



TP WESTERN ODISHA DISTRIBUTION LIMITED
(A Tata Power & Odisha Govt. joint venture)
Procedure for Participating in Tender

Tender Enquiry No.	Work Description	EMD (Rs.)	Tender Participation Fee	Last date and time for Payment of Tender Participation Fee
TPWODL/SD/O/SER/04	Rate Contract for General Civil Works at TPWODL.	5,00,000	Rs. 5,000	3 rd May 2024 15:00 Hrs

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

Procedure for Participating in Tender. Following steps to be done before “Last date and time for Payment of Tender Participation Fee” as mentioned above.

1. Eligible and Interested Bidders to submit duly signed and stamped letter on Bidder's letterhead indicating:
 - a. Tender Enquiry number
 - b. Name of authorized person
 - c. Contact number
 - d. e-mail id
 - e. Details of submission of Tender Participation Fee
 - f. GST
2. Non-Refundable Tender Participation Fee, as indicated in table above, to be submitted in the form of Direct deposit in the following bank account and submit the receipt along with a covering letter clearly indicating the Tender Reference number –

Account Name: TPWODL
Bank Name: UNION BANK OF INDIA, SAMABALPUR NAYA PARA
Branch Code: 536521
Bank Account No. : 365201010033244
IFSC Code: UBIN0536521

E-mail with necessary attachment of 1 and 2 above to be send to srikant.dash@tpwesternodisha.com with copy to lekhashree.sahu@tpwesternodisha.com, sambit.sahoo@tpwesternodisha.com and rahul.kumar@tpwesternodisha.com before “Last date and time for Payment of Tender Participation Fee”

Norms for procurement from MSMEs registered in the state of Odisha: -

1) Tender Fees

To participate in the tender, MSMEs registered in the State of Odisha shall pay Rs.1,000/- including GST towards cost of tender paper.

2) Earnest Money Deposit (EMD)

EMD shall be exempted for MSME registered in the State of Odisha. However, Bidder shall be barred to participate in the tendering process for a period of 2 years in case it backs out post award of the contract.



3) Qualification Requirement for Open Tenders

Qualification Requirement of Financial Turnover for MSME registered in the State of Odisha shall be reduced to 20% of the existing criteria.

4) Performance Bank Guarantees

Performance Bank Guarantee for MSME registered in the State of Odisha shall be 25% of the value prescribed.

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.

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

No e-mail or verbal correspondence will be responded. All communication will be done strictly with the bidder who have done the above steps (Payment of tender fee and submission of letter with requisite details) to participate in the Tender.

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

Any payment of Tender Participation Fee by Bidder who have not done the pre-requisite within stipulated timeline will not be refunded.



Tender Documents

CONFIDENTIAL

OPEN TENDER NOTIFICATION

FOR

**RATE CONTRACT FOR GENERAL CIVIL WORKS AT TP WESTERN
ODISHA DISTRIBUTION LIMITED**

Tender Enquiry No.: TPWODL/SD/O/SER/04

Due Date for Bid Submission: 14.05.2024 [15:00 Hrs.]

TP WESTERN ODISHA DISTRIBUTION LIMITED
(A TPWODL and Odisha Government Joint Venture)
Procurement & Stores Department

Corporate office: Burla-768017

TP WESTERN ODISHA DISTRIBUTION LIMITED
(A Tata Power and Odisha Government Joint Venture)
Regd./Corp Office : Burla, Dist-Sambalpur, Odisha -768 017
Website : www.tpwesternodisha.com, Email : tpwodl@tpwesternodisha.com
Corporate Identification Number (CIN) : U40109OR2020PLC035230, Telephone No. 0663-2431984, Fax No : 0663-2432113

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1.0 Event Information

1.1 Scope of work

Open Tenders are invited in through e-tender bidding process from interested and eligible Bidders for entering a Rate Contract valid for a period of **1 Year** as defined below:

Line-Item no.	Description	EMD Amount (Rs.)	Tender Fee (Rs.)
1	Rate Contract for General Civil Works at TPWODL.	5,00,000/-	5,000/-

1.2 Availability of Tender Documents

Non-transferable tender documents may be purchased by interested eligible bidders from address given below on submission of written application to the under mentioned and upon payment of non-refundable Tender fee. **Chief (Procurement & Stores)**

TP WESTERN ODISHA DISTRIBUTION LIMITED

Corporate Office, Burla-768017

Tender documents may be downloaded by interested eligible bidders from TP Western Odisha Distribution Ltd. website www.tpwesternodisha.com In the event detailed tender documents are downloaded from TP Western Odisha Distribution Ltd. website or are received through email from TP Western Odisha Distribution Ltd., the Tender Fee shall be compulsorily submitted either online through NEFT/ RTGS or demand draft/ Banker's cheque drawn in favor of "TP Western Odisha Distribution Ltd.", payable at BURLA only. Any such bid submitted without this Fee shall be rejected. Bidders are requested to visit TP Western Odisha Distribution Ltd. website www.tpwesternodisha.com regularly for any modification/ clarification to the bid documents.

To participate in the tender, MSMEs registered in the State of Odisha and other states shall pay Rs.1,000/- including GST towards cost of tender paper. Other terms and conditions will be the same for that.

1.3 Calendar of Events

(a)	Date of sale/ availability of tender documents from TPWODL Website	From 24 th April 2024 onwards
(b)	Date by which interested and eligible vendors to pay tender fee and confirm participation in accordance with "Procedure for participating in tender"	3 rd May 2024, 1500, Hrs.
(c)	Date & Time of Pre-Bid Meeting (If any)	If required, will be communicated later
(d)	Last Date of receipt of pre-bid queries, if any	5 th May 2024 up to 15:00 Hours
(e)	Last Date of Posting Consolidated replies to all the pre-bid queries as received	7 th May 2024 up to 15:00 Hours
(f)	Last date and time of receipt of Bids	14 th May 2024 up to 15:00 Hours
(g)	Date & Time of opening technical bids & EMD (Envelope-1 & 2)	Participating Bidders will get mail intimation from TPWODL, Burla E Tender system (Ariba) when their Techno-commercial Bids are opened.

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(h)	Date & Time of opening for Price of qualified bids	Bidders will get mail intimation from TPWODL, Burla E-Tender system (Ariba) when the Price Bids of Techno commercially qualified bidders are opened.
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Note: - In the event of extension of last date of submission of bids, same shall be intimated to the participating bidders through e-tender system.

1.4 Mandatory documents required along with the Bid

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

Please note that in absence of any of the above documents, the bid submitted by a bidder shall be liable for rejection.

1.5 Deviation from Tender

Normally, the deviations to tender terms are not admissible and the bids with deviation are liable for rejection. Hence, the bidders are advised to refrain from taking any deviations on this Tender. Still in case of any deviations, all such deviations shall be set out by the Bidders, clause by clause in the 'Annexure III - Schedule of Deviations' and same shall be submitted as a part of the Technical Bid.

1.6 Right of Acceptance/ Rejection

Bids are liable for rejection in absence of following documents: -

- 1.6.1 EMD of requisite value and validity
- 1.6.2 Tender fee of requisite value
- 1.6.3 Price Bid as per the Price Schedule mentioned in Annexure-I
- 1.6.4 Necessary documents against compliance to Qualification Requirements mentioned at Clause 1.7 of this Tender Document.
- 1.6.5 Filled in Schedule of Deviations as per Annexure III
- 1.6.6 Filled in Schedule of Commercial Specifications as per Annexure IV
- 1.6.7 Receipt of Bid within the due date and time

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

1.7 Qualification Criteria

- 1.7.1 The bidder should have experience of carrying out similar nature of civil work like (civil foundation, PCC, RCC works, brick work, plastering, tiling works, structural steel works, excavation works, etc.) and the cumulative value of works executed during last 3 years should be equal to or greater than Rs. 2 crores. PO copies with completion certificate should be attached in this regard.

1.7.2 The bidder should have an average annual turnover of **Rs. 2 crores** during last 3 years (FY 20-21 and FY 21-22 and FY 22-23). Copy of audited P&L Account, Balance Sheet and UDIN NO to be submitted in this regard.

1.7.3 Special terms and conditions for **MSME registered in the State of Odisha are as below: -**

- Qualification Requirement of Financial Turnover for MSME registered in the State of Odisha shall be reduced to 20% of the existing criteria.
- MSMEs registered in the State of Odisha shall pay Rs.1,000/- including GST towards cost of tender paper.
- EMD shall be exempted for MSME registered in the State of Odisha. However, Bidder shall be barred to participate in the tendering process for a period of 2 years in case it backs out post award of the contract.

1.8 Marketing Integrity

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

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

1.9 Supplier Confidentiality

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

2.0 Evaluation Criteria

- The bids will be evaluated technically on the compliance to tender terms and conditions.
- The bids will be evaluated commercially on **lowest cost** as calculated in Schedule of Items [Annexure I]. TPWODL reserves the right to split the contract / order among more than one Bidder. Hence all bidders are advised to quote their most competitive rates against each line item.
- The bids will be evaluated on Safety Parameters. Bidders have to submit all the documents related to safety bid.
- TPWODL may prefers to split the overall contract. The decision on allocation of Circle/Division or shall be taken based on the best cost optimized option available with TPWODL. The decision of TPWODL in this regard shall be final and binding on the successful bidders.
- **Bidder has to mandatorily quote against each item as mentioned in schedule of Items [Annexure I - Price Bid]. Failing to do so, TPWODL may reject the bids.**

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2.1 Price Variation Clause: The prices for all items shall remain **firm** during the first 6 months of award of contract.

PV clause for steel items (reinforcement steel, structural steel and MS gate) shall be applicable after 6 months of award of contract. For all other items, Price remains firm for the entire duration of contract. For steel items, below mentioned Price Variation formula shall be applicable:

a. For reinforcement Steel:

Considering 30% is fixed price and 70% is variable.

price, $PV = 0.7 * (S1-S0)/S0 * 100$

Where, Base month to be considered as Feb 2023

PV - % price variation (it may be +ve or -ve)

S0 - Wholesale Price Index for Mild Steel – Long Products Commodity for base month

S1 - Wholesale Price Index for Mild Steel – Long Products for the month under consideration.

b. For structural steel, MS Gate:

Considering 40% is fixed price and 60% is variable price

$PV = 0.6 * (S1-S0)/S0 * 100$ Where, Base month to be considered as Feb 2023

PE - % price variation (it may be +ve or -ve)

S0 - Wholesale Price Index for Angles, Channels, Sections, steel (coated/not) Commodity for base month.

S1 - Wholesale Price Index for Angles, Channels, Sections, steel (coated/not) Commodity for the month under consideration.

3.0 Submission of Bid Documents

3.1 Bid Submission

Bidders are requested to submit their offer in line with this Tender document.

All correspondence regarding the tender, bid submission, bid submission date extension, Pre-bid query etc. will happen only through TPWODL E-Tender system (Ariba).

No e-mail or verbal correspondence will be responded. All communication will be done strictly with the bidders who have participated in the Tender as elaborated in procedure for participating in tender.

Bids shall be submitted in 3 (Three) parts:

FIRST PART: “EMD” as applicable shall be submitted by the bidder in the form of cash deposit in the account below. In case the EMD is not submitted by the bidder then the bid as submitted shall be liable for rejection.

EMD shall be strictly in the format of BG / Online Transfer only. The bidder should submit a covering letter mentioning the Online Transaction Number, Tender Number, Name of Tender for the same.

TPWODL Bank Details for transferring Tender Fee is as below:

Beneficiary Name: TPWODL Expenditure Account
Bank Name: Union Bank of India
Branch Name: Sambalpur Naya Para
Address: At/Po: Sambalpur, Dt: Sambalpur, Odisha-768 001
Branch Code: 536521
Account No.: 365201010033244
Account Type: Current
IFSC Code: UBIN0536521

TPWODL Bank Details for EMD is as below:

EARNEST MONEY DEPOSIT (EMD):
Beneficiary Name: TPWESTERNODISHA DISTRIBUTION LTD.
Bank Name: UNION BANK OF INDIA
Branch Name: Burla (Andhra Bank)
Address: AT/PO: Burla
District: SAMBALPUR, ODISHA
PIN: 768 017
Account No.: 005511100001556
Type of Account: CURRENT CUM FLEXI ACCOUNT
IFSC Code: UBIN0800554

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

- a) Documentary evidence in support of qualifying criteria
- b) Qualified manpower
- c) List of Tools & Tackles
- d) Work completion certificates for civil / fabrication works
- e) Undertaking on Vendors letter head for meeting the Pre-Qualification Criteria
- f) No Deviation Certificate as per the Annexure III – Schedule of Deviations
- g) Acceptance to Commercial Terms and Conditions viz Delivery schedule/period, payment terms etc. as per the Annexure IV – Schedule of Commercial Specifications.
- h) Bidder shall mention the details as required in the safety bid form. Bidder also has to submit the relevant documents for the same as required by TPWODL

The technical bid shall be properly indexed and is to be submitted in TP Western Odisha Distribution Ltd. e-procurement portal.

THIRD PART: "PRICE BID" shall contain only the price details and strictly in format as mentioned in Annexure I along with explicit break up of basic prices, Taxes & duties, Freight etc. In case any discrepancy is observed between the item description stated in Schedule of Items mentioned in the

tender and the price bid submitted by the bidder, the item description as mentioned in the tender document (to the extent modified through Corrigendum issued if any) shall prevail.

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

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

SIGNING OF BID DOCUMENTS:

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

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

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

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

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

3.2 Contact Information

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

No e-mail or verbal correspondence will be responded. All communication will be done strictly with the bidders who have participated in the Tender as elaborated in procedure for participating in tender.

Communication Details:

Package Owner: Srikant Dash

Contact No: 9204750234

Email ID: srikant.dash@tpwesternodisha.com

Copy to:

Head Procurement

Mr. Sambit Ku. Sahoo

Contact No: 9250008873

Email ID: Sambit.Sahoo@tpwesternodisha.com

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Chief Contract & Stores**Name: Mr. Rahul Kumar****E-Mail ID: rahul.kumar@tpwesternodisha.com**

Bidders are strictly advised to communicate with Package Owner through TPWODL E-tender System (Ariba) only. They need to pay Tender Participation Fee and receive the Ariba log-in. Above contact details are for reference purpose only.

3.3 Bid Prices

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

The quantity breakup shown else-where other than Price Schedule is tentative. The bidder shall ascertain himself regarding material required for completeness of the entire work. Any items not indicated in the price schedule, but which are required to complete the job as per the Technical Specifications / Scope of Work mentioned in the tender, shall be deemed to be included in prices quoted.

3.4 Bid Currencies

Prices shall be quoted in Indian Rupees Only.

3.5 Period of Validity of Bids

Bids shall remain valid for 180 days from the due date of submission of the bid.

Notwithstanding clause above, the TPWODL may solicit the Bidder's consent to an extension of the Period of Bid Validity. The request and responses thereto shall be made in writing.

3.6 Alternative Bids

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

3.7 Modifications and Withdrawal of Bids

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

3.8 Earnest Money Deposit (EMD)

The bidder shall furnish, as part of its bid, an EMD amounting as specified in the tender. The EMD is required to protect the TPWODL against the risk of bidder's conduct which would warrant forfeiture.

The EMD shall be forfeited in case of:

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

Or

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- b) The case of a successful bidder if the Bidder does not
- i) accept the purchase order, or
- ii) furnish the required performance security BG.

3.9 Type Tests (if applicable)

The type tests specified in TPWODL specifications should have been carried out within five years prior to the date of opening of technical bids and test reports are to be submitted along with the bids. If type tests carried out are not within the five years prior to the date of bidding, the bidder will arrange to carry out type tests specified, at his cost. The decision to accept/ reject such bids rests with TPWODL.

4.0 Bid Opening & Evaluation Process

4.1 Process to be confidential:

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

4.2 Technical Bid Opening The bids shall be opened internally by TPWODL. First the envelope marked "EMD" will be opened. Bids without EMD/ cost of tender (if applicable) of required amount/ validity in prescribed format, shall be rejected.

Next, technical bids of bidders who have submitted EMD shall be opened. Participating Bidders will get mail intimation from TPWODL E-Tender system (Ariba) when their Technical Bids are opened.

4.3 Preliminary Examination of Bids/ Responsiveness

TPWODL 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. TPWODL may ask for submission of original documents in order to verify the documents submitted in support of qualification criteria.

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

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

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

4.4 Techno Commercial Clarifications

Bidders need to ensure that the bids submitted by them are complete in all respects. To assist in the examination, evaluation, and comparison of Bids, TPWODL may, at its discretion, ask the Bidder for a clarification on its Bid for any deviations with respect to the TPWODL specifications and attempt will

be made to bring all bids on a common footing. All responses to requests for clarification shall be in writing and no change in the price or substance of the Bid shall be sought, offered or permitted owing to any clarifications sought by TPWODL.

4.5 Price Bid Opening

Price Bid of only Technically and / or Safety Qualified Bidders shall be considered and open internally by TPWODL. Bidders will get mail intimation from TPWODL E-Tender system (Ariba) when their Price Bids are opened. The EMD of the bidder withdrawing or substantially altering his offer at any stage after the technical bid opening will be forfeited at the sole discretion of TPWODL without any further correspondence in this regard.

4.6 Reverse Auctions

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

Reverse Auction shall be as per the below approach:

No of bidders to be allowed in RA process shall be: Total No of bidders on whom tender would be split PLUS 2 more bidders.

Illustrative example: Total no of qualified bidders is 10 & tender needs to split amongst 4 bidders. PLUS 2 means (04 + 02 = 06) means lowest 6 bidders i.e., L1 to L6 bidders would be allowed in the RA process. Balance, H1 to H4 bidders would not be allowed in the RA process.
In case – Total no of qualified bidders is equal to or less than the PLUS 2 number, all qualified bidders shall be allowed in the RA process.

Illustrative example: Total no of qualified bidders is 4 & tender needs to split amongst 2 bidders. PLUS 2 means (02 + 02 = 04), so all 4 qualified bidders would be allowed in the RA process.

Illustrative example: Total no of qualified bidders is 3 & tender would be awarded to single party only. PLUS 2 means (01 + 02 = 03), so all 3 qualified bidders would be allowed in the RA process.

5.0 Award Decision

TPWODL will award the contract to the successful bidder whose bid has been determined to be the lowest-evaluated responsive bid as per the Evaluation Criterion mentioned at Clause 2.0. The Cost for the said calculation shall be taken as the all-inclusive cost quoted by bidder in Annexure I (Schedule of Items) subject to any corrections required in line with Clause 4.3 above. In case any supplier is found unsatisfactory during the delivery process, the award will be cancelled and TPWODL reserves the right to award other suppliers who are found fit. TPWODL reserves the right to split the order between one or more bidders.

6.0 Order of Preference/Contradiction:

In case of contradiction in any part of various documents in tender, following shall prevail in order of preference:

1. Schedule of Items (Annexure I)

2. Post Award Contract Administration (Clause 7.0)
3. Submission of Bid Documents (Clause 3.0)
4. Scope of Work and SLA (if any)
5. Technical Specifications/Make List/FQP (Annexure II)
6. Inspection Test Plan (if any)
7. Acceptance Form for Participation in Reverse Auction (Annexure VI)
8. General Conditions of Contract (Annexure VII)

7.0 Post Award Contract Administration

7.1 Other Terms & Conditions

- After finalization of tender, Rate Contract shall be issued on successful bidder with a validity period of **One Year**. Within the validity of rate contract, release order shall be issued from time to time as per actual requirement of TPWODL.
- Business Associate (BA) shall submit applicable Contract Performance Bank Guarantee as per Terms & Conditions / GCC within 15 days of issuance of rate contract. CPBG applicable shall 5% of Rate Contract Value. CPBG submitted, shall be released after completion of applicable guarantee period plus one month. **Performance Bank Guarantee for MSME registered in the State of Odisha shall be 25% of the value prescribed.**
- The rate contract shall remain valid for a period of one year from the date of award of work.
- TPWODL shall short close the issued Release Order / Rate contract, in case of any quality issues, front issue, non-mobilization from vendor for taking up the works / not completing works in time.
- Any change in statutory taxes, duties and levies shall be borne by TPWODL.
- All other terms and conditions of TPWODL Terms & Conditions shall be applicable.

7.2 Delivery Terms

Rate contracts will remain valid for a period of one year from the date of award of work. However, delivery period for specific work shall be mentioned in Firm Work Order / Release order for different works as per mutually agreed schedule.

7.3 Warranty Period / Defect Liability Period:

The contractor is responsible for defects in the Works for a period of 12 (Twelve) months from the date of Issuance of the Completion certificate issued by the Owner/Project Manager to the Contractor for the particular work.

7.4 Payment Terms:

- i) The monthly running bill shall be paid based on actual completion of work at site duly certified by Engineer in charge.
- ii) Retention: 5% of the net value of each Running account (RA) Bill shall be retained as retention money. This retention money shall be released after satisfactory completion of the defect liability period.
- iii) Income tax and any other statutory recoveries as applicable shall be recovered from Contractor monthly running bills and TDS certificate for the deductions shall be furnished.

- iv) All payments shall be made by the Owner to the Contractor within 30 days from the date of receipt of Contractor's error free invoice along with all the back-up documents complete in all respects.
- v) All payments are subject to signing of Contract Agreement and submission of an unconditional EMD cum Contract Performance bank guarantee.

7.5 LIQUIDATED DAMAGE:

In the event that the works are delayed beyond the interim milestone completion date / contractual completion date, Liquidated damage to the extent of 1% of the contract value per week of delay or part thereof shall be levied, subject to a maximum of 10 % of the total contract value.

7.6 Climate Change

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

8.0 Ethics

- TPWODL is an ethical organization and as a policy TPWODL lays emphasis on ethical practices across its entire domain. Bidder should ensure that they should abide by all the ethical norms and in no form either directly or indirectly be involved in unethical practice.
- TPWODL work practices are governed by the Tata Code of Conduct which emphasizes on the following:
 - We shall select our suppliers and service providers fairly and transparently.
 - We seek to work with suppliers and service providers who can demonstrate that they share similar values. We expect them to adopt ethical standards comparable to our own.
 - Our suppliers and service providers shall represent our company only with duly authorized written permission from our company. They are expected to abide by the Code in their interactions with, and on behalf of us, including respecting the confidentiality of information shared with them.
 - We shall ensure that any gifts or hospitality received from, or given to, our suppliers or service providers comply with our company's gifts and hospitality policy.
 - We respect our obligations on the use of third-party intellectual property and data.

The bidder is advised to refer the GCC attached at Annexure IX for more information.

Any ethical concerns with respect to this tender can be reported to the following email ID: sunilk.sharma@tpwesternodisha.com.

9.0 General Condition of Contract

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

10.0 Safety

Safety related requirements as mentioned in our safety Manual put in the Company's website which can be accessed by: <http://www.tpwesternodisha.com>

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

ANNEXURE I
Schedule for Items

Sl. No.	Item Description	QTY	UoM	Rate in Rs.	Amount in Rs.
1	Clearing jungle including uprooting of rank vegetation, grass, brush wood, trees and saplings of girth up to 30 cm measured at a height of 1m above ground level including removal of rubbish to the designated place by Local Statutory Body as per direction of Engineer-in-charge.	16040.00	M2		
2	Demolishing plain cement concrete manually/ by mechanical means including disposal of material to the designated place by Local Statutory Body as per direction of Engineer-in-charge, at all heights, as per direction of Engineer - in - charge.	190.00	M3		
3	Demolishing R.C.C. work manually/ by mechanical means including stacking of steel bars and disposal of unserviceable material to the designated place by Local Statutory Body as per direction of Engineer-in-charge.	76.00	M3		
4	Dismantling of all type of floor and dado tiles including bedding, all complete at all locations including disposal of debris outside of building to the designated place by Local Statutory Body as per direction of Engineer-in-charge., rate shall be inclusive of man, material, scaffolding, disposal of debris to designated place complete	360.00	M2		
5	Demolishing brick work including plaster manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material to the designated place by Local Statutory Body as per direction of Engineer-in-charge.	250.00	M3		
6	Demolishing / removing Plaster of various thickness and transporting debris to the designated place by Local Statutory Body as per direction of Engineer-in-charge. including providing scaffolding, ladders, tools, tackles and pneumatic equipment as directed	6930.00	M2		
7	Carefully Dismantling of Sanitary Items such as but no limited to WC Pan, Urinal, Washbasins all complete including stacking of serviceable materials up to a lead of 50m at scrap yard and disposal of unserviceable material to the designated place by Local Statutory Body as per direction of Engineer-in-charge.	35.00	EA		

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8	Demolishing Rubble Soling / Pitching up to 300 mm thickness and transporting debris within companies' premises or as directed including providing tools, tackles and pneumatic equipment as directed	35.00	M3		
9	Carefully Dismantling of Aluminium partition all complete including stacking of serviceable materials up to a lead of 50m at scrap yard and disposal of unserviceable material to the designated place by Local Statutory Body as per direction of Engineer-in-charge.	70.00	M2		
10	Dismantling and neatly stacking structural steel work of roof trusses, purlins, beams, columns, chequered plate floorings, treads, risers, stringers, bracings, runners, fencing posts etc. at all heights including providing all accessories complete as directed. Contractor shall use his own welding set, gas cutting set, gas, electrodes, drill machine and other accessories, required for carrying out the entire work. The rate shall include returning the dismantled members to owner's stores at division etc. complete as directed.	70.00	TON		
11	Dismantling barbed / RBT wire or flexible wire rope in fencing including stacking of serviceable material and disposal of unserviceable material to the designated place by Local Statutory Body as per direction of Engineer-in-charge.	1385.00	M		
12	Dismantling Concertina Coil including stacking of serviceable material and disposal of unserviceable material to the designated place by Local Statutory Body as per direction of Engineer-in-charge.	1040.00	M		
13	Dismantling and removal of chain-link fencing including returning the dismantled members to owner's stores at division etc. complete as directed. including scaffolding as per safety standards etc. complete as directed. (Rate shall inclusive of providing necessary tools tackles, cutting set, welding set wherever required) as directed by EIC	275.00	M2		
14	Dismantling and stacking AC or CGI sheets on roofs or partitions excluding removal of wooden or steel framework, angle supports etc. complete. (Rate including stacking of serviceable material within 50 metres lead and disposal of unserviceable material to the designated place by Local Statutory Body as per direction of Engineer-in-charge)	2080.00	M2		
15	Dismantling and stacking including removal of wooden framework (purlin rafters), complete as directed for Roof truss / Cladding frames etc. (Rate including stacking of serviceable material within 50 metres lead and disposal of unserviceable material to the designated	205.00	M2		

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	place by Local Statutory Body as per direction of Engineer-in-charge)				
16	Dismantling and stacking including removal of Old false ceiling etc. complete as directed by engineer in charge	205.00	M2		
17	Dismantling and stacking including removal of wooden or steel framework, angle supports etc. complete as directed for Doors / Windows / Ventilators.	693.00	M2		
18	Removing / dismantling old, corroded GI pipe line size 12mm to 50mm dia. Work includes transportation to company store etc.	70.00	M		
19	Dismantling of Rolling Shutter & stacking the same within 50M lead as per direction of EIC.	70.00	M2		
20	Levelling and Dressing in switchyard properly with concrete compactor/Hand roller after prior approval from HEAD/HOD/HOG	693.00	M2		
21	Making chases up to 50 mm x 50mm in walls including making good and finishing with matching surface after housing Pipe / conduits etc. at all levels over Brick Masonry, RCC, PCC.	70.00	M		
22	Making pockets in Brick Masonry / PCC / RCC at all levels on the vertical and horizontal faces with necessary staging as required to fix anchor bolts / inserts (inserts / anchor bolts to be measured in relevant BOQ item) and Grouting the pockets with 1:1 cement mortar after placing the bolts / inserts and finishing the surface either smooth or sand faced as required up to 200 mm square & depth up to 300mm	140.00	EA		
23	Making Cut-out of required size 450x450 mm in walls for exhaust fan/Cable entry/exit/crossing inside the room including making good the same with necessary brick masonry in CM 1:5 and plaster in CM 1:4 as directed by EIC.	140.00	EA		
24	Earth work in excavation in all kinds of soil by mechanical means (Hydraulic excavator) / manual means including removing vegetation, dressing of sides and ramming of bottoms including dewatering (both for sub-soil water& rain water) wherever required by means of suitable capacity of pump & pipe lines during excavation, concreting & also keeping the earth dry till the construction is over including Backfilling with available earth etc. complete and disposal of surplus excavated Earth to the designated place by Local Statutory Body as per direction of Engineer-in-charge and lift up to 1.5m, disposed Earth to be levelled and neatly dressed. Disposal lead up to 100 metre.	16940.00	M3		

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25	Earth work in excavation in all kinds of soil by mechanical means (Hydraulic excavator) / manual means including removing vegetation, dressing of sides and ramming of bottoms including dewatering (both for sub-soil water & rain water) wherever required by means of suitable capacity of pump & pipe lines during excavation, concreting & also keeping the earth dry till the construction is over including backfilling with available earth etc. complete and disposal of excavated Earth to the designated place by Local Statutory Body as per direction of Engineer-in-charge and lift From 1.51m to 3.0M, disposed Earth to be levelled and neatly dressed. Disposal lead up to 100 metres.	365.00	M3		
26	Excavation in all types of hard rock with mechanical equipment rock breaker including all necessary permissions, depositing / stacking of all materials, removal of vegetation, backfilling with excavated earth in layers, well-watered, compacted, transporting of surplus excavated material for backfilling or stacking or spreading or removal of surplus excavated earth to the designated place by Local Statutory Body as per direction of Engineer-in-charge for all depths	290.00	M3		
27	Providing close timber shoring consisting of 25 mm thk. walling and struts of size 100x100 mm or any other suitable alternative to sides of excavation / trenches / pits etc. wherever necessary and as directed for depth from 0 to 1.50 Mtrs	70.00	M2		
28	Providing close timber shoring consisting of 25 mm thk. walling and struts of size 100x100 mm or any other suitable alternative to sides of excavation / trenches / pits etc. wherever necessary and as directed for depth from 1.51 to 3.00 Mtrs	35.00	M2		
29	Excavating trenches of required width for pipes, cables, etc. including excavation for sockets, and dressing of sides, ramming of bottoms, depth upto 1.5 m, including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20 cm in depth, including consolidating each deposited layer by ramming, watering, etc. and disposing of surplus excavated soil to the designated place by Local Statutory Body as per direction of Engineer-in-charge: Pipes, cables etc. exceeding 80 mm dia. but not exceeding 300 mm dia	485.00	M		

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30	Excavating trenches of required width for pipes, cables, etc. including excavation for sockets, and dressing of sides, ramming of bottoms, depth upto 1.5 m, including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20 cm in depth, including consolidating each deposited layer by ramming, watering, etc. and disposing of surplus excavated soil to the designated place by Local Statutory Body as per direction of Engineer-in-charge: Pipes, cables etc. exceeding 300 mm dia but not exceeding 600 mm	555.00	M		
31	Hiring Excavator (JCB or equivalent) with operator & helper including fuel, consumables and carrying out the work as directed by EIC. The rates quoted shall include necessary mobilisation and demobilisation. Actual working hours shall be recorded and considered for payment. Unit of Measure Day means 8 hrs. working	110.00	D		
32	Hiring Excavator (JCB or equivalent) with operator & helper including fuel, consumables and carrying out the work as directed by EIC. The rates quoted shall include necessary mobilisation and demobilisation. Actual working hours shall be recorded and considered for payment.	100.00	H		
33	Hiring Excavator (EX-200 or equivalent) with operator & helper including fuel, consumables and carrying out the work as directed by EIC. The rates quoted shall include necessary mobilisation and demobilisation. Actual working hours shall be recorded and considered for payment. Unit of Measure Day means 8 hrs. working	35.00	D		
34	Hiring crane (Hydra or equivalent) with operator & helper including fuel, consumables and carrying out the work as directed by EIC. The rates quoted shall include necessary mobilisation and demobilisation. Actual working hours shall be recorded and considered for payment. Unit of Measure Day means 8 hrs. working	15.00	D		
35	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 100 m at all depths.	693.00	M3		
36	Supplying and filling river sand (suitable for construction) at all depth, including watering, ramming, consolidating and dressing all complete as directed by the Engineer-in-charge. Cost inclusive of conveyance, taxes of all material & labour etc.	345.00	M3		

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37	Backfilling with Crusher Dust procured externally including compaction of backfill by watering and tamping with approved hand or mechanical tampers. (mode of measurement will be Pre & Post work levels. Voids to be deducted at 20% if on truck measurement))	2770.00	M3		
38	Supplying and filling of murrum/suitable filling material including watering, ramming, tamping with approved hand or mechanical tampers, consolidating and dressing all complete. Filling in trenches, plinths etc. of 225 mm thick layers consolidated to 150mm. Cost inclusive of conveyance, royalty, taxes of all material & labour etc. as directed by the Engineer-in-charge. (mode of measurement will be Pre & Post work levels. Voids to be deducted at 20% if on truck measurement))	693.00	M3		
39	Providing services for Collecting, stacking, screening & resspreading uniformly of metal in switchyard and other areas as directed by the Engineer-in-charge.	345.00	M3		
40	Supplying and applying approved chemical emulsion in sealed containers including delivery, diluting and applying for antiweed treatment in yard as specified by manufacturer. (E). The area shall be maintained for 1 year by the vendor after every operation.	2080.00	M2		
41	Supplying, diluting and injecting chemical emulsion PRE CONSTRUCTIONAL ANTI- termite treatment and creating a continuous chemical barrier under and all around the column pits, wall trenches, basement excavation, top surface of plinth filling, junction of wall and floor, along the external perimeter of building, expansion joints, over the top surface of consolidated earth on which apron is to be laid, surrounding of pipes and conduits etc. complete as per IS codes & specifications (plinth area of the building at ground floor only shall be measured for payment) a) Chlorphyriphos Emulsifiable concentrate 20% with 1% concentration Note : Contractor shall have to furnish from the specified agency carrying out the work under anti-termite treatment a written corporate guarantee on non-judicial stamp paper of Rupees 100 in favour of Owner for the satisfactory performance of the treatment for a period of five years	6235.00	M2		

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42	<p>Supplying, diluting and injecting chemical emulsion POST CONSTRUCTIONAL ANTI-termite treatment creating a continuous chemical barrier i/c all the wood work, door frames, wooden cabinets, almirahs, wall mounted cabinets, work stations, wooden partitions etc. (floor area of the building only shall be measured for payment)</p> <p>a) Chlorphyriphos Emulsifiable concentrate 20% with 1% concentration.</p> <p>Note : Contractor shall have to furnish from the specified agency carrying out the work under anti-termite treatment a written corporate guarantee on non-judicial stamp paper of Rupees 100 in favour of Owner for the satisfactory performance of the treatment for a period of five years</p>	5550.00	M2		
43	Supplying and laying machine crushed 20 mm to 40mm good quality stone aggregates uniformly spread and compacted.	485.00	M3		
44	Supplying and laying machine crushed 65 mm good quality stone aggregates uniformly spread and compacted.	485.00	M3		
45	Providing cartage service and transporting, excavated soil, debris, bricks, concrete, scrap wood including loading and unloading and disposing off to the designated place by Local Statutory Body as per direction of Engineer-in-charge . (Note. Payable measurement shall be dismantled qty. (Voids to be deducted as applicable whenever heap / truck measurements are taken))	345.00	M3		
46	Providing and laying 225 or 300 mm thick dry rubble soling with approved quality stones including filling gaps with small chips ramming with hand rammer etc. complete.	2080.00	M3		
47	Providing and laying 225 or 300 mm thick dry rubble soling with approved quality stones including filling gaps with small chips ramming with hand rammer etc. complete. (Rubble will be supplied by Tata's free of cost / using available rubble at site)	5.00	M3		

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48	Providing and laying 60 mm thick factory made chamfered edge interlocking Cement Concrete paver blocks of M-25 grade with approved color design & pattern in footpath, parks, lawns, drive ways or light traffic parking etc, of required strength, thickness & size/ shape, made by table vibratory method using mould, laid in required colour & pattern over 50mm thick compacted bed of sand, compacting and proper embedding/laying of inter locking paver blocks into the sand bedding layer through vibratory compaction by using plate vibrator, filling the joints with sand and cutting of paver blocks as per required size and pattern, finishing and sweeping extra sand. complete all as per direction of Engineer-in-Charge. The side joints / Open ends should be filled / sealed by M-15 grade concrete as required etc.	2080.00	M2		
49	Providing and laying 80 mm thick factory made chamfered edge interlocking Cement Concrete paver blocks of M-25 grade with approved color design & pattern in footpath, parks, lawns, drive ways or light traffic parking etc, of required strength, thickness & size/ shape, made by table vibratory method using mould, laid in required colour & pattern over 50mm thick compacted bed of sand, compacting and proper embedding/laying of inter locking paver blocks into the sand bedding layer through vibratory compaction by using plate vibrator, filling the joints with sand and cutting of paver blocks as per required size and pattern, finishing and sweeping extra sand. complete all as per direction of Engineer-in-Charge. The side joints / Open ends should be filled / sealed by M-15 grade concrete as required etc.	2775.00	M2		
50	Providing and laying in position cement concrete of grade M-7.5 including the cost of centring and shuttering - All work up to plinth level: 1:4:8 (1 Cement: 4 coarse sands (Zone - III): 8 graded stone aggregate 40 mm nominal size).	7.00	M3		
51	Providing and laying in position cement concrete of grade M-10 including the cost of centring and shuttering - All level: 1:3:6 (1 Cement: 3 coarse sand (Zone - III) : 6 graded stone aggregate 20 mm nominal size).	5390.00	M3		
52	Providing and laying in position cement concrete of grade M-15 including the cost of centring and shuttering - All level: 1:2:4 (1 cement: 2 coarse sands (Zone - III): 4 graded stone aggregate 20 mm nominal size)	555.00	M3		

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53	Providing and placing to correct line and level, in position, machine mixed reinforced cement concrete RCC of grade M20 with required slump for Raft / footings at all levels including vibrating, curing, providing construction joints, leaving cut-outs/ pockets, placing of inserts/ embedment's, dewatering wherever necessary etc., complete all as per drawing , including cost of providing form work for all shapes (including steel plate/ply wood shuttering, strutting, steel scaffolding etc.), but excluding the cost of providing reinforcement, inserts / embedment's, and as directed by the ENGINEER	275.00	M3		
54	Providing and placing to correct line and level, in position, machine mixed reinforced cement concrete RCC of grade M20 with required slump for Pedestals, columns, walls at all levels including vibrating, curing, providing construction joints, leaving cut-outs/ pockets, placing of inserts/ embedment's, dewatering wherever necessary etc., complete all as per drawing , including cost of providing form work for all shapes (including steel plate/ply wood shuttering, strutting, steel scaffolding etc.), but excluding the cost of providing reinforcement, inserts / embedment's, and as directed by the ENGINEER	70.00	M3		
55	Providing and placing to correct line and level, in position, machine mixed reinforced cement concrete RCC of grade M20 with required slump for Beams / slabs at all levels including vibrating, curing, providing construction joints, leaving cut-outs/ pockets, placing of inserts/ embedment's, dewatering wherever necessary etc., complete all as per drawing , including cost of providing form work for all shapes (including steel plate/ply wood shuttering, strutting, steel scaffolding etc.), but excluding the cost of providing reinforcement, inserts / embedment's, and as directed by the ENGINEER	140.00	M3		
56	Providing and placing to correct line and level, in position, machine mixed reinforced cement concrete RCC of grade M25 with required slump for Raft / footings at all levels including vibrating, curing, providing construction joints, leaving cut-outs/ pockets, placing of inserts/ embedment's, dewatering wherever necessary etc., complete all as per drawing , including cost of providing form work for all shapes (including steel plate/ply wood shuttering, strutting, steel scaffolding etc.), but excluding the cost of providing reinforcement, inserts / embedment's, and as directed by the	4310.00	M3		

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	ENGINEER				
57	Providing and placing to correct line and level, in position, machine mixed reinforced cement concrete RCC of grade M25 with required slump for Pedestals, columns, walls at all levels including vibrating, curing, providing construction joints, leaving cut-outs/ pockets, placing of inserts/ embedment's, dewatering wherever necessary etc., complete all as per drawing , including cost of providing form work for all shapes (including steel plate/ply wood shuttering, strutting, steel scaffolding etc.), but excluding the cost of providing reinforcement, inserts / embedment's, and as directed by the ENGINEER	900.00	M3		
58	Providing and placing to correct line and level, in position, machine mixed reinforced cement concrete RCC of grade M25 with required slump for Beams / slabs at all levels up to 4.50M including vibrating, curing, providing construction joints, leaving cut-outs/ pockets, placing of inserts/ embedment's, dewatering wherever necessary etc., complete all as per drawing , including cost of providing form work for all shapes (including steel plate/ply wood shuttering, strutting, steel scaffolding etc.), but excluding the cost of providing reinforcement, inserts / embedment's, and as directed by the ENGINEER	2775.00	M3		
59	Extra for shuttering work above 3.5M from Ground floor level and paid to be extra other than concrete item due to extra scaffolding work compared to normal height slab.	17325.00	M2		
60	Extra for Lift Charges for RCC M-25 Slab (height from 4.51 M to 9.0M ht)	1040.00	M3		
61	Extra for Lift Charges for RCC M-25 Slab (height from 9.01 M to 13.5M ht)	625.00	M3		
62	Extra for Lift Charges for RCC M-25 Slab (height from 13.51M to 18.0M ht)	345.00	M3		
63	Providing and placing to correct line and level, in position, machine mixed reinforced cement concrete RCC of grade M25 with required slump for Pardis / Fins at all levels including vibrating, curing, providing construction joints, leaving cut-outs/ pockets, placing of inserts/ embedment's, dewatering wherever necessary etc., complete all as per drawing , including cost of providing form work for all shapes (including steel plate/ply wood shuttering, strutting, steel scaffolding etc.), but excluding the cost of providing reinforcement, inserts / embedment's, and as directed by the ENGINEER .	7.00	M3		

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64	Providing and fixing precast reinforced concrete cable trench covers, drain covers, fencing post, etc. of class M25 concrete w/c 0.5 (max) leaving cut-outs/ pockets, placing of inserts/ embedment's, etc., complete all as per drawing including shuttering, vibrating, machine mixing, providing lifting arrangements, placing inserts curing handling, transporting, etc. complete but excluding the cost of providing reinforcement, inserts / embedment's, with 30 mm downgraded aggregates. (Cement consumption 7.9 Bag/M3)	55.00	M3		
65	Providing all the materials including binding wires, cleaning, bending, cutting, hoisting, placing in position, lapping and binding with 16 SWG annealed soft iron wire or tack welding reinforcement steel for all types of RCC / Precast work irrespective of locations & levels all as per drawings including steel scaffolding, handling and transporting from site stores, complete as directed by using High yield strength deformed bars conforming to IS 1786 - HYSD Bars	283.216	TON		
66	Providing all the materials including binding wires, cleaning, bending, cutting, hoisting, placing in position, lapping and binding with 16 SWG annealed soft iron wire or tack welding reinforcement steel for all types of RCC work irrespective of locations & levels all as per drawings including handling and transporting from site stores complete as directed y using Mild Steel bars conforming to IS 432 - M S Bars / rods	1.00	TON		
67	Providing and constructing uncoursed rubble masonry in CM 1:5 including leaving inserts / pockets, scaffolding, curing, raking out joints for plastering / pointing complete for 0 to 4.00 Mtrs. High as directed by EIC. (Cement consumption 2.26 bag/M3)	35.00	M3		
68	Providing & laying non modular fly ash bricks conforming to IS:12894, class designation 7.5 average compressive strength in foundation and plinth thoroughly soaked in water, with Cement mortar 1:5 (1 cement : 5 coarse sand) including racking out joints, curing etc. complete as directed by the Engineer-in-charge.	6230.00	M3		
69	Providing & laying non modular fly ash bricks conforming to IS:12894, class designation 7.5 average compressive strength above plinth upto 4.5M height, thoroughly soaked in water, with Cement mortar 1:5 (1 cement : 5 coarse sand) including scaffolding, racking out joints, curing etc. complete as directed by the Engineer-in-charge.	3465.00	M3		
70	Extra for Lift Charges for Brick Masonry (height from	485.00	M3		

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	4.51 M to 9.0M ht)				
71	Extra for Lift Charges for Brick Masonry (height from 9.01 M to 13.5M ht)	345.00	M3		
72	Extra for Lift Charges for Brick Masonry (height from 13.51M to 18.0M ht)	275.00	M3		
73	Providing and laying autoclaved aerated cement (AAC) blocks masonry with 150/200 mm thick in super structure above plinth level in cement mortar 1:4 (1 cement: 4 coarse sand). The rate includes providing, placing and properly inserted to RCC column 2 Nos. 6 mm dia M.S. bars at every third course of masonry work. 2nos. 8mm dia tor steel reinforcement placed vertically along the jambs of opening connecting sill of windows and lintels including placing of 50mm thick Cement Concrete of 1:2:4 (1 cement: 2 coarse sand : 4 grade stone aggregate 20mm nominal size) shall be done as per drawing and direction of Engineer In charge. Reinforcement, Concreting and shuttering provided shall be paid separately as per relevant BOQ Items. Rates quoted shall be inclusive of all materials loading / unloading, scaffolding, curing etc. complete.	7.00	M3		
74	Supplying & laying of Siporex block for wall 230mm thick and above in cement mortar (1:4) including scaffolding at all heights, curing, raking joints, etc.	30.00	M3		
75	Providing all material and constructing brick masonry upto 125 mm. thick and in cement mortar (1:4) using approved quality, class 7.5 conforming to IS:3102 table moulded bricks (Fly Ash Bricks), including leaving inserts / pockets, steel scaffolding, curing, raking joints, etc. Any reinforcement required to be placed shall be paid separately in reinforcement item of this BOQ.	690.00	M2		
76	Providing and plastering for Ceiling with cement mortar 1:4 mix finish smooth including providing and erecting steel scaffolding, hacking concrete surface, providing bands, grooves drip moulds, curing, etc. - 6 mm thk	6.00	M2		
77	Providing and plastering internal surfaces of concrete and brick work such as walls, columns, beams, etc. with cement mortar 1:4 mix finish smooth including providing and erecting steel scaffolding, hacking concrete surface, providing bands, grooves drip moulds, curing, etc. - 12 mm thk	24255.00	M2		

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78	Providing all materials and carrying out sand faced plaster 25 mm thick in two layers (first layer of 16 to 18 mm and second layer of 6 to 8 mm thickness) and plastering external surfaces of concrete and brick work such as walls, columns, beams etc. with 1:4 cement mortar, including providing & erecting steel scaffolding, hacking of concrete surfaces, curing including bands, drip moulds, grooves, etc. complete with 2% Accoproof or approved waterproofing compound	690.00	M2		
79	Providing all materials and carrying out sand faced plaster 18 mm thick in sigle layer and plastering external surfaces of concrete and brick work such as walls, columns, beams etc. with 1:4 cement mortar, including providing & erecting steel scaffolding, hacking of concrete surfaces, curing including bands, drip moulds, grooves, etc. complete with 2% Accoproof or approved waterproofing compound	17325.00	M2		
80	Groove plastering for Boundary wall per Face, at all height. The rates quoted shall be inclusive of all materials tools tackles for area 10 Sqm. Actual area shall be measured and considered for payment on prorata basis	345.00	EA		
81	Providing and fixing Chicken-mesh of 1.5 mm dia steel wire with hexagonal or rectangular openings of 20-25 mm 150 mm wide fixed with U nails 150 mm centre to centre placed and held properly in position at brick and R.C.C joints as per direction of engineer-in-charge.	345.00	M2		
82	Providing & applying two coats of Elastomeric coating having 200-300% elongation over a coat of primer over properly prepared plaster surface including scrapping all loose material on existing plastered surface etc.	205.00	M2		
83	Providing all materials, tools tackles and labour, preparing the surface by scrapping / wire brushing to remove loose scales, applying 3 coats of Whitewash of approved Shade & Manufacturer, including necessary steel scaffolding / staging etc. complete as directed by EIC.	2075.00	M2		
84	Providing all materials, tools tackles and labour, preparing the surface by scrapping / wire brushing to remove loose scales, applying 3 coats of waterproof Cement based Paint of approved Shade & Manufacturer Snowcen or equivalent, including necessary steel scaffolding / staging etc. complete as directed by EIC.	65.00	M2		
85	Providing and applying oil bound washable distemper of approved brand and manufacture to give an even shade New work (two or more coats) over and including preparing the surface and applying water thinnable	65.00	M2		

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	priming coat with cement primer.				
86	Providing all materials, tools, tackles such as wire brush, putty blade, sand paper etc. for removing all loosely adhering material from the internal surface of existing wall, ceiling , plastered surface etc. & ensuring substrate should be clean, free from dust, grease & loose material. Moisten the wall with sufficient quantity of clean water prior to application of 1st coat of Birla White Wall care Putty or equivalent. Allow the 1st coat surface to dry for at least 3 hrs. after that rub the surface gently with the putty blade in order to remove all loose particles. Apply 2nd coat of putty, allow the surface to dry for 10-12 hrs. after that rub the surface gently with the putty blade in order to remove all loose particles. Total thickness of the coats should be limited to average 1.5 mm thk. This also includes carrying out the work in perfect line and plumb & prepare them to receive paint.	13860.00	M2		
87	Providing all materials, tools tackles and labour, preparing the surface by scrapping / sand papering to remove loose scales/ filling holes and cracks with putty etc. making the surface to receive exterior quality paint, Applying a coat of approved water thinnable Primer and Two or more coat of Paint. Including necessary scaffolding / staging etc. complete including cost of Priming coat. Paint shall be of First Quality Manufactured by Asian / Burger / Nerolac / Dulux / Shalimar paints. New work (Two or more coats applied @ 1.67 litre/ 10 sqm. Over and including priming coat of exterior primer applied @ 1.2 litre/10 sqm. Exterior quality Weatherproof Acrylic Emulsion Paint (Ace or equivalent)	13860.00	M2		
88	Providing all materials, tools tackles and labour, preparing the surface by scrapping / sand papering to remove loose scales/ filling holes and cracks with putty etc. Applying a coat of approved Paint including necessary scaffolding / staging etc complete. Paint shall be of First Quality Manufactured by Asian / Burger / Nerolac / Dulux / Shalimar paints. Old work (One coats applied @ 1.67 litre/ 10 sqm to get required finish Exterior quality Weatherproof Acrylic Emulsion Paint (Ace or equivalent)	3465.00	M2		

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89	Providing all materials, tools tackles and labour, preparing the surface by scrapping / sand papering to remove loose scales/ filling holes and cracks with putty etc. making the surface to receive Interior quality paint, Applying a coat of approved water based Primer and Two or more coat of Paint. Including necessary scaffolding / staging etc. complete including cost of Priming coat. Paint shall be of First Quality Manufactured by Asian / Burger / Nerolac / Dulux / Shalimar paints. New work (Two or more coats applied @ 1.21 litre/ 10 sqm. Over and including priming coat of interior primer applied @ 0.8 litre/10 sqm. Internal quality Acrylic Emulsion paint (Tractor Emulsion or equivalent)	17325.00	M2		
90	Providing all materials, tools tackles and labour, preparing the surface by scrapping / sand papering to remove loose scales/ filling holes and cracks with putty etc. Applying a coat of approved Paint including necessary scaffolding / staging etc complete. Paint shall be of First Quality Manufactured by Asian / Burger / Nerolac / Dulux / Shalimar paints. Old work (One coats applied @ 1.67 litre/ 10 sqm to get required finish Interior quality Acrylic Emulsion Paint (Ace or equivalent)	4850.00	M2		
91	Providing all materials, tools tackles and labour, preparing the surface by scrapping / sand papering to remove loose scales, making the surface plain receive Applying priming coat of ready mixed zinc chromate yellow primer on and Two or more Coats of Paint on all surfaces. Including necessary scaffolding / staging etc. complete including cost of Priming coat. Paint shall be of First Quality Manufactured by Asian / Burger / Nerolac / Dulux / Shalimar paints. Synthetic Enamel Paint (Apcolite or equivalent)	550.00	M2		
92	Providing all materials, tools tackles and labour, preparing the surface by scrapping / sand papering to remove loose scales, making the surface plain, Applying 2 coats Melamine polishing on wood work using Spraying machine. Including necessary steel scaffolding / staging etc. complete as directed. Paint shall be of First Quality. Melamine polishing on wood work (two or more coat).	70.00	M2		
93	Supplying, applying Cement punning as directed by EIC and as per industry standards.	690.00	M2		

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94	Providing and fixing first quality Heavy Duty Parking tiles (1st Quality) of Kajaria / Nitco or equivalent tiles approved by owner to match existing shade in floor & dado, laid to line and level on cement mortar 1:4 bedding upto 40mm , floated with matching cement etc. complete of all sizes upto 400 x 400.	170.00	M2		
95	Providing and fixing first quality Heavy Duty Chequered Tiles as approved by owner to match existing shade in floor & dado, laid to line and level on cement mortar 1:4 bedding upto 40mm , floated with matching cement etc. complete of all sizes upto 300 x 300 x 25mm .	690.00	M2		
96	Providing all the materials laying Indian Patent Stone (IPS) flooring in M15 grade concrete, including finishing the surface & curing etc. complete as directed by EIC. Avg upto 37 mm thk with Glass strips 5mm thk in panels not exceeding 2.0 sqm (Cement Consumption 0.48 Bag/M2)	415.00	M2		
97	25mm thick Kota stone slab flooring over 20 mm (average) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab including rubbing and polishing complete with base of cement mortar 1 : 4 (1 cement : 4 coarse sand) : 25 mm thick.	1.00	M2		
98	Providing and laying anti- skid Ceramic tiles of size 600x600mm in floor in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS:15622, of approved brand & manufacturer, in all colours and shade, laid on 40 mm thick cement mortar 1:5 (1 cement: 5 coarse sand) jointing with grey cement slurry @3.3 kg/sqm including grouting the joints with white cement and matching pigments etc. The tiles must be cut with the zero chipping diamond cutter only .	485.00	M2		
99	Providing and laying anti- skid Ceramic tiles of size 300x300mm in floor in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS:15622, of approved brand & manufacturer, in all colours and shade, laid on 40 mm thick cement mortar 1:5 (1 cement: 5 coarse sand) jointing with grey cement slurry @3.3 kg/sqm including grouting the joints with white cement and matching pigments etc. The tiles must be cut with the zero chipping diamond cutter only .	1730.00	M2		

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100	Providing and fixing first quality Wall tiles (1st Quality) of Kajaria / Nitco or equivalent tiles approved by owner to match existing shade in wall & dado, laid to line and level on cement mortar 1:4 bedding upto 40mm , floated with matching cement etc. complete of all sizes upto. Rate shall be inclusive of one coat of rough plaster to receive dado tiles.	2070.00	M2		
101	Providing and laying Ceramic glazed floor tiles of size 600x600 mm (thickness to be specified by the manufacturer) of 1st quality conforming to IS : 15622 of approved make in colours laid on 40 mm thick cement mortar 1:5 (1 Cement : 5 Coarse sand), Jointing with grey cement slurry @ 3.3 kg/sqm including pointing the joints with white cement and matching pigment etc., complete.	6.00	M2		
102	Providing and laying vitrified floor tiles of size 600x600mm (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS: 15622, of approved make, in all colours and shades, laid on 75mm thick cement mortar 1:4 (1 cement : 4 coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joints with white cement and matching pigments etc., complete.	6930.00	M2		
103	Supplying, Providing and fixing ceramic unglazed vitreous acid / alkali resistant tiles in flooring /dado using 150 x 150 x 20mm thick tiles conforming to IS 4457 over 30mm thick 1:3 acid resistant cement (10 Kg/m ²) mortar bedding including raking of joints, filling and flush pointing with acid / alkali resistant cement mortar 1:3 etc complete	7.00	M2		
104	Providing all services and consumables for cleaning, rubbing and grinding of existing terrazo/mosaic flooring i/c polishing to the desired finish complete at all floor levels as directed by EIC. The rates quoted shall be inclusive of disposing all slush / muck/ debris to designated place as per Engineer In charge	7.00	M2		
105	Providing and fixing 18mm thick gang saw cut mirror polished (premoulded and prepolished) machine cut for kitchen platforms, vanity counters ,window sills , facias and similar locations of required size of approved shade, colour and texture laid over 20mm thick base cement mortar 1:4 (1 cement : 4 coarse sand) with joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing moulding and polishing to edge to give high gloss finish etc. complete at all levels Granite of any colour and shade. Area of	485.00	M2		

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	slab over 0.50 sqm.				
106	Providing and fixing 18mm thick gang saw cut mirror polished (premoulded and prepolished) machine cut for kitchen platforms, vanity counters ,window sills , facias and similar locations of required size of approved shade, colour and texture laid over 20mm thick base cement mortar 1:4 (1 cement : 4 coarse sand) with joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing moulding and polishing to edge to give high gloss finish etc. complete at all levels. a) Raj Nagar Plain white marble/ Udaipur green marble/ Zebra black marble. Area of slab over 0.50 sqm.	1.00	M2		
107	Providing and fixing in position 18mm thick Mirror polished Granite of approved shade for Doors and window sills and jambs. The rates quoted shall include cutting, providing necessary bedding in CM1:4 / adhesive, moulding of edges etc. complete. the rate quoted of the item shall be for width upto 300mm and the same shall be measured on pro rata basis in case of variation in width of granite strip provided.	340.00	M		
108	Providing round edge moulding to 18 mm thick Granite Stones along with required 3 nos V groove for Stair tread upto 300mm wide, including moundling and machine polishing to edge to give high gloss finish etc. complete as per design approved by Engineer-in-Charge.	485.00	M		
109	Providing and placing in position of approved quality and shade 1mm thick Vinyl Flooring/ skirting with require adhesive of approved make etc. Self leveling compound or floor leveler, is used to level out shallow dips and humps in a subfloor, prior to installing a finished floor covering. The rates quoted shall include necessary levelling cleaning and preparing surface for receiving vinyl floor, necessary consumables, tools tackels, transportation, loading unloading etc. complete . Net floor area shall be measured for payment. List of approved make - POLYFLOR, GERFLOR, TARKETT, ARMSTRONG, FORBO, RESPONSIVE, LG HAUSYS, EBACO	70.00	M2		
110	Providing, fitting & fixing wall panelling made out of ACP Sheet Aluminium Extruded section horizontal & vertical members placed at spacing 2'-0" x 2'-0" C/C with 4mm thick A.C.P. including cost, conveyance, taxes of all material, installation charges etc complete.	7.00	M2		

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111	<p>Providing and Fixing Wooden Door / Window frames for cross section of frame upto 125mm x 75mm made of seasoned Sal Wood / Akashi wood, free from knots. These shall be properly framed mortised together, Cost including providing minimum 6 number of M.S. holdfasts lugs painted with red oxide paint (Each holdfast will be fixed to the frame with 3 Nos. of 50mm long galvanized iron screws) or with nylon fasteners of HILTI HRD C countersunk 10mm dia & 140mm length (Use 8no. Fastener in each frame).These shall be properly framed mortised together, wooden polish / paint as directed by EIC.</p>	345.00	M		
112	<p>Providing and fixing 35 to 38 mm thick commercial flush door shutter with 1.5 mm thick laminate on both side of approved make and shade. Rate shall also include provision of 10 mm thick teak wood beading around the shutter, making it of appropriate size of existing door shutter, all the locking accessories, mortice or Round lock on both sides heavy duty brass hinges, heavy duty door closer hyper make sleek model, polishing or painting complete as directed. shutters to be fixed in existing frames.</p>	205.00	M2		
113	<p>Providing and fixing of door frame size-125x75mm with HRD C nylon fasteners (8no) and 36 mm thick flush door shutter, exterior grade phenol formaldehyde (PF) resin bonded , BWR grade, conforming to IS:2202 (Part-I), solid core block board construction of approved manufacturer finished with 1 mm thick laminate of approved make and shade fixed in pattern to both faces to make overall thickness of shutter as 38 mm with mapple wood lipping all around, cutting rebate in shutter, including 4 nos. ISI marked Stainless steel ball bearing hinges 100x55x3mm in size with S.S. screws of approved make etc., cost shall including vision panel of 8mm thick clear glass fixed with 8mm thick leaping in both side of glass, stainless steel 304 Grade bright finished mortise latch and lock set, with Euro profile cylinder and a pair of stainless steel 304 Grade lever handle and key hole and thumb turn on other side with necessary s.s screws,Door stopper Tower bolt of size150mm x 16mm, aluminium extruded section body tubular type universal hydraulic door closer (having brand logo with ISI, IS : 3564, embossed on the body, door weight upto 36 kg to 80 kg and door width from 701 mm to 1000 mm), with double speed adjustment with necessary accessories and screws etc. complete. Approved make of Signature, Greenlam, Century or</p>	7.00	M2		

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	Marino. Hardware Fittings make- Godrej, Dorma, Enox, Hafele, Ozone or Equivalent and as per approved palette.				
114	Providing and fixing of door frame size-125x75mm with HRD C nylon fasteners (8no) and 36 mm thick Teak wood shutter, . ISI marked Stainless steel ball bearing hinges 125x55x3mm in size with S.S. screws of approved make etc., cost shall including fixing of required panel of 8mm thick clear glass fixed with 8mm thick leaping in both side of glass, stainless steel 304 Grade bright finished mortise latch and lock set, with Euro profile cylinder and a pair of stainless steel 304 Grade H type lever handle of 450 mm with necessary s.s screws,Door stopper Tower bolt of size150mm x 16mm, aluminium extruded section body tubular type universal hydraulic door closer (having brand logo with ISi, IS : 3564, embossed on the body, with double speed adjustment with necessary accessories and screws etc. complete. The rate shall also include french polish of same with required number of door fittings like closer,stopper,tower bolt etc.	20.00	M2		
115	Supplying and fixing 30mm thick Solid WPC (wood Plastic composite) door shutter (make: Green/Century or equivalent) for bath/toilet with all SS fittings (3nos 4" butt hinges, 2nos 6" door handle, 2nos 8" Tower Bolt)	205.00	M2		
116	Supplying and fixing 65 x 90/100 mm solid WPC (wood plastic compacted) door frame (make: Green/Century or equivalent) including 6 nos 6" anchor bolts/hold fast per each door.	275.00	M		
117	Supplying and fixing 30mm thick Solid WPC (wood Plastic composite) partition (make: Green/Century or equivalent) with all SS fittings required etc complete.	70.00	M2		
118	Providing and fixing of fully glazed door with minimum 12mm thick glass toughened by horizontal process of St. gobain, modi guard or equivalent make. The door shall have powder coated aluminium frame including all necessary hardware such as double action hydraulic heavy duty floor spring IS:6315, door handle on both sides including cost of cutting floors as required. All hardwares shall be of Godrej, or equivalent, whatever necessary and required numbers to complete the job in all respect. as per the instruction of the Architects.	7.00	M2		

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119	<p>Providing and fixing of Single shutter fully glazed door with minimum 12mm thick glass toughened by horizontal process of saint-gobain, modi guard . make. The door shall be frameless and including all necessary hardware such as using double action hydraulic heavy duty floor spring IS:6315, H-type door handle set of size 350/200mmx25mm, Dead Lock, Top & bottom patch, L-brackets for extension glass on both side etc. all complete as per the direction of EIC, Cost including of cutting floors as required. All hardwares make shall be of Godrej, Dorma, Doorset ,Ozone, H Type SS satin finish push pull door handle for doors (appx 350mm main door and appx. 200mm cabin doors)</p>	205.00	M2		
120	<p>Providing and fixing of double shutter fully glazed door with minimum 12mm thick glass toughened by horizontal process of saint-gobain, modi guard . make. The door shall be frameless and including all necessary hardware such as using patch fittings, double action hydraulic heavy duty floor spring IS:6315 on both side, H-type door handle of size 350/200mmx25mm on both sides, Dead Lock on both side, Top & bottom patch both shutter, L-brackets for extension glass on both side etc. all complete as per the direction of EIC, Cost including of cutting floors as required. All hardwares make shall be of Godrej, Dorma, Doorset ,Ozone ., H Type SS satin finish push pull door handle for doors (appx 350mm main door and appx. 200mm cabin doors)</p>	70.00	M2		
121	<p>Providing and fixing powder coated aluminium doors part panelled and part louvered or glass 5.5mm thick (for all sizes) Main frame shall be made out of Hollow extruded sections of size 100mm x 50mm x 16 gauge. The louvers / glass shall be made of 5.5mm thick and panels shall be of 4mm thk ACP inside suitable aluminium 16 gauges channels fixed to main frame by 2 nos. 4 mm aluminium rivets fixed at 45 deg etc. complete.</p>	70.00	M2		

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122	<p>Providing and fixing single or double shuttered fully panelled POWDER COATED doors conforming to IS:1868. Main frame shall be made out of aluminium tubes of size 100mm x 45mm x 16 gauge. The shutters shall consist of 45mm x 45mm x 16 gauge top rail and styles, 95mm x 45mm x 16 gauge bottom rail and panelled with ACP 4mm thk, including necessary locking arrangement, handles on one or both the shutters, weather strip, floor springs for one or both shutters, tower bolts for one shutter etc. with pivots for each shutter including fixing necessary rubber woolen felt sealing etc. complete as directed by EIC. Aluminium sections to be of Jindal / Indal make.</p>	7.00	M2		
123	<p>Providing and fixing PVC door frames and Shutter PVC. 25 mm thick PVC flush door shutters made out of a one-piece Multi chamber extruded PVC section of the size of 762 mm X 25 mm or less as per requirement with an average wall thickness of 1 mm (\pm 0.3 mm). PVC foam end cap of size 23x10 mm are provided on both vertical edges to ensure the overall thickness of 25 mm. M.S. tube having dimensions 19 mm x 19 mm and 1.0 mm (\pm 0.1 mm) is inserted along the hinge side of the door. Core of the door shutter should be filled with High Density Polyurethane foam. The Top & Bottom edges of the shutter are covered with an end-cap of the size 25 mm X 11 mm. Door shutter shall be reinforced with special polymeric reinforcements as per manufacturer's specification and direction of Engineer-in-charge to take up necessary hardware and fixtures. Stickers indicating the locations of hardware will be pasted at appropriate places</p>	35.00	M2		
124	<p>Providing vision panel above 0.1 sqm in all type of flush,WPC doors (Only area of glass vision panel made in door shutter will be measured) : Rectangular or square</p>	35.00	M2		
125	<p>Providing & fixing Aluminium louvered POWDER COATED windows(fixed) conforming IS:1868. Main frame shall be made out of Hollow extruded sections of size 100 mm x 50 mm x 16 gauge. The louvers shall be made of 5.5 mm thick wired glass slided inside suitable aluminium 16 gauge channels fixed to main frame by 2 nos. 4 mm aluminium rivets fixed at 45 Deg.etc. complete.</p>	35.00	M2		

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126	<p>Providing, Erecting and Fixing Aluminium POWDER COATED fixed windows confirming to IS:1868. Main frame Shall be made out of hollow extruded sections of size 100mm*50mm*16mm gauge and panelled with 50 mm x 45 mm x 16 gauge top and bottom rails and styles, approved 5.5mm thick Clear / Reflective / Opaque glass. All aluminium sections will be finished with anti-corrosive rust proof powder coating of approved quality and shade all as per IS codes or as directed. The rate shall be include of filling any gaps between the frame and the wall with cement mortar 1:1 and restore the same original condition neatly.</p>	35.00	M2		
127	<p>1) Three Track : Providing and fixing of Three track fully glazed sliding POWDER COATED (50 microns) windows. made of (small series) frame 99 x 60 mm & sash 32 x 45 mm both having wall thickness of 1.5 ± 1.7 mm and single glazing bead of appropriate dimension and panelled with approved 5.5mm thick Clear / Reflective / Opaque glass. Including fixing of Latch lock, EPDM Gasket, Wool pile/ weather pile. After fixing frame the gap between frame and adjacent finished wall shall be filled with weatherproof silicon sealent over backer rod of required size and of approved quality.</p>	485.00	M2		
128	<p>2) Two Track: Providing and fixing of Two track fully glazed sliding POWDER COATED (50 microns) windows. made of (small series) frame 65 x 33 mm & sash 25 x 43 mm both having wall thickness of 1.5 ± 1.7 mm and single glazing bead of appropriate dimension and panelled with approved 5.5mm thick Clear / Reflective / Opaque glass. Including fixing of Latch lock, EPDM Gasket, Wool pile/ weather pile. After fixing frame the gap between frame and adjacent finished wall shall be filled with weatherproof silicon sealent over backer rod of required size and of approved quality.</p>	205.00	M2		
129	<p>SUPPLYING AND FIXING factory made U-PVC 2track 2 panel (white colour) made out of superior quality UPVC Multy chamber hollow profile frame (62x50 mm) with wall thick ness 2.5mm., duly reinforced with 1.5mm thick GI C - section 25mmx12mm. Sliding sash should be multi chamberd of size 60x40 mm with wall thickness 2mm and Gi steel reinforcement of 2mm thickness for rigidity. ALL corner and joints should be fusion welded. the glazing shoud be 5mm heat reflective toughened glazing of approved shade with upvc snap fed beading, push lock system ,EPDM weather sealed gasket, brush and interlock. Fixing the same to wall by adequate nos of</p>	340.00	M2		

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	100mmx8mm dia fastener and gap filling by white silicone adhesive. (Make: Fenesta/Iconish/Saint Gobain/Prominace or equivalent)				
130	SUPPLYING AND FIXING factory-made U-PVC 3track 3 panel (white colour) made out of superior quality UPVC Multy chamber hollow profile frame (112x50 mm) with wall thick ness 2.5mm., duly reinforced with 1.5mm thick GI C - section 25mmx12mm. Sliding sash should be multi chamberd of size 60x40 mm with wall thickness 2mm and Gi steel reinforcement of 2mm thickness for rigidity. ALL corner and joints should be fusion welded. the glazing should be 5mm heat reflective toughened glazing of approved shade with upvc snap fed beading, push lock system, EPDM weather sealed gasket, brush and interlock. Fixing the same to wall by adequate nos of 100mmx8mm dia fastener and gap filling by white silicone adhesive. (Make: Fenesta/Prominace or equivalent)	70.00	M2		
131	SUPPLYING AND FIXING factory made U-PVC 2track 2 panel (white colour) made out of superior quality UPVC Multy chamber hollow profile frame (53x45 mm) with wall thick ness 2.5mm., duly reinforced with 1.5mm thick GI C - section 25mmx12mm. Sliding sash should be multi chamberd of size 60x36 mm with wall thickness 2mm and Gi steel reinforcement of 2mm thickness for rigidity. ALL corner and joints should be fusion welded. the glazing shoud be 5mm reflective glazing of approved shade with upvc snap fed beading, push lock system ,EPDM weather sealed gasket, brush and interlock. Fixing the same to wall by adequate nos of 100mmx8mm dia fastener and gap filling by white silicone adhesive. (Make: Fenesta/Iconish/Saint Gobain/Prominace or equivalent)	415.00	M2		
132	Repairing of aluminium doors/windows/ventilators by changing damaged butt hinges, screws i/c dismantling and refixing the leaf, tightening of corner screws etc. complete job. .	7.00	M2		
133	Providing and fixing of roller blind for window. Providing all equipment, material, tools, tackles etc. for fixing blinds for windows of approved make and shade etc.	345.00	M2		
134	Providing and fixing of blind, type: vertical, width: 75 mm. Providing all equipment, material, tools, tackles etc. for fixing blinds of approved make and shade etc.	205.00	M2		

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135	Providing and fixing of sun control film/Itching film of approved make like Garware or equivalent including providing all equipment, material, tools, tackles etc. for fixing sun film without any air bubbles / scratches.	70.00	M2		
136	Providing and fixing frosted cast vinyl crystal film of 3M Scotchguard 7725 Series or approved equivalent make. The film should be electronically /computer plotter cut and applied on glass and other rigid, clear substrates in pattern as per drawings including design, plotting, wastages and application, Matched Component System (MCS) Warranty for at least 10 years.	205.00	M2		
137	Providing and fixing powder coated (50 microns) GI mesh (22 gauge) with aluminium frame 25mmx43mm x16 gauge for window and 32mmx60mm x16 gauge for door etc. complete	35.00	M2		
138	Providing and fixing double action hydraulic floor spring of approved brand and manufacture conforming to IS : 6315, having brand logo embossed on the body / plate with double spring mechanism and door weight upto 125 KG., for doors, including cost of cutting floors ,embedding in floors as required and making good the same matching to the existing floor finishing and cover plates with brass pivot and single piece M.S. sheet outer box with slide plate etc. complete as per the direction of Engineer-in-charge. With stainless steel cover plate minimum 1.25 mm thickness.	7.00	EA		
139	Providing and fixing aluminium extruded section body tubular type universal hydraulic door closer (having brand logo with ISI, IS : 3564, embossed on the body, door weight upto 80 kg and door width from 701 mm to 1000 mm), with double speed adjustment with necessary accessories and screws etc. complete. This item will cover a performance guarantee of 1 year, during this Guarantee period if any malfunctioning is observed the same shall be attended by the vendor within 2 days	70.00	EA		
140	Providing and fixing stainless steel tower bolts with necessary screws etc. complete. 150 mm on existing door	13.00	EA		
141	Providing and fixing stainless steel tower bolts with necessary screws etc. complete. 200 mm x 16mm on existing door.	13.00	EA		
142	Providing & fixing stainless steel Door stopper of magnet type with necessary screws etc. complete on existing door.	69.00	EA		
143	Providing & fixing stainless steel Door stopper with necessary screws etc. complete. Twin rubber stopper.	69.00	EA		

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	on existing door				
144	Providing and fixing stainless steel D-type door handle with necessary screws etc. complete 150 mm on existing door	6.00	EA		
145	Providing heavy duty Iron oxidised fixtures to doors / windows including fixing with nuts, bolts, screws, etc. complete. 1) Aldrop - 250mm long	6.00	EA		
146	CISE, Providing heavy duty Aluminium fixtures to doors / windows including fixing with nuts, bolts, screws, etc. complete. 1) Aldrop - 250mm long	6.00	EA		
147	Providing and fixing aluminium hinges upto 150 mm in aluminium doors / windows / ventilators i/c screws etc. complete	6.00	EA		
148	Providing and fixing aluminium handle for RHS/LHS aluminium windows of similar finish as for window including cleats, screws etc. complete	6.00	EA		
149	Providing and fixing bright finished brass 100 mm mortise latch and lock with 6 levers and a pair of lever handles with necessary screws etc. complete (best make of approved quality).	103.00	EA		
150	Fixing of available aluminium partition and glass and board including screws, transportation to site etc. complete in all respect as directed by EIC	6.00	M2		

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151	<p>Providing and fixing partition upto ceiling height consisting of G.I. frame and required board, including providing and fixing of frame work made of special section power pressed/ roll form G.I. sheet with zinc coating of 120 gms/sqm(both side inclusive), consisting of floor and ceiling channel 50mm wide having equal flanges of 32 mm and 0.50 mm thick, fixed to the floor and ceiling at the spacing of 610 mm centre to centre with dash fastener of 12.5 mm dia meter 50 mm length or suitable anchor fastener or metal screws with nylon plugs and the studs 48 mm wide having one flange of 34 mm and other flange 36 mm and 0.50 mm thick fixed vertically within flanges of floor and ceiling channel and placed at a spacing of 610 mm centre to centre by 6 mm dia bolts and nuts, including fixing of studs along both ends of partition fixed flush to wall with suitable anchor fastener or metal screws with nylon plugs at spacing of 450 mm centre to centre, and fixing of boards to both side of frame work by 25 mm long dry wall screws on studs, floor and ceiling channels at the spacing of 300 mm centre to centre. The boards are to be fixed to the frame work with joints staggered to avoid through cracks, M.S. fixing channel of 99 mm width (0.9 mm thick having two flanges of 9.5 mm each) to be provided at the horizontal joints of two boards, fixed to the studs using metal to metal flat head screws, including jointing and finishing to a flush finish with recommended jointing compound, jointing tape, angle beads at corners (25 mm x 25 mm x 0.5 mm), joint finisher and two coats of primer suitable for board as per manufacture's specification and direction of engineer in charge all complete. 75 mm overall thickness partition with 12.5 mm thick double skin fire rated Glass Reinforced Gypsum (GRG) board conforming to IS: 2095: (part 3) : 1996 (Board with BIS certification marks)</p>	415.00	M2		
152	<p>Providing and fixing powder coated aluminium Partition part panelled and partly glass 5.5mm thick Main frame shall be made out of Hollow extruded sections of size 100mm x 50mm x 16 gauge.</p>	415.00	M2		
153	<p>Providing, Erecting and Fixing Aluminium Anodized fixed partition fully glazed conforming to IS:1868.Main frame Shall be made out of hollow extruded sections of size 100mm*50mm*16 gauge and panelled with approved 5.5mm thick Plain or Tinted glass. All aluminium sections will be finished with Powder coating of approved shade and quality as per IS codes or as directed. The rate shall be include of filling any gaps between the frame and the</p>	6.00	M2		

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	wall with cement mortar 1:1 and restore the same original condition neatly as directed				
154	Providing and fixing 45mm thick panel-based partition system of 1200mm ht. having approved quality Aluminium section, rigid frame work. The partition shall have two concealed raceways (at bottom and mid place) in steel and covered in extruded aluminium power plastic caps. The panel should have a combination of 9mm thick pre laminated board, soft pin up board etc. with matching skirtings and aluminium powder coating top trim on the top of the partition complete	6.00	M2		
155	P/F toilet's & pantry's counters Racks & Shelves underneath fascia of 450mm wide of desired length made up of 19 to 20mm thick BWP grade commercial ply Board with 1.0mm laminate on both side 4 mm second class teak margin on top and bottom end fixed with hinges, locking accessories, Handles, magnet etc completed in all respect.	69.00	M2		
156	Providing and fixing 12 mm thick prelaminated particle board flat pressed three layer or graded wood particle board conforming to IS: 12823 Grade I Type II, in panelling fixed in aluminium doors, windows shutters and partition frames with C.P. brass / stainless steel screws etc. complete as per architectural drawings and directions of engineer-in-charge. Pre-laminated particle board with decorative lamination on both sides.	6.00	M2		
157	Providing and fixing in position minimum 12 mm Thk. clear toughened glass partition of st. gobain, modiguard .Glass to be fixed with metal channels in wall and floor including all required accessories and hardware etc. required to complete the job in all respect. All exposed edges of the glass shall be machine polished. All glass-to-glass joints to be sealed with pre-approved sillicon sealants. including skirting made in marine ply finished with Laminate make Marino / Century / Signature, the cost shall include hardware, adhesives and all other accessories required to complete the job in all respect and as desired.	346.00	M2		

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158	1) Providing and fixing in position both side Laminated partition on Wooden frame (75 mm finished thickness) made of approved quality Sal wood members 50mmx50mm frame (not more that 600mm on either side) , and 8mm thick Ply of approved brand, including scaffolding/access, making cut-out of required sizes and supporting framework for door opening, glass panel as specified in approved drawings and manufacturer specification using metal stud frame sections ,ceiling sections , connecting clip, drywall screws, anchor bolts, backing strips, includes filling and finishing with jointing compound, lippings etc. complete as per architectural drawings and directions of engineer-in-charge.	6.00	M2		
159	2) Providing and fixing in position both side Laminated partition on Aluminium fame (76 mm finished thickness) made of approved aluminium framing of 50x50x1.5mm thick hollow tubler section (Vertical 600mm c/c and Horizontal 1000mm c/c) fix with require anchor fastener, L-cleat of 50x50x1.5mm and countershunk screw. Fix the12mm thick BWR ply in both side of frame. Pest 1mm thick laminate in both side over ply with require adhesive, making groove of 3mm. Duly fill (Gape between Aluminium Frame) the acoustically insulated with 50mm thick glass wool (wrapped in 200 micron polythene bags) of approved equivalent make in 32 kg/m3 density upto structural ceiling. Making cut-out of required sizes and supporting framework for door opening, glass panel as specified in approved drawings and manufacturer specification using metal stud frame sections, ceiling sections , connecting clip, drywall screws, anchor bolts, backing strips, includes filling and finishing, Polishing of grooves with jointing compound, lippings etc. complete as per architectural drawings and directions of engineer-in-charge.	6.00	M2		
160	Providing and fixing in position wall panelling with WPC (Wood Plastic composite) Board finish of approved make (Greenlam /Century or equivalent), including providing and installing base frame in ply sections of appropriate thickness including all necessary consumables, hardware's etc complete. Sealing gaps between sheets with colour and material to give monolithic look.	6.00	M2		
161	Providing and fixing in position wall panelling with HPL (High Pressure Laminate) Board finish of approved make (Greenlam/Century or equivalent), including providing and installing base frame in ply sections of appropriate thickness including all necessary consumables, hardware's etc complete. Sealing gaps between sheets	6.00	M2		

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	with colour and material to give monolithic look.				
162	Providing all material and services for Carpentry Work For Laminate finish Under Counter wall panelling, AC Boxing, Foot Rest including providing and installing base frame in Ply sections of appropriate thickness. All materials shall be as per approved make list including necessary consumables etc.complete. Plan / elevation area shall be measured and paid for.	35.00	M2		
163	Providing and fixing suspended FR garde Gypsum board ceiling of 12.5mm thick (straight, vertical & curved) consisting of Frame work made of special sections, power pressed from M.S. sheets and galvanized with zinc coating of 120 gms/sqm (both side inclusive) as per IS : 277 and consisting of angle cleats of size 25 mm wide x 1.6 mm thick with flanges of 27 mm and 37mm, at 1200 mm centre to centre, one flange fixed to the ceiling with dash fastener 12.5 mm dia x 50mm long with 6mm dia bolts, other flange of cleat fixed to the angle hangers of 25x10x0.50 mm of required length with nuts & bolts of required size and other end of angle hanger fixed with intermediate G.I. channels 45x15x0.9 mm running at the spacing of 1200 mm centre to centre, to which the ceiling section 0.5 mm thick bottom wedge of 80 mm with tapered flanges of 26 mm each having lips of 10.5 mm, at 450 mm centre to centre, shall be fixed in a direction perpendicular to G.I. intermediate channel with connecting clips made out of 2.64 mm dia x 230 mm long G.I. wire at every junction, including fixing perimeter channels 0.5 mm thick 27 mm high having flanges of 20 mm and 30 mm long, the perimeter of ceiling fixed to wall/partition with the help of rawl plugs at 450 mm centre, with 25mm long dry wall screws @ 230 mm interval, including fixing of gypsum board to ceiling section and perimeter channel with the help of dry wall screws of size 3.5 x 25 mm at 230 mm c/c. Joint should be prepare by fibre tape & jointing compound.P/f trap doors made of laminated boards with wooden frames, p/f wooden shadow battens (holloc wood, black enamel painted - 25x40mm) at wall peripheries and ends, extra frame work for fixing lights, making cut-outs for electrical / HVAC / plumbing works etc. complete. Make- Gyproc, USG BORAL, LAFARGE.	2079.00	M2		

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164	<p>Providing and fixing Mineral Fibre Tiles False Ceiling of size 600x600 mm and 15mm thick board (RH-99 tiles). The suspension system shall consist of hangers, main runners, cross tees, perimeter trims, wall connectors etc. The hangers shall be securely fixed to the structural soffits /slab / beams at spacing not more than 1200mm centre to centre by using anchor fasteners. The main runners shall be fixed at spacing not more than 600mm centre to centre. The last hanger at the end of each main runner shall not be placed more than 450 mm from the adjacent walls. Additional hangers shall be placed at a distance not more than 150 mm from the joint in the main runner on either side. The cross tees 600 mm long shall be centrally inter-locked between main runners to form 600 X 600 mm modules. The main runners shall have central notches to accommodate mitred joint of 600 mm long cross teesr, the grid system with main runners and the cross tees shall have 15 mm wide flanges with a 6 mm central recess with reveal profile. The main runners and the cross tees shall be 15mm x 45 mm roll formed from G.I sheets powder/coil coated with 6 mm wide reveal profile. The main runners and the cross tees shall not be fixed to the edge profile/ wall moulding and should only rest on the edge profile/ wall moulding. The edge moulding shall be of shadow moulding type as per manufacturer specification and powder/coil coated on the exposed face to the matching colour and the shade. Make- ARMSTRONG, TECH-H, STARPAN, PROMA , CREDESCENCE, ECOPHONE ,ANUTONE , DEXUNE, ALSTONE</p>	5544.00	M2		
165	<p>Providing and Fixing Grid Ceiling made of Cement bonded particle board (Bison or equivalent) size 610mmx610mm, the Aluminium T section of size 30x35mm 1.2mm thick shall be used for framing suspended by 8 SWG wire / .7x12mm GI Flats. Maximum spacing of suspender shall not exceed 1200mm in any direction. Necessary turnbuckles to be provided in suspenders, the panels will have to be painted in dry condition on both sides and the ends in particular before inserting them in the grid. The rates quoted shall include providing necessary hardware, screws, anchor fasteners for suspended, scaffolding, ladders etc. complete</p>	6.00	M2		

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166	<p>Providing and fixing Floor panels shall be 600mm x 600mm size, with load bearing capacity of 1200 kg concentrated load and 2000 kg /sqm distributed load, minimum 35 mm thick powder coated (40- 60 micron) CRCA steel cementitious core panel (with hemispherical and reverse cones) and 1 mm thick epoxy painted CRCA steel sheet on top. Top sheet shall be finished with 1.5-2mm thick anti-static high-pressure laminate of approved shade and factory laminated or 2mm thick conductive PVC. Stringers shall be of hot dip galvanized (60-80 microns) steel, minimum 20mm x32mm x 1.20mm thick CRCA steel. Pedestal Head Assembly with Zinc electroplated CRCA steel pedestal head assembly shall consist of 90mm x 90mmx4 mm thick profiled head, mechanically riveted to a 19 mm dia. threaded bright rod, fixed to pedestal by specially designed zinc electroplated steel forged adjusting nut for levelling, locking and changing the height setting. Pedestal Base Assembly with Powder coated pedestal assembly shall consist of a formed hot dip galvanized (60-80 micron) mild steel base plate with not less than 150mm x 150mm x 4 mm of bearing area, mechanically riveted to a 32mm dia. of 2 mm thick CRCA steel pedestal designed to engage the head assembly. Approved Make-Unitile, Everest, UNIFLOOR.</p>	6.00	M2	
167	<p>Providing steel and supplying all material, fabricating and erecting structural steel work at all heights including steel scaffolding for roof trusses, purlins, beams, columns, chequered plate flooring, treads, risers, stringers, bracings, runners etc. at all heights including welding and gas cutting, drilling of holes etc. complete as per the approved drawing or as directed. Contractor shall use his own welding set, gas cutting set, gas, electrodes, drill machine and other accessories, required for carrying out the entire work. The rate shall include supply and fixing of MS bolts, require Splicing, nuts, washers, require Splicing and applying one coat of Shalimar or any other approved make red oxide (primer) paint to all the exposed surfaces of steel. Structural steel section shall be of primary manufacturer. Structural steel shall be of yield stress of E250 conforming to Grade BR of IS: 2062.</p>	205.00	TON	

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168	<p>Providing steel and supplying all material, fabricating and erecting galvanized structural steel work at all heights including steel scaffolding for roof trusses, purlins, beams, columns, chequered plate flooring, treads, risers, stringers, bracings, runners etc. at all heights including welding and gas cutting, drilling of holes etc. complete as per the approved drawing or as directed. Contractor shall use his own welding set, gas cutting set, gas, electrodes, drill machine and other accessories, required for carrying out the entire work. The rate shall include supply and fixing of GI bolts, and nuts, and washers. Structural steel section shall be of primary manufacturer and confirm to IS2062 requirements & GI coating shall confirm to IS2629 (1985) & 4759 (1996) .#contractor shall submit the test certificate of GI coating thickness. Thickness should be 80 Microns HOT Dip.</p>	1.00	TON		
169	<p>Steel work in built up hollow / tubular sec including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer, welded and bolted including special shaped washers etc. complete. Hot finished welded type tubes.</p>	1386.00	KG		
170	<p>Providing, Fabricating and erecting MS gates consisting of MS Sections rolled / plates , including welding of sections as per design approved by the Owner. Fabricating the framework with necessary hinges, locking arrangement including applying two coats of synthetic enamel paint of approved make over one coat of primer. Contractor shall use his own welding set, gas cutting set, gas, electrodes and other accessories, steel scaffolding required to complete the entire job. All steel section shall be of primary manufacturer and confirm to IS 4923 requirements Make of Structural Steel - Tata,Sail,Vizag steel,Jindal. Make of electrode - ADVANI-OERLIKON, ESAB, ADOR, MODI</p>	34.00	TON		
171	<p>Providing and fixing in position collapsible steel Gates with vertical channels 20x10x 2mm and braced with flat iron diagonals 20x5 mm size with top and bottom rail of T-iron 40x40x6mm with 40mm dia, steel pulleys complete with bolts, nuts, locking arrangement, stoppers, handles including applying a priming coat of approved steel primer.</p>	3.00	TON		

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172	<p>Providing, Fabricating and erecting MS Sections rolled / plates builtup in, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required. In Embedment's, anchor bolts, struds, gratings, frames, guard bar, ladder, railings, brackets, require Splicing and similar works welding of sections as per design approved by the Owner. Contractor shall use his own welding set, gas cutting set, gas, electrodes and other accessories, steel scaffolding required to complete the entire job. All steel section shall be of primary manufacturer.</p>	6.00	TON		
173	<p>Fabricating and erecting in position, Structural steel work at all heights including steel scaffolding for roof trusses, purlins, beams, columns, chequered plate flooring, treads, risers, stringers, bracings, runners etc. at all heights including welding and gas cutting, drilling of holes etc. complete as directed. Contractor shall use his own welding set, gas cutting set, gas, electrodes, drill machine and other accessories, required for carrying out the entire work. The rate shall include supply and fixing of MS bolts, and nuts, and washers and applying one coat of Shalimar or any other approved make red oxide (primer) paint to all the exposed surfaces of steel. Only structural Steel to be provided by Owner at the nearest store rates quoted shall include necessary carting of free issue material within lead of 5KM</p>	34.00	TON		
174	<p>Providing steel and supplying all material for Fabricating and erecting all types of steel work including welding, gas cutting, grinding, drilling of holes, or other lifting arrangements etc. Contractor shall use his own welding set, gas cutting set, gas, approved quality of welding electrodes, drill machine and other accessories, required for carrying out the entire work. The rate shall include supply and fixing of MS bolts, and nuts, and washers and applying coats of Zinc primer to all the exposed surfaces of steel as directed by EIC.</p>	6.00	TON		
175	<p>Supplying, fabricating, transporting to site and erecting GI grating in position hot dip galvanized members / structures fabricated as per approved drawings including galvanizing the sections (Zinc coating minimum 80-100 micron DFT) / accessories as per specifications and touch up zinc paint after galvanizing in areas where needed / approved after erection.(Grating size 500 shall be as per drawing. All gratings will be supplied by Agency. Agency shall use his own all the tool & tackles to complete the entire work, as per the direction of the site engineer. Agency must approve the sample of grating by</p>	3.00	TON		

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	TATA Power representative before manufacturing of all the gratings.				
176	Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete. Fixed to steel windows by welding.	4504.00	KG		
177	Supplying and fixing rolling shutters of approved make, made of required size M.S. laths, interlocked together through their entire length and jointed together at the end by end locks, mounted on specially designed pipe shaft with brackets, side guides and arrangements for inside and outside locking with push and pull operation complete, including the cost of providing and fixing necessary 27.5 cm long wire springs manufactured from high tensile steel wire of adequate strength conforming to IS: 4454 -part 1 and M.S. top cover of required thickness for rolling shutters. 80x1.25mm M.S. laths with 1.25 mm thick top cover. (Opening Size shall be considered for payment)	69.00	M2		
178	Extra for providing mechanical device chain and crank operation for operating rolling shutters- Exceeding 10.00 sqm and upto 16.80 sqm in the area	10.00	EA		
179	Providing and fixing mat finish stainless steel (Grade 304) gate, grill, railing etc. made of hollow tubes, channels, plates etc., including welding, grinding, buffing, polishing and making curvature (wherever required) and fitting the same with necessary stainless-steel nuts and bolts complete. Fixing the gate with necessary accessories & stainless-steel dash fasteners, stainless steel bolts etc., of required size, with suitable arrangement as per approval of Engineer-in-charge, (for payment purpose weight of stainless-steel members shall be considered including fixing s.s. accessories such as nuts, bolts, fasteners etc.). List of Approved make-JINDAL, FABRINOX, SAIL , SALEM OR APPROVED EQUIVALENT	1.00	TON		
180	Providing, fabricating & fixing 40mm dia SS pipe hand rail over SS structural balustrade of 50mm dia (1mtr Ht from FFL) to be fixed in position with 25mm dia intermediate railings (5row) as per design & drawing including cost of materials, ss bends, ss tee joints, ss fixtures, ss fittings, labour, taxes, royalties etc complete as per direction of Engineer incharge. (All SS pipes should be of 304 grade Shd 10), including 75 mm dia pipe required at starting and ending of stair.	275.00	M		

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181	Providing, fabricating, and erecting 6 / 8 / 10 mm thick aluminium Chequered plate for platform, flooring, treads, risers, stringers, bracings, runners etc. at all heights including straightening, cutting, grinding, drilling of holes or other lifting arrangements, etc. complete as directed. Contractor shall use his own welding set, gas cutting set, gas, electrodes, drill machine and other accessories, required for carrying out the entire work. The rate shall include supply and fixing of bolts, and nuts' washers and other fixtures etc. complete.	1.00	TON		
182	Providing, stretching and fixing chain link fencing 2" square and of gauge 10 (bare metal thickness) on angle posts with heavy duty GI split pins etc. in position complete as directed at all Heights including steel scaffolding.	13860.00	M2		
183	Providing and fixing concertina coil fencing with punched tape concertina coil 600 mm dia 10 metre openable length (total length 90 m), having 50 nos rounds per 6 metre length, for all height of wall with existing angle iron 'Y' shaped . The wire shall be of 12 SWG tensile wire. 2no. reinforce Barbed wire placed horizontally to maintain the line of Concertina coil, stud tied with G.I. staples. Including necessary bolts or G.I. barbed wire tied to angle iron by using U-nails and GI wire, all complete as per direction of Engineerin-in-charge, with reinforced barbed tape (R.B.T.) / Spring core (2.5mm thick) wire of high tensile strength of 165 kg/ sq.mm with tape (0.52 mm thick) and weight 43.478 gm/ metre. including cost of scaffolding etc complete and as directed by EIC	693.00	M		
184	P&F Razor barbed wire Providing and fixing reinforced barbed wire tape (RBT) (2.6mm) thick single wire along the boundary wall / fencing on angle iron post with all necessary fitting such as welding of nuts, bolts, clips, split pins, steel scaffolding, TSP & labour etc. complete.	1386.00	M		
185	Providing and fixing G I barbed wire of 10 gauge along the boundary wall / fencing on angle iron post with all necessary fitting such as welding of nuts, bolts, clips, split pins, manpower etc. complete	27720.00	M		
186	Providing and laying non-pressure NP3 class (heavy duty) R.C.C. pipes with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 fine sand) including testing of joints etc. complete : 100 mm dia. R.C.C. pipe	35.00	M		

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187	Providing and laying non-pressure NP3 class (heavy duty) R.C.C. pipes with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 fine sand) including testing of joints etc. complete : 150 mm dia. R.C.C. pipe	69.00	M		
188	Providing and laying non-pressure NP3 class (heavy duty) R.C.C. pipes with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 fine sand) including testing of joints etc. complete : 250 mm dia. R.C.C. pipe	103.00	M		
189	Providing and laying non-pressure NP3 class (heavy duty) R.C.C. pipes with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 fine sand) including testing of joints etc. complete : 300 mm dia. R.C.C. pipe	138.00	M		
190	Providing and laying non-pressure NP3 class (heavy duty) R.C.C. pipes with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 fine sand) including testing of joints etc. complete : 450 mm dia. R.C.C. pipe	34.00	M		
191	Providing and laying non-pressure NP3 class (heavy duty) R.C.C. pipes with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 fine sand) including testing of joints etc. complete : 600 mm dia. R.C.C. pipe	20.00	M		
192	Supplying & Fixing Heavy duty C.I Manhole cover with frame of 600mm round or square for UGR & OH tanks with locking arrangements etc	42.00	EA		
193	Preparation and consolidation of sub grade with power road roller of 8 to 12 tonne capacity after excavating Earth to an average of 22.5 cm. depth, dressing to camber and consolidating with road roller including making good the undulations etc. and re-rolling the sub grade and disposal of surplus earth with lead upto 50 metres.	3465.00	M2		
194	P&L Granular Sub Base Providing & laying, spreading & compacting specified crushed stone in granular sub base course including premixing the material in mechanical mixer (pug mill) transportation of mixed material laying in uniform layer of 150mm(compacted to 100mm thickness each) on prepared murrum surface & compacting with 10 tonne vibratory roller to achieve desired density of 97%, including all material, labour, machinery, barricading to and maintenance of diversion as required etc. complete (metal gradation from 90mm to 75mm.	1386.00	M3		

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195	P&L Wet Mix Macadam Providing & laying, spreading & compacting specified crushed stone in Wet Mix Macadam including premixing the material in mechanical mixer (pug mill) transportation of mixed material laying in uniform layer of 100mm(compacted to 75mm thickness each) on prepared GSB surface & compacting with 10 tonne vibratory roller to achieve desired density of 97%, including all material, labour, machinery, barricading to and maintenance of diversion as required etc. complete Aggregate Size 53mm down	2079.00	M3		
196	Providing and laying C.C. pavement of mix M-25, The concrete shall be laid and finished with screed board vibrator, vacuum dewatering process and finally finished by floating, brooming with wire brush etc. complete as per specifications and directions of Engineer-in-charge. The maximum width of a slab strip shall not generally exceed 4 metres and minimum number of construction joints shall be used. Alternate slab strips shall be sequentially laid. Any damage to the already finished top surface shall be avoided. Edges at expansion joints shall be protected and proper arrangement of shear-transfer shall be provided. (Note:- Mini. Cement content shall be 350 KG)	345.00	M3		
197	Providing and fixing in position 12mm thick bitumen impregnated fibre board conforming to IS: 1838 including cost of primer, sealing compound in expansion joints.	85.00	M2		
198	Providing and filling in position bitumen mix filler of Proportion 80 KG. of hot bitumen, 1 KG. of cement and 0.25 cubic metre of coarse sand for expansion joints.	42.00	M3		
199	Providing and fixing expansion hold fasteners on C.C./R.C.C./Brick masonry surface backing including drilling necessary holes and the cost of bolt etc. complete. Wedge expansion type Fastener with threaded dia 10 mmx100mm	6.00	EA		
200	Providing and fixing expansion hold fasteners on C.C./R.C.C./Brick masonry surface backing including drilling necessary holes and the cost of bolt etc. complete. Wedge expansion type Fastener with threaded dia 12 mm x 140mm	6.00	EA		
201	Providing and fixing expansion hold fasteners on C.C./R.C.C./Brick masonry surface backing including drilling necessary holes and the cost of bolt etc. complete. Wedge expansion type Fastener with threaded dia 16 mm x150mm	6.00	EA		

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202	Supplying and placing in position Mechanical Anchor fasteners 16 mm dia, 140 mm long including drilling the holes .(HST,HILTI make).	13.00	EA		
203	Supplying and placing in position Mechanical Anchor fasteners 12mm dia. 140mm including drilling the holes .(HST,HILTI make).	13.00	EA		
204	Design & detailing, testing and installation of appropriate sizes of reinforcement anchorages or splices fixed into existing hardened concrete by injecting rebaring Chemical of Hilti RE-500 in drilled holes of 20mm dia and 10d depth, after cleaning of the holes to connect new reinforcement to existing walls and slab. BA shall visit the site and collect necessary details required for carrying out the work and submit complete proposal for TPWODL approval before execution of work at site. (approved make HILTI) - 16mm	69.00	EA		
205	Design & detailing, testing and installation of appropriate sizes of reinforcement anchorages or splices fixed into existing hardened concrete by injecting rebaring Chemical of Hilti RE-500 in drilled holes of 20mm dia and 10d depth, after cleaning of the holes to connect new reinforcement to existing walls and slab. BA shall visit the site and collect necessary details required for carrying out the work and submit complete proposal for TPWODL approval before execution of work at site. (approved make HILTI) - 12mm	103.00	EA		
206	Design & detailing, testing and installation of appropriate sizes of reinforcement anchorages or splices fixed into existing hardened concrete by injecting rebaring Chemical of Hilti RE-500 in drilled holes of 20mm dia and 10d depth, after cleaning of the holes to connect new reinforcement to existing walls and slab. BA shall visit the site and collect necessary details required for carrying out the work and submit complete proposal for TPWODL approval before execution of work at site. (approved make HILTI) - 10mm	138.00	EA		
207	Design & detailing, testing and installation of appropriate sizes of reinforcement anchorages or splices fixed into existing hardened concrete by injecting rebaring Chemical of Hilti RE-500 in drilled holes of 20mm dia and 10d depth, after cleaning of the holes to connect new reinforcement to existing walls and slab. BA shall visit the site and collect necessary details required for carrying out the work and submit complete proposal for TPWODL approval before execution of work at site. (approved make HILTI) - 08mm	173.00	EA		

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208	<p>Drilling of 150mm dia. Bore with hydraulic / manual rig including cost of drilling bore well in all kinds of soil and rock in both rural and urban area for installation of submersible / jet pumpset with all complete including supplying all materials tools, drilling rig, Air compressor and equipment, as well as all pipes, fitting, cables, machine and other required vehicle upto the site. #1. Item should be inclusive of supply and install ation of PVC heavy duty rigid pipe of 125 mm dia (Min.4Kg/Sqcm pressurer ating) and accessories including cutting , jointing and lowering, covering all the holes with heavy duty MS Jali . #2. Supply and installation of 1.5HP submersible pump with starter of ap proved make with all electrical accessories and 50mm dia HDPE Thread pipe with all fitting etc. all complete .#3. A minimum of 2inch continous flow of water is required and the BA has to verify the same from Concerned authority after completion For Depth upto 200ft</p>	6.00	EA		
209	<p>Drilling of 150mm dia. Bore with hydraulic / manual rig including cost of drilling bore well in all kinds of soil and rock in both rural and urban area for installation of submersible / jet pumpset with all complete including supplying all materials tools, drilling rig, Air compressor and equipment, as well as all pipes, fitting, cables, machine and other required vehicle upto the site. #1. Item should be inclusive of supply and install ation of PVC heavy duty rigid pipe of 125 mm dia (Min.4Kg/Sqcm pressurer ating) and accessories including cutting , jointing and lowering, covering all the holes with heavy duty MS Jali . #2. Supply and installation of 1.5HP submersible pump with starter of ap proved make with all electrical accessories and 50mm dia HDPE Thread pipe with all fitting etc. all complete .#3. A minimum of 2inch continous flow of water is required and the BA has to verify the same from Concerned authority after completion For Depth upto 300ft</p>	10.00	EA		

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210	<p>Drilling of 150mm dia. Bore with hydraulic / manual rig including cost of drilling bore well in all kinds of soil and rock in both rural and urban area for installation of submersible / jet pumpset with all complete including supplying all materials tools, drilling rig, Air compressor and equipment, as well as all pipes, fitting, cables, machine and other required vehicle upto the site. #1. Item should be inclusive of supply and install ation of PVC heavy duty rigid pipe of 125 mm dia (Min.4Kg/Sqcm pressurer ating) and accessories including cutting , jointing and lowering, covering all the holes with heavy duty MS Jali . #2.Supply and installation of 1.5HP submersible pump with starter of ap proved make with all electrical accessories and 50mm dia HDPE Thread pipe with all fitting etc. all complete .#3. A minimum of 2inch continous flow of water is required and the BA has to verify the same from Concerned authority after completion For Depth upto 400ft</p>	5.00	EA		
211	<p>Drilling of 150mm dia. Bore with hydraulic / manual rig including cost of drilling bore well in all kinds of soil and rock in both rural and urban area for installation of submersible / jet pumpset with all complete including supplying all materials tools, drilling rig, Air compressor and equipment, as well as all pipes, fitting, cables, machine and other required vehicle upto the site. #1. Item should be inclusive of supply and install ation of PVC heavy duty rigid pipe of 125 mm dia (Min.4Kg/Sqcm pressurer ating) and accessories including cutting, jointing and lowering, covering all the holes with heavy duty MS Jali . #2.Supply and installation of 1.5HP submersible pump with starter of ap proved make with all electrical accessories and 50mm dia HDPE Thread pipe with all fitting etc. all complete .#3. A minimum of 2inch continous flow of water is required and the BA has to verify the same from Concerned authority after completion For Depth upto 500ft</p>	3.00	EA		

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212	<p>Drilling of 150mm dia. Bore with hydraulic / manual rig including cost of drilling bore well in all kinds of soil and rock in both rural and urban area for installation of submersible / jet pumpset with all complete including supplying all materials tools, drilling rig, Air compressor and equipment, as well as all pipes, fitting, cables, machine and other required vehicle upto the site. #1. Item should be inclusive of supply and installation of MS heavy duty rigid pipe of 125 mm dia and accessories including cutting , jointing and lowering, covering all the holes with heavy duty MS Jali . #2. Supply and installation of 1.5HP submersible pump with starter of ap proved make with all electrical accessories and 50mm dia HDPE Thread pipe with all fitting etc. all complete #3. A minimum of 2inch continous flow of water is required and the BA has to verify the same from Concerned authority after completion For Depth upto 500ft</p>	6.00	EA		
213	<p>Providing corrugated Galvanised Steel sheet roofing including vertical / curved surface fixed with polymer coated J or L hooks, bolts and nuts 8 mm diameter with bitumen and G.I. limpet washers or with G.I. limpet washers filled with white lead, including a coat of approved steel primer and two coats of approved paint on overlapping of sheets complete (up to any pitch in horizontal/ vertical or curved surfaces), excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required. 0.80 mm thick with zinc coating not less than 275 gm/m². Provide overlap of 300mm along the length of sheet and overlap one crest along the width of sheet. (Net Roofing / Cladding area should be measured for billing). The J-hooks should be fix in the Crest of the sheet. Make-Jindal,Tata etc.</p>	77.00	M2		
214	<p>Providing ridges or hips of width 60 cm overall width plain G.S. sheet fixed with polymer coated J. or L hooks, bolts and nuts 8 mm dia G.I. limpet and bitumen washers complete. 0.8 mm thick with zinc coating not less than 275 gm/m²</p>	77.00	M2		
215	<p>Providing all the materials including screws, bolts and fixing corrugated A.C. Sheet, GI Sheet, Galvalume RMP sheet on partition, roof or any other place including cutting, screwing etc. complete at all elevations (Only Sheets shall be supplied by TATA's free of cost)</p>	38.00	M2		

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216	<p>Providing, placing and fixing profile pre-colour coated galvalume RMP sheets or equivalent of 0.5mm total coated thickness to match existing shade (bare galvalume thickness 0.47mm), trough type, zinc aluminium alloy coated (zinc aluminium coating not less than 150g/sqm), MS high tensile sheet having minimum yield strength of 550MPa including coating of DFT 20 microns over 5 microns primer on exposed surface of sheeting and DFT 5 microns over 5 micron primer on internal surface of sheeting and including all connections and matching fixtures and accessories such as but not limited to J or L bolts & hooks (8 mm, polymer coated), nuts with polymer washers, self tapping screws, protective polymer cap of matching colour for bolts, should be supplied in suitable length as desired by Engineer in- charge. The sheet shall be fixed using hex-head self drilling /self tapping GI coated screws of size (5.5x 55 mm) with EPDM seal, complete upto any pitch in horizontal/ vertical or curved surfaces, etc., complete as per manufacturers recommendations for Sheeting for roof/Side etc. Provide overlap of 300mm along the length of sheet and overlap one crest along the width of sheet. (Net Roofing / Cladding area should be measured for billing). The SDS/STS should be fix in the Crest of the sheet. Make- Jindal,Tata etc.</p>	3850.00	M2		
217	<p>Providing, placing and fixing plain pre-colour coated galvalume RMP sheets or equivalent of 0.5mm total coated thickness to match existing shade (bare galvalume thickness 0.47mm), plain sheet for flashing , ridges, zinc aluminium alloy coated (zinc aluminium coating not less than 150g/sqm), MS high tensile sheet having minimum yield strength of 550MPa including coating of DFT 20 microns over 5 microns primer on exposed surface of sheeting and DFT 5 microns over 5 micron primer on internal surface of sheeting and including all connections and matching fixtures and accessories such as but not limited to J or L bolts & hooks (8 mm, polymer coated), nuts with polymer washers, self tapping screws, protective polymer cap of matching colour for bolts, should be supplied in suitable length as desired by Engineer in- charge.The sheet shall be fixed using hex-head self drilling /self tapping GI coated screws of size (5.5x 55 mm) with EPDM seal, complete upto any pitch in horizontal/ vertical or curved surfaces, etc., complete as per manufacturers recommendations for Sheeting for roof/Side etc. Provide overlap of 300mm along the length of sheet (Net Roofing / Cladding area should be measured for</p>	385.00	M2		

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	billing). The SDS/STS should be fix in the Crest of the sheet. Make- Jindal,Tata etc.				
218	<p>Providing and laying waterproofing treatment in sunken portion of WCs, bathrooms,balcony, STP,UGT,OHT, etc., by applying cement slurry mixed with Armourcrete of M/s The Structural Water Proofing Company Pvt. Ltd. or CICO TAPECRETE P-151 of M/s. CICO Engg. Service or SikaTop®-107 Seal IN or approved equivalent consisting of applying:</p> <p>(a) First layer of slurry of cement @0.488 kg/sqm mixed with Armourcrete or Tapecrete @ 0.253 kg/sqm. This layer shall be allowed to air cure for 4 hours.</p> <p>(b) Second layer of slurry of cement @ 0.242 kg/sqm mixed with Armourcrete or Tapecrete @ 0.126 kg/sqm. This layer shall be allowed to air cure for 4 hours followed with water curing for 48 hours.</p> <p>(c) All above operations to be done in order and as directed and specified by the Engineer-in-Charge. Contractor shall give 10 years guarantee on court fee stamp paper of Rs. 1000/-.</p> <p>* Surface preparation and Applications : The surface shall be cleaned to remove all dust, foreign matters, loose materials or any deposits. All visible craks should be treated before applicaion of waterproofing chemical. All concrete surfaces shall be thoroughly pre-wetted prior to the application of chemical coating by pouring water on flat surface or by spraying water on vertical/inclined surfaces. Polymer modified chemical is mixed with neat fresh cement in the ratio of 1:2 by weight. The mix has to be stirred thoroughly until smooth homogeneous slurry is obtained. Wait for 5-10 minutes to release entrapped air bubbles. Any lump found in the mix should be removed or mixed thoroughly. The mix has to be applied by brush on rendered and/or prepared surface. Two or more coats are recommended. First coat should be allowed to air dry for 5-6 hours prior to apply subsequent coat. After application of final coat of waterproofing chemical, initial air drying shall be done for 2-6 hours. During this period no water is to be used for curing.</p>	77.00	M2		

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219	<p>Providing and laying integral cement based water proofing treatment including preparation of surface as required for treatment of roofs, balconies, terraces etc consisting of following operations:</p> <p>(a) Applying a slurry coat of neat cement using 2.75 kg/sqm of cement admixed with water proofing compound conforming to IS. 2645 and approved by Engineer-in-charge over the RCC slab including adjoining walls upto 300 mm height including cleaning the surface before treatment.</p> <p>(b) Laying brick bats with mortar using broken bricks/brick bats 25 mm to 115mm size with 50% of cement mortar 1:5 (1 cement : 5 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge over 20 mm thick layer of cement mortar of mix 1:5 (1 cement :5 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge to required slope and treating similarly the adjoining walls upto 300 mm height including rounding of junctions of walls and slabs.</p> <p>(c) After two days of proper curing applying a second coat of cement slurry using 2.75 kg/ sqm of cement admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge.</p> <p>(d) Finishing the surface with 20 mm thick jointless cement mortar of mix 1:4 (1 cement :4 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer in-charge including laying glass fibre cloth of approved quality in top layer of plaster and finally finishing the surface with trowel with neat cement slurry and making pattern of 300x300 mm square 3mm deep.</p> <p>(e) The whole terrace so finished shall be flooded with water for a minimum period of two weeks for curing and for final test.“All above operations to be done in order and as directed and specified by the Engineer-in-Charge. With average thickness of 120 mm and minimum thickness at khurra as 65mm.</p> <p>**Contractor shall give 10 years guarantee on court fee stamp paper of Rs. 1000/-.</p>	385.00	M2		
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220	Providing and fixing water closet squatting pan (I.W.C. pan) with 100 mm sand cast Iron P or S trap, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required : White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests. (Make-PARRYWARE, HINDWARE,CERA, JAQUAR, KOHLER)	7.70	EA		
221	Providing and fixing white vitreous wall mounted china pedestal type European water closet (EWC) with seat & lid,9 litres concealed cistern & manually controlled device confirming to the IS-7231 with all fittings & fixtures complete including cutting and making good the walls and floors wherever required.WC pan with ISI marked white solid plastic seat & lid heavy duty (Make-PARRYWARE, HINDWARE,CERA, JAQUAR, KOHLER : Constellation set white)	16.00	EA		
222	Providing and fixing white vitreous china pedestal type European water closet (Hindware make: Constellation set white) with seat & lid,10 litres flushing cistern & manually controlled device confirming to the IS-7231 with all fittings & fixtures complete including cutting and making good the walls and floors wherever required.WC pan with ISI marked white solid plastic seat & lid heavy duty (HINDUSTAN/Parryware MAKE)	169.00	EA		
223	Providing and fixing white vitreous china flat back or wall corner type lipped front urinal basin of 430x260x350 mm and 340x410x265 mm sizes respectively with manual flushing cistern with standard flush pipe and C.P. brass spreaders with brass unions and G.I clamps complete, including painting of fittings and brackets, cutting and making good the walls and floors wherever required. overflow outlet pipes with mosquito proof cover including providing all the materials. Urinals shall be provided with 15 mm dia C.P. spreader, 32 mm dia C.P. domical waste and C.P. cast brass bottle trap with pipe and wall flange and shall be fixed to wall by one C.I. bracket and two C.I. wall clips as recommended by manufacturers. (Make-PARRYWARE, HINDWARE,CERA, JAQUAR, KOHLER)	30.00	EA		
224	Providing urinal parryware magnum equivalent and flushing valve and CP waste pipe, lead and GI pipe connections overflow outlet pipes with mosquito proof cover including providing all the materials. etc. complete. (HINDUSTAN/Parryware MAKE)	177.00	EA		

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225	Providing and fixing Wall mounted Ceramic Urinal separation Size 345 x 675 x 130 mm with all necessary	269.00	EA		
226	Providing and fixing of Urinal partitions of china/ 25mm thick marble/ 18mm thick HPL/ 10mm thick Frosted glass partition shall be vitreous size as specified and required colour and it should be fixed with proper SS clam & Screw. (Make-PARRYWARE, HINDWARE,CERA, JAQUAR, KOHLER or eq. make.	46.00	EA		
227	Providing & fixing white glazed wash basin flatback confirming to IS 2556 (Part IV) of approved make including providing wash basin, C.I brackets, fixed to the wall with rawl plug bolts & screws and painted in two coats of white zinc paint over a coat of red oxide primer, with 15mm C.P. pillar tap as per IS 1795 (1 No.) of approved make, plug & C.P chain, 50mm dia. mosquito proof gratings, 32mm dia. C.P. waste pipe, brass stop cock as per IS 781 with C.P pipe pieces upto wall or floor level plus 40mm lead, waste pipe embedded floor from 32mm CP waste extension pipe to the CI waste shaft on the outside wall, complete with brass union and plumbers wiped soldered joints as directed with necessary cleaning eyes including cutting holes and chasses in the wall and making good the same in CM (1:4) etc. complete as directed. (Make-PARRYWARE, HINDWARE,CERA, JAQUAR, KOHLER) Size 580mm X 450mm	46.00	EA		
228	Providing & fixing white glazed wash basin pedestal confirming to IS 2556 (Part IV) of approved make including providing wash basin, C.I brackets, fixed to the wall with rawl plug bolts & screws and painted in two coats of white zinc paint over a coat of red oxide primer, with 15mm C.P. pillar tap as per IS 1795 (1 No.) of approved make, plug & C.P chain, 50mm dia. mosquito proof gratings, 32mm dia. C.P. waste pipe, brass stop cock as per IS 781 of bottle trap with C.P pipe pieces upto wall or floor level plus 40mm lead, waste pipe embedded floor from 32mm CP waste extension pipe to the CI waste shaft on the outside wall, complete with brass union and plumbers wiped soldered joints as directed with necessary cleaning eyes including cutting holes and chasses in the wall and making good the same in CM (1:4) etc. complete as directed. (Hindustan/ Parryware make .)	177.00	EA		
229	Providing and fixing Table top counter wash basins of company Hindware or Jaquar Colour : white, comprising of the following for complete installation. Base rate Rs 4000 per WB	30.00	EA		

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230	"Supplying all materials, tools & plant and fittings and fixing" SS 304 Stainless steel Kitchen sink with cast iron or Mild steel brackets painted white including cutting holes in walls and making good all damages complete as per direction of site incharge. "S.S Sink of size 600x450x200mm, Make:NIRALI, Prestige. The rates includes all fittings and Sink Cock(Jaquar Florentine) with all waste arrangement.	92.00	EA		
231	Providing and fixing 100 x 80mm PVC deep seal Nahani Trap of insect proof type with PVC heavy grating and frame as directed	231.00	EA		
232	Providing and fixing 100 x 100mm PVC deep seal Nahani Trap of insect proof type with PVC heavy grating and frame as directed	154.00	EA		
233	Providing and fixing stone ware gully traps of 9"x9" size as directed.	7.00	EA		
234	Providing and fixing heavy duty PVC soap dispenser of standard size.	231.00	EA		
235	Providing and fixing 600x450mm bevelled edge mirror of superior glass (of approved quality) complete with 6mm thick hard board ground fixed to wooden cleats with CP brass screws and washers complete.	192.00	EA		
236	Providing and fixing PVC seat cover to European WC matching with the existing if any. (Make-PARRYWARE, HINDWARE,CERA, JAQUAR, KOHLER)	7.00	EA		
237	Providing and fixing heavy duty CP Jali for nahni trap as directed of 100x100mm in squire size. (Make-JAQUAR, ROCA, KOHLER, HINDWARE, PARRYWARE, GROHE)	7.00	EA		
238	Providing and fixing heavy duty CP Waste pipe	38.00	EA		
239	Providing and fixing heavy duty PVC/Nylon Waste pipe	38.00	EA		
240	Providing and fixing 100mm dia CP shower with 300mm long arm. Concealed stopcocks shall be so fixed as to keep the wall flange clear off the finished wall. Shower set shall comprise of single lever mixer or four way diverter with two C.P. brass concealed stop cocks, with bath spout etc. (Make-JAQUAR, ROCA, KOHLER, HINDWARE, PARRYWARE, GROHE)	7.00	EA		
241	Providing and fixing heavy duty C P Flush valve for flat back Urinals complete matching with existing if any. (Make- JAQUAR, HINDWARE, CERA,PARRYWARE)	7.00	EA		
242	Providing and fixing 31 mm dia heavy duty CP Bottle trap matching with the existing if any (Make- JAQUAR, HINDWARE, CERA,PARRYWARE)	7.00	EA		
243	Providing and fixing heavy duty CP pillar cock - Pressmatic type to wash basin size 15mm of approved ISI make as directed. (Make- JAQUAR, HINDWARE,	7.00	EA		

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	CERA,PARRYWARE)				
244	Providing and fixing Long arm and Long body pillar cock for Counter basin as per approved make all complete.	23.00	EA		
245	Providing and installation heavy duty Health Faucet including PVC Connector of approved make with ISI mark as directed. (Make- JAQUAR, HINDWARE, CERA,PARRYWARE)	154.00	EA		
246	Providing and fixing heavy duty PVC high level / low level flush tank of standard size including all necessary fitting and fixtures of approved make with ISI mark as directed. (Make- JAQUAR, HINDWARE, CERA,PARRYWARE)	7.00	EA		
247	Providing and fixing brass connecting rod with PVC ball cock etc. and of 1st quality and of ISI approved make Ball cocks 12mm Dia. (Make- JAQUAR, HINDWARE, CERA,PARRYWARE)	7.00	EA		
248	Providing and fixing brass connecting rod with PVC ball cock etc. and of 1st quality and of ISI approved make Ball cocks 19mm Dia. (Make- JAQUAR, HINDWARE, CERA,PARRYWARE)	7.00	EA		
249	Supply and fixing of 12 mm PVC Tap of good quality make Supreme, Prayag / Water Tech only.	7.00	EA		
250	Providing and fixing heavy duty CP concealed one way bib cock size 12mm dia. of approved make with ISI mark as directed. (Make- JAQUAR, HINDWARE, CERA,PARRYWARE)	38.00	EA		
251	Providing and fixing heavy duty CP concealed two way bib cock size 12mm dia. of approved make with ISI mark as directed. (Make- JAQUAR, HINDWARE, CERA,PARRYWARE)	154.00	EA		
252	Providing and fixing heavy duty CP concealed Angle cock size 12mm dia. of approved make with ISI mark as directed. (Make- JAQUAR, HINDWARE, CERA,PARRYWARE)	7.00	EA		
253	Providing and fixing heavy duty CP concealed stop cock size 12mm dia. of approved make with ISI mark as directed. (Make- JAQUAR, HINDWARE, CERA,PARRYWARE)	7.00	EA		
254	Providing and fixing heavy duty CP concealed stop cock size 20mm dia. of approved make with ISI mark as directed. (Make- JAQUAR, HINDWARE, CERA,PARRYWARE)	7.00	EA		
255	Providing and fixing heavy duty CP concealed stop cock size 50mm dia. of approved make with ISI mark as directed.(Make- JAQUAR, HINDWARE, CERA,PARRYWARE)	7.00	EA		

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256	Providing and fixing heavy duty CP concealed two way Angle cock size 12mm dia. of approved make with ISI mark as directed. (Make- JAQUAR, HINDWARE, CERA,PARRYWARE)	7.00	EA		
257	Providing and fixing heavy duty CP concealed two way stop cock size 12mm dia. of approved make with ISI mark as directed. (Make- JAQUAR, HINDWARE, CERA,PARRYWARE)	7.00	EA		
258	Providing and fixing Hand Towel Dispenser of company : Kimberly clark , Cat no : 02010 (White)	38.00	EA		
259	Supplying all materials, fittings and fixing Towel Rail, Make:Jaquar, ACN-1111SM ,600mm long	77.00	EA		
260	Supplying all materials, fittings and fixing Towel Ring, Make:Jaquar, ACN-CHR-1121N.	77.00	EA		
261	Providing and fixing Glass self 10mm thick, upto 600mm long and 300mm wide, with necessary hardware's, clamps, brackets , supports etc complete as per direction of EIC.	77.00	EA		
262	Providing and fixing C.P. open type toilet paper holder 200 x 150mm, including fixing the same with C.P. screws complete. Of JAGUAR Continental series or equivalent approved make.	154.00	EA		
263	Providing and fixing robe hooks (double) including fixing the same with CP screws complete. [JAGUAR-1161N]	231.00	EA		
264	Providing and fixing hand drier unit complete with Electrical connections of Ascon prima series or Euronic or equivalent.	77.00	EA		
265	Providing & fixing storage type water cooler with Aquaguard of the following capacity, I.S.I marked, stainless steel front panel, C.P. brass push cock, inlet float valve with all plumbing & electrical accessories, inlet, outlet, overflow and PVC drain out connection to F.D. complete as required. Capacity 20 liters	3.00	EA		
266	Providing all materials, services, tools, tackles, equipment, transport etc. for carrying out misc. plumbing repair works and Replacing float valve of flush tank size 12.5 mm dia.	7.00	EA		
267	Providing and fixing heavy duty GM gate valve of approved make and ISI mark. complete as directed. (New or Equipment) Size 12 mm dia. (Make- ZOLOTO, LEADER, CASTLE, ADVANCE)	7.00	EA		
268	Providing and fixing heavy duty GM gate valve of approved make and ISI mark. complete as directed. (New or Equipment) Size 19 mm dia. (Make- ZOLOTO,	7.00	EA		

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	LEADER, CASTLE, ADVANCE)				
269	Providing and fixing heavy duty GM gate valve of approved make and ISI mark. complete as directed. (New or Equipment) Size 25 mm dia. (Make- ZOLOTO, LEADER, CASTLE, ADVANCE)	7.00	EA		
270	Providing and fixing heavy duty GM gate valve of approved make and ISI mark. complete as directed. (New or Equipment) Size 32 mm dia. (Make- ZOLOTO, LEADER, CASTLE, ADVANCE)	7.00	EA		
271	Providing and fixing heavy duty GM gate valve of approved make and ISI mark. complete as directed. (New or Equipment) Size 39 mm dia. (Make- ZOLOTO, LEADER, CASTLE, ADVANCE)	7.00	EA		
272	Providing and fixing heavy duty GM gate valve of approved make and ISI mark. complete as directed. (New or Equipment) Size 50 mm dia. (Make- ZOLOTO, LEADER, CASTLE, ADVANCE)	7.00	EA		
273	Providing and fixing heavy duty CPVC Ball valve of approved make and ISI mark. complete as directed. (New or Equipment) Size 12 mm dia. (Make-Supreme, Astral, Ashirvad, Finolex etc.)	7.00	EA		
274	Providing and fixing heavy duty CPVC Ball valve of approved make and ISI mark. complete as directed. (New or Equipment) Size 19 mm dia. (Make-Supreme, Astral, Ashirvad, Finolex etc.)	10.00	EA		
275	Providing and fixing heavy duty CPVC Ball valve of approved make and ISI mark. complete as directed. (New or Equipment) Size 25 mm dia. (Make-Supreme, Astral, Ashirvad, Finolex etc.)	77.00	EA		
276	Providing and fixing heavy duty CPVC Ball valve of approved make and ISI mark. complete as directed. (New or Equipment) Size 32 mm dia. (Make-Supreme, Astral, Ashirvad, Finolex etc.)	45.00	EA		
277	Providing and fixing heavy duty CPVC ball valve of approved make and ISI mark. complete as directed. (New or Equipment) Size 39 mm dia. (Make-Supreme, Astral, Ashirvad, Finolex etc.)	30.00	EA		
278	Providing and fixing heavy duty CPVC Ball valve of approved make and ISI mark. complete as directed. (New or Equipment) Size 50 mm dia. (Make-Supreme, Astral, Ashirvad, Finolex etc.)	45.00	EA		
279	Providing and fixing of PVC pipe of Class-B (6 kg/cm ²) for down take for 75 mm dia. with necessary solvent, bends, sockets, elbows, shoe, holding clamps etc. complete. (Make-Supreme, Astral, Ashirvad, Finolex etc.)	69.00	M		

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280	Providing and fixing of PVC pipe SCH-80 for down take for 110 mm dia.with necessary bends, sockets, elbows, shoe, holding clamps etc. complete.	30.00	M		
281	Providing and fixing of PVC pipe of Class-B (6 kg/cm ²) for down take for 160 mm dia. with necessary bends, sockets, elbows, shoe, holding clamps etc. complete.	38.00	M		
282	Providing & fixing of 15mm Nominal dia Chlorinated Polyvinyl Chloride pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge , carrying out necessary Groove cutting, clamping testing etc. complete. Make: astral/prince/supreme/Oriplast.	60.00	M		
283	Providing & fixing of 20mm Nominal dia Chlorinated Polyvinyl Chloride pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge , carrying out necessary Groove cutting, clamping testing etc. complete. Make: astral/prince/supreme/Oriplast.	260.00	M		
284	Providing & fixing of 25mm Nominal dia Chlorinated Polyvinyl Chloride pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge , carrying out necessary Groove cutting, clamping testing etc. complete. Make: astral/prince/supreme/Oriplast.	1925.00	M		
285	Providing & fixing of 32mm Nominal dia Chlorinated Polyvinyl Chloride pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge , carrying out necessary Groove cutting, clamping testing etc. complete. Make: astral/prince/supreme/Oriplast.	462.00	M		

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286	Providing & fixing of 40mm Nominal dia Chlorinated Polyvinyl Chloride pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge , carrying out necessary Groove cutting, clamping testing etc. complete. Make: astral/prince/supreme/Oriplast.	270.00	M		
287	Providing & fixing of 50mm Nominal dia Chlorinated Polyvinyl Chloride pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge , carrying out necessary Groove cutting, clamping testing etc. complete. Make: astral/prince/supreme/Oriplast.	138.00	M		
288	Providing & fixing of 32mm Nominal dia HDPE pipes, including all plain & brass threaded fittings, including fixing the pipe with clamps/tie at 1.00 m spacing. This includes jointing of pipes & fittings with solvent cement and testing of joints if required complete as per direction of Engineer in Charge , carrying out necessary Groove cutting, clamping testing etc. complete. Make: astral/prince/supreme/Oriplast.	260.00	M		
289	Providing & replacing existing damaged pipe with C class G.I. pipe to correct line and level including providing all materials such as C class pipes and required fittings, carrying out necessary excavation, backfilling & ramming after testing etc. complete for 12mm Dia.	15.00	M		
290	Providing & replacing existing damaged pipe C class G.I. pipe to correct line and level including providing all materials such as C class pipes and required fittings, carrying out necessary excavation, backfilling & ramming after testing etc. complete for 19mm Dia.	15.00	M		
291	Providing & replacing existing damaged pipe C class G.I. pipe to correct line and level including providing all materials such as C class pipes and required fittings, carrying out necessary excavation, backfilling & ramming after testing etc. complete for 25 mm Dia.	15.00	M		
292	Providing and fixing 150mm dia PVC pipe sleeves	38.00	M		
293	Supplying and Fixing of Rain gutter with 160 mm dia PVC Pipe with all anchor arrangements with flats,clamps,hooks necessary fitting for fixing downtake pies etc complete and as directed by EIC	445.00	M		

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294	Providing and fixing of PVC pipe of Class-A (4 kg/cm ²) for down take for 50 mm dia. with necessary solvent, bends, sockets, elbows, shoe, holding clamps etc. complete. (Make-Supreme, Astral, Ashirvad, Finolex etc.)	308.00	M		
295	Providing and fixing of PVC pipe of Class-A (4 kg/cm ²) for down take for 75 mm dia. with necessary solvent, bends, sockets, elbows, shoe, holding clamps etc. complete. (Make-Supreme, Astral, Ashirvad, Finolex etc.)	260.00	M		
296	Providing and fixing on wall face unplasticised - Rigid PVC rainwater pipes conforming to IS: 13592 Type A including jointing with seal ring conforming to IS: 5382 leaving 10 mm gap for thermal expansion. Single socketed pipes including all fittings, clamps, spacer etc.. 110 mm dia	539.00	M		
297	Providing and fixing on wall face unplasticised - Rigid PVC rainwater pipes / gutter conforming to IS: 13592 Type A including jointing with seal ring conforming to IS: 5382 leaving 10 mm gap for thermal expansion. Single socketed pipes including all fittings, clamps, spacer etc.. 160 mm dia	323.00	M		
298	Providing and placing on terrace (at all floor levels) polyethylene water storage tank, ISI : 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank.	50000.00	Lit		
299	Cleaning of septic tank , including chambers with gully sucker & providing plumbing services including all required tools, tackles, materials & fixtures including loading, unloading & transportation up of sewerage to identified disposal site etc. complete.	77.00	EA		
300	Cleaning of choked sewage chambers by providing plumbing services including all required tools, tackles, materials & fixtures including loading, unloading & transportation up of sewerage to identified disposal site etc. complete as directed,	77.00	EA		
301	Cleaning of O/H water storage tank up to 1000 ltrs. i/c cleaning with potassium permanganate / bleaching powder and finally with clear water complete. (Rates quoted shall be for 1000 Liters, payment shall be made pro rata of the works executed)	77.00	EA		

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302	<p>"Supplying all materials, tools & plant and constructing 2500mm dia x 3000mm deep soak pit with dry bricks walling upto 2400mm height with fly ash brick work in cement mortar (1:6) for the remaining of 600mm height in wall at top,12mm thick C.P 1:3 in side and outside, inside filled with dry brick khoas size 40mm to 50mm and "Coarse Sand, top covered with 75mm thick RCC slab complete as per standard design. The rate includes earthwork excavation, backfilling the cavity around the pit, watering,curing,conveyance of all materials to wok site, royalty, taxes,etc all complete as per drawing, design and specification and as per direction of Engineer in charge</p>	7.00	EA		
303	<p>Providing and fixing double scaffolding system (cup lock type) on the exterior side, up to seven story height made with 40 mm dia M.S. tube 1.5 m centre to centre, horizontal & vertical tubes joining with cup & lock system with M.S. tubes, M.S. tube challies, M.S. clamps and M.S. staircase system in the scaffolding for working platform etc. and maintaining it in a serviceable condition for the required duration as approved and removing it there after .The scaffolding system shall be stiffened with bracings, runners, connection with the building etc. wherever required for inspection of work at required locations with essential safety features for the workmen etc. complete as per directions and approval of Engineering- charge .The elevational area of the scaffolding shall be measured for payment purpose .The payment will be made once irrespective of duration of scaffolding. As per the safety requirement indicated in the safety manual of Owner. Note: - This item to be executed for work to be done by other agency as per the requirement of Owner complete as directed.</p>	770.00	M2		
304	<p>Providing and fixing tarpaulin 200 GSM of high quality on roofing including all necessary material i.e. nylon / ppe ropes of adequate size and tools required for fixing of tarpaulin on existing Corrugated roof sheet (AC/ CGI)</p>	850.00	M2		
305	<p>Carefully opening the cracks in plaster, cleaning the cracks with electrical air blower/water & filling the cracks with polymer modified cementitious mortar in proportion 1:5:15 (i.e. Polymer: cement: well graded quartz sand by wt.) including polymer bonding coat & seal coat, curing etc. complete. Note: Width of cracks upto 6 mm and depth upto 20mm.</p>	285.00	M		

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306	Providing all materials, tools, tackles & services for Rehabilitation of RCC Structures as following a.) Repair damaged concrete members including stripping dilapidated and loose concrete, scrapping reinforcement with wire brush and cleaning the same with speciality chemicals(Rusticide SS) in one or more coats as per manufacturer's specifications. b.) Providing and applying speciality chemicals (Polyalk Fixoprime) in recommended proportions to steel bars & exposed concrete in one or more coats as per manufacturer's specifications. c.) Providing and applying speciality chemicals (Polyalk EP) in recommended proportions with 1:4 mortar with quartz sand in one or more coats for average thickness of 25 mm as per manufacturer's specifications etc. complete as directed.	390.00	M2		
307	Supplying, Providing and laying cement concrete screed of varying thickness (Min 25mm thick and maximum 125 mm thick) with 10mm down graded coarse aggregates over RCC surfaces at all heights, as shown on the drawings and as directed by the Engineer, for the following mixes: Grade of concrete M20. The rates quoted shall include cost of mixing approved waterproffing compound as manufacturers specification or as directed by EIC complete	230.00	M3		
308	Providing and fixing HDPE pipes conforming to IS 3076 in cable duct banks, openings in RCC work at all elevations of following sizes including cutting, fixing and levelling in position as per drawings, specifications all complete 150 mm NB	38.00	M		
309	Providing and fixing HDPE pipes conforming to IS 3076 in cable duct banks, openings in RCC work at all elevations of following sizes including cutting, fixing and levelling in position as per drawings, specifications all complete 200 mm NB	38.00	M		
310	Providing and fixing HDPE pipes conforming to IS 3076 in cable duct banks, openings in RCC work at all elevations of following sizes including cutting, fixing and levelling in position as per drawings, specifications all complete 250 mm NB	38.00	M		
311	Grouting of the bases of equipment / stanchions including anchor bolt pocket/ pipe sleeves etc. With premixed free flowing non-shrinking grout of the following strengths as per the manufacturer's instructions. Grout having a minimum strength of 30 N / mm ²	11.00	M3		

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312	Grouting of the bases of equipment / stanchions including anchor bolt pocket/ pipe sleeves etc. With premixed free flowing non-shrinking grout of the following strengths as per the manufacturer's instructions. Grout having a minimum strength of 45 N / mm ²	11.00	M3		
313	Providing and laying at or near ground level chamfer edge kerb stone (400mm length x 125mm wide 300mm height) of plain cement concrete - 1:2:4 in position to the required line, level and curvature, jointed with cement mortar 1:3 (1 cement: 3 coarse sand), including making joints with or without grooves (thickness of joints except at sharp curve shall not to more than 5mm), including making drainage opening wherever required complete etc. as per direction of Engineer-in-charge (length of finished kerb edging shall be measured for payment).	690.00	M		
314	Proving all equipment, tools and tackles and rendering services of Tree trimmer along with helper and consumables for trimming , pruning, cutting of branches required for lighting , safety purpose as per requirement at site complete as per direction of Owner.(The unit of per day is meant for 8 hours and it shall be paid judicially on pro-rata basis depending upon the quantum and duration of job but not less than 0.50 day)	145.00	D		
315	Proving all equipment, tools and tackles and rendering services of Tree Cutting along with obtaining necessary permission from statutory authorities including necessary disposal of branches, logs etc as guided by authorities. The rates quoted shall for trees of girth upto 2.00M and height upto 6M including necessary safety PPEs, consumables etc. complete. Pro rata measurement shall be considered for payment.	135.00	EA		
316	Proving all your equipment, tools and tackles and rendering services including consumables for welding of various steel works viz doors, windows, gates, partitions, grills etc., including hiring charges of welding machine with welder & helper, carriage etc. complete in all respect as directed by EIC. (The unit of per day is meant for 8 hours and it shall be paid judicially on pro-rata basis depending upon the quantum and duration of job but not less than 0.50 day)	77.00	D		

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317	Providing all your tools and tackles and rendering services of Electrician / Carpenter / Plumber along with helper and consumables for minor repairs i/c providing washers, thread, m seal, screws, nails, fevicol, fuse wire, insulation tape and T & P as per requirement at site complete as per requirement of Owner.(The unit of per day is meant for 8 hours and it shall be paid judicially on pro-rata basis depending upon the quantum and duration of job but not less than 0.50 day)	231.00	D		
318	Making core cuts in RCC wall/slab etc. up to 350mm Thickness 250 mm dia including removing debris and cleaning the area for all slush muck etc complete as directed by EIC	38.00	EA		
319	Supplying and Installation of Decal Sticker installed after work completion (base price 500)	190.00	EA		
320	Providing and fixing approved decorative wallpaper on gypsum partitions, walls with approved adhesive. Rate shall include preparation if surface and any wastage due to shape. (Base price Rs 700 / Sqm)	385.00	M2		
321	Providing and fixing 3d Acrylic letters of 200 mm for naming on wall with approved design and colour including all tool and tackles for fixing wtc. Complete as directed. It must have provision of led Glow system.	616.00	EA		
322	Transportation of Materials and Equipments with labour per day upto 30 km Tractor including necessary tools tackles loading unloading as directed by EIC complete	190.00	Trip		
323	Transportation of Materials and Equipments with labour per day upto 30 km Pickup including necessary tools tackles loading unloading as directed by EIC complete	190.00	Trip		
324	Extra for Transporation beyond 30 Km	6160.00	KM		
325	Providing and Fixing Wooden Panelling 350mm wide, using 12mm is: 710 grade green ply wood back side pasted 0.8mm & front side with 1mm Laminate as per approved Make , Shade & Pattern, down & upper edges of ply banded with 22/2mm edge-band and fixed with mirror screw. The rates quoted shall be inclusive of all tools , tackels, consumables hardware etc. complete as directed by EIC.	2156.00	M		

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326	<p>TURFING Landscaping area by providing Grass Sodds , rates quoted shall include supplying and placing of pure plantation soil free from organic matters of minmun 150 mm thickness with necessary manure below Grass plates.It also includes maintaining for six months along with manure and fertilizers if required. 30% payment shall be release after completion of maintainance period</p>	3080.00	M2		
327	Supply and fixing of 50 mm Pad lock 3 keys of good quality make Link/Godrej only.	770.00	EA		
328	Supply and fixing of 65 mm Pad lock 3 keys of good quality make Link/Godrej only.	385.00	EA		
ELECTRICAL ITEMS					
Panels DB Enclosures MCB					
329	Supplying and fixing following way prewired TP&N MCB distribution board of steel sheet for 415 volts on surface/ recess complete with loose wire box, terminal connectors for all incoming and outgoing circuits, duly prewired with suitable size FRLS PVC insulated copper conductor up to terminal blocks, tinned copper bus bar, neutral link, EArth bar, din bar, detachable gland plate, interconnections, powder painted including Earthing etc. as required.(But without MCB/ RCCB/ Isolator) 16 way (4 + 12), Double door GE Power, or ABB, L&T, Siemens, Schneider or equivalent make MCB Cost will be extra not included in DB Cost	46.00	EA		
330	Supplying and fixing following way prewired SP&N MCB distribution board of steel sheet for 240 volts on surface/ recess complete with loose wire box, terminal connectors for all incoming and outgoing circuits, duly prewired with suitable size FRLS PVC insulated copper conductor up to terminal blocks, tinned copper GE Power, or ABB, L&T, Siemens, Schneider or equivalent make bus bar, neutral link, earth bar, din bar, detachable gland plate, interconnections, powder painted including Earthing etc. as required. (But without MCB/ RCCB/ Isolator) 8 way, Double door MCB Cost will be extra not included in DB Cost	115.00	EA		
331	Providing and fixing following rating and braking capacity and 4 pole MCCB in existing cubicle panel board including drilling holes in cubicle panel, making connections, etc. as required. 200 Amp, 35 kA,TPMCCB	46.00	EA		

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332	Supplying and fixing following rating, four pole, (three phase and neutral), 415 volts, MCB or residual current circuit breaker (RCCB), of Havells, Schneider , or equivalent make having a sensitivity current upto 30 milli amperes in the existing MCB DB complete with connections, testing and commissioning etc. as required. 63 amps	46.00	EA		
333	Supplying and fixing following rating, four pole, (three phase and neutral), 415 volts, MCB or residual current circuit breaker (RCCB), of Havells, Schneider , or equivalent make having a sensitivity current upto 30 milli amperes in the existing MCB DB complete with connections, testing and commissioning etc. as required. 100 amps	30.00	EA		
334	Supplying and fixing following rating, double pole, (single phase and neutral), 240 volts, residual current circuit breaker (RCCB), having a sensitivity current upto 30 mill amperes in the existing MCB DB complete with connections, testing and commissioning etc. as required. 63 amps	177.00	EA		
335	Supplying and fixing 6 amps to 16 amps rating, 240/415 volts, "C" curve, miniature circuit breaker of Havells, Schneider , or equivalent make, suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required. Single pole	1155.00	EA		
336	Supplying and fixing 25 amps to 63 amps rating, 240/415 volts, "C" curve, miniature circuit breaker of Havells, Schneider , or equivalent make, suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required. Single pole	860.00	EA		
337	Supplying and fixing TP sheet steel enclosure on surface/ recessed along with 16/25/32amps 415 volts "C" curve DP MCB complete with connections, testing and commissioning etc. as required.	15.00	EA		
338	INDUSTRIAL SOCKET OUTLETS (25/32A DPMCB) Supply, installation, testing & commissioning of industrial type plug and socket outlet with SP/TPN MCB (10 KA motor duty) mounted on a sheet steel enclosure including termination, Earthing etc. as required . (b) Supply and fising of 25/32 Amp DP MCB (C series) of approved make in MS enclosure With Male female Socket and Plug	23.00	EA		
339	Supply Installation Testing Commissioning of Auto/Manual 3 phase Change over switch (40/63/100) Amp with Enclosure Box and cable termination as per site requirement	231.00	EA		

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340	Supply Installation Testing Commissioning of 3 phase Auto/Manual Change over switch (150/200/250) Amp with Enclosure Box and cable termination as per site requirement	154.00	EA		
341	Supply Installation Testing Commissioning of Single Phase Control Panel with Push button and Starter and capacitor with MCB and Enclosure Box Voltmeter and Ammeter for Water Pump or DG etc.	47.00	EA		
Switch Boards & Switch and Sockets					
342	Providing and fixing 02 to 04 modular Switch boards with required Switch & Socket of Anchor (Roma series), Havells (Oro series), MK Switches (Ivory), Legrand (Myrius White) or equivalent make required to cater all the light points, luminary, AC, TV scenes and all other electrical fixture. including all other accessories required to complete the job in all respect and as directed by engineer-in-charge.	1925.00	EA		
343	Providing and fixing 06 to 08 modular Switch boards with required Switch & Socket of Anchor (Roma series), Havells (Oro series), MK Switches (Ivory), Legrand (Myrius White) or equivalent make required to cater all the light points, luminary, AC, TV scenes and all other electrical fixture. including all other accessories required to complete the job in all respect and as directed by engineer-in-charge.	1463.00	EA		
344	Providing and fixing 09 to 11 modular Switch boards with required Switch & Socket of Anchor (Roma series), Havells (Oro series), MK Switches (Ivory), Legrand (Myrius White) or equivalent make required to cater all the light points, luminary, AC, TV scenes and all other electrical fixture. including all other accessories required to complete the job in all respect and as directed by engineer-in-charge.	116.00	EA		
345	Providing and fixing 12 to 16 modular Switch boards with required Switch & Socket of Anchor (Roma series), Havells (Oro series), MK Switches (Ivory), Legrand (Myrius White) or equivalent make required to cater all the light points, luminary, AC, TV scenes and all other electrical fixture. including all other accessories required to complete the job in all respect and as directed by engineer-in-charge.	246.00	EA		
346	Supplying and fixing following piano type switch/ socket of Anchor (Roma series), Havells (Oro series), MK Switches (Ivory), Legrand (Myrius White) or equivalent make on the existing switch box/ cover including connections etc. as required. 5/6 amps switch as directed by EIC.	95.00	EA		

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347	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required. 5/6 amps switch	3850.00	EA		
348	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required. 15/16 amp switch	963.00	EA		
349	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required. 3 pin 5/6 amp socket outlet	3326.00	EA		
350	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required. 5 pin 15/16 amp socket outlet	955.00	EA		
351	Supply, and fixing 3-Plug Pin for AC 16/25A (Anchor, Havells, MK Switches Legrand)	393.00	EA		
352	Supplying and fixing of 25/32 Amp. AC Stater Switch with green and Red Button 2 model suitable to be installed In Switch Board	293.00	EA		
353	Supplying and Fixing of 20 Amp. Socket & Switch to be installed In Switch Board	146.00	EA		
	Light Fittings				
354	supply and fixing of 2'x2' led luminair of Bajaj (series: skylite, 36x1wclass led), or equivalent including driver circuit and all associated accessories job to be completed in all respect as directed by engineer in-charge.	50.00	EA		
355	supply and fixing of linear Led tubelight (12 w)of Bajaj or equivalent make including driver circuit and all associated accessories job to be completed in all respect etc. as directed by eic Wipro havells Philips	245.00	EA		
356	supply and fixing of linear Led tubelight (20 w)of Bajaj or equivalent make including driver circuit and all associated accessories job to be completed in all respect etc. as directed by eic Wipro havells Philips	1930.00	EA		
357	supply and fixing of linear LED tubelight (30w)of Bajaj or equivalent make including driver circuit and all associated accessories job to be completed in all respect etc. as directed by eic Wipro havells Philips	435.00	EA		
358	Supply, storing, fixing, assembling, testing and commissioning of following light fixtures (Recessed/ surface/Wall mounted) Supply, Installation of Philips bulk head light fittings of including 11 watt CFL lamp with Holder.	485.00	EA		

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359	Supply,fixing, assembling, testing and commissioning of following light fixtures 9 watt LED lamp with Holder.	160.00	EA		
360	supply and fixing of Led DOWN Lighter ceiling Mounted (18W) of Bajaj or equivalent including driver circuit and all associated accessories job to be completed in all respect. Wipro havelis Philips	145.00	EA		
361	Providing, Installing, Testing and commissioning of Led down Lighter (15 watt) Bajaj, Wipro, Phillips, or equivalent make including all necessary hardware, fittings etc. Job to be complete in all respect as directed by engineer-in-charge. 150mm dia Circular Recessed- 15 watts	430.00	EA		
362	supply and fixing of Led DOWN Lighter ceiling Mounted (9W) of Bajaj or equivalent including driver circuit and all associated accessories job to be completed in all respect. Wipro havelis Philips	90.00	EA		
363	supply and fixing of Led DOWN Lighter ceiling Mounted (3W) of Bajaj or equivalent including driver circuit and all associated accessories job to be completed in all respect. Wipro havelis Philips	245.00	EA		
364	supply and fixing of Led DOWN Lighter ceiling Mounted (2W) spots of Bajaj or equivalent including driver circuit and all associated accessories job to be completed in all respect. Wipro havelis Philips	154.00	EA		
365	Supplying & Installation of Outdoor lighting fittings/ fixtures complete with special electronics low loss ballast/ lumilux tube/ lamp/ condenser/ starter /louvers/ reflector/cover etc. complete as required:- Recessed mounted fitting with 1 x 12 Watt, LED Light (Make:- Philips CAT No. DN192B-LED9S-6500 PSU WH) Bulk head for out door Lights	100.00	EA		
366	Supplying and Installing Decorative pendent Lamp - Supply and fixing in position pendent luminair as approved-	30.00	EA		
367	Supply & Fixing decorative Gate Lamp including cable & switches complete in all aspect.	77.00	EA		
368	Recessed type 8 ft, minimum 5400 lumen Supplying of lighting fittings/fixtures complete with special electronics low loss ballast/ lumilux tube/ lamp/condenser/ starter/louvers/reflector/cover etc. complete as required. Supply of suspended type 8 ft, minimum 5400 lumens LED light fitting with continuous interconnection feature, complete as required,, (Regent Slash 28W or Equivalent),,, Complete with suspension arrangement & clamps etc.	19.00	EA		

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369	Supplying & Fixing LED street Light 60 Watt with bend pipe, clamps in all aspect as per direction of engineer in charge	77.00	EA		
370	Supplying and Fixing of Flood light of Philips Out door type 100 watt LED street light fittings of Philips including fixing clamp ,accessories like clamps, bolt, nut etc. with testing and commissioning in all respect.	61.00	EA		
371	Supplying and Fixing of Flood light of Philips Out door type 150 watt LED street light fittings of Philips including fixing clamp ,accessories like clamps, bolt, nut etc. with testing and commissioning in all respect.	46.00	EA		
372	Supplying and Fixing of Flood light of Philips Out door type 200 watt LED street light fittings of Philips including fixing clamp ,accessories like clamps, bolt, nut etc. with testing and commissioning in all respect.	30.00	EA		
373	Supplying and Installation testing and Commissioning Wall or floor Mountable Focus LED light	15.00	EA		
374	Supplying and Installation testing and Commissioning Ceiling Mountable Profile LED Light 8 FT Long with chowk and required accessories	38.00	EA		
375	Supplying and Installation testing and Commissioning of Outdoor type strip light of 5-6 watt per/metre including all driver,adhesive and all required accessories etc complete Make:-Century(Magik) or Equivalent	770.00	M		
EARTHING System					
376	Supply, laying & fixing of following sizes of Cu/GI wire clamped to walls, cable trays etc. for equipment/ System Earthing complete as required including inter connection between length at joints, all fixing accessories saddles, clamps etc. and other fixing hardware material as required for proper installation.8 SWG CU Wire	950.00	M		
377	SITC Earthing with G.I. earth pipe 3 metre long, 40 mm dia including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. with charcoal/ coke and salt as required. Earthing Chamber 400 x 600 mm to be done with brick work and plastering and RCC Chamber cover to be provided	8.00	EA		
378	SITC Earthing with G.I. earth plate 600 mm X 600 mm X 6 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 metre long etc. with charcoal/ coke and salt as required. Earthing Chamber 400 x 600 mm to be done with brick work and plastering and RCC Chamber cover to be provided	8.00	EA		

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379	SITC Earthing with copper earth plate 600 mm X 600 mm X 3 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 metre long etc. with charcoal/ coke and salt as required. Earthing Chamber 400 x 600 mm to be done with brick work and plastering and RCC Chamber cover to be provided	8.00	EA		
380	Supply, Installation, Testing & Commissioning of Advance Maintenance Free Chemical Earthing System of 10 feet length, 63mm dia, 2 mm thick electrolytic grade copper tube duly filled with conducting chemicals with the permanent sealings at the both the ends with the lead terminal at the top along with 50 Kgs a chemical GEM to retain the life span of 15 years with the heavy duty poly plastic earth pit cover. The chemical earthing system should be fabricated with Earthing electrode and back fill compound which has the capability to enhance the ground connectivity. The connectivity should be extended to the place of equipment through the copper strip which will be buried under ground. The specification of the electrode are as under a) Electrode should be 3 meter long 63mm thick in diameter =0 1 no B) Should be made of galvanised steel (90-100) microns with pipe in pipe technology C) Annular space filled with high conductive and anti corrosive with high conductive and anti corrosive crystalline conductive mixture D) Should be strong and corrosion resistant E) Manufactured in accordance with PS 3043-1987 (Code of practice o fearthing) F) Electrode should be dug in ground Sralong with soil friendly, moisture retaining back fill compound which has capability to enhance ground conductivity (min 125Kg of back fill compound for Earthing system) G) The result should be below 1 Ohm in any case . Earthing Chamber 400 x 600 mm to be done with brick work and plastering and RCC Chamber cover to be provided	8.00	EA		
Industrial Fans, Ceiling Fan & Exhaust Fan		0.00			
381	Supplying and Installing of 240v Wall Mounted hanging & Moving Fan 400 mm dia with all accessories and arrangements for installation of Baja, Havels, Crompton make	385.00	EA		
382	Supplying and Fixing of Fan Box with 16 mm dia GI hook in ceiling Roof	77.00	EA		

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383	Supply, storing, fixing, assembling, testing and commissioning of following Ceiling fans complete with down rods, chain hangers, lamps, power factor improvement capacitors, ballasts etc. and all necessary accessories complete as required. 1200 MM 240v Single phase Bajaj, Crompton and Havells make	462.00	EA		
384	Supplying and fixing of 250 mm dia exhaust fan with louvers and bird screen of PVC body in existing opening with 900 rpm (Approved make) of 250 mm dia .	77.00	EA		
385	Supplying and fixing of exhaust fan with louvers and bird screen of PVC body in existing opening with 900 rpm (Approved make) b) 305 mm dia	62.00	EA		
386	Supplying and fixing of 305 mm dia exhaust fan with louvers and bird screen of MS body in existing opening with 1400 rpm (Approved make) of 305 mm dia	77.00	EA		
Point wirrings & Conduit, Race way, Cable trays					
387	Supply and Installation of Wiring for light point/ fan point/ exhaust fan point/ call bell point with surface / recessed medium class PVC/Casing conduit With Accessories (ceiling rose/top pvc plate) & suitable Consil GI box/Pvc Box and Bends saddling and 2,3,4- way Junction box etc. and make require concrete/wall chiselling for consil and plastering of the same. Looping wire to be Included in point wiring as 2-3 no.s of light operating from single switch	1925.00	EA		
388	Supply and Installation of Wiring for Power point / AC point/ Aquaguard/ Fridge/ TV/ Printer etc. with surface / recessed medium class PVC/Casing conduit With Accessories (ceiling rose/top pvc plate) & suitable Consil GI box/Pvc Box and Bends saddling and 2,3,4- way Junction box etc. and make require concrete/wall chiselling for consil and plastering of the same. (Single Power point controlled by a 6/16 Amps modular type switch & Sockets). Wire not included	462.00	EA		
389	Providing and Fixing PVC Casing Capping of Havells, Anchor or equivalent make fixed with appropriate size screw at line & level as instructed by Engineer-In-Charge. Size: 20-25MM.	385.00	M		
390	Supplying and fixing of following sizes of medium class LMS PVC conduit along with accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required. 20 mm	7700.00	M		
391	Supplying and fixing of following sizes of medium class LMS PVC conduit along with accessories in surface/recess including cutting the wall and making	15400.00	M		

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	good the same in case of recessed conduit as required. 25 mm				
392	Supplying and fixing of following sizes of medium class HMS PVC conduit along with accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required. 25 mm	2310.00	M		
393	Supplying and fixing of following sizes of medium class GI conduit of Precession or equivalent make along with accessories JBs in surface/recess including cutting the wall and making good the same in case of recessed conduit as required. Upto 25 mm	77.00	M		
394	Supply & laying of aluminium /GI floor race way of size 100X40 mm embeded in floor including cutting of PCC & cover the same with semi finish	154.00	M		
395	Supply & laying of aluminium /GI floor race way of size 100X50 mm embeded in floor including cutting of PCC & cover the same with semi finish	770.00	M		
396	Providing and laying aluminium race ways of required width (80mm X 30mm) in floor including cutting of PCC & cover the same with semi finish	385.00	M		
397	S & I of floor junction boxes with top cover for above raceways Junction Box of size 300mm x 300mm x 50mm x 2mm 200x200x 2 mm thick , 150 x 150 x 2 mm thick fabricated out of M.S. sheets fully powder coated with removable screwed cover plates on all four sides for blocking the entry, including all tools and tackles etc. complete as directed.	770.00	EA		
398	Supplying and Fixing of GI Perforated Cable tray of 300 mm with all necessary accessories support coppler pati and Tray cover nut bolting arrangement and anchoring channel patti fixing entire fabrication work for cable laying	77.00	M		
399	Supplying and Fixing of GI Perforated Cable tray of 150 mm with all necessary accessories support coppler pati and Tray cover nut bolting arrangement and anchoring channel patti fixing entire fabrication work for cable laying	77.00	M		
400	Supplying and Fixing of GI Perforated Cable tray of 100 mm with all necessary accessories support coppler pati and Tray cover nut bolting arrangement and anchoring channel patti fixing entire fabrication work for cable laying	77.00	M		

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401	Supplying and Fixing of GI Perforated Cable tray of 450 mm with all necessary accessories support coppler pati and Tray cover nut bolting arrangement and anchoring channel patti fixing entire fabrication work for cable laying	77.00	M		
402	Supplying & Fixing of ceiling rose and pvc box for Tube light fitting arrangements	238.00	EA		
403	3R X 1.5 Sqm copper flexible wire for Lighting Point wiring	11473.00	M		
404	3R X 2.5 Sqm copper flexible wire for Power Point wiring	14290.00	M		
405	3R X 4 Sqm copper flexible wire for AC Point wirring	2940.00	M		
406	3R X 6 Sqm copper flexible wire for AC Point wirring 2 TON AC	2100.00	M		
407	Providing and fixing 3 core 2.5 Sqmm flat cable for Submersible pump of Finolex / Havells / Polycab make.	138.00	M		
408	6 Sqm x 1 core copper flexible PVC Insulated	808.00	M		
409	10 Sqm x 1 core copper flexible PVC Insulated	677.00	M		
410	6 SQMM X 4 CORE Copper Armoured XLPE 2XWY Cable	138.00	M		
411	10 SQMM X 4 CORE Copper Armoured XLPE 2XWY Cable	338.00	M		
412	16 SQMM X 4 CORE Copper Armoured XLPE 2XWY Cable	100.00	M		
413	25 SQMM X 4 CORE Copper Armoured XLPE 2XWY Cable	431.00	M		
414	35 SQMM X 4 CORE Copper Armoured XLPE 2XWY Cable	246.00	M		
415	06 SQMM X 4 CORE Aluminium Armoured XLPE A2XFY Cable	254.00	M		
416	10 SQMM X 4 CORE Aluminium Armoured XLPE A2XFY Cable	215.00	M		
417	16 SQMM X 4 CORE Aluminium Armoured XLPE A2XFY Cable	238.00	M		
418	25 SQMM X 4 CORE Aluminium Armoured XLPE A2XFY Cable	315.00	M		
419	35 SQMM X 4 CORE Aluminium Armoured XLPE A2XFY Cable	338.00	M		
420	50 SQMM X 4 CORE Aluminium Armoured XLPE A2XFY Cable	438.00	M		
421	70 SQMM X 4 CORE Aluminium Armoured XLPE A2XFY Cable	215.00	M		
422	95 SQMM X 4 CORE Aluminium Armoured XLPE A2XFY Cable	177.00	M		
423	120 SQMM X 4 CORE Aluminium Armoured XLPE A2XFY Cable	238.00	M		
424	150 SQMM X 4 CORE Aluminium Armoured XLPE A2XFY Cable	146.00	M		
425	185 SQMM X 4 CORE Aluminium Armoured XLPE A2XFY Cable	146.00	M		
426	300 SQMM X 4 CORE Aluminium Armoured XLPE A2XFY	161.00	M		

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	Cable				
427	Cable and wire End termination & complete connection in db/mcbs with required lugs, Brass gland or PVC gland. DB dressing with cable tie, cable tag as per site requirement and Engineer Incharge Instruction Supplying and Installation the entire activities type of job- Small (Providing Brass or PVC Gland, Lugs Copper & Alluminum & Coonection of All wire in DBs. Cable routing and dressing inside DB) This JOB will be considered for upto 2 DBs Like section office or Sub division office	118.00	EA		
428	Cable and wire End termination & complete connection in db/mcbs with required lugs, Brass gland or PVC gland. DB dressing with cable tie, cable tag as per site requirement and Engineer Incharge Instruction Supplying and Installation the entire activities type of job- Medium (Providing Brass or PVC Gland, Lugs Copper & Alluminum & Coonection of All wire in DBs. Cable routing and dressing inside DB) This JOB will be considered for upto 4 DBs Like circle office or division office	73.00	EA		
429	Cable and wire End termination & complete connection in db/mcbs with required lugs, Brass gland or PVC gland. DB dressing with cable tie, cable tag as per site requirement and Engineer Incharge Instruction Supplying and Installation the entire activities type of job- High (Providing Brass or PVC Gland, Lugs Copper & Alluminum & Coonection of All wire in DBs. Cable routing and dressing inside DB) This JOB will be considered for upto 6 DBs WITH Panel Like Corporate offices or New Buildings office	26.00	EA		
Data & Fire Alarm and LV System					
430	Supplying, Installation, Testing and Commissioning of Automatic mechanically operated Motion sensor of 4-6 meters radie at ceiling and effective terminal connections of this with Concerned Light fittings and other Equipment as per Requirement and drawings.	123.00	EA		
431	Supply, Installation, Testing and Commissioning of Optical/ionization/Heat -Type Fire & Smoke detectors as per IS 2189. Approved Make : System sensor / Apollo / Edward	115.00	EA		
432	Supply, Installation, Testing and Commissioning of Manual Call box made out of 16 SWG CRCA sheet with chain and hammer as per IS 2189 Approved Make : System sensor / Apollo / Edward / Agni Suraksha	34.00	EA		

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433	Supply, Installation, Testing and Commissioning of (Medium Intensity) Electronic Hooters made out of 16 SWG CRCA sheet with (P.O. Red) colour powder coating as per IS 2189 Approved Make : System sensor / Apollo / Edward / Agni Suraksha	34.00	EA		
434	Supply, Installation, Testing and Commissioning of Response indicator as per IS 2189 Approved Make : System sensor / Apollo / Edward / Agni Suraksha	100.00	EA		
435	Supply, Installation, Testing and Commissioning of 4 zone fire alarm repeater Panel Approved Make : System sensor / Apollo / Edward / Agni Suraksha	15.00	EA		
436	SITC of wall mounted type 10 Zone Micro Processor based fire alarm panel with made of 16 SWG CRCA sheet, Confirm to IS 2189, Zone wise fire fault LED indication, Zone isolation facility, main on , charger on, system on , visual indication, external s/w for reset, silence, lamp test, inbuilt buzzer, LCD display, inbuilt battery charger & battery, potential free contact facility. The system should be SCADA integrated . Approved Make : Honeywell / Agni Suraksha (Data Takex) / System Sensor with required accessories as per TPDDL specifications.	15.00	EA		
437	Supply , Installation, Testing and Commissioning of 2X1.5 mm Core / Armored FRLS cable Red colored (ISI Marked) (Red Colored) Approved Make : Gloster, Polycab	1380.00	M		
438	Supply, installation, testing & commissioning of water pump set suitable to operate on 1 phase or 3 phase, 230V, AC stater, cable and all accessories etc. complete for supplying water at suitable discharge and head as per site requirements. MAKE - Crompton, Kirloskar or similar 1 HP	11.00	EA		
439	Supply, installation, testing & commissioning of water pump set suitable to operate on 1 phase or 3 phase, 230V, AC stater, cable and all accessories etc. complete for supplying water at suitable discharge and head as per site requirements. MAKE - Crompton, Kirloskar or similar 1.5 HP	10.00	EA		
440	Supply, installation, testing & commissioning of water pump set suitable to operate on 1 phase or 3 phase, 230V, AC stater, cable and all accessories etc. complete for supplying water at suitable discharge and head as per site requirements. MAKE - Crompton, Kirloskar or similar 2 HP	7.00	EA		

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441	Supplying, installing, testing and commissioning required stage, submersible centrifugal pumps of closed coupled construction with CI body & cast iron (C.I) impeller connected to a fully submersible water/oil cooled motor suitable to operate with 380-415 volts Single phase 50 cycles AC power supply with class F insulation and built - in temperature protection, pump connector unit with rubber diaphragm & bend, vertical discharge pipe, guide pipe, stainless steel chain/rope, water -proof power cable and level controller complete in all respects for fixed installation. 1 HP	11.00	EA		
442	Supplying, installing, testing and commissioning required stage, submersible centrifugal pumps of closed coupled construction with CI body & cast iron (C.I) impeller connected to a fully submersible water/oil cooled motor suitable to operate with 380-415 volts Single phase 50 cycles AC power supply with class F insulation and built - in temperature protection, pump connector unit with rubber diaphragm & bend, vertical discharge pipe, guide pipe, stainless steel chain/rope, water -proof power cable and level controller complete in all respects for fixed installation. 1.5 HP	10.00	EA		
443	Supplying, installing, testing and commissioning required stage, submersible centrifugal pumps of closed coupled construction with CI body & cast iron (C.I) impeller connected to a fully submersible water/oil cooled motor suitable to operate with 380-415 volts 3 phase 50 cycles AC power supply with class F insulation and built -in temperature protection, pump connector unit with rubber diaphragm & bend, vertical discharge pipe, guide pipe, stainless steel chain/rope, water -proof power cable and level controller complete in all respects for fixed installation. 1 HP	9.00	EA		
444	Supplying, installing, testing and commissioning required stage, submersible centrifugal pumps of closed coupled construction with CI body & cast iron (C.I) impeller connected to a fully submersible water/oil cooled motor suitable to operate with 380-415 volts 3 phase 50 cycles AC power supply with class F insulation and built -in temperature protection, pump connector unit with rubber diaphragm & bend, vertical discharge pipe, guide pipe, stainless steel chain/rope, water -proof power cable and level controller complete in all respects for fixed installation. 1.5 HP	9.00	EA		

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445	Supplying, installing, testing and commissioning of required stage, submersible centrifugal pumps of closed coupled construction with CI body & cast iron (C.I) impeller connected to a fully submersible water/oil cooled motor suitable to operate with 380-415 volts 3 phase 50 cycles AC power supply with class F insulation and built -in temperature protection, pump connector unit with rubber diaphragm & bend, vertical discharge pipe, guide pipe, stainless steel chain/rope, water -proof power cable and level controller complete in all respects for fixed installation. 2 HP	4.00	EA		
446	Boring with 100 mm dia casing pipe for hand pump/ tube well in all soils except ordinary hard rocks requiring blasting including removing the casing pipe after the hand pipe/tube well is lowered and tested : Beyond 18 m and upto 24 m depth.	7.00	M		
447	Boring with 100 mm dia casing pipe for hand pump/ tube well in all soils except ordinary hard rocks requiring blasting including removing the casing pipe after the hand pipe/tube well is lowered and tested : Beyond 24 m and upto 30 m depth.	154.00	M		
448	Boring with 100 mm dia casing pipe for hand pump/ tube well in all soils except ordinary hard rocks requiring blasting including removing the casing pipe after the hand pipe/tube well is lowered and tested : Beyond 30 m depth.	207.00	M		
449	Taking out the existing defective submersible pump & motor from the existing bore and lowering the same in existing bore after necessary repairs i/c arrangement for all T & P, labour required for the job per direction of E-in-charge	30.00	EA		
450	Repair and Rewinding of submersible pump / motor up to 1.5 HP of any make i/c taking to workshop and back and rewinding, changing bearings / bushes, alignment of shaft, oiling, greasing, changing packings/seals as per requirement complete.	30.00	EA		
451	Repair and rewinding of Jet Pumpset up to 1.00 HP including rewinding, changing bearings/bushes, alignment of shaft, oiling, greasing, changing packings/seals, to & fro carriage of workshop and dismantling/refixing at site complete as per requirement.	30.00	EA		

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452	Providing and laying Mangalore roof tiles(clay tiles) including valley and ridges, in all colours and shades, laid on 75mm thick cement mortar 1:4 (1 cement : 4 coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm in proper line and level plumb etc., complete. as per direction of EIC. The rate shall include painting with two coats of terracotta or required shade of exterior Paint.	10.00	M2		
453	Supplying and Installation testing and Commissioning of Indoor type strip light of 5-6 watt per/metre including all driver, adhesive and all required accessories etc complete Make:-Century(Magik) or Equivalent	100.00	M		
454	Supply, installation, testing and commissioning of Commercial Water Purifier RO+UV+UF+TDS Controller with 50 litres/hr purification capacity , I.S.I marked, inlet float valve with all plumbing & electrical accessories, inlet, outlet, overflow and PVC drain out connection complete as required. Make Kent/Eureka Forbes or Equivalent as per direction of EIC.	1.00	EA		
455	Supply,installation,testing and commissioning of Commercial Water Purifier RO+UV+UF+TDS Controller with 100 litres/hr purification capacity , I.S.I marked,Stainless Steel body, inlet float valve with all plumbing & electrical accessories, inlet, outlet, overflow and PVC drain out connection complete as required. Make Kent/Eureka Forbes or Equivalent as per direction of EIC.	1.00	EA		
456	Supply,installation,testing and commissioning of Commercial Water cooler with dispenser Hot and Cold 80 L storage capacity Stainless Steel 2 Faucets inlet float valve with all plumbing & electrical accessories, inlet, outlet, overflow and PVC drain out connection complete as required. Make Blue Star/Voltas or Equivalent as per direction of EIC.	10.00	EA		
457	Supply,installation,testing and commissioning of Water cooler with dispenser 20 L storage capacity Stainless Steel single Faucet inlet float valve with all plumbing & electrical accessories, inlet, outlet, overflow and PVC drain out connection complete as required. Make Blue Star/Voltas or Equivalent as per direction of EIC.	10.00	EA		
458	Providing & laying Epoxy flooring by surface coating made by mixing resin and hardener, creating a strong, seamless, and glossy finish of thickness 3 to 4 mm.The rates quoted shall include necessary levelling cleaning and preparing surface for receiving Epoxy floor, necessary consumables, tools tackels, transportation, loading unloading etc at all levels. Make:-Aditya Birla,Resil Chemicals,Rolox or Equivalent complete as	95.00	M2		

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	per direction of EIC.				
459	Supply and fixing of Led DOWN Lighter ceiling Mounted (6W) of Century or equivalent including driver circuit and all associated accessories job to be completed in all respect.	10.00	EA		
460	SUPPLYING AND FIXING factory made U-PVC glass partition (white colour) made out of superior quality UPVC hollow profile frame (53x45 mm) with wall thickness 2.5mm., duly reinforced with 1.5mm thick GI C - section 25mmx12mm. ALL corner and joints should be fusion welded. the glazing should be 5mm reflective toughened glazing of approved shade with upvc snap fed beading, EPDM weather sealed gasket, brush and interlock. Fixing the same to wall by adequate nos of 100mmx8mm dia fastner and gap filling by white silicone adhesive. (Make: Fenesta/Iconish/Saint Gobain/Prominace or equivalent)	7.438	M2		
WATER PROOFING					
461	Remove exs finishes (Mmbrane / Tarfelt). 1)Removing existing finishes (Membrane / Tarfelt). Preparing & Cleaning the surface of the slab- Roughened b\ scrapping; surface shall be well cleaned of all loose particles, Laitance, moss oil/greasy material, cement etc. complete as directed & approved	700	M2		
462	Providing and Laying APP (Atactic Polypropylene Polymer) modified prefabricated five-layer 3mm thick waterproofing membrane, black finished reinforced with non-woven polyster matt consisting of a coat of bitumen primer for bitumen membrane @ 0.40 litre / sqm by the same membrane manufacture of density at 25 degree celceous 0.87 - 0.89 kg/liter and viscosity 70 - 160 cps. over the primer coat the layer of membrane shall be as under : joint strength in sqm longitudinal and transverse direction at 23 degree celceous as 300/250 N. softening point of memberane not less than 150 degree celceous. cold flexibility shall be up to -2 degree celceous when listen in accordance with ASTM, D-5147. The laying of membrane shall be got done through the authorised applocator of the manufacture of membrane : 3mm thick including P/A silver shield bituminious alluminious coating	1000	M2		
Sub Total Exclusive of GST					
GST					
Grand Total Inclusive of GST					

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ANNEXURE II

Attached Separately

MAKE LIST FOR DIFFERENT ITEMS and FQP

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ANNEXURE III

Schedule of Deviations

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

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

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

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

Seal of the Bidder:

Signature:

Name:

ANNEXURE IV

Schedule of Commercial Specifications

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

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

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ANNEXURE V

Checklist of all the documents to be submitted with the Bid

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

S. No.	Documents attached	Yes / No / Not Applicable
1	EMD of required value	
2	Tender Fee as mentioned in this RFQ	
3	Company profile/ organogram	
4	Signed copy of this RFQ as an unconditional acceptance	
5	Duly filled schedule of commercial specifications (Annexure IV)	
6	Sheet of commercial/ technical deviation if any (Annexure III)	
7	Balance sheet for the last completed three financial years; mandatorily enclosing Profit & loss account statement	
8	Acknowledgement for Testing facilities if available (duly mentioned on bidder letter head)	
9	List of Machine/ tools with updated calibration certificates if applicable	
10	Details of order copy (duly mentioned on bidder letter head)	
11	Order copies as a proof of quantity executed	
12	Details of Type Tests if applicable (duly mentioned on bidder letter head)	
13	All the relevant Type test certificates as per relevant IS/ IEC (CPRI/ ERDA/ other certified agency) if applicable	
14	Project/ Supply Completion certificates	
15	Performance certificates	
16	Client Testimonial/ Performance Certificates	
17	Credit rating/ Solvency certificate	
18	Undertaking regarding non blacklisting (On company letter head)	
19	List of trained/ Untrained Manpower	

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Annexure VI**Acceptance Form for Participation In Reverse Auction Event**

(To be signed and stamped by the bidder)

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

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

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

Signature & Seal of the Bidder

Annexure VII

Commercial Terms & Conditions Attached Separately.

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CONSTRUCTION MATERIALS FOR TPWODL					
Make List for Civil and Structural Works					
SN	Item	Product / Series	Brand	Description	Location
A	Walls				
1	Masonry	Flyash blocks	As per approval of EIC	190 thick	exterior masonry walls
2	Masonry	Flyash blocks	As per approval of EIC	110 thick	interior masonry walls
3	Masonry	Brick work	IS Code	230 thick	exterior/ interior masonry walls
B	Flooring				
1	Paver Blocks	Paver Blocks/ Grass Paver	ISI Marked or approved by Engineer in Charge.	200 x 200 mm, 225 x 200 mm, 275 x 200 mm, 325 x 200 mm Available in 60 mm thickness & 300 x 300 mm Paver Blocks/ Grass Paver	Site: moderate to light vehicle movement area (other than transformer movement area)
2	Bitumen / Fibre reinforced concrete pavement				Site: heavy vehicle movement area
3	Vitrified Tiles	Nitco Cosmic Ultra Charge ----- Kajaria gres Neptune, Kajaria London gris	Johnson,RAK,Nitco Kajaria, Somany,GC CERA	10 mm thick 600 x 600 mm Glossy Finish ----- 10 mm thick 600 x 600 mm, Matt Finish Double Charge/Digital.	Office Area, remaining areas ----- canteen
4	Ceramic Tiles		Johnson,RAK,Nitco Kajaria, Somany,GC CERA		
5	Acid Alkali Resistant Tile	Johnson Endura	Johnson,RAK,Nitco Kajaria, Somany,GC CERA	Minimum 15 mm thick 300 x 300 mm Ivory Color,	Battery room, battery charger room
6	False / Raised flooring	Standard Raised Access Flooring System (USF 1200-HPL 8194)	Unitile, Everest	Standard Raised Access False / Raise flooring, 300 to 600 high	Panel room, control room Or as per equipment requirement
7	Anti-Skid Vitrified Tiles	Nitco Eternity Kajaria Fog bronze, Egypto Brown	Johnson,RAK,Nitco Kajaria, Somany	10 mm thick 600 x 600 mm	Washroom Area, areas prone to water spill
8	Heavy duty flooring		As per approval of EIC	50 mm thk granolithic flooring with Non metallic floor hardener	GIS hall, Cables cellar, pump room
9	Granite		Sierra white, black,Indian Arrora		Lobby Staircase: Treads landings mid- landing
10	Water proofing		Asianpaints,Berger,Dr Fixit,Sika,Fosroc.	elastomeric membrane based waterproofing with high SRI material protective layer	Terrace
11	False Ceiling		Armstrong, Saint Gobain,Gyprock.		
C	Dado				
1	Acid Alkali Resistant Tile	Ivory	Johnson,RAK,Nitco Kajaria, Somany,GC CERA	15 mm thick 300 x 300 mm Ivory Color	Battery Room - height to be as per functional requirement
2	Ceramic tile	Serie Exquisite, Digital Wall (highlighter), Normal, blanco nieve, powerline glossy	Johnson,RAK,Nitco Kajaria, Somany,GC CERA	9.8 mm thick Glossy Finish sizes as per architect's approval	Bathroom & Pantry, dining
3	Granite		As per approval of EIC	Sierra white, black, Mirror polished	Lobby
4	Granite		As per approval of EIC	Sandwiched platform with kadappa and Mirror polished Black granite.	Wash Basin & Pantry Counter

SN	Item	Product / Series	Brand	Description	Location
5	Granite		As per approval of EIC	Sill in Step fashion, non- step stone on all remaining three sides of windows.	All window openings on exterior face; Lift Jams, Toilet door frames
6	Kota		As per approval of EIC	Mirror polished	Staircase risers
7	False/raised tiles		Untile, Everest,ZTE		
D	Paint				
1	Interior Pre-finish	cement based putty	JK White, Birla White,Dalmia		Walls of lobby, Control room, office area etc
2	Interior Paint	Acrylic Emulsion	Asian paints /Nerolac		Walls and ceiling of Lobby, Control room, office area. toilets etc. (other than false ceiling area)
3	Interior Paint	Oil Bound Distemper	Asian paints / Berger/Nerolac / Dulux ICI		Cable cellars, GIS hall, ACDB, etc. and all other areas not mentioned above.
4	Interior Paint	acid/alkali resistant chlorinated rubber paint	Asian paints / Berger/Nerolac / Dulux ICI		Battery room, walls ceiling
5	Interior Paint/ Exterior Paint	Plastic Emulsion	Asian paints /Nerolac.		
6	Interior Paint/ Exterior Paint	Synthetic Enamel	Asian paints /Nerolac.		
7	Exterior Paint	Exterior Grade Acrylic Emulsion	Asian paints /Nerolac.		All exterior faces and faces directly exposed to weather
8	Exterior Paint	Cement Based paint	Asian paints /Nerolac.		Compound walls, security chowki etc.
E	Partitions				
1	Gypsum		Saint Gobain Gyproc or Equivalent	Fire rated partition (fire rating as per functional requirement)	As and where required
2	Glass		Saint Gobain, Modi Guard, AIS, HNG or Equivalent	minimum 8mm thk. or more, Toughened, tinted. Panel sizes shall be as per architectural design.	As per architectural design
3	Fire rated Glass partition		Saint Gobain, or Equivalent	45 mins Fire rated Glass partition	Control room
4	Aluminium Sections		Jindal, Hindalco or Equivalent	Partition (powder coated), window, door (anodized). Minimum thickness of section 3 mm.	As per architectural design
5	Laminates		Century,Green, Birla, Permica, Duro		
F	Doors				
1	Fire Door		Shakti Met-Dor, Ahura Mazda,Bhawani or Equivalent (CBRI certified)	2 hour fire rated with panic bar	Staircase, equipment room and as per functional requirement
2	HMPS door		Shakti Met-Dor, Ahura Mazda or Equivalent		Shafts, pump house, equipment room etc.
3	Flush Door		Century Ply, Kitply, Green Ply, Mayur Ply, Asis Ply, Archid Ply	block board 38 mm thick with both side color laminate min. 1 mm thk.	as per architectural design
4	Automatic Sliding Door		Dorma, Godrej, Enox, Hafele, Ozone Gandhi Automation	Minimum 10 mm thick, toughened glass	Main entry
5	Framed / frameless Glass Door		Saint Gobain, Modi Guard, AIS, HNG	Minimum 10 mm thick, toughened glass	as per architectural design
6	uPVC Door and Frames for Toilets		Sintex,Green,Century.		

SN	Item	Product / Series	Brand	Description	Location
7	Locks		Godraj,dorset,Dorma.		
8	Door Closer		Godraj,dorset,Dorma.		
9	Floor Spring		Godraj,dorset,Dorma.		
G	Windows, Glazing				
1	Aluminium framed, anodized, operable, fixed, louvered with glass	Jindal Hindalco or Equivalent Saint Gobain, Modi Guard, AIS, HNG or Equivalent	Anodized Aluminium,Jindal,Hindalco	minimum 8 mm thk. Toughened glass with minimum 3 mm thk. aluminium section	as per architectural design
2	Window wall Glazing (Semi unitized SGU fixed between rcc / masonry openings)		Frame: Aluminium sections of Jindal Hindalco or Equivalent Glass: Saint Gobain, Modi Guard, AIS, HNG	minimum 8 mm thk. Toughened glass with minimum 3 mm thk. aluminium section	as per architectural design
N	Luminaries				
1	2' x 2' Grid Lighting LED	Skylight	Bajaj, Wipro, Philips,Surya,Havells,Crompton.		In False ceiling in office area
2	Circular LED	Dovee Led	Bajaj, Wipro, Philips,Surya,Havells,Crompton.		In False ceiling in office area
3	LED Tube Light		Bajaj, Wipro, Philips,Surya,Havells,Crompton.		Other areas
4	LED Street Light		Bajaj, Wipro, Philips,Surya,Havells,Crompton.		Open space in plot
5	Bollard Light		Bajaj, Wipro, Philips,Surya,Havells,Crompton.	Landscape LED Lighting	Open space in plot
6	Wall washer	BLWUP 9W LED 112468	Bajaj, Wipro, Philips,Surya,Havells,Crompton.		Wall washer for entry wall as per functional requirement
P	Electrical Switches,				
1	Switch Boards	Roma, Oro, Myrius, White, Ivory	L&T,Anchor, Havells, Kona, Legrand,Schneider Electric MK Switches		Various locations as per functional requirement
2	Electrical Cable/ Wire		Polycab, Havels, Phinolex		
3	Conduit		AKG, Polycab,Saraswati.		
Q	Plumbing				
1	European WC		Jaquar,Hindware, Parryware		
2	Indian WC		Jaquar,Hindware, Parryware		
3	Urinal		Jaquar,Hindware, Parryware		
4	Flush		Jaquar,Hindware, Parryware		
5	Wash Basin		Jaquar,Hindware, Parryware		
6	Bib Cock		Jaquar,Hindware, Parryware		
7	Pillar Cock		Jaquar,Hindware, Parryware		
8	Gate Valve		DRP,NETA.		
9	Health Faucet		Jaquar,Hindware, Parryware		
10	Bottle Trap		Jaquar,Hindware, Parryware		
11	Mirror		Saint Gobain,Asahi, Modi Guard		
12	SS Sank		Nirali,Prestige.		
13	PVC Tank		Sintex, Plasto.		
Q	Concrete and Allied				

SN	Item	Product / Series	Brand	Description	Location
1	Cement		ACC, Ambuja, Ultra Tech, Birla, Nuvoco,Dalmia,JSW.		
2	Reinforcement Steel		Tata Tiscon, SAIL, Jindal Steel, Essar Steel, Mittal Steel, Vizag Kamdhenu, Rathi,SEL Tiger.		
3	Structural Steel		Tata Tiscon, SAIL, Jindal Steel, Essar Steel, Mittal Steel, Vizag or as per Engineer in Charge.		
4	RMC		UltraTech, ACC, Lafarge, L&T, Ambuja, Godrej,RMC India.		
5	Water Bar		As per approval of EIC		
6	HDPE Pipe		Prince, Supreme, Finolex, HASTI (Reliance)		
7	CPVC Pipes		Prince, Supreme, Astral, Ashirvad,Prakash, Finolex, HASTI (Reliance)		
8	UPVC Pipes		Prince, Supreme, Astral, Ashirvad,Prakash, Finolex, HASTI (Reliance)		
9	HDPE Pipes		Prince, Supreme, Astral, Ashirvad,Prakash, Finolex, HASTI (Reliance)		
10	PVC Pipe		Prince, Supreme, Astral, Ashirvad,Prakash, Finolex, HASTI (Reliance)		
11	GI Pipes		Jinda, SAIL, TATA		
12	CI Pipes		Supreme, Astral		
13	Construction chemicals		Fosroc, BASF, SIKA, Pidilite, CICO, Sunanda		
14	Bitumen		HPCL, IOCL, BPCL, ESSAR		
15	Pre-Coated Sheet		Jindal,Bhushan,TATA Bluescope.		
16	GI Corrugated Sheets		Tata Blue Scope, Jindal, Bhusan		
17	Welding rods		ESSAB, Advani, Ador, D&H		
18	Anchor/ Fasteners		Hilti, Bosh, Canon		
19	SS Railing	SS 304	Jindal,Suncity.		

Note : Brand of any material not available in market should be taken prior approval from Head Civil in concern with Contract Dept for using equivalent Brand


Sl.No	Tests	Type of Check	Extent of Check	Reference Standard	Format of Record	Remarks	Site Inspection Checklist
A	Incoming Materials						
1.01	Cement Physical & Chemical Tests	Visual	Each Lot/Batch	CPWD Spec./IS	MTC	-	1. Physical condition including lumps, moisture in the cement. 2. Whether of Approved Make. 3. Type of Cement. 4. Week of Manufacturing. 5. Adequate & proper storage arrangements at site. 6. Review of test results in MTC.
1.02	Coarse Aggregate Flakiness Index & Elongation Index Sieve analysis Impact & crushing Deleterious Material & Organic Bulk Density	Lab Test	One per source Each Lot	CPWD Spec./IS	TC	Initial test to be done in external approved lab. Sampling to be done jointly with TPWODL EIC.	1. Source. 2. Colour. 3. Shape (whether round or irregular). 4. Adequate & proper storage arrangements at site.
1.03	Fine Aggregate Sieve analysis Dry loose bulk density % silt/Clay content Deleterious Material and Organic Impurities	Lab Test	Each Lot One per source	CPWD Spec./IS	TC	Initial test to be done in external approved lab. Sampling to be done jointly with TPWODL EIC.	1. Source. 2. Colour. 3. Clay lumps present in fine aggregate or not. 4. Adequate & proper storage arrangements at site.
1.04	Reinforcement Steel Physical and Chemical Tests	Visual / Measurement	Each Lot/ Batch	CPWD Spec./IS	MTC F02(09.05.13)	-	1. Physical condition. 2. Whether of Approved Make. 3. Adequate & proper storage arrangements at site. 4. Review of test results in MTC.
1.05	Water Supply works (Pipes) Physical Test	Visual / Measurement	Each Lot	Dwg. / CPWD Spec. / IS	Checklist	-	1. Physical condition. 2. Whether of Approved Make. 3. Size, Gauge, Colour, Coating. 4. Dia. & wall thickness.
1.06	Floor Tiles Physical Test	Visual / Measurement	Each Lot	Dwg. / CPWD Spec. / IS	Invoice	-	1. Physical condition. 2. Whether of Approved Make. 3. Review of test results in MTC. 4. Type, Size, Thickness Colour & Packing. 5. Adequate & proper storage arrangements at site.
1.07	Bricks Compressive Strength Water Absorption Dimensional Tolerance Colour Efflorescence	Lab Test / Visual / Measurement	40,000 nos. Or Change of source	CPWD Spec. / IS / Dwgs.	TC	-	1. Physical condition. 2. Brand to be approved. 3. Type, Size, Colour.

Sl.No	Tests	Type of Check	Extent of Check	Reference Standard	Format of Record	Remarks	Site Inspection Checklist	
1.08	Glass	Physical Test	Visual / Measurement	Each Lot	Dwg. / CPWD Spec. / IS	Invoice	-	1. Physical condition. 2. Whether of Approved Make. 3. Type, Size, Colour & Packing. 4. Adequate & proper storage arrangements at site.
1.09	Paints	Physical Test	Visual	-	-	Invoice	Required paint qty. shall be calculated from PO qty. and same shall be made available at site one time only before start of painting work.	1. Whether of Approved Make. 2. Type, Colour, Packing & Qty. 3. Adequate & proper storage arrangements at site.
B	Activity/Description							
2.00	Earth Work							
2.01	Excavtion	-	Visual / Measurement	100%	Dwg./CPWD Spec./IS	Site log book		1.Layout 2. Barrication 3.Side Slope/ Benching if req. 4.Allowable working space depends on soil condition.
2.02	Backfilling/ Filling	Optimum Moisture Content & Dry Density Test	Visual / Measurement Lab test	One test per 4000CuM	CPWD Spec./IS	Site log Book		1.Layer Thickness as per specifications & Compaction .
3.00	Concrete							
3.01	Before placing concrete	-	Visual	100%	Dwg./ CPWD Spec. Bar bending schedule	F01(09.05.13)		1.Form work-Dimenions, Vertical & Horizontal alignment, Shuttering Oil. 2.Concreting Arrangement-Cover blocks, Vibrators. 3.Reinforcement-Fixing, Spacing, Chairs Inserts/Embedments.
3.02	Fresh concrete Test	Cube Test	Lab Test	One set for every 20 CuM for Column,beams, slab or other works. Incase of RMC- One set of every mixer or Two sets for single casting.	CPWD Spec./ Design Mix	F01(09.05.13)		1.Incase of RMC-Delivery receipts, Batch reports required.

Sl.No	Tests	Type of Check	Extent of Check	Reference Standard	Format of Record	Remarks	Site Inspection Checklist
4.00	Brick Work	-	Visual	100%	CPWD Spec. / IS / Dwgs.	F04(09.05.13)	<ul style="list-style-type: none"> 1.Type of bond. 2.Soaking of bricks. 3.Hacking of concrete surface. 4.Mortar-Mix Proportion. 5.Line & Level. 6.Steel reinforcement 6MM 2 nos every third layer. 7.Corner surface rebaring at cols. 8.Thickness of joints.
5.00	Plastering	-	Visual	100%	Dwg / CPWD Spec. / IS Codes	F05(09.05.13)	<ul style="list-style-type: none"> 1.Surface preparation. 2.Bull marking. 3.Sand screening. 4.Mortar-Mix Proportion. 5.Thickness. 6.final surface finish.
6.00	Painting	-	Visual	100%	Dwg / CPWD Spec. / IS Codes	F07(09.05.13)	<ul style="list-style-type: none"> 1.Base preparation. 2.No. of coats. 3.Final shade. 4.Curing.
7.00	Flooring	-	Visual	100%	Dwg / CPWD Spec. / IS Codes	F06(09.05.13)	<ul style="list-style-type: none"> 1.Mortar-Mix Proportion, Thickness. 2.Embedments. 3.Flooring-Layout, Slope, Joints.
8.00	Installation of Doors & Windows	-	Visual	100%	CPWD Spec. / IS / Dwg.	Site log Book	<ul style="list-style-type: none"> 1.Alignment and position
NOTE:	All tolerances shall be as per the IS standards.						

GCC – Service (Annexure to Tender Documents)

CONFIDENTIAL

	TP WESTERN ODISHA DISTRIBUTION LIMITED	
	WORK INSTRUCTION /OPERATING GUIDELINES	
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1.0 ORGANIZATIONAL VALUES

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

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

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

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

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

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

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

2.0 ETHICS

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

The main objective of the Ethics Management Team is to:

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

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

3.0 CONTRACT PARAMETERS

3.1 Issue/ Award of Contract

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

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

3.2 Contract Commencement Date

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

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3.3 Contract Completion Date

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

3.4 Contract Period/Time

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

3.5 Contract Execution Completion Date

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

3.6 Contract Execution Period/Time

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

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

3.7 Contract Price /Value

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

3.8 Contract Document

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

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

3.9 Contract Language

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

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

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

3.10 Reverse Auction

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

4.0 SCOPE OF WORK

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

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

The associate shall deliver equipment/material at site/stores, carry out erection, testing and commissioning and put into satisfactory operation as defined in contract. Unloading at site, storage, preservation, security and handling of the items at work places till completion of contract is also in scope of work.

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

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

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

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

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

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

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

4.1 Indemnity

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

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

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

4.2 Display of Notice Boards at Work Sites

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

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

4.3 Disposal of Waste at Site

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

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

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

4.4 Deployment of Work Force

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

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

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

4.5 Damages of Properties

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

4.6 Issuance of Materials

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

4.7 Company's Right To Use Works

If Taking Over Certificate is delayed for any reason, for which TPWODL's decision shall be final and binding upon the Associate, the Company shall be entitled to use the works or portion thereof without affecting Associate's responsibility and liability to complete the balance works as per company's directives from time to time, though Associate shall be afforded reasonable opportunity by the company to enable Associates to complete all balance works required for issuance of 'Taking Over Certificate' by the company.

4.8 Rights of TPWODL to vary the scope work

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

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

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

5.0 PRICES/RATES/TAXES

The Prices and Rates are inclusive of cost of materials supplied as per contract terms and for which MDCC is issued by TPWODL and to the extent required for completion of works, cost of service executed as per schedule of quantities, cost of testing as per contract terms, cost of documentations including all relevant test certificates and other supportive

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documents to be furnished as per contract terms. The rates shall remain firm till actual completion of contract.

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

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

5.1 Changes in Statutory Tax Structure

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

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

6.0 TERMS OF PAYMENT

6.1 Pre-Requisites for Payment

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

6.2 Bills & Invoices

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

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

Bills/ invoices shall mention Associate's GST Number, PAN number as applicable.

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

6.3 Payment & Statutory Deductions

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

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

6.3.1 Statutory Deductions

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

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

The Engineer-in-Charge as stated in the Order shall be responsible for certification of the work executed and the bills. Bills (including original) shall be submitted in triplicate at Bill Inward Receipt Desk (BIRD) of TPWODL.

6.4 Guidelines for Raising Running/ Final Bills

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

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

6.5 Quantity Variation

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

6.6 Full and Final Payment

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

7.0 MODE OF PAYMENT

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

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

8.0 SECURITY CUM PERFORMANCE DEPOSIT

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

- (a) 5% of the PO value if purchase order value is more than Rs 5 Crores.
 - (b) 10% of the PO value if purchase order value is less than Rs 5 Crores.
- This shall remain valid till the end of the Guarantee Period of contract, plus one month.
- (c) 5% of the RC value in case of Rate Contract. This shall remain valid till the Guarantee period plus one month.
 - For PO/RC values less than Rs. 5 lacs, Associate may request for deduction of amount equivalent to SPBG value from their first invoice. Such amount shall be withheld by TPWODL while processing the invoice and shall be released after completion of Guarantee Period plus one month.
 - For PO/RC values less than Rs. 3 lacs, the clause (8.0) for Security cum Performance Bank Guarantee (SPBG) shall not be applicable.
 - In case of RC (Rate Contract) after the expiry of RC validity, Associate shall have to submit SPBG. However, the Associate has the option to re-submit the SPBG as per actual RO (Release Order) value issued against the RC, valid for Guarantee Period plus one month. The Guarantee Period shall be considered as per the last RO issued against the said RC. The original SPBG as submitted against the RC shall be released on submission of the new SPBG to TPWODL. Alternatively, Associate may extend the validity of original SPBG only till the requisite period, i.e. guarantee period plus one month.

9.0 STATUTORY COMPLIANCE

9.1 Compliance to Various Acts

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

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

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claim and provide documentary evidences of the same to TPWODL. TPWODL shall be entitled to, if necessary, make such payment and recover the amount from Associate.

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

9.2 SA 8000

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

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

9.3 Affirmative Action

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

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

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

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

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

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

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

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

9.4 Compliance to Labour Laws

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

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

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

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

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

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10.0 QUALITY

10.1 Knowledge of Requirements

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

10.2 Adherence to Rules & Regulations

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

10.3 Specifications and Standards

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

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

11.0 SAFETY

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

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

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

12.0 GUARANTEE

12.1 Guarantee of Performance

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

12.2 Guarantee Period

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

12.3 Failure in Guarantee Period (GP)

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

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

Any repairs during the Guarantee Period shall be carried out by the Associate within 30 days of reporting the issue to Associate by TPWODL. However, if replacement of the Equipment is required, Associate shall notify the same to TPWODL within 7 days of reporting the issue by TPWODL. Thereafter, the total time for supply of new equipment/ material shall be equal to the original delivery period of that equipment/ material as specified in the Contract. In case

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the Associate is not able to rectify/ replace the faulty equipment/ material within the stipulated timelines as mentioned above, penalty shall be levied as per the Liquidated Damages clause mentioned in this document. The penalty amount shall be recovered from the payment due to the vendor or by encashment of the SPBG as the case may be.

12.4 Cost of repairs on failure in GP

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

12.5 Guarantee period for Goods Outsourced

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

12.6 Latent Defect

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

13.0 LIQUIDATED DAMAGES

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

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

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

For the purpose of calculating and applying LD, each milestone shall be considered separately. For delay of each week and part thereof, from the execution of work schedule specified in the milestone, 1% of the contract value corresponding to the unexecuted work of the milestone, subject to a maximum of 10% of the total contract value of that milestone shall be levied. However, if full contractual service/work rendered is not completed within 130% of contract time for execution, TPWODL has the right to levy LD on the entire contract value, subject to a maximum of 10% of the total contract

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value. Deduction of LD shall be on landed cost i.e contract value inclusive of taxes and in pursuant statutory compliance GST would be applicable at the stipulated rate and the same shall be borne by Business Associate. In case of LD deduction, a GST invoice shall be issued by TPWODL as a proof of deduction/ recovery.

13.1 LD Waiver Request

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

13.2 Material Recovery

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

14.0 ASSIGNMENT OR SUBCONTRACTING

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

In such cases where outsourcing is done by the Associate

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

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

15.0 UNLAWFUL ACTIVITIES

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

16.0 CONFIDENTIALITY

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

16.1 Documents

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

16.2 Geographical Data

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

16.3 Associate's Processes

Title to secret processes if any developed by the Associate on an exclusive basis and employed in the design of the equipment shall remain with the Associate. TPWODL shall hold in confidence such processes and shall not disclose such processes to the third parties without prior approval of the Associate and execution by such third parties of secrecy agreements satisfactory to the Associate prior to disclosure. Upon completion of contract, such processes shall become the property of the TPWODL. Title to technical specifications, drawings, flow sheets, norms, calculations, diagrams, interpretations of test results, schematics, layouts and such other information, which the Associate has supplied to the TPWODL under the Contract shall be passed on to the TPWODL. The TPWODL shall have the right to use these for construction, erection, start-up, Trial Run, operation, maintenance, modifications and/or expansion of the works including for the manufacture of spare parts.

16.4 Exclusions

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

- Which at the time of disclosure are in the public domain which later on become part of public domain through no fault of the party concerned, or

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

16.5 Violation

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

17.0 INTELLECTUAL PROPERTY RIGHTS

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

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

18.0 INDEMNITY

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

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

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shall execute, deliver and shall cause his Sub-Associate and suppliers to execute and deliver, such other further instruments and to comply with all the requirements of such laws and regulation as may be necessary there under to conform and effectuate the Contract and to protect the TPWODL.

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

19.0 LIABILITY & LIMITATIONS

19.1 Liability

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

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

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

19.2 Limitation of Liability

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

20.0 FORCE MAJEURE

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

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

- Act of war (whether declared or undeclared), invasion, armed conflict or act of foreign enemy, embargo, blockade, revolution, riot, bombs, religious strife or civil commotion, etc.
- Politically motivated sabotage, or terrorism, etc.

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- Action or Act of Government or Governmental agency for which remedy is beyond the control of the affected parties.
- Any act of God.

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

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

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

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

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

21.0 SUSPENSION Of CONTRACT

21.1 Suspension for Convenience

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

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

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

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

21.2 Suspension for Breach of Contract conditions

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

21.3 Compensation in lieu of Suspension

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

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

22.0 TERMINATION OF CONTRACTS

22.1 Termination for Default/Breach of Contract

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

- a. Withdrawal or intimation by the Associate of its intent to withdraw or surrender the execution / completion of the contracted work /PO or failure in ensuring adherence to any delivery schedules, in deviation of the contract/PO
- b. Refusal or neglect on the part of the Associate to supply material/equipment of quantity or quality as specified by TPWODL and within the timeframe as specified in the contract document or refusal or neglect to execute the services/work in terms of the agreed standards of quantity or quality and/or within the timeframe specified in the contract/PO.
- c. Failure in any respect to perform any portion of the Work contracted with promptness, diligence, or in accordance with the terms of the contract.
- d. Failure to furnish guarantees as specified and /or failure to comply with the terms thereof.
- e. Failure to furnish such relevant documents or information within the time specified which may be necessary for due execution / completion of the works and documentation.
- f. Liquidation, bankruptcy either voluntary or involuntary OR entering into any composition or compromise with its creditors, or Insolvency.

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- g. In case any reasonable information has been received by TPWODL that Associate has adopted/ or attempted to adopt any unethical conduct, action in award of the contract /PO or at any time thereafter.
- h. Failure to comply with applicable statutory provisions as contained in the contract or failure to comply with the applicable laws.
- i. Failure to comply with safety regulations/clauses stipulated in the contract or as may be generally instructed by TPWODL.

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

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

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

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

- a. Associate shall discontinue the supply, on the expiry of the said period of two weeks.
- b. Associate shall ensure that no further steps are being taken towards discharge of the obligations, terms and conditions as contained in the contract/PO. This shall include initiation of actions not limited to discontinuation of other allied and associated arrangements which the associate might have entered into with third parties for due discharge of its obligations under the contract with TPWODL.
- c. The Associate shall perform thereafter such tasks as may be necessary to preserve and protect the terminated portion of the material/service/work in progress and the materials and equipment at TPWODL sites or in transit thereto. However the associate shall continue to fulfill its contractual obligations with regard to the part of contract not terminated.
- d. It shall be open for TPWODL to conduct a joint assessment with the associate of the material ,supplies, equipment ,works or in general as to the subject matter of the contract in regard to which the associate claims having completed its obligations before or during such termination.

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- e. It shall be open to TPWODL to seek invocation of the performance bank guarantee or any other guarantee or other security deposit by whatever name called submitted by the associate, which shall not be objected to or protested against by the associate.

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

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

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

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

22.2 Termination for convenience of Associate

Associate at its convenience may request for termination of contract, clearly assigning the reason for such request. TPWODL has full right to accept, reject or partially accept such request. This convenience will be available to associate only after one year from the contract effective date. For this purpose, associate will provide a notice period of 90 days to TPWODL, Associate will have to pay TPWODL a 'termination convenience fee' equivalent to 5% of unexecuted contract value.

22.3 Termination for Convenience of TPWODL

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

23.0 DISPUTE RESOLUTION & ARBITRATION

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

24.0 Governing laws and jurisdiction

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

25.0 ATTRIBUTES OF GCC

25.1 Cancellation

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

25.2 Severability

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

25.3 Order of Priority

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

26.0 INSURANCE

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

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

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27.0 ERRORS AND OMISSIONS

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

28.0 TRANSFER OF TITLES

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

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

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

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

29.0 SUGGESTIONS & FEEDBACK

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

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

30.0 CONTACT POINTS

In case Business Associate needs information with respect to payments or has any grievances, same may be submitted by log on to our website www.tpwesternodisha.com

31.0 LIST OF ANNEXURES

S. No.	Subject	Annexure
1.	Performa for Bid Security Bank Guarantee	A
3.	Performa for Performance Bank Guarantee (CP cum EP)	B
4.	Performa for No Demand Certificate by Associate	C

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5.	Performa for Indemnification on Statutory Compliance	D
6.	Performa For Application For Issuance of Consolidated TDS Certificate	E
7.	HR Service Level Agreement	F
8.	Under taking for competence of workmen	G
9.	Business Associate Feedback Form	H
10.	Acceptance Form For Participation In Reverse Auction Event	J
11.	Form for RTGS Payment	J
12.	Contractor Safety Management System	K
13.	Vendor Appraisal Form	L

ANNEXURE-A

PROFORMA FOR BID SECURITY BANK GUARANTEE

The TP Western Odisha Distribution Limited

Burla

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

KNOW ALL men by these presents we (Name of the Bank) of (Name of the Country) having our registered office at (hereinafter

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called "the BANK) are bound unto The TP Western Odisha Distribution Limited (TPWODL) in the sum of for which payment well and truly to be made to the TPWODL the Bank binds himself, his successors and assigns by these presents.

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

The CONDITIONS of this obligation are:

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

or

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

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

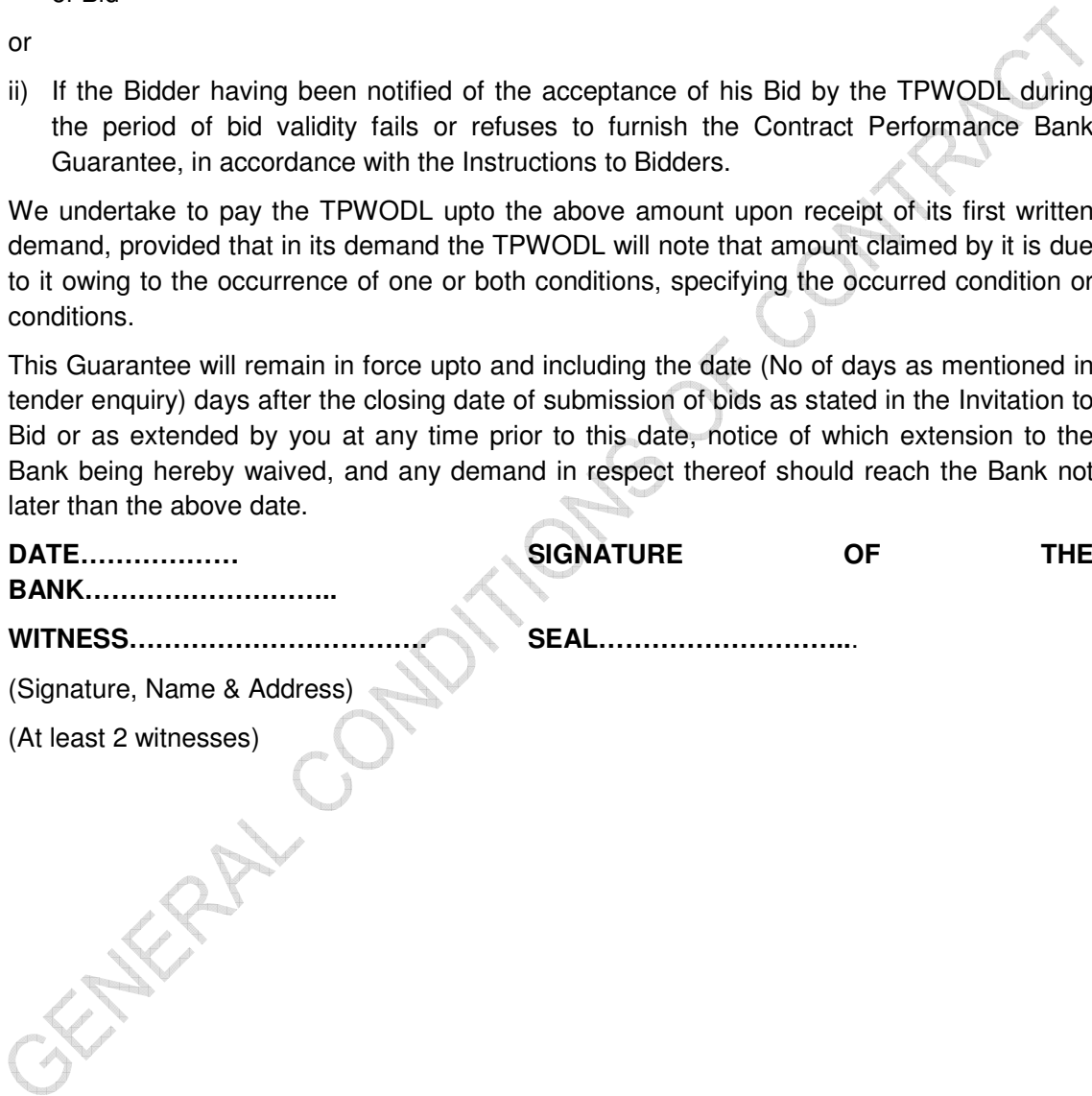
This Guarantee will remain in force upto and including the date (No of days as mentioned in tender enquiry) days after the closing date of submission of bids as stated in the Invitation to Bid or as extended by you at any time prior to this date, notice of which extension to the Bank being hereby waived,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

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

WITNESS..... **SEAL.....**

(Signature, Name & Address)

(At least 2 witnesses)



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ANNEXURE- B

PROFORMA FOR PERFORMANCE BANK GUARANTEE (CP cum EP)

(On Rs.100/- Stamp Paper)

Note:

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

The TP Western Odisha Distribution Limited

Burla

CP cum EP BG No.....

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

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

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commission on your part or any other indulgence shown by you or by any other matter or thing whatsoever which under the law would, but for this provision have the effect of relieving our bank from its obligation under this guarantee.

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

Dated at _____ this _____ day of _____ 200__

Witness

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

ANNEXURE-C

PROFORMA FOR "NO DEMAND CERTIFICATE" BY ASSOCIATE

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

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

(Certificate No. CCP/002)

Name of the Project

Order/ Contract No.

Dated

Name of the Associate

Scheme No. / Job No.

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

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

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

Dated

Signature

Place

Name

Designation

(Company Seal)

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ANNEXURE – D

PROFORMA FOR “INDEMNIFICATION ON STATUTORY COMPLIANCES”

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

(Certificate No. CCP/001)

Name of the Project

Letter of Award / Contract No.

Dated

Name of the Associate

Scheme No. / Job No.

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

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

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

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

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

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

Dated

Signature

**Place
(Company Seal)**

Name Designation

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ANNEXURE-E

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

To be printed on the letterhead

To,

The TP Western Odisha Distribution Limited,

Burla

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

Dear Sir,

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

For and on behalf of

Signature

Name

Address

Contact No. (Land Line)

(Mobile)

PAN #

Assessing authority

ATTACH THE COPY OF PAN CARD

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ANNEXURE - F

SERVICE LEVEL AGREEMENT

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

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

Shall Abide by TPWODL Core Values:

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

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

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

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

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

- a) No person below the age of 18 years and no child labour will be engaged directly or indirectly for executing the work connected with the business of TPWODL.
- b) Minimum wages along with other statutory dues like PF, ESI, etc. as applicable to the workers shall be made within the prescribed period of 7th / 10th day of the following month.
- c) Deduction / deposit / record keeping and all other requirements under Employees PF Act 1952, Employees State Insurance Act 1948 and other applicable acts (if any) shall be adhered to.
- d) Only statutorily authorized deductions (if any) shall be made in accordance with the relevant statutes.
- e) All the provisions of Contract Labour (R&A) Act 1970 shall be complied with in respect of the workers engaged for TPWODL work. The work will be commenced only after completing necessary formalities for obtaining Labour License (if applicable).
- f) Necessary registers / records, filing of returns etc. shall be maintained for verification by Statutory / TPWODL authorities.
- g) Payment of wages shall be made only in presence of and with certification of authorized representative of TPWODL or shall be made in the form of cheque / bank transfer to the employee.
- h) During the period of contract, the Business Associate will arrange for deployment of his supervisor / manager for total supervision and control of the work and their manpower. All the activities related to their manpower e.g. attendance, leave, wage disbursement etc. will be done under the supervision & control of Business Associates, While adhering to the prescribed standard / norms of production / productivity & quality. During execution of the work, Business Associate shall engage only such qualified / skilled manpower as may be envisaged / required for ensuring level of production / service into the contract / work order.
- i) Clearances as follows shall be obtained from IR & Welfare Group:
 - a. Clearance for commencement (before start of the work).
 - b. No Objection Certificate (after completion / before final settlement).
 - c. Copies of PF / ESI Challans shall be deposited with IR & Welfare Group every month
- j) The Business Associate shall indemnify TPWODL from any liabilities under applicable Labour Statutes.
- k) The Business Associate shall ensure safety and health of his employees and shall also maintain hygienic working environment / condition in his area of work.
- l) The Business Associate and his employee shall abide by Laws of Land and shall not violate any applicable provisions.

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

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

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

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

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

7.0 Requirements during execution of work:

- a) Copy of receipt of application for license / license (if applicable).

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

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

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

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

Enclosure:

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

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FORM (A)

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

A. Details of the Agency

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

B. Details of Work

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

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Name _____ of _____ Insurance _____ Company _____

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

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

C. Details of workers to be engaged

No. of Workers

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

*** Number to be indicated**

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

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

Date:

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

This Business Associate is / will be engaged in TPWODL.

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

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Form X

Undertaking

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

(_____)

Date:

Form XI

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Undertaking

With reference to the contract job awarded by M/s The TP Western Odisha Distribution Limited to M/s _____ to work order No. _____ dated _____

I _____ on behalf of

M/s _____ hereby undertake:

1. that the dues in respect of the workmen/ employee(s) engaged by us for the said contract, payable as per the provisions of relevant statute pertaining to

- i. wages/ salary
- ii. PF & ESI, Labour Fund
- iii. All other statutory obligation

has been paid /settled in full and no amount/ compliance is due/ pending.

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

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

Date:

_____)

(

Authorized Signatory

For

M/s

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Notice for Commencement /Completion of contract work

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

Signature of Contractor

With Office Seal

The Inspector

FORM XXIV

[See Rule 82(1)]

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

Half -Yearly Ending _____

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

Men	Women	Children	Total

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

8. No. of man days worked by

Men	Women	Children	Total

9. Amount of wages paid

Men	Women	Children	Total

10. Amount of deductions from wages, if any

Men	Women	Children	Total

Whether the following have been provided –

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

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Signature of

contractor

Place _____

Date _____

GENERAL CONDITIONS OF CONTRACT

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ANNEXURE – G

UNDERTAKING FOR COMPETENCE OF WORKMEN

Name of Associate :

Tender No. :

Item :

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

Date:

 ()

Authorized Signatory

For M/s

Seal

ANNEXURE-H

BUSINESS ASSOCIATE FEEDBACK FORM

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

You are associated with us as

OEMs Service Contractor Material Suppliers Material & Manpower Supplier

You are associated with us for

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

Your office is located at

Sambalpur Within 200 kms from Sambalpur More than 200 kms from Sambalpur

Your nearly turnover with TPWODL

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

Additional information

Your Name	
Your Designation	
Your Organization	
Contact Nos.	
Email	

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

SECTION - A

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

S.	Parameters	1	2	3	4	5	Remarks/
----	------------	---	---	---	---	---	----------

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

S. No.	Parameters	1	2	3	4	5	Remarks/ Suggestion
		Do Not Agree	Slightly in Agreement	In Fair Agreement	Mostly in Agreement	Fully Agree	
13	Our approach for Inspection and Quality Assurance effective to expedite project completion?						
14	TPWODL never defaults on contractual terms						
15	In TPWODL Contracts closure is done within set time limit						
16	Our material receiving procedures are well defined and efficiently deployed to reduce mutual inconvenience						
17	Bank Guarantees are released in time bound manner						
18	Our processes related to payment / account settlement are effective.						
19	You get payments on time						
20	TPWODL Employees follow Ethical behavior						

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SECTION - B

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

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

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SECTION – C

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

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

SECTION - D

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

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

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SECTION – E

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

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

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

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

We thank you for your time and courtesy!!

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ANNEXURE - I

ACCEPTANCE FORM FOR PARTICIPATION IN REVERSE AUCTION EVENT

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

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

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

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

Signature & Seal of the Bidder

ANNEXURE - J

To,

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DGM (Finance)

The TP Western Odisha Distribution Limited
Burla

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

Dear Sir,

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

Vendor Code :

Title of Account in the Bank :

Account Type :

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

Bank Account Number :

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

Name & Address of Bank :

Bank Contact Person's Names :

Bank Tele Numbers with STD Code :

Bank Branch MICR Code :

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

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

Bank Branch IFSC Code :

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

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

Email Address of accounts person (to send payment information)

Name of the Authorized Signatory :

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Contact Person's Name :

Official Correspondence Address :

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

Thanking you,

For _____

(Authorised Signatory)

(Signature with Rubber Stamp)

Certification from Bank:

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

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

(Manager's/ Officers Signature under Bank Stamp)

ANNEXURE - K

CONTRACTOR SAFETY MANAGEMENT SYSTEM

1. OBJECTIVE

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

2. SCOPE

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

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

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

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

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

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

3.1 Business Associate is required to fill the Safety Management System Questionnaire as per *annexure 1* and submit along with the vendor registration process / bid /

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tender document. The filled questionnaire will be scrutinized by Engineer In-charge / indenting group and recommend suitability of the BA with respect to safety requirements. The fulfilment of statutory requirements for vendor registration pertaining to labour laws etc. shall be done by BA Cell on being referred to it.

3.2 Business Associate is required to take suitable risk control measures mentioned against the identified Hazards and Risk document provided for all contracts as per *annexure 2*. The primary objective of this is to evaluate the understanding of the BA towards risk mitigation and employment of safe work procedures. BA is required to conduct the Hazard identification and Risk Assessment study as per the procedure and deploy more or other measures if deemed necessary.

3.3 Business Associate shall comply with **Statutory Requirements related to Safety and Occupational Health** and submit the "Safety Undertaking" as per *annexure 4*.

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

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

- 4.1 Maintenance of Distribution Network – *Annexure 3.1*
- 4.2 Distribution Projects – *Annexure 3.2*
- 4.3 EHV Projects – *Annexure 3.3*
- 4.4 Maintenance of Sub transmission network – *Annexure 3.4*
- 4.5 Civil / Generation Projects – *Annexure 3.5*
- 4.6 Meter Management Group (MMG), Revenue Recovery Group (RRG), Energy Auditing Group, AML, MRG, etc. – *Annex3.6*
- 4.7 Maintenance and Operation of Street Light. – *Annexure 3.7*

1. *Please note that hydra cranes used by any dept should be ACE Model No. FX 150 ACE SX 150, Escorts Model No. TRX 1550 or contemporary. Use of old generation hydra cranes like ACE 14XW or ACE 12 XW, etc are prohibited.*

(Details as per Annexure attached)

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

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

Safety Representative of Business Associates will formally become the nodal point for safety concerns for TPWODL. **BA shall not frequently transfer or terminate the services of any of the safety representatives appointed for TPWODL work site. BA needs to ensure that Safety representative is available at all points of time; failing which the work being carried out in the interim (period when Safety representative is not available) shall be treated as working under improper supervision and due penal provisions shall be initiated against the BA.** BA will be required to provide all applicable infrastructure

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and power to ensure smooth working of the safety representative to maintain a sound safety management system. **In all contracts safety representative will not be assigned any other activity at site apart from the works related to safety management. The duties are detailed in clause 5.5 of this document.** TPWODL will be auditing the facilities provided to the BA's safety team time to time.

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

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

5. QUALIFICATION AND EXPERIENCE OF THE SAFETY AND SITE PERSONNEL

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

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

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

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

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

5.4 Site Skilled Personnel: For all responsibility related to site activities and operations, the BA shall employ only qualified and skilled persons and shall comply the provisions of section 19 & 29 of Central Electricity Authority (Measures relating to safety and electric supply) Regulations, 2010. Persons holding valid approvals only by any Government approved agency or a competency assessment panel or a team set up by TPWODL shall be allowed to perform the High Risk / High Hazard activities (refer page 1). The skill / qualification required for the electrician and electrical supervisor are given in *annexure 5*. The contracts related to maintenance of Distribution Network, Distribution Projects, Extra High Voltage Projects, maintenance of Sub-Transmission Network,

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Meter Management Group & Energy Audit Group, maintenance and operation of street lights, shall preferably have at least 20 per cent of ITI qualified electricians in the first year of the contract. This figure shall preferably be incremented by 15 per cent every subsequent year.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

5.10.2 Epilepsy

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

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

6. REWARD AND PUNITIVE MEASURES

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

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

6.2 Measures of Reward and Punitive Measures

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

Safety Violation Escalation & Monitoring process	
Action	Responsibility
Safety Violation form has been filled and counter foil sent to SAFETY team for information. The main form is to be given to BA supervisor / Engineer in-charge. <i>(Automatically generated if Site audit done through Mobile App.)</i>	Engineer In-charge/ NSO / SC / SAFETY Group /CSI/ ASO/ Any authorised TPWODL official.
↓	
Entry of the violation in the master record and sending the information to concerned Manager, HoG, HoD, Head and Chief (O &S). <i>(Automatically generated if Site audit done through Mobile App.)</i>	SAFETY Group
↓	
Forwarding the information Centralized Account Payable (CAPS) for amount deduction from the	Engineer In-charge

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

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

6.3 Safety Violation Escalation Matrix

6.3.1

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

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

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

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

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

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

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

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

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

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

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Consequence Of an Incident / Accident (In case of MINOR contract)		Incident / Accident				Action Required
Sl. No	Type of the injury	1st	2nd	3rd	4th	
1	Slight injury (First Aid Case)	L (Strengthening of process through continuous improvement in the work procedure)				Take risk reduction measures
2	Minor injury (No or Hospitalization less than 48 Hrs)	L	M	M	N	
3	Major injury (Bone injury or burn or Hospitalization more than 48 Hrs)	M	M	N	O	
4	Single fatality	P	Q			Intolerable
5	Multiple fatalities (Two or more fatalities during one event)	Q				
Legend	Action to be taken	Responsibility		Penalty (in Rs.)		<i>The number of violations are to be calculated cumulatively over the contract period and not on monthly basis.</i>
L	Memo to BA and levy of penalty	Engineer Incharge		5,000/-		
M	Memo to BA and levy of penalty	Engineer Incharge		10,000/-		
N	Memo to BA and levy of penalty	Head of Group		25,000/-		
O	Memo to BA and levy of penalty	Head of Department		1,00,000/-		
P	Memo to BA and levy of penalty	Head of Department		3,00,000/-		
Q	Memo to BA, levy of penalty, termination of contract and black listing of the BA	Functional Head		5,00,000/-		
Figure 6.3 (3) - Penalty Matrix for Incident / Accident in Minor Contracts						

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

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

6.3.2 COMPENSATION FOR BA PERSONNEL

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

I. For Death or Permanent / Total Disablement

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

II. For Permanent Partial Disablement and Temporary Total Disablement

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

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

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

Further, in case of an accident resulting in Death or Permanent / Total Disablement while on duty, the appointed BA Nodal Officer will ensure that the BA complies with all statutory provisions and benefits i.e. PF, Compensation, Gratuity etc., and that all these are made available to the employees' nominee(s) as per the stipulated timelines.

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

Abbreviations Used in the Document

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

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PTW	Permit To Work
GCC	General Conditions of Contract.

- END -

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Annexure 1 (Refer Para 3.1)

Business Associate Safety Management System Questionnaire

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

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

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Certification				
- Is there an officer / supervisor responsible for monitoring workplace / worksite safety? - If yes provide details	1			
<i>Safety Performance Monitoring</i>				
- Are employees regularly provided with information on company health and safety performance? - If yes provide details	1			
- Has the company ever been convicted of an occupational health and safety offence? - If yes provide details	NO Marks (Negative mark ONE for each case)			
- Has there been any major accident of employee at TPWODL site in past	NO Marks (Negative mark ONE for each case)			
- Has there been any fatal accident of employee at TPWODL site in past. - (Note: Bid evaluation committee has to take cognizance of the incident and shall evaluate the bid only after formal approval of competent authority i.e. CTO. - In case of yes please refer Note 4.	NO Mark (Negative mark FIVE for each case)			
Minimum of 75% marks is required for qualification.		Total Marks achieved		
<i>Company Reference</i>				
1. Name of company 2. Name of company				

Note

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

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

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

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

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

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

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Annexure 2 (Refer Para 3.2 and 5.8)

Risk Assessment Form

Business Associate:
Scope of the work:
BA's Representative:
Telephone:
Signature:
Date:

Specific Task/Activity	Potential Hazards/Consequences	Class of Risk	Control Measures
Working at Height	Fall from height	2	<ol style="list-style-type: none"> 1. Mandatory usage of JSA checklist prior to start of work 2. Use appropriate ladder 3. Use full body safety harness having double lanyard. 4. Use Electrical Safety Shoes if working on electrical network otherwise use safety shoes. 5. Use Safety helmet. 6. Use PPE as per the annexure 7 of this CSM document 7. Refer Work instruction related to Working at Height for other details 8. Use of metal scaffold to be ensured in height work (cup lock type) 9. Deploy competent workforce who are medically fit
Working on electrical equipment / network	Electric flash / electrocution	3	<ol style="list-style-type: none"> 1. Mandatory usage of JSA checklist prior to start of work 2. Use Electrical Safety Shoes while working on electrical network. 3. Use Electrical Safety gloves of appropriate voltage rating. 4. Use face shield / visor attached with helmet. 5. Use Safety helmet. 6. Use PPE as per the annexure 7 of this CSM document 7. Mandatory usage of Insulated tools & tackles on electrical system 8. Mandatory compliance for Lock Out & Tag out system. Refer Work instruction related to Working on electrical equipment / network for other details
Excavation / Civil work	Collapse of soil, Fall in excavated pit leading to Injury	2	<ol style="list-style-type: none"> 1. Use safety shoes. 2. Use Safety helmet. 3. Use PPE as per the annexure 7 of this CSM document 4. Hard Barricading of the worksite. 5. Refer Work instruction related to excavation / civil work for other details

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Specific Task/Activity	Potential Hazards/Consequences	Class of Risk	Control Measures
Material lifting & Mechanical Erection work	Fall of material/object, Topple of crane,	2	<ol style="list-style-type: none"> 1. Mandatory compliance of crane checklist 2. Visual condition check of lifting tools and tackles such as wire rope sling, belt sling, chain, pulley block, D-shackles, etc. shall be ensured. 3. The operator's physical fitness and alertness should be judged by sup. / EIC. 4. Use PPE as per the annexure 7 of this CSM document 5. Refer Work instruction related to Material lifting & Mechanical Erection work
Road Safety	Road Accidents	3	<ol style="list-style-type: none"> 1. Mandatory compliance of TPWODL Road Safety policy W07 (COR-P-12)
<p><i>Note: This information for the general indication purpose. The detailed risk assessment shall be conducted before start of the work by the authorized representative of the BA. The report of same shall be submitted to engineer in-charge along with annexure 4 of the CSM document.</i></p>			

Guidelines for filling the Risk Assessment Form

- *Specific Task/Activity* - The documentation of each major task associated with the contract.
- *Potential Hazards* - The identification of hazards associated with each activity or task to be carried out.
- *Class of Risk* - Each hazard should be evaluated as a level of risk, described as Risk Class 1, 2 or 3 defined above.
- *Control Measure* - The identification and documentation of actions required to eliminate or reduce the hazards that could lead to accident or injury.

Hazard / Risks shall be classified according to the following schedule:

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

Annexure 3.1 (Refer Para 4.0)

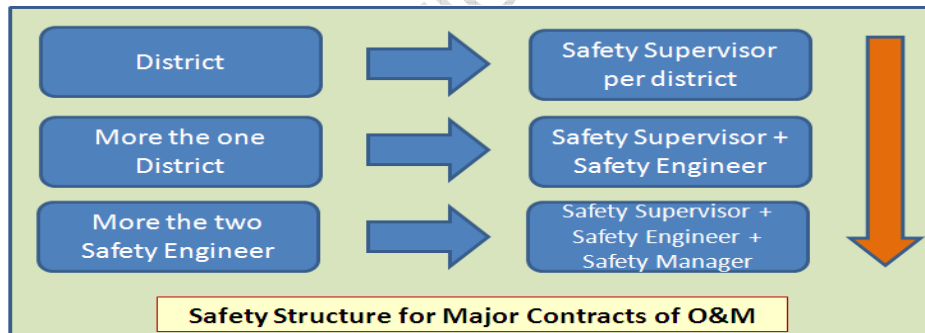
General Safety Conditions for the Maintenance of Distribution Network Contracts:

A BA awarded a contract (O&M) work of maintenance of distribution network will be required to fulfil the following conditions:

- BA shall provide Safety Policy and safety objectives of their company.

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- BA shall comply with all statutory requirements like: applicable acts, regulations, codes of practice, OHSAS Standards, etc.
- BA shall provide the filled safety management questionnaire as per Annexure 1
- BA shall conduct a job risk assessment and provide information as per Annexure 2
- BA shall abide by Safety manuals, guidelines of TPWODL.
- BA shall provide its organisation structure & responsibilities in terms of Safety Management to TPWODL.
- BA shall document the work practices and procedures in terms of Safety Management.
- BA shall ensure safety training and induction program for the employees
- BA shall conduct safety audits & inspections as per TPWODL procedures provided by SAFETY group.
- BA shall provide and ensure the proper usage of the safety equipment (PPE) as per the TPWODL approved list in *annexure 7*.
- BA shall ensure periodic inspection of PPE to ensure its serviceability as per the specification given by TPWODL.
- BA shall ensure the adherence to standard operating procedures or guidelines laid down by TPWODL.
- BA shall ensure reporting of any unsafe act, unsafe conditions, near miss, incident or accident to engineer in-charge and SAFETY team of TPWODL.
- BA shall provide safety performance and Safety MIS (*annexure 9*) to engineer in-charge and SAFETY group periodically. Based on any non-confirmation to the safety procedures and guidelines, BA is liable to be negatively marked for his performance and suitable penalty will be imposed.
- BA shall ensure to depute a Safety Supervisor for managing a complete safety management system in a district. In case the BA has been awarded work in more than one district, then the following safety structure will be adopted.



Annexure 3.2 (Refer Para 4.0)

General Safety Conditions for the Distribution Projects Major Contracts:

A BA awarded a major contract work of TS&P in area of a circle will be required to fulfil the following conditions:

- BA shall provide Safety Policy and safety objectives of their company.
- BA shall comply with all statutory requirements like: applicable acts, regulations, codes of practice, OHSAS Standards, etc.
- BA shall provide the filled safety management questionnaire as per Annexure 1.

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- BA shall conduct a job risk assessment and provide information as per Annexure 2
- BA shall abide by Safety manuals, guidelines of TPWODL.
- BA shall provide its organisation structure & responsibilities in terms of Safety Management to TPWODL.
- BA shall document the work practices and procedures in terms of Safety Management.
- BA shall ensure safety training and induction program for the employees
- BA shall conduct safety audits & inspections as per TPWODL procedures provided by SAFETY group.
- BA shall provide and ensure the proper usage of the safety equipment (PPE) as per the TPWODL approved list in annexure 7.
- BA shall ensure periodic inspection of PPE to ensure its serviceability as per the specification given by TPWODL.
- BA shall ensure the adherence to standard operating procedures or guidelines laid down by TPWODL.
- BA shall ensure reporting of any unsafe act, unsafe conditions, near miss, incident or accident to engineer in-charge and SAFETY team of TPWODL.
- BA shall provide safety performance and Safety MIS (*annexure 9*) to engineer in-charge and SAFETY group periodically. Based on any non-confirmation to the safety procedures and guidelines, BA is liable to be negatively marked for his performance and suitable penalty will be imposed.
- BA shall ensure to depute a Safety Supervisor for managing a complete safety management system in the area. In case the BA has been awarded work in more than one circle, then the following safety structure will be adopted.



Annexure 3.3 (Refer Para 4.0)

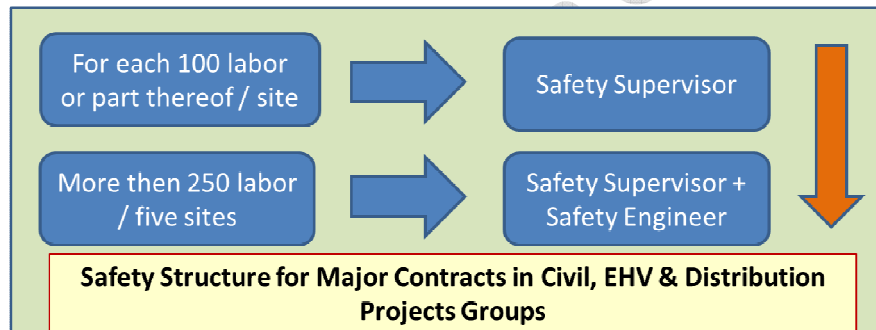
General Safety Conditions for the major EHV Projects Contracts:

A BA awarded a major contract work of EHV projects will be required to fulfil the following conditions:

- BA shall provide Safety Policy and safety objectives of their company.
- BA shall comply with all statutory requirements like: applicable acts, regulations, codes of practice, OHSAS Standards, etc.
- BA shall provide the filled safety management questionnaire as per Annexure 1
- BA shall conduct a job risk assessment and provide information as per Annexure 2
- BA shall abide by Safety manuals, guidelines of TPWODL.

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- BA shall provide its organisation structure & responsibilities in terms of Safety Management to TPWODL.
- BA shall document the work practices and procedures in terms of Safety Management.
- BA shall ensure safety training and induction program for the employees
- BA shall conduct safety audits & inspections as per TPWODL procedures provided by SAFETY group.
- BA shall provide and ensure the proper usage of the safety equipment (PPE) as per the TPWODL approved list in annexure 7.
- BA shall ensure periodic inspection of PPE to ensure its serviceability as per the specification given by TPWODL.
- BA shall ensure the adherence to standard operating procedures or guidelines laid down by TPWODL.
- BA shall ensure reporting of any unsafe act, unsafe conditions, near miss, incident or accident to engineer in-charge and SAFETY team of TPWODL.
- BA shall provide safety performance and Safety MIS (*annexure 9*) to engineer in-charge and SAFETY group periodically. Based on any non-confirmation to the safety procedures and guidelines, BA is liable to be negatively marked for his performance and suitable penalty will be imposed.
- BA shall ensure to depute a Safety Supervisor for managing a complete safety management system in the area. In case the BA has been awarded work in more than one circle, then the following safety structure will be adopted.
- BA shall refer Construction Safety Manual in TPWODL Safety Manual for details.



Annexure 3.4 (Refer Para 4.0)

General Safety Conditions for the Maintenance of Sub – Transmission Network Contracts:

A BA awarded a major contract work of maintenance of sub – transmission network in area of a power system will be required to fulfil the following conditions:

- BA shall provide Safety Policy and safety objectives of their company.
- BA shall comply with all statutory requirements like: applicable acts, regulations, codes of practice, OHSAS Standards, etc.
- BA shall provide the filled safety management questionnaire as per Annexure 1
- BA shall conduct a job risk assessment and provide information as per Annexure 2
- BA shall abide by Safety manuals, guidelines of TPWODL.
- BA shall provide its organisation structure & responsibilities in terms of Safety Management to TPWODL.
- BA shall document the work practices and procedures in terms of Safety Management.

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- BA shall ensure safety training and induction program for the employees
- BA shall conduct safety audits & inspections as per TPWODL procedures provided by SAFETY group.
- BA shall provide and ensure the proper usage of the safety equipment (PPE) as per the TPWODL approved list in annexure 7.
- BA shall ensure periodic inspection of PPE to ensure its serviceability as per the specification given by TPWODL.
- BA shall ensure the adherence to standard operating procedures or guidelines laid down by TPWODL.
- BA shall ensure reporting of any unsafe act, unsafe conditions, near miss, incident or accident to engineer in-charge and SAFETY team of TPWODL.
- BA shall provide safety performance and Safety MIS (*annexure 9*) to engineer in-charge and SAFETY group periodically. Based on any non-confirmation to the safety procedures and guidelines, BA is liable to be negatively marked for his performance and suitable penalty will be imposed.
- BA shall ensure to depute a Safety Coordinator for managing a complete safety management system in the area. In case the BA has been awarded work in more than one area power system, then the following safety structure will be adopted.



Annexure 3.5 (Refer Para 4.0)

General Safety Conditions for the major contract work in Civil / Generation Projects:

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

- BA shall provide Safety Policy and safety objectives of their company.
- BA shall comply with all statutory requirements like: applicable acts, regulations, codes of practice, OHSAS Standards, etc.
- BA shall provide the filled safety management questionnaire as per Annexure 1
- BA shall conduct a job risk assessment and provide information as per Annexure 2
- BA shall abide by Safety manuals, guidelines of TPWODL.
- BA shall provide its organisation structure & responsibilities in terms of Safety Management to TPWODL.
- BA shall document the work practices and procedures in terms of Safety Management.
- BA shall ensure safety training and induction program for the employees
- BA shall conduct safety audits & inspections as per TPWODL procedures provided by SAFETY group.
- BA shall provide and ensure the proper usage of the safety equipment (PPE) as per the TPWODL approved list in annexure 7.

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- BA shall ensure periodic inspection of PPE to ensure its serviceability as per the specification given by TPWODL.
- BA shall ensure the adherence to standard operating procedures or guidelines laid down by TPWODL.
- BA shall ensure reporting of any unsafe act, unsafe conditions, near miss, incident or accident to engineer in-charge and SAFETY team of TPWODL.
- BA shall provide safety performance and Safety MIS (*annexure 9*) to engineer in-charge and SAFETY group periodically. Based on any non-confirmation to the safety procedures and guidelines, BA is liable to be negatively marked for his performance and suitable penalty will be imposed.
- BA shall ensure to depute a Safety Supervisor (for workforce upto 100 at site) / a safety engineer (for workforce upto 250 at site) / safety manager (for more than two safety engineers) for managing a complete safety management system at the project site. In case the BA has been awarded more than one major contracts, then the following safety structure will be adopted.
- BA shall refer Construction Safety Manual in TPWODL Safety Manual for details.



Annexure 3.6 (Refer Para 4.0)

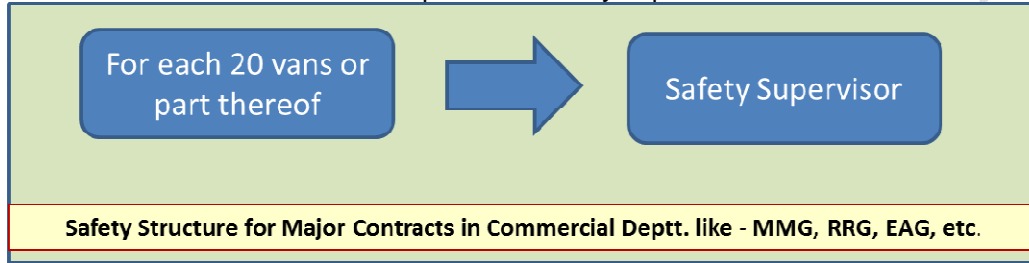
General Safety Conditions for the major contract work in Commercial Department like - MMG, RRG, EAG, etc.:

A BA awarded a major contract work in meter management group & energy auditing group will be required to fulfil the following safety conditions:

- BA shall provide Safety Policy and safety objectives of their company.
- BA shall comply with all statutory requirements like: applicable acts, regulations, codes of practice, OHSAS Standards, etc.
- BA shall provide the filled safety management questionnaire as per Annexure 1
- BA shall conduct a job risk assessment and provide information as per Annexure 2
- BA shall abide by Safety manuals, guidelines of TPWODL.
- BA shall provide its organisation structure & responsibilities in terms of Safety Management to TPWODL.
- BA shall document the work practices and procedures in terms of Safety Management.
- BA shall ensure safety training and induction program for the employees
- BA shall conduct safety audits & inspections as per TPWODL procedures provided by SAFETY group.
- BA shall provide and ensure the proper usage of the safety equipment (PPE) as per the TPWODL approved list in annexure 7.
- BA shall ensure periodic inspection of PPE to ensure its serviceability as per the specification given by TPWODL.

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- BA shall ensure the adherence to standard operating procedures or guidelines laid down by TPWODL.
- BA shall ensure reporting of any unsafe act, unsafe conditions, near miss, incident or accident to engineer in-charge and SAFETY team of TPWODL.
- BA shall provide safety performance and Safety MIS (*annexure 9*) to engineer in-charge and SAFETY group periodically. Based on any non-confirmation to the safety procedures and guidelines, BA is liable to be negatively marked for his performance and suitable penalty will be imposed.
- BA shall ensure to depute a Safety Supervisor for managing a complete safety management system for the work as per the following safety structure.
- The BA for the RRG work shall depute one Safety supervisor.



Annexure 3.7 (Refer Para 4.0)

General Safety Conditions for the major contract work in O&M of street light group:

A BA awarded a major contract work in operation and maintenance of street light group will be required to fulfil the following safety conditions:

- BA shall provide Safety Policy and safety objectives of their company.
- BA shall comply with all statutory requirements like: applicable acts, regulations, codes of practice, OHSAS Standards, etc.
- BA shall provide the filled safety management questionnaire as per Annexure 1
- BA shall conduct a job risk assessment and provide information as per Annexure 2
- BA shall abide by Safety manuals, guidelines of TPWODL.
- BA shall provide its organisation structure & responsibilities in terms of Safety Management to TPWODL.
- BA shall document the work practices and procedures in terms of Safety Management.
- BA shall ensure safety training and induction program for the employees
- BA shall conduct safety audits & inspections as per TPWODL procedures provided by SAFETY group.
- BA shall provide and ensure the proper usage of the safety equipment PPE as per the TPWODL approved list in annexure 7.
- BA shall ensure periodic inspection of PPE to ensure its serviceability as per the specification given by TPWODL.
- BA shall ensure the adherence to standard operating procedures or guidelines laid down by TPWODL.
- BA shall ensure reporting of any unsafe act, unsafe conditions, near miss, incident or accident to engineer in-charge and SAFETY team of TPWODL.

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- BA shall provide safety performance and Safety MIS (*annexure 9*) to engineer in-charge and SAFETY group periodically. Based on any non-confirmation to the safety procedures and guidelines, BA is liable to be negatively marked for his performance and suitable penalty will be imposed.
- Each BA shall ensure to depute a Safety Supervisor for managing a complete safety management system for the work awarded as per the below structure.



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Annexure 4 (Refer Para 3.3)

Safety Undertaking by way of Affidavit

I _____ s/o _____ R/o _____ (AUTHORIZED REPRESENTATIVE/PARTNER/DIRECTOR/PROPRIETOR) of M/S _____ (name of company/firm) having its office at (Complete address of Company), authorized vide power of attorney dated -----/Board resolution dated----/letter of authority dated----, hereinafter referred to as **Contractor [or Business Associate (BA)]** which expression shall, unless it be repugnant to or inconsistent with the meaning or context thereof, be deemed to include its heirs, executors, administrators, and assigns do hereby affirm and undertake as under :

1. The present undertaking shall remain in force from the date of execution of contract awarded by TPWODL and shall be valid till the date of termination of the said contract by either parties. The undertaking is binding on me (contractor) as well as my sub-contractor and its employees, representatives etc.
2. That I(the contractor) will be responsible and liable to comply and abide by all the safety rules, instructions and regulations as may be specified and laid down by TP Western Odisha Distribution Limited (TPWODL) so as enable TPWODL to achieve its goal of Zero On site incidences.
3. That the Contractor shall be fully responsible for ensuring occupational health and safety of its employees, representatives, agents as well as of its subcontractor's employees, at all times during the discharge of their respective obligations under the contract including any methods adopted for performance of their tasks / work.
4. That Contractor shall ensure ,at its own expense to arrange for and procure, implement all requisite accident prevention tools, first aid boxes, personal protective equipment, fire extinguisher, safety training, Material Safety Data Sheet, pre-employment medical test, etc. for operations & activities including as & when so specified by TPWODL specifically. , failing which TPWODL shall be entitled, but not obliged, to provide the same and recover the actual cost thereof from the Contractor's payments.
5. That the Contractor shall engage adequate and competent Safety – Supervisor / Engineer / Manager / Skilled persons at site as per the Para 5 (Qualification and experience of safety personnel) and Annexure 3 of Contract Safety Management.
6. That the Contractor shall engage the competent Site – Supervisor with each group of workers for safe and correct workmanship, proper co-ordination of material and site work as per contract.

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7. That the Contractor shall immediately replace supervisor in case it is found to be not up to the level of skill and experience required as in skill and experience required in *annexure 5* of this document, but any such replacement shall be only with the prior concurrence of TPWODL .
8. That the Contractor and its subcontractors shall abide by all the safety guidelines as per Safety Manual, Contract Safety Management and other guidelines issued from time to time by TPWODL during the contract period.
9. That in case the Contractor and/or any of its Subcontractor fail to ensure the compliance as required in terms of this undertaking the Contractor shall keep and hold TPWODL / 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 TPWODL or to which TPWODL might get exposed to as a result of any breach /wilful negligence /deliberate default on the part of the Contractor /Subcontractor in complying with the same. Contractor shall also furnish any press release, clarification etc. if sought by TPWODL for any near miss or safety violations, accidents, which are attributable to fault of Contractor.

DEPONENT

VERIFICATION

Verified at **Sambalpur** on this _Day of _____ 20__ that the contents of the above affidavit are true and correct and nothing material has been concealed therefrom

DEPONENT

Annexure 5 (Refer Para 5.4)

SKILL / QUALIFICATION REQUIRED FOR ELECTRICIAN AND ELECTRICAL SUPERVISOR

Skill / Qualifications Required for Electrician (Certificate of Competency Class-II):

1. Formal education in ITI – Wireman/ Electrician trade.

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OR

2. Working experience of minimum three years of practical wiring.

OR

3. Have completed three years apprenticeship course through Apprenticeship Advisor, Odisha Govt. / other state Govt. in the trade of Lineman / Wireman / Electrician.
4. A candidate must have attained the age of Eighteen years.

Skill / Qualifications Required for Electrical Supervisor (*Certificate of Competency Class-I*):

1. Have at least five years' experience of practical wiring after passing the certificate of competency class-II i.e. electrician.

OR

2. Recognized Degree or Diploma or equivalent qualification in Electrical Engineering from any Technical institute / College or University recognized by the Board.

AND

Must have completed the training/job in rectifying the common defects in electrical line and power installation for a period of one and three years after passing Degree or Diploma respectively

OR

3. Possessing the valid certificate of certificate of competency class – 1 (Electrical Supervisor)

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Annexure 6 (Refer Para 5.6)

Training Module for BAs Worker & Supervisor

Training for BA Supervisor

Duration – 02 Hrs / Month

Methodology: Lecture and Practical Demonstration of Safety Zone Creation

Session: 1

Topic: Electrical Safety Aspects

Sub Topics:

1. Learning specifics of HT & LT Network of zone
2. Major type of HT / LT / service lines / street light maintenance works
3. Understanding the need of Safety
4. Understanding the safe process of maintenance :
 - Planning of the maintenance job
 - Availability of men, material & machine, PPEs, Safety gear and approved PTW
 - Briefing of the job by the supervisor of the TPWODL
 - Identification of Risks associated with the maintenance work and planning for controlling measures by TPWODL supervisor
 - Creation of safety zone by TPWODL supervisor and satisfying that the network is dead – Use of Neon Tester, Shorting Chain and Safety Tagging
 - Start of the work – Right person for the right job
 - Alert supervision
 - Completion of the job – Check points
 - Energization of network
 - Actions to be taken in case of some accident

Session: 2

Topic: Use of Electrical Testing Equipment

Methodology: Lecture and Practical Demonstration

Sub Topics:

1. Meggar, Hi Pot, Clamp On Meter, Neon Tester, Discharge Rod, Line tester etc.

Session: 3

Topic: Awareness of Electrical Safety Aspects

- A. Understanding the need of this Training and Safety
- B. Learning specifics of HT & LT Network
- C. Major type of work to be carried out in zones
- D. Switching Operations (Do's & Don'ts) including Street Light Switching
- E. Working on Height (*practical demo also*)
- F. Understanding the Safe Process of Maintenance / Working:
 - Planning of the job
 - Availability of men, material & machine, PPEs, Safety gear and approved PTW
 - Briefing of the job by the supervisor
 - Permit to Work
 - Safety Tagging and Lock Out Tag out
 - Identification of Risks associated with the work to be carried out and planning for controlling measures by proper supervision

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- Concept of "**Safety Zone**"
- Identification and use of Neon Tester, Shorting Chain, Clamp On Meter, Hi Pot, Meggar etc.
- Completion of the job – Check points
- Accident Theory & Incident Reporting
- Actions to be taken in case of some accident

Session: 4

Topic: Identification, Demonstration and Usages of Tools, PPEs and other Safety Gears and demonstration of working on HT pole

Session: 5

Topic: Practical demonstration of Safety Zone creation

FREQUENCY

Regular Safety Training Program

- It will be conducted for all field & supervisor staff of BA in such a manner that all BA Personnel attend at least two hours safety training during every month.

One Day Induction Safety Training Programs:

- This training will be for the new BA's personnel, who have been cleared by the Cross Functional Panel to undergo Safety training and who are likely to be deployed at various work sites of TPWODL by the BA, as a part of AMC / Work Contract.

Duration / Periodicity:

- Duration and periodicity has been defined above. However, this is subject to change at the discretion of TPWODL.

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Annexure 7 (Refer Para 5.7)

LIST OF PERSONAL PROTECTIVE EQUIPMENT AND TESTING FREQUENCY

Sl. No.	Name of PPE	IS / EN Standard	Testing Frequency	Remarks	Ref Brand & Model
01	Leather Safety Shoes (Color – Black) with PU toe cap.	IS:15298 (Part-2)	Monthly and visual check every day for any crack or damage in the leather or sole.		BATA (Model No.- Endura L/C) Liberty (Model No. – 7198-01 HT Barton Black – Warrior)
02	HDPE Safety helmet with chin strap and ratchet type for adjustment.	IS:2925-1984	Monthly and visual check every day for any crack in shell.		Karam (PN Safetech) Joseph Leslie Accent Industries Honeywell
03	Full body harness (Safety belt)	EN 361	Monthly and visual check every day of the bends and the harness.		Karam (PN Safetech) Joseph Leslie Accent Industries
04	Electrical Safety Gloves	EN: 60903 CE marked	Weekly and visual check for any crack and blow test before every work.	Manufactured not beyond 12 months.	Make Sparian / Sumitech / CATU supplied with inner cotton glove with over glove of split leather.
05	Full face visor with safety helmet	EN: 166 CE marked (Visor)	Monthly and visual check every day for any crack in shell.	Clear acrylic visor attached with safety helmet.	Karam (PN Safetech) Joseph Leslie Accent Industries Honeywell
06	Fire Proof jacket for chest protection		Monthly and visual check every day.		
07	Safety Chain for shorting cum earthing.	As per TPWODL standard	Weekly and visual check before every work.	Made of brass, Total length – 5.5 meters and made of 12 SWG.	




Note:

1. Any other Personal Protection Equipment required beyond above list will be according to BIS or EN Standards.
2. All Personal Protection Equipment will be checked by the engineer in-charge or SAFETY group of TPWODL.

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3. Safety Representative of the BA has to maintain the record of the availability, condition and checking of the PPEs.
4. All tools required as per the contract must be according to respective IS / EN standards.
5. TPWODL may revise or add the above list of PPE and their specifications as and when feel necessary. The information about new specifications /models will be circulated by the Engineer In-charge (EIC), which shall adhere by the business associated in the shortest possible time. The EIC shall issue a memo / instruction to BA with timeline for implementation. Any delay will be treated as non- compliance / safety violations. Refer picture of each PPE given in next page.

Pictures of PPE for reference purpose.

Sl. No.	Name of PPE	IS / EN Standard	Picture
01	Leather Safety Shoes (Color – Black) with PU toe cap.	IS:15298(Part-2) and with test report of electrical resistance.	
02	HDPE Safety helmet with chin strap and ratchet type for adjustment.	IS:2925-1984	
03	Full body harness (Safety belt) The straps at shoulder and thigh shall have full pad for comfort. The back shall be so designed that harness straps do not tangle with each other.	EN 361:2002 EN 358 : 2000 IS: 3521:1991/2002	

04	Electrical Safety Gloves – Composite type Soft electrical gloves as per size of individual.	EN: 60903 CE marked	
05	Full face visor with safety helmet	EN: 166 CE marked (Visor)	
06	Fire Proof jacket for chest protection		
07	Safety Chain for shorting cum earthing.	As per TPWODL standard	
08	Reflective jacket to each workmen	As per TPWODL standard	

Note : Picture shown are for indicative purpose only. Actual product may differ.

Annexure 8 (Refer Para 5.8) LIST OF AUDITS TO BE CONDUCTED

Audits	Responsibility	Freq.	Ref. Doc.
Permit to Work & Field Audit	BA Safety Representative	Weekly	F04 (COR P - 12)
Tool Bag & PPE's Audit		Weekly	F06 (COR P - 12)
First Aid Box Maintenance Record		Fortnightly	F08 (COR P - 12)
Fire Extinguisher Record <i>(Applicable for the BA involved in major construction works and have storage of flammable material at worksite)</i>		Monthly	F09 (COR P - 12)
Safety Talk Register		Weekly	F18 (COR P - 12)
Site Safety Audit		Daily	F29A (COR P - 12)

Note:

1. (BA Safety Representative has to use the formats as per Safety process COR – P – 12 of TPWODL)

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Annexure 9 (Refer Para 5.9)

PERFORMANCE REPORT – SAFETY

FOR THE MONTH OF.....

Name of BA :

.....

Name of the Project and Purchase order No:

.....

Date of commencement of work:

.....

Man Hour Worked in this month (No. of employees X 8 Hrs + Overtime):

.....

Cumulative Man Hour worked:

.....

Total Number of

Minor Injury (this month): Minor Injury (Total)

Major Injury (this month): Major Injury (Total):

Detail of the Incident / Sub Standard Acts and Condition

Activity	This Month	Cumulative (Total)	Day Lost (this month)	Days Lost (Cumulative)
No. of the Incident				
No. of lost time injuries				
No. of dangerous occurrences				
No. of near miss reported				
Substandard Act/Conditions observed			Attach details of observation of this month	
Safety Violation Notice received (from TPWODL) (both in numbers and in Rs.)	No.	No.	No. of violation letter received and compliance report for the TPWODL.	
	Rs.	Rs.		

Note: Cumulative means total from date of commencement of work according to the contract.

Detail of the Accident / Near Miss Incidents:

Date and Time	Type of the incident	Name of Employee	Brief Description	Corrective and Preventive actions recommended

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Details of the Safety Violations:

Date and Location	Brief Description	Name of employee involved	Action Taken

Detail of the Safety Talk / Tool Box Talk / Safety Training

Date and Location	Topic (s)	Total Number of employees (Worker / Supervisor)	Number of participants (Worker / Supervisor)

Detail of the Safety Meeting

Date and Location	Number of participants	Topics discussed	Major Observations / Innovation

Detail of the Safety Inspection /Audit: (as per TPWODL site audit checklist F29A(COR-P-12))

Date	Area / Location	Major Observations	Recommendations	Action Taken

Any other Safety, Occupational Health, Environment & Disaster Management Promotional Activity (During this month):

Date	Location	Activity	Level of Participation	Number of participation

Signature of the BA Safety Representative
HoG

Signature of ZM /

Name, E. No. and Date

Name, E. No. Date.

Note: The original form to be deposited with Engineer in-charge and a copy to SAFETY group on or before 5th of every month along with bill. List of training of the current month and status of PPE to be also mentioned individual wise.

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

ANNEXURE-L

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VENDOR APPRAISAL FORM

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

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

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	9.11	CARE IN HANDLING	:
10.0	INSPECTION / QC / QA / TESTING		
	10.1	NUMBER OF PERSONNEL (INDICATE NO. OF YEARS OF EXPERIENCE)	:
	10.2	INDEPENDENCE FROM PRODUCTION	:
	10.3	AVAILABILITY OF PROCEDURAL WRITE UP/QUALITY PLAN	:
	10.4	INCOMING MATERIAL CONTROL AND DOCUMENTATION	:
	10.5	RELIABILITY/REPUTATION OF SUPPLY SOURCES	:
	10.6	STAGE INSPECTION AND DOCUMENTATION	:
	10.7	SUB-ASSEMBLY & DOCUMENTATION	:
	10.8	FINAL INSPECTION AND DOCUMENTATION	:
	10.9	PREPARATION OF FINAL DOCUMENTATION PACKAGE	:
	10.10	TYPE TEST FACILITIES	:
	10.11	ACCEPTANCE TEST FACILITIES	:
	10.12	CALIBRATION OF INSTRUMENTS AND GAUGES (WITH TRACEABILITY TO NATIONAL STANDARDS) (ATTACH LIST)	:
	10.13	STATUTORY APPROVALS LIKE BIS, IBR, ETC.(AS APPLICABLE)	:
	10.14	SUB-VENDOR APPROVAL SYSTEM AND QUALITY CONTROL	:
	10.15	DETAILS OF TESTS CARRIED OUT AT INDEPENDENT RECOGNIZED LABORATORIES	:
		i) FURNISH LIST OF TESTS CARRIED OUT AND THE NAME OF THE LABORATORY WHERE THE TESTS WERE CONDUCTED	:
		ii) CHECK AVAILABILITY OF CERTIFICATES AND REVIEW THESE WHEREVER POSSIBLE	:
11.0	EXPERIENCE (INCLUDING CONSTRUCTION / ERECTION / COMMISSIONING) TO BE FURNISHED IN THE FORMAT INDICATED IN APPENDIX)		
12.0	SALES, SERVICE AND SITE ORGANIZATIONAL DETAILS		
13.0	CERTIFICATE FROM CUSTOMERS (ATTACH COPIES OF DOCUMENTS)		
14.0	POWER SITUATION		
15.0	LABOUR SITUATION		
16.0 *	APPLICABILITY OF SC/ST RELAXATION (Y/N) IF YES, SUPPORTING DOCUMENTS TO BE ATTACHED		

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17.0	ORGANIZATIONAL DETAILS 1. PF NO 2. ESI NO 3. INSURANCE FOR WORK MAN COMPENSATION ACT NO 4. ELECTRICAL CONTRACT LIC NO 5. ITCC / PAN NO 6. SALES TAX NO 7. WC TAX REG. NO	:
18.0	DOCUMENTS TO BE ENCLOSED: 1. FACTORY LICENCE 2. ANNUAL REPORT FOR LAST THREE YEARS 3. TYPE TEST REPORT FOR THE ITEM 4. PAST EXPERIENCE REPORTS 5. ISO CERTIFICATE –QMS, EMS, OHAS, SA 6. REGISTRATION OF SALES TAX 7. COPY OF TIN NO. 8. COPY OF SERVICE TAX NO. 9. REGISTRATION OF CENTRAL EXCISE 10. COPY OF INCOME TAX CLEARANCE. 11. COPY OF PF REGISTRATION 12. COPY OF ESI REGISTRATION 13. COPY OF INSURANCE FOR WORK MAN COMPENSATION ACT NO 14. COPY OF ELECTRICAL CONTRACT LIC NO 15. COPY OF PAN NO 16. COPY OF WC TAX REGISTRATION 17. DOCUMENTS IN SUPPORT OF SC/ST RELAXATION AT S.NO.16.0 18. GSTN CERTIFICATE	

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

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

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

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Contractor's Safety Code of Conduct

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

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1.0 Objective

- The Tata Power engages contractor workforce to execute, run and maintain various operating sites and facilities across locations for various business verticals including Generation, Transmission, Distribution and Renewable. The activities range from project execution, operation, maintenance to facilities management.
- The management of contractor safety represents a significant challenge for management. Tata Power has a responsibility to ensure that contractors are provided with enough information and support to enable them to conduct their roles safely and without endangering health and safety of their own workforce or that of our staff.

2.0 Scope:

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

3.0 Definitions

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

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

- 3.6. **CEO/Chief/Head of division/Unit/Utility:** Business in charge who is overall custodian of the Tata Power-Division/DISCOM.
- 3.7. **Category A Vendor:** Vendor eligible to carry out Very High & High risk (as per Tata Power-Division Hazard Identification and Risk Analysis Procedure) and /or Long-Term Contract related to operation and maintenance (O&M) of plant. Vendors must fulfil the requirement specified for Category A in Appendix 4-CSMF-4 of this document.
- 3.8. **Category B Vendor:** Vendors eligible to carry out technical jobs, that are classified under Medium / low risk. Vendors must fulfil the requirement specified for Category B in Appendix 4-CSMF-4 of this document.
- 3.9. **Category C Vendor:** Vendors eligible for to carry out low or very low risk administrative and office jobs. For this he must fulfil the requirement specified for Category C in Appendix 4-CSMF-4 of this document.
- 3.10. **Category D Vendor:** All Consultants, Medical Practitioners or vendors taking job from Tata Power and working from their own premises (e.g., motor rewinding at vendor's shop floor, equipment sent for repair to vendor's works etc.) are classified as Category D Vendor.
- 3.11. **High Risk Jobs:** A Job or its activities are considered as Very High or High Risk when Order manager apply the "Tata Power Hazard Identification and Risk Analysis" procedure and found safety risk associated with are under Very High or High category. Indicative lists of jobs are given in appendix 14 of this document.
- 3.12. **Medium Risk Jobs:** Jobs or its activities are considered as medium risk when Order manager apply "Tata Power Hazard Identification and Risk Analysis" procedure and found the same as Medium Risk.
- 3.13. **Low Risk Jobs:** Any job or its activities are considered as Low or Very low risk while Order manager calculated it by applying "Tata Power Hazard Identification and Risk Analysis" procedure and found it under Low or Very Low category.
- 3.14. **Long Duration Jobs:** *When the duration of job is more than 12 months, it is considered as long duration job. R7*
- 3.15. **High Value Jobs:** When the value of the job contract is Rs. One Crore or more, it is considered as High value job.
- 3.16. **Strategic Business Unit-SBU/Division/Discom:** *A strategic business unit is a fully functional, independently operational setup of a particular business and an important part of the Tata power company. R7*

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4.0 Responsibilities

4.1 Order Manager/Engineer in Charge: Order Manager is Tata Power-Division /DISCOM representative, who is responsible for:

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

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

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

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

5.0 Procedure

5.1 Registration of Business Associates (Vendors)

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

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

The document **CSM F3 Safety Terms and Conditions** provides the information about Tata Power-Division /Odisha Discom safety System to the contractor. Contractor will submit the **CSM F2 Safety Category Qualification Form** with all relevant details and documents to Vendor Registration Initiator, which will in turn forward it to Safety Concurrence Group (SCG) for evaluation. The SCG will evaluate the details submitted by the contractor based

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on a predetermined criteria **CSM F4 Safety Potential Evaluation Criteria** for Vendor Registration and will determine the category (Category A/B/C/D) for which the contractor will be registered. As mentioned in the above criteria, a site visit may also be organized by SCG prior to registration under Category A and B. In case, the contractor does not qualify the safety criteria, the contractor will not be registered. However, he may apply afresh for registration after 6 months. Please refer **Appendix 1: CSM F1 Process Flow Chart for Vendor Registration.**

5.2 Bid evaluation

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

- 1) **CSM F3 Safety Terms and Conditions**
- 2) **CSM F6 Safety Competency Assessment Form**
- 3) **CSM F8 PPE requirements**
- 4) **CSM F9 Site Safety Management Plan Job Specific Safety Requirement (Educational and Professional Qualification, Skill & Experience Manpower, Tools, and Tackles, e.g., man lifter, use of drone, use & availability of rescue kit, Work Methodology etc.)**

Otherwise the RFQ will be attached only with **CSM F3 Safety Terms and Conditions.** Contracts department will collect duly filled **CSM F6 Safety Competency Form** along with the bid. All other stakeholders will also put their efforts to get all relevant safety data during meeting / discussions with the vendor. SCG will evaluate the document as per the **CSM F7 Safety bid evaluation criteria.** If any specific condition related to Contract is required to be conveyed to the contractor, Site safety team will attach the same as Annexure for specific conditions of job and submit it to contract team along with safety bid evaluation form. Commercial bid of contractor will be considered for evaluation by contract team only if contractor is qualified in safety bid. Site Safety Management Plan, defining the complete procedure of executing the job at site will be signed by the contractor and SCG after mutual agreement. Contract will attach a copy of Site Safety Management Plan along with PO to the successful bidder. Please refer **CSM F5 Process Flow Chart for issuing RFQ and PO significant health and safety risk associated with it.**

5.3 Capability Building:

Before issuing gate pass:

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

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

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

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

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

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

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

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

5.4 Recognition to the Prior Learning in Safety-R7

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

5.5 Safety performance retention(R7): A certain percentage of the bill value will be retained against every running bill as safety performance retention. The amount will be released with the last invoice or every six-month based on Safety Performance Score of contractors. The retention amount will be calculated based on contract value as below. (R7)

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

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

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

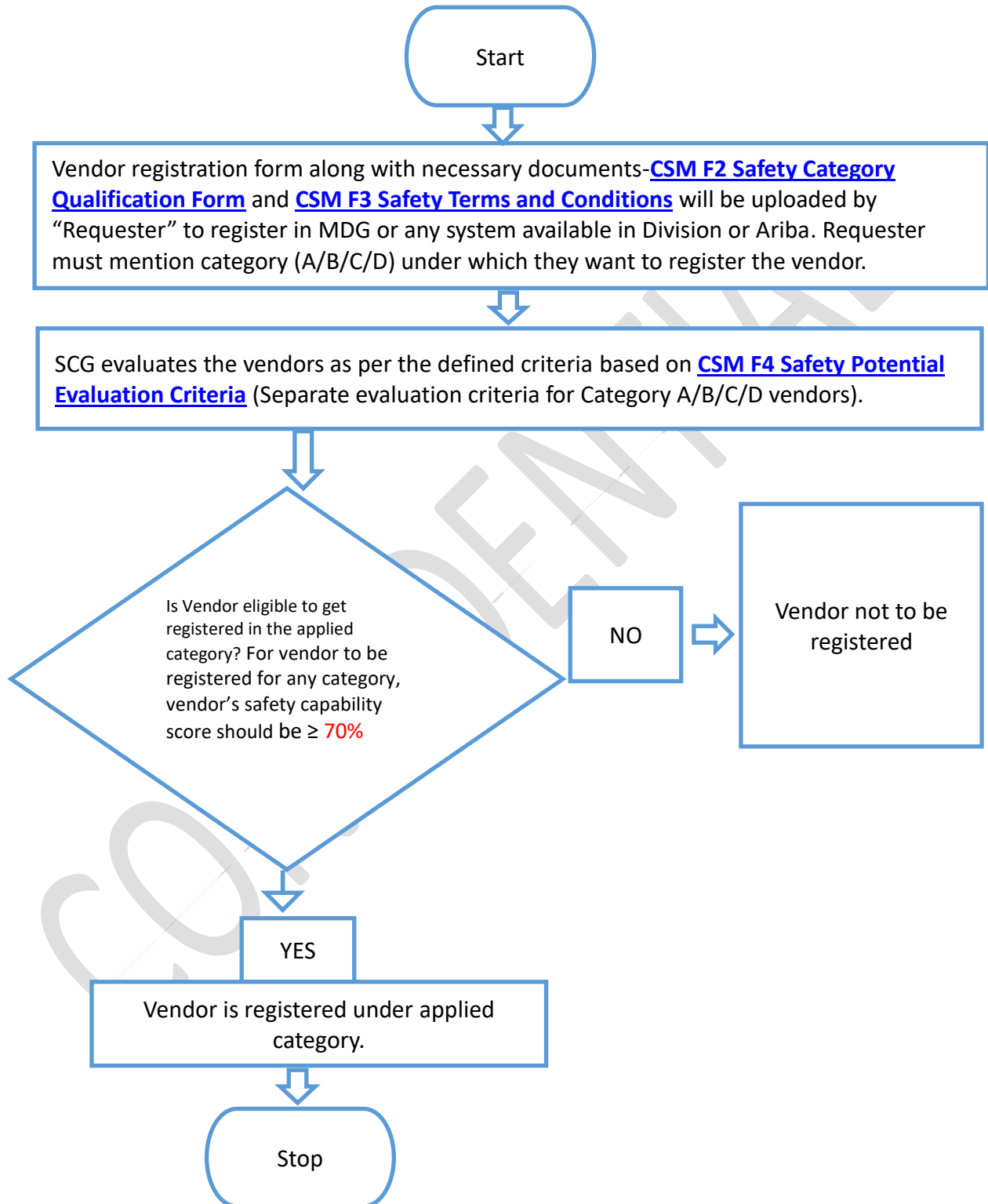
4. The retention amount against non-safety performance saved and Penalty will go to a separate Safety Improvement Fund.R7
5. For the contract value of more than Rs 1 Cr or contract duration more than 12 months, the retention amount shall be released half yearly based on safety performance. For all remaining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

5.6 Safety Performance Evaluation:

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

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

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



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Appendix 2: CSM F2 - Safety Category Qualification form

1. "Safety Category Qualification Form" is part of vendor registration form. It needs to be filled by the contractor at the time of Registration and should be submitted to Requester / Order Manager with all relevant documents.
2. The same will be evaluated by Safety Concurrence Group of the Division (SCG).
3. Information provided by contractor will be verified during site visit.

Safety Category Qualification Form

Please consider my application for

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

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

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

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

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

Name of the Vendor:

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

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

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

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

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

Signature :

Name and Designation:

Stamp of Organization :

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Appendix 3: CSM F3 - Safety Terms and Conditions

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

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

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

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

For vendors to be registered under **Category A/B**, a safety potential evaluation will be carried out based on following parameters. (Actual score is safety capability score)

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

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

Evaluation Criteria for Category C

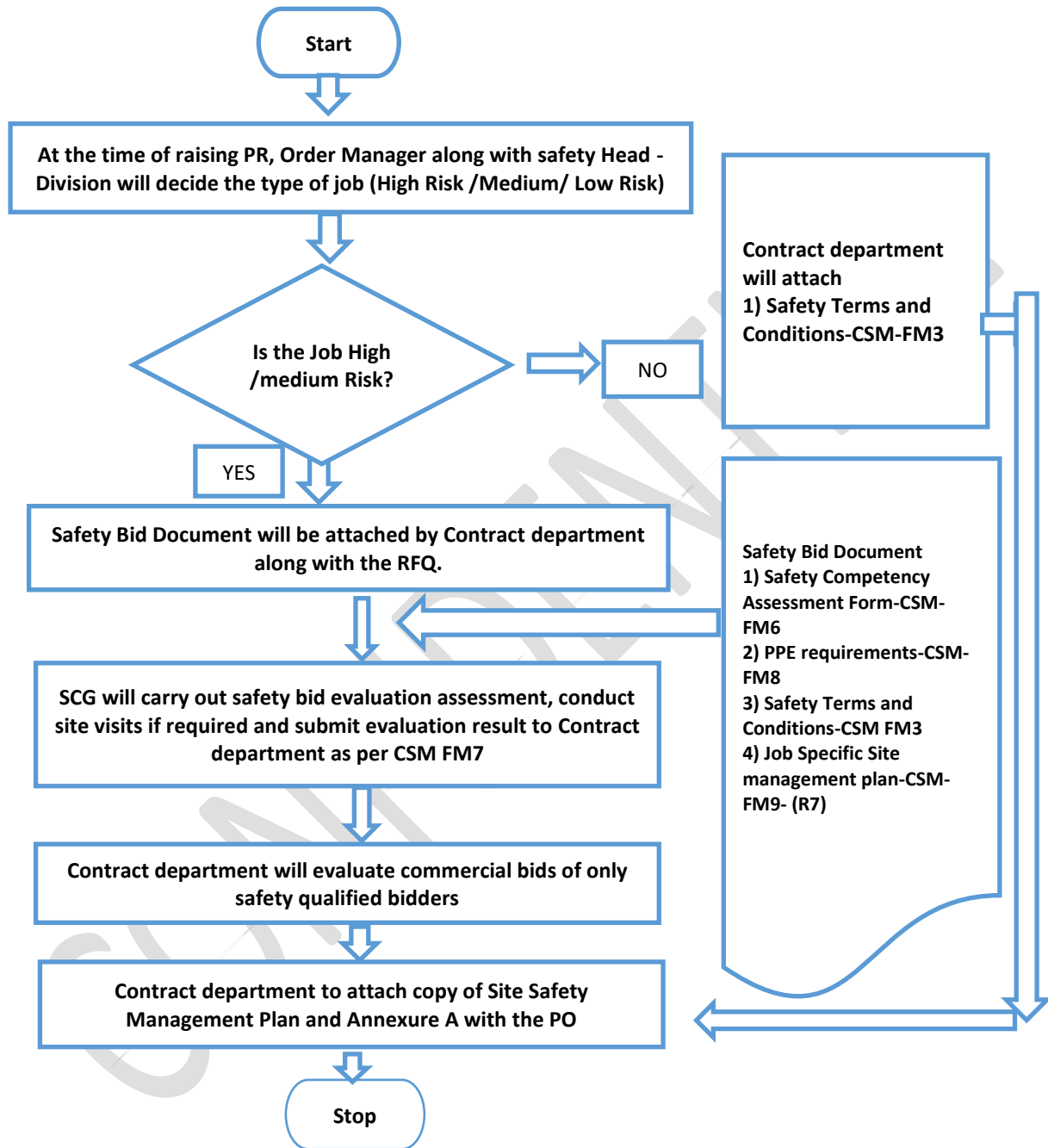
Sr no	Description	Weight age (%)	Actual Score
1	Does the contractor have a valid ISO 9001 certification?	40	
2	Check the Safety statistics of Service provider (If available than 10 otherwise Zero)	10	
3	Check the trend LTIFR/LTISR for last 3 years (If less than 0.2 than give 20 Marks if between 0.2 to 0.3 than give 10 marks and otherwise Zero)	20	
4	Has there been any prosecution / conviction for any Contravention regarding safety and Health provision under the factories Act/Electricity Act / BOCW Act and Rules framed there under? If yes Give Zero otherwise 10 Marks.	10	
5	Check the Safety orientation & training process of Service provider- Records of Safety training provided to safety officer/supervisor /workmen during last 1 year as percentage (%) of total employed by service provider ✓ 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 $\geq 70\%$.

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



Appendix 6: CSM F6 - Safety Competency Assessment Form (Template)

Name of the Vendor/Bidder:
 Name of the Sub Vendor (If job is given to Sub Vendor):
 Description of the Job:
 Request for Quotation (RFQ) No.:

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

1. Proposed Manpower Deployment Schedule :-

Type of manpower	Qualification	Experience	Month 1	Month 2	Month 3
<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

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

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

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- 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.

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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

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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.

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Appendix 7: CSM F7 - Safety Bid Evaluation Criteria

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

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

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Safety Bid Evaluation will be based on following parameters.

Evaluation Criteria-(R7)

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

Safety Records (Lag Parameter)-(R7)

1.	Fatal Accident	(-) 10 Marks for each case with max of 15 marks	<p>For any fatality in Tata power /Other company in Current and last three years 10 marks will be deducted with maximum up to 15 marks.</p> <p>For new entrant BA, these marks will be deducted for Past safety records.</p> <p>If and BA found hiding such facts, then contract will be terminated immediately during the execution stage.</p>
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2	LWDC (Non-fatal)	(-) 5 Marks for each case with max of 10 marks	<p>For each LWDC (Non-Fatal) case in Tata power /Other company in Current and last years, 5 marks will be deducted with maximum up to 10 marks.</p> <p>For new entrant BA, these marks will be deducted for past safety records.</p> <p>If and BA found hiding such facts, then contract will be terminated immediately during the execution stage.</p>
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Final Qualifying Criteria

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

		Minimum Requirement	Weight age (%)	Score Obtained
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	
	Safety Supervisor (1 per work site up to max. 50 workers)	<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>	5	

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		<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 contractor/Users - TPDSI should vet & certify the skilled & experienced Technician if Technical Qualification is not adequate.</p>		
	<p>Qualified Technician (Skilled workers as electrician, rigger, fitter, welder, cable jointer, line men etc.)</p>	<p>Experience- Minimum 2-year experience (or experience prescribed by state government) in relevant field as mentioned in the job in PR.</p> <p>Training – Trained and certified by TPDSI or equivalent institute in relevant safety procedures.</p>	5	
<p>Tools & Tackles</p>	<p>Equipment / Machines/ Tools & Tackles (lifting and shifting tools)</p>	<p>The list of Equipment /Machines / Tools and tackles to be used for job to be submitted by the contractor.</p> <p>Evaluation of the list will be carried out based on</p> <ol style="list-style-type: none"> 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	

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

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

PPE Requirement

1	All contractor's employees at site	Safety Florescent Jacket (orange color), Safety helmet & safety shoes with composite or steel toe cap
2	Workers mixing asphalt, cement, lime / concrete	Safety goggle & protective Hand gloves and footwear, Nose mask.
3	Welders / Grinders/Gas cutters	Welding screen/goggles, safety shoes, leather hand gloves, aprons, leg guard
4	Stone breaker	Protective goggle, hearing protection, anti-vibration hand gloves and Protective clothing.
5	Electricians / Linemen	Rubber hand gloves <i>with correct voltage rating and expiry date normally one year from Manufacturing date-(R7)</i> & Electrical resistant shoes, Safety helmet with induction strip to alert about presence of voltage for those linemen who climb the poles or work on electrical equipment
6	Workers working at a height of 1.8 Meter or above.	Double lanyard full body harness, fall arrestor and safety net made of reinforced nylon fiber ropes firmly supported with steel structures, Work positioning attachment


PPE Type and Testing Frequency






Sl. No.	Name of PPE	IS / EN Standard	Testing Frequency	Remarks
01	Leather Safety Shoes (Color – Black) with PU toe cap.	IS:15298 (Part-2)	Monthly and visual check every day for any crack or damage in the leather or sole.	

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02	HDPE Safety helmet with chin strap and ratchet type for adjustment for non-Electrical work	IS:2925-1984	Monthly and visual check every day for any crack in shell.	
03	Full body harness (Safety belt)	EN 361	Monthly and visual check every day of the bends and the harness.	
04	Electrical Safety Gloves	EN: 60903 CE marked	Weekly and visual check for any crack and blow test before every work.	Manufactured not beyond 12 months.
05	Full face visor with safety helmet	EN: 166 CE marked (Visor)	Monthly and visual check every day for any crack in shell.	Clear acrylic visor attached with safety helmet.
06	Fireproof jacket for chest protection		Monthly and visual check every day.	
07	Safety helmet with induction Strip for linemen and working for electrical work-Class E	EN 397/2012	Monthly and visual check everyday	Induction Strip alerts presence of voltage
08	Shorting clamps, crocodile clamps, Discharge Rod and Neon tester		Monthly and visual check everyday	For discharging the residual voltage and test before touch

Pictorial View of PPEs for reference purpose

Sl. No.	Name of PPE	IS / EN Standard	Picture
01	Leather Safety Shoes (Color – Black) with PU toe cap.	IS:15298(Part-2) and with test report of electrical resistance.	

02	<p>HDPE Safety helmet with chin strap and ratchet type for adjustment for Nonelectrical work and electrical work</p>	<p>IS:2925-1984/ EN 397/2012</p>	
03	<p>Full body harness (Safety belt) The straps at shoulder and thigh shall have full pad for comfort. The back shall be so designed that harness straps do not tangle with each other.</p>	<p>EN 361:2002 EN 358 : 2000 IS: 3521:1991/2002</p>	
04	<p>Electrical Safety Gloves – Composite type Soft electrical gloves as per size of individual.</p>	<p>EN: 60903 CE marked</p>	
05	<p>Full face visor with safety helmet</p>	<p>EN: 166 CE marked (Visor)</p>	
06	<p>Fireproof jacket for chest protection</p>		
08	<p>Reflective jacket to each workman</p>	<p>As per Tata Power standard</p>	

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These pictures are indicative. Actual product may vary.

Note:

1. Any other Personal Protection Equipment required beyond above list will be according to BIS or EN Standards.
2. All Personal Protection Equipment will be checked by the engineer in-charge or SAFETY group of company.
3. Safety Representative of the BA must maintain the record of the availability, condition and checking of the PPEs.
4. All tools required as per the contract must be according to respective IS / EN standards.
5. Company may revise or add the above list of PPE and their specifications as and when feel necessary. The information about new specifications /models will be circulated by the Engineer In-charge (EIC), which shall adhere by the business associated in the shortest possible time. The EIC shall issue a memo / instruction to BA with timeline for implementation. Any delay will be treated as non- compliance / safety violations.

Appendix 9: CSM F9 - Site Safety Management Plan / Method Statement

Site Safety Plan / Method Statement (Template)

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

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

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

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

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

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

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

6.1 Pre-Working Checks

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

Tools required for work:

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

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

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)	

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Hazardous Substances to be used in job: (Attach MSDS if required)	 Acute Toxic	 Health Hazard	 Corrosive	 Dangerous For the environment	 Oxidising	 Highly flammable	 Explosives
	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N

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

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

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

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

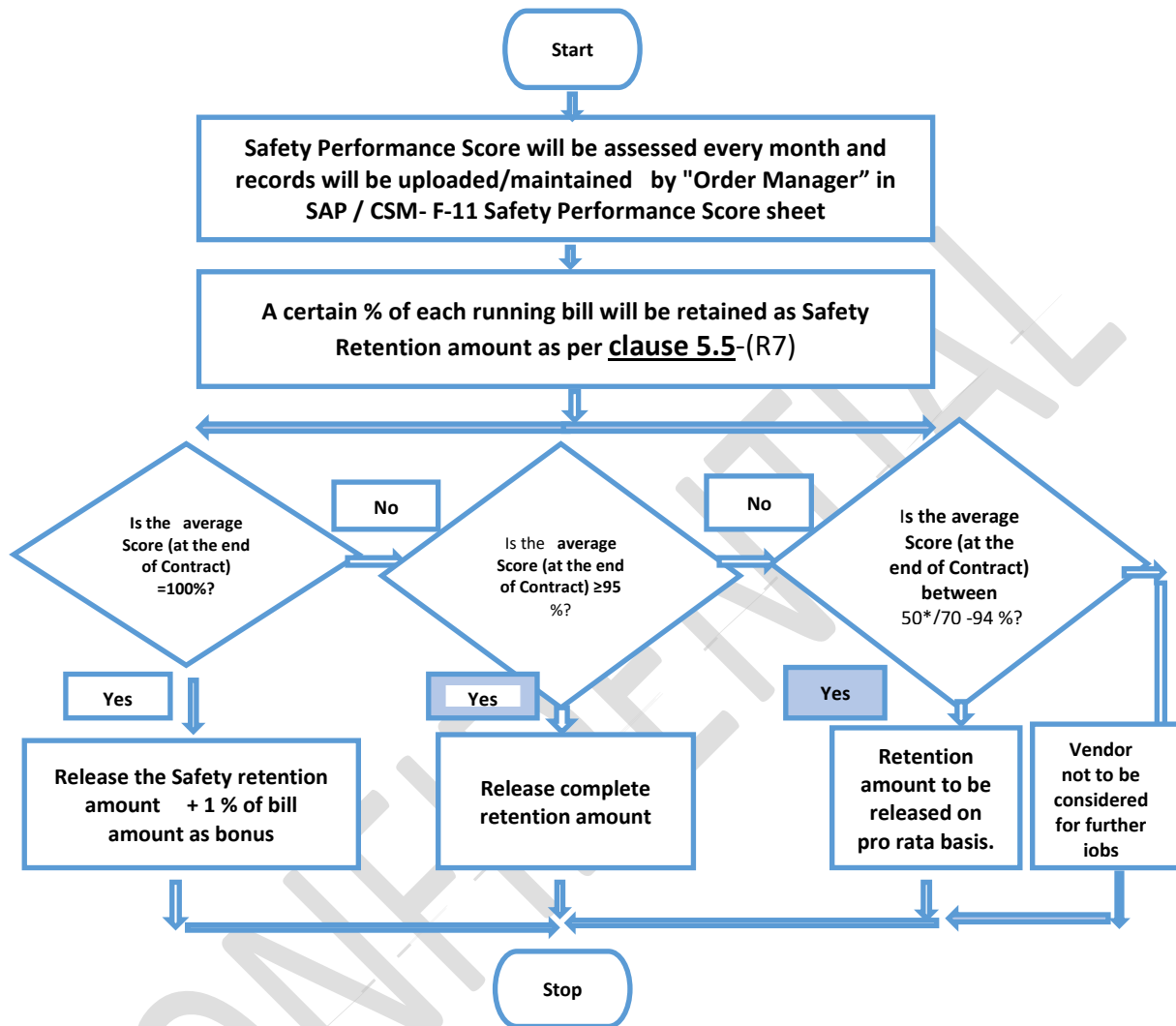
10.0 First Aid facilities and Nearby Hospitals Details

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

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

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

Appendix 10 – CSM F10 – Process Flow Chart for Safety Performance Evaluation



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

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

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

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

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Safety Performance Evaluation Criteria

Lead Indicators

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

Lag Indicators

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

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

Appendix 12: CSM F12 - Safety Violation Penalty Criteria

Major Violations and Escalation matrix--(R7)

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

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

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Other Violations and Penalty

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

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

22	Smoking in prohibited area (Closed Go-downs, Storage of flammable material, Storage of Gas cylinders, PSS , Offices etc.)	3	3000
23	Improper stacking of materials in Storage Yard	4	4000
24	Sleeping at workplace	3	3000
25	First aid box not available / in locked condition	2	2000
26	Appointment of subcontractor without his Safety Bid Evaluation and/or without the permission of engineer in charge or Order manager.	5	5% of order value
27	Bad Housekeeping with respect to 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	Violation in Gas cutting and Gas cylinder handling <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	Violations in Lifting Operations w.r.t. to TPSMS/CSP/HEMS/005 <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 	5	2000 per each violation

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	<ul style="list-style-type: none"> 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 		
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	Caution boards, danger signs (luminescent /red) along with emergency contact number are not found displayed.	3	3000
34	Spillage of hazardous material/chemicals during transportation	4	4000

Penalty for Incidents / Accidents-(R7)

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

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Legend	Action to be taken	Responsibility	Penalty (INR)	The no. of violations shall be calculated cumulative during the contract period for all contracts in SBU, not on a monthly basis
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	

Appendix -13: CHECKLIST TO BE USED DURING SITE VISIT

Checklist to be used: During site visit to check the adequacy Safety systems.			
		Observation	Score* (1-5)
1	Check the adequacy of safety policy and Safety Management system of the contractor.		
2	Does the contractor have written down safety procedures?		
3	Check the records of Near miss, unsafe act, unsafe conditions, and incidents.		
4	Check the organization setup to implement the safety systems at site (safety officer, safety supervisor)		
5	Check whether safety meeting and toolbox talk carried out regularly and records maintained or not.		
6	Is the process of incident investigation adequate or not?		
7	Verify incident reporting and recording system		
8	Check the usage of equipment/tools and tackles.		
9	Check for housekeeping at site		
10	Check the use of PPEs and general behavior of workforce towards safety		
	Total Score		
	Site Visit Score		

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

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Appendix 14: Indicative List of High-Risk Jobs

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

Sl. No.	Jobs
1	Transmission Line Tower Erection on columns, near live lines, In congested areas, In creeks, In the Sea.
2	Conductor Stringing on Tower Using Tensioner & Puller in the area such as Line Crossing, Near Live lines, Congested Areas, Road Crossing, Bridge Crossing, Railway line Crossing, In creeks, In the Sea
3	Cable Pulling by Using winch Machine in City and Rural Areas
4	Hot Washing of HT and Extra HT lines, Towers and switchyards equipment
5	Maintenance / Testing and Replacement of High Voltage (33 KV etc.) Switchyard equipment
6	Installation of Lifts
7	Installation of EOT Cranes
8	Tower Dismantling
9	Working on H Frame /Pole mounted Transformers
10	Excavation in operational Area having power cables in receiving station
11	Identification and spiking of cable / disconnection of cables from poles
12	Working on Electrical Panels
13	Working on live electrical switch yard, Material handling and equipment repair/installation.
14	All activities that require climbing on a pole/structures/Towers/Transformers
15	Cable laying and termination jobs
16	Excavation beyond 5 feet near existing building and structures
17	Working in confined Spaces
18	Stringing of new conductors over poles



Tender Ref No. TPWODL/SD/O/SER/036

ANNEXURE X
TATA CODE OF CONDUCT

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

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

The Contractor is requested to bring any concerns regarding this to the notice of our Chief Procurement & Stores e-mail ID: harish.sharma@tpwesternodisha.com

TP WESTERN ODISHA DISTRIBUTION LIMITED

(A Tata Power and Odisha Government Joint Venture)

Regd./Corp Office : Burla, Dist-Sambalpur, Odisha -768 017

Website : www.tpwesternodisha.com, Email : tpwodl@tpwesternodisha.com

Corporate Identification Number (CIN) : U40109OR2020PLC035230, Telephone No. 0663-2431984, Fax No : 0663-2432113

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ANNEXURE XI
ENVIRONMENT & SUSTAINABILITY POLICY

Tata Power Policy may be applicable



CORPORATE ENVIRONMENT POLICY

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

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

(Praveer Sinha)
CEO & Managing Director

Date: 15th June, 2018

TATA POWER
Lighting up Lives!





CORPORATE SUSTAINABILITY POLICY

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

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

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

(Praveer Sinha)
CEO & Managing Director

Date: 15th June, 2018

TATA POWER
Lighting up Lives!



TP WESTERN ODISHA DISTRIBUTION LIMITED

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For Reference- User Manual e-Bidding & Auction (Ariba)

CONFIDENTIAL



**SUPPLIER MANUAL ANSWERING
TO
E-BIDDING**

	Version 1.2
Company Confidential	DEC - 2020

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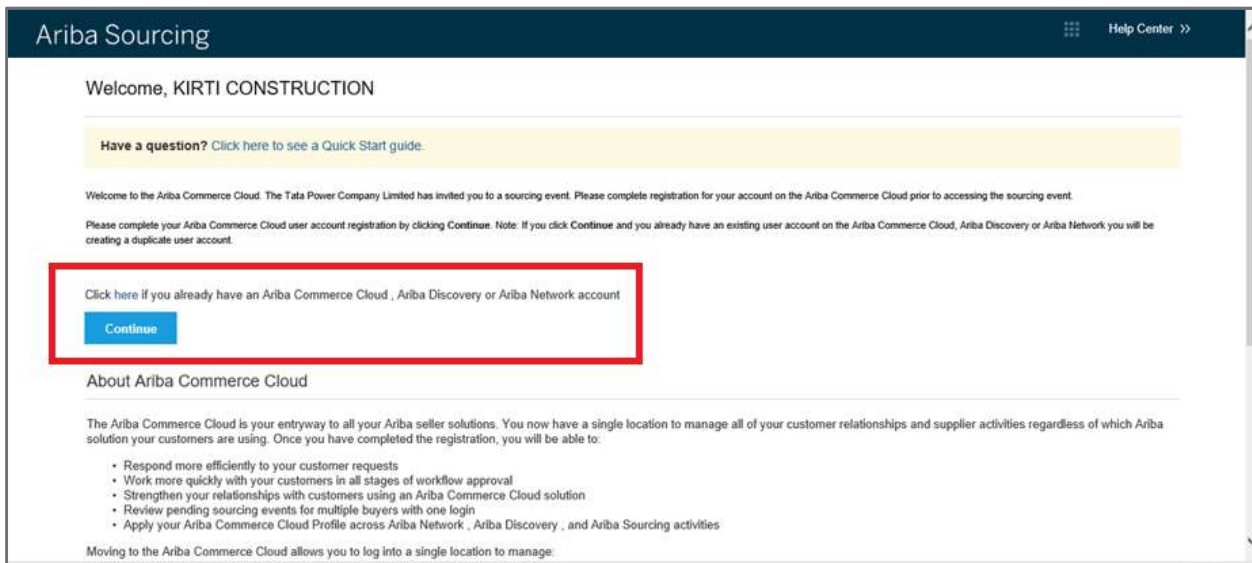
1- Accessing Ariba Sourcing

Step 1: You will get an invitation to your email from Ariba System. Keep this email, it contains your login Information and a direct link to Ariba.

Step 2: Click "Click Here" to access the Ariba Web Site.



Step 3: Supplier has to click on "Continue"



Step 4: The registration process only takes a few moments, with a simple one-page registration Define your password and secret question. Click "OK"

Company Name: KIRTI CONSTRUCTION

Country: India [IND]

Address: Yashodeep E3- 08
Sector 22 Koperkharne Navi Mumbai
400709

City: Mumbai

State: Maharashtra

Postal Code: 400709

Product and Service Categories: Enter Product and Service Categories [Add](#) -or- Browse

Ship-to or Service Locations: Enter Ship-to or Service Location [Add](#) -or- Browse

Tax ID: Optional Enter your Company Tax ID number.

DUNS Number: Optional Enter the nine-digit number issued by Dun & Bradstreet.

Supplier has to fill the form

Step 5: If it's the first time you are invited to use UPM Ariba, you'll need to accept the "Participant Terms". Select "I accept the terms of this agreement". Click "Submit".

The screenshot shows a registration form with the following elements:

- A password field with masked characters (*****).
- A "Secret Question" dropdown menu with the text "In what city was your mother born?". A note to the right states: "The answer to your secret question must be atleast 5 characters."
- Two additional masked input fields (*****).
- A "Language" dropdown menu set to "English". A note to the right states: "The language used when Ariba sends you configurable notifications. This is different than your web b..."
- A paragraph of text explaining the company profile and data consent.
- A checkbox labeled "I have read and agree to the Terms of Use and the Ariba Privacy Statement", which is checked and highlighted with a red box.
- "Submit" and "Cancel" buttons at the bottom right.

2 Vendor Screen - Submitting Your Answers / Proposal

2.1.1 If vendor goes through mail invitation then directly Screen 3.1.1 will appear, but if If you have used Ariba before and have already accessed an event for the buyer-specific account with your current log in ID, click the **Login** button to continue. Log in with your Ariba username and password in order to participate in the event OR you have to follow the following steps.

Step 1 - Log on supplier.ariba.com

Step 2 - Put your USER ID and Password in following screen

The screenshot shows the "Supplier Login" screen for SAP Ariba Proposals. The page features a blue header with the SAP Ariba logo and "Proposals Powered by Ariba Sourcing". The main content area has a dark blue background with the text "Supplier Login" in white. Below this, there are two input fields for "User Name" and "Password", a blue "Login" button, and a link for "Forgot Username or Password". At the bottom left, there is a link for "Need help? See Quick Start". On the right side, there is a laptop displaying a dashboard with various charts and data.

Step 3 - Go to "Ariba Proposals & Questionnaire".

The screenshot shows the Ariba Sourcing dashboard. On the left, a navigation menu is open, highlighting "Ariba Proposals and Questionnaire". A blue callout bubble points to this menu item with the text: "Goto 'Ariba Proposals & Questionnaire' after logging in at supplier.ariba.com". The main content area displays the Tata Power logo and a list of events. A second blue callout bubble points to the "Events" section with the text: "Events (Tender enquiries) in which Bidder has participated shall be visible. Click and enter into any specific event".

Title	ID	End Time	Event Type
Status: Open (2)			
Maintenance of HT and LT Networks for Tata Power Distribution at Odisha (TPC-ENGG-ENQ-016-20-21)	Doc2416130949	6/4/2020 4:55 PM	RFP
Tender Documents-Meter Reading Cum Spot billing and Bill Distribution(TPC-ENGG-ENQ-015-20-21)	Doc2420255101	6/4/2020 3:00 PM	RFP

The screenshot shows the "Event Details" page for Doc2420255101 - Tender Documents-Meter Reading Cum Spot bill... The page includes a "Checklist" on the left with steps: 1. Review Event Details, 2. Review and Accept Prerequisites, 3. Submit Response. A central yellow banner contains prerequisite information. Below this, there are buttons for "Download Content", "Review Prerequisites", "Decline to Respond", and "Print Event Information". A blue callout bubble points to the "Review Prerequisites" button with the text: "Click on 'Review Prerequisites'". The "Tender Documents" section is expanded to show "1.1 Introduction" with a "Less" button. A "Next" button is visible at the bottom right of the document content.

Tata Power - Ariba Spend Manag... x +

s1.ariba.com/Sourcing/Main/aw7a...

Prerequisites must be completed prior to participation in the event.

Checklist

1. Review Event Details
2. Review and Accept Prerequisites
3. Submit Response

In consideration of the opportunity to participate in on-line events ('On-Line Events') held and conducted by the company sponsoring this On-Line Event ('Sponsor') on the web site (this 'Site') hosted by Ariba, Inc. ('Site Owner'), your company ('Participant' or 'You') agrees to the following terms and conditions ('Bidder Agreement');

1. **Bids.** If you are invited to participate in the On-Line Event, Sponsor reserves the right to amend, modify or withdraw this On-Line Event. Sponsor reserves the right to accept or reject all or part of your proposal. Submission of a bid does not create a contract or any expectation by Participant of a future business relationship. Rather, by submitting a bid, you are making a firm offer which Sponsor may accept to form a contract, subject to section 2 below. Sponsor is not liable for any costs incurred by Participant in the preparation, presentation, or any other aspect of Participant's bid.
2. **Price Quotes.** Except to the extent Sponsor allows a non-binding bid, all Bids which Participant submits through the On-Line Events are legally valid quotations without qualification, except for data entry errors.
3. **Procedures and Rules.** Participant further agrees to be bound by the procedures and rules established by the Site and Sponsor.
4. **Confidentiality.** Participant shall keep all user names and passwords, the On-Line Event content, other confidential materials provided by the Site and/or Sponsor, and all bids provided by You or another participating organization in confidence and shall not disclose the foregoing to any third party.
5. **Bids through Site only.** Participant agrees to submit bids only through the on-line bidding mechanism supplied by the Site and not to submit bids via any other mechanism including, but not limited to, post, courier, fax, E-mail, or orally unless specifically requested by Sponsor.
6. **Ethical Conduct.** All parties will prohibit unethical behavior and are expected to notify the Site Owner by contacting the appropriate project team if they witness practices that are counter-productive to the fair operation of the On-Line Event. If Participant experiences any difficulties during a live On-Line Event, Participant must notify Site Owner immediately.
7. **Survival.** The terms and conditions of this Bidder Agreement shall survive completion of the On-Line Event.

BA v1.1 19Aug05

I accept the terms of this agreement.

I do not accept the terms of this agreement.

Accept the Terms of Agreement and Submit

Tata Power - Ariba Spend Manag... x +

s1.ariba.com/Sourcing/Main/aw7a...

Console Doc2420255101 - Tender Documents-Meter Reading Cum Spot bill... 8 days 03:33:47

Event Messages
Response History
Response Team

Checklist

1. Review Event Details
2. Review and Accept Prerequisites
3. Submit Response

Event Contents

All Content

1 Tender Documents

2 Techno Commercial Bid

3 Price Bid

All Content

Name 1

2.1 Please attach the Techno-Commercial bid

2.2 Please attach your techno commercial offer (Extra File)

3 Price Bid

3.1 Bidder to specify the prices either in terms of percentage (%) or Value where the options are available for both percentage (%) , please Specify Zero (0) in the amount field and vice-versa.

3.2 Bidders to download editable copy of Price bid format (Which...), fill in the same with, and re-attach the same after filling in prices as their Price Bid. No Alterations/changes shall be made by the bidders in this format.

References

(*) indicates a required field

Submit Entire Response Update Totals Page Excel Import

Price Bid to be attached in Tab 3.2. Attach file link is towards extreme right, and is shown in next slide

Technical Bid to be attached in Tab 2.1 and 2.2. Attach file link is towards extreme right, and is shown in next slide

Devendra Sharma (desharma@gmail.com) last visited 26 May 2020 10:55:18 PM. Horizons Cybersoft Ltd AN01523824134 © 1996-2019 Ariba, Inc. All rights reserved. SAP Ariba Privacy Statement Security Disclosure Terms of Use

These are "Attach File" links for Tab 2.1 and 2.2 where Technical bid is to be attached. Pls attach files in BOTH these tabs otherwise it will show error on submission.

Terms of percentage (%) or Value where the options are available for both. In case price is specified in 0 in the amount field and vice-versa.

This is "Attach File" link for Tab 3.2 (Price Bid).

Click On "Submit Entire Response" AFTER Attaching technical and Price bids as above.

Note: In case of multiple files, all files can be kept in one folder and folder can be converted to zip file for attaching

3 Communicating with Tata Power Buyer during e- bidding

Step 1: Click "Compose Message".

Step 2: Compose Your Message and click "Send".

back to The Tata Power Company Limited-TEST Dashboard Desktop File Sync Notifications

Compose New Message

From: shingare.manufacturers (Ravi Shingare)

To: Project Team

Subject: Dec681345837 -sourcing project 001

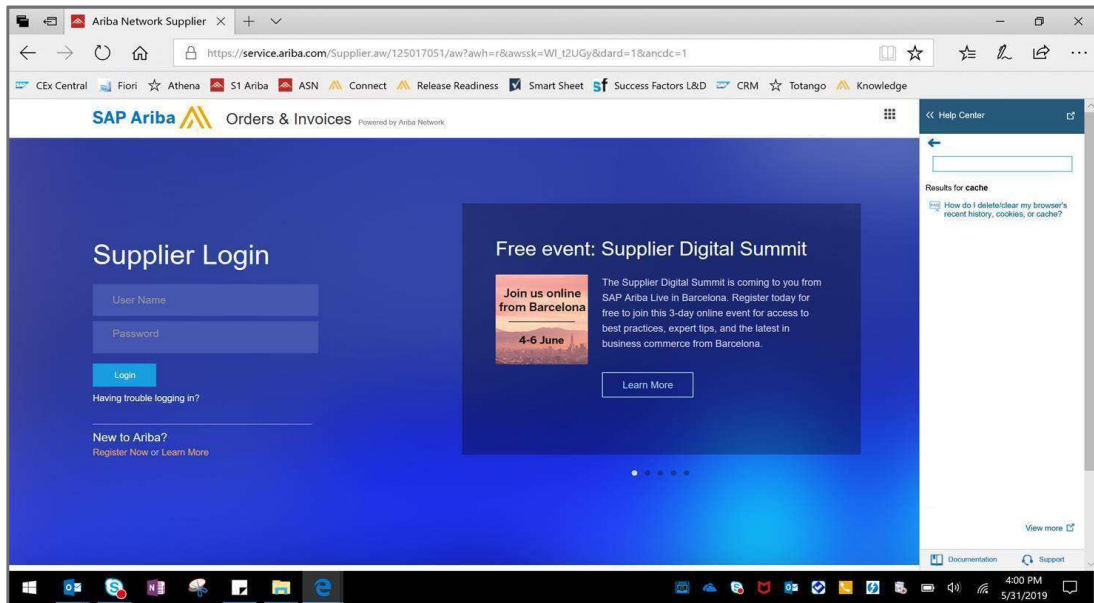
Attachments: Attach a file

Deer Sir,
Can we submit the price ??
Regards
ABC

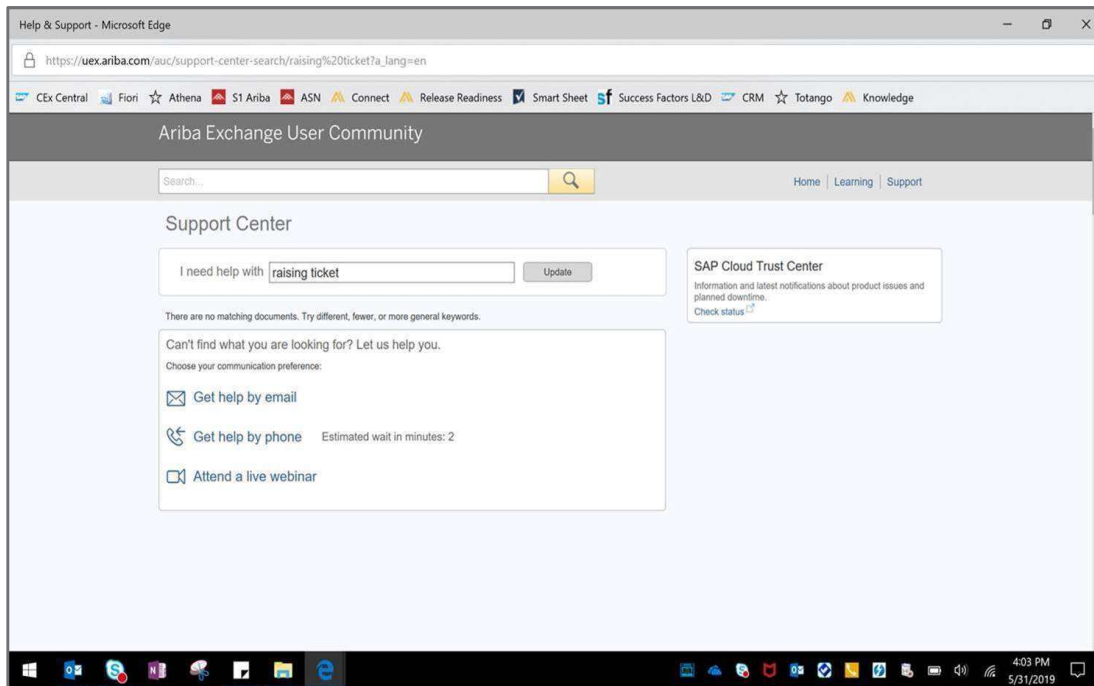
[Participating in a RFI or RFP on Ariba Network - https://www.youtube.com/watch?v=9_XXUaVyI7o](https://www.youtube.com/watch?v=9_XXUaVyI7o)

Here are the steps that Suppliers can follow for raising a ticket or requesting a call back from Support team. They can do so without logging in – pls follow the brief instructions given below.

1. Go to login page>Choose “Support” on the bottom right corner



2. Add query and press “Start” – After that, following screen will pop up where you can choose either Get Help by Email or Get Help by Phone.



Click **Add Ship-to or Service Locations** to select one or more sales territories from a list. You can add, refine, or remove ship-to or service locations any time after the registration process.

Additional Information: - D-U-N-S is a registered trademark of Dun & Bradstreet or its subsidiaries in the United States and other countries.

 **What is the difference between the Email and Username fields in my profile?**

Answer: - The Email field represents the email address where you wish to receive email notifications. The Username field is the identifier that you use to access your account. The Username field must be in email format, but you do not have to use a valid email address.

Note: Leave the **This is my username** box checked if you want your email address to be the same as your username.

 **How do I participate in my buyer's event using an email invitation?**

Answer: - Use the **Click here** link in the email notification to access the sourcing event.

While buyers might customize the email content you receive, all email invitations contain a link to access the event.

Depending on your previous experience with Ariba solutions, do one of the following to access the event after you click the link:

- If you are new user, click **Continue** on the welcome page. You continue to register an Ariba account to link with your buyer and participate in the event.
- If you have used Ariba before and have already accessed an event for the buyer-specific account with your current log in ID, click the **Login** button to continue. Log in with your Ariba username and password in order to participate in the event.
- If you already have an existing Ariba Network, Ariba Discovery, or Ariba Sourcing supplier account, but you have not accessed any events for the inviting buyer's site, use the **Click here if you already have an Ariba Commerce Cloud, Ariba Discovery or Ariba Network account** link. After clicking the link, log in with your existing account to move your information to your buyer's site.

Additional Information:- Registering an Ariba account provides you with a consolidated view of all your customer relationships. With this one profile, you can view business opportunities, participate in sourcing events, participate in contract negotiations, and manage orders, catalogs, and invoices.

 **Why doesn't the link in the email invitation to participate in a sourcing event work?**

Answer:-If you cannot click the link, or the link does not open the log in page, highlight and copy the Uniform Resource Locator (URL), and then paste the URL into your web browser.

 **Can my company have multiple accounts?**

Answer:-Your Company can have multiple Ariba accounts, depending on your business needs. For example, if your company has several locations around the world, you might want a separate account for each region.

Most companies choose to have one account with multiple customer relationships, which provides a centralized location to maintain their company profile information and all of their customer relationships.

How do I complete registration if my username already exists?

Answer: - This message means that you already have an Ariba Network, Ariba Discovery, or Ariba Sourcing supplier account registered under username you entered. You can either register a new account by creating a new username, or access one of the following sites to request a password reset for the registered username:

- [Ariba Network](#) (This login page is used for all Ariba Network, Ariba Sourcing, or Ariba Contracts suppliers).
- [Ariba Discovery login page](#)

To reset your password, click the **Having trouble logging in?** Link on the Login page.

Nothing happens when I click Forgot Username and enter my email address

Issue: - Nothing happens when I click the **Forgot Username** link and enter my email address.

Cause: - After you submit your request to retrieve your username, the Ariba Network sends an email notification with usernames that match the email address you submitted.

Some possible reasons why you may not receive this username retrieval email notification:

- The email address on your account does not match the email address you entered when submitting the request.
- Your buyer-specific account was deactivated before you could move it to the Ariba Commerce Cloud. Generally, that means you probably have not participated in an event with that buyer for a while.

Solution: -

- To ensure you receive this email notification:
- Make sure you type the email address configured within your account.

If your buyer-specific account has been deactivated, contact your buyer to determine how to proceed.

Where is my password reset email?

Answer: - After you submit your request for a password reset, Ariba sends instructions to the email address associated with your account. If you didn't receive a password reset email, check the following scenarios to troubleshoot.

The username you entered is in the wrong format, or it isn't associated with the email address you are checking.

- Keep in mind, your username is in the format of a full email address, but it can be associated with any email address you entered previously.
- Your username is also case-sensitive.
- To confirm that you are using the correct username and format, return to the Ariba login page, and click the **Having trouble logging in?** link (**Forgot Username** if you're working in Ariba Discovery).
 - Choose **I forgot my username**, and click **Continue**.
 - Enter the email address associated with your account, and click **Submit**.

- You will receive an email that lists the exact format of the username associated with the email you entered.

You entered the correct username, but you still didn't receive the password reset email notification.

- This can occur if the configured email address is different from the account you are checking.
- You might have multiple accounts for your company, so make sure you are attempting to access the correct account.

Your email configuration or company's security settings might also prevent you from receiving the password reset email. To find out, check your junk mail folder or email filter settings to verify that automated emails from Ariba are not blocked from your email account.

 **Why do I get this message on the SAP Ariba Login page: "The username and password pair you entered was not found"?**

Answer: - You entered an incorrect **Username** or **Password**. You might receive this message if you entered a previous **Username** or **Password**. Remember that your **Username** has the format of an email address, and both the **Username** and **Password** are case sensitive.

Click the **Having trouble logging in?** Link on the Login page if you don't remember your log in information.