepaid),
- (iv) Importance and installations of ELCB/RCCB , Mandatory provisions of Regulations

B. On Job Training for Line Technicians

1.0 O&M Division / Distribution Center

- (i) To conduct readings of different types of energy meters
- (ii) Installation of different types of L.T. energy meters at consumers premises at all voltage levels
- (iii) Laying of service cable from L.T. Pole to consumer meter
- (iv) Pre /post monsoon maintenance of lines
- (v) Revenue collection and disconnection
- (vi) Installation of Distribution transformer
- (vii) Replacement of conductor
- (viii) Distribution transformer maintenance
- (ix) Replacement of failed Distribution transformer
- (x) Works under line breakdown: procedure to take permit and line patrolling
- (xi) Attend consumer complains

2.0 Sub-Transmission maintenance Division

- (i) Taking readings through MRI , Load Survey and downloading in computer
- (ii) Study of MRI Reports , checking for tempering of meters
- (iii) Use of instruments for energy audit
- (iv) maintenance schedule of power transformer
- (v) Testing of power transformer
- (vi) Testing of CT/PT and combined units
- (vii) Testing of Meters at all voltage levels
- (viii) Relay connection and setting
- (ix) Control Panel wiring
- (x) Operating oil filtration plant
- (xi) Transformer oil testing

3.0 Additional Courses – As per requirement of organization -

- (i) Electrical vehicles- charging Details
- (ii) Underground distribution transformer
- (iii) Installation of RMUs /FRTUs/other IT solution like ERP
- (iv) Energy Efficiency initiatives

Refresher Course:- Requirement basis/Need basis (Recommended by the immediate superior/
Employee itself).