

Procedure to Participate in Tender

Tender Enquiry No- TPCODL/CCG/1000001772/2024-25

Tender Enquiry No.	Work Description	EMD* (Rs.)	Tender Fee** (Rs.)	Last Date for payment of Tender Fee
TPCODL/CCG/1000001772/24-25	Rate Contract for Supply of Grid Connected Roof Top Solar Panel and Installation Kit (ballast type structures) with capacity of 1 KWp per Households at all four Odisha DISCOMs	15,00,00,000	5,000	27.01.2025

* EMD is exempted for MSME Bidders registered in the State of Odisha. However, MSME 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. MSME BAs needs to submit Bid Security Declaration.

** MSMEs registered in the State of Odisha shall pay tender fee of Rs. 1,000/- including GST.

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

Procedure to Participate in Tender.

Following steps are to be followed before “Last date for Payment of Tender Fee”:

- Eligible and Interested Bidders to submit duly signed and stamped letter on Bidder's letter head indicating
 - Tender Enquiry number
 - Name of authorized person
 - Contact number
 - E-mail id
 - Details of submission of Tender Fee
 - GST Registration No
 - Details of submission of Tender Fee
 - MSME Certificate, wherever applicable
 - Details of Bank Account for refund of EMD
 - Postal Address for refund of EMD
- Non-Refundable Tender Fee, as indicated in table above, to be submitted in the form of Direct Deposit in the following bank account and submit the receipt along with a covering letter clearly indicating the Tender Reference/ Enquiry Number –

Beneficiary Name: TP Central Odisha Distribution Ltd.
 Bank Name: STATE BANK OF INDIA
 Branch Name: IDCO Towers, Bhubaneswar
 Address: P.O. - Sahidnagar, Janapath, Bhubaneswar.
 Branch Code: 7891



NIT No.: TPCODL/CCG/1000001772/2024-25

Account No: 10835304915
IFSC Code: SBIN0007891

E-mail with necessary attachment of 1 and 2 above to be sent to arijeet.choudhury@tpcentralodisha.com, and sony.iha@tpcentralodisha.com before last date and time for payment of Tender Fee.

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

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

All communication shall be held only with the bidders who have carried out the above steps to participate in the Tender.

It is to be noted that once date of "Last date and time for Payment of Tender Participation Fee" is lapsed, no Bidder will be sent link from TPCODL E-Tender System (Ariba). Without this link, bidder will not be able to participate in the tender. Any last moment request to participate in tender will not be considered.

Further, all future corrigendum to the said tender will be uploaded in the Tender section on website <https://www.tpcentralodisha.com>.



NIT No.: TPCODL/CCG/1000001772/2024-25

OPEN TENDER NOTIFICATION

FOR

**RATE CONTRACT FOR SUPPLY OF GRID
CONNECTED ROOF TOP SOLAR PANEL AND
INSTALLATION KIT (BALLAST TYPE STRUCTURES)
WITH CAPACITY OF 1 KWP PER HOUSEHOLDS AT
ALL FOUR ODISHA DISCOMS**

Tender Enquiry No.: TPCODL/CCG/1000001772/24-25

Due Date for Bid Submission: 07.02.2025 [15:00 Hours]

**TP Central Odisha Distribution Limited
1st Floor, Anuj Building, Plot No.29, Satya Nagar,
Bhubaneswar, Odisha 751007**

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1.0 Event Information

1.1. Scope of work

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

S. No.	Description	EMD Amount (Rs.)	Tender Fee (Rs.)
1.	Rate Contract for Supply of Grid Connected Roof Top Solar Panel and Installation Kit (ballast type structures) with capacity of 1 KWp per Households at all four Odisha DISCOMs	Rs. 15,00,00,000	5,000

Note: Tender Fee is inclusive of GST

1.2. Availability of Tender Documents

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

1.3. Calendar of Events

(a)	Date of sale/ availability of tender documents from TPCODL Website	From 22.01.2025 onwards
(b)	Date by which Interested and Eligible Bidder to pay Tender Fee and confirm participation as mentioned in "Procedure to Participate in Tender"	27.01.2025
(c)	Last Date of receipt of pre-bid queries, if any	30.01.2025
(d)	Pre-Bid Meeting*	01.02.2025
(e)	Last Date of Posting Consolidated replies to all the pre-bid queries as received	03.02.2025
(f)	Last date and time of receipt of Bids	07.02.2025; 15:00 Hours
(g)	Date & Time of opening technical bids & EMD (Envelope-1 & 2)	Participating Bidders will get mail intimation from TPCODL E-Tender system (Ariba) when their Technical Bids are opened.
(h)	Date & Time of opening of Price bid of qualified bidders	Bidders will get mail intimation from TPCODL E-tender system (Ariba) when their Price Bids are opened

**Pre-Bid Meeting Time and Venue details shall be shared later*

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

1.4 Mandatory documents required along with the Bid

- 1.4.1 EMD of requisite value and validity
- 1.4.2 Tender Fee of requisite amount
- 1.4.3 Requisite Documents for compliance to Qualification Criteria mentioned in Clause 1.7.

- 1.4.4 Drawing, Type Test report of PV modules and Inverter. STAAD design report for Module Mounting Structure, along with a sample of each item as specified at Annexure I (as applicable)
- 1.4.5 Duly signed and stamped 'Schedule of Deviations' as per Annexure III on bidder's letter head.
- 1.4.6 Duly signed and stamped 'Schedule of Commercial Specifications' as per Annexure IV on bidder's letter head.
- 1.4.7 Proper authorization letter/ Power of Attorney to sign the tender on the behalf of bidder.
- 1.4.8 Copy of PAN, GST, PF and ESI Registration (In case any of these documents is not available with the bidder, same to be explicitly mentioned in the 'Schedule of Deviations')
- 1.4.9 Documents for safety bid evaluation as per Appendix 13: CSM-F-9 Safety Bid Evaluation Criteria

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

1.5. Deviation from Tender

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

1.6. Right of Acceptance/Rejection

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

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

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

1.7 Qualification Requirement / Eligibility Criteria

1. The bidder should have average annual turnover of Rs. 100 Cr. in last three financial years from (FY 21-22, FY 22-23 & FY 23-24). **Audited Balance sheet and profit & loss account statements to be submitted.**
2. Bidder should have done a minimum of 25,000 successful shipment in PMSGY scheme by own or through authorized channel partner. **Bidder should submit the supporting documents in this regards.**
3. Bidder should have a minimum in-house DCR cell & Module installed manufacturing capacity of 2 GW/annum each, to ensure no supply disruption of requisite module for PMSGY Odisha scheme. **Bidder should submit the supporting documents in this regards.**

4. Bidder or OEM should in house structure design development. Bidder should be Solar PV Modular Manufacturer with 500Wp Monocrystalline or above rated Monocrystalline PV Module. **Details of manufacturing units, locations and works from where supply against this tender shall be proposed to be furnished along with Factory License Certificate / MoA mentioning nature of Business.**
5. Bidder should be a company registered in India with an office in Odisha or any local tie up with Firm presence in Odisha. **Bidder should submit the undertaking and details of address in this regard.** In Case there is no registered office in Odisha then the BA shall submit a self-declaration that they will open an Office in Odisha within 15 Days from the Date of Issuance of Order.
6. Bidder should have warehouses in Each Odisha DISCOM. **Bidder should submit the undertaking and details of address in this regard.** In case warehouses are not available at Each Odisha DISCOM Service Area, then the BA shall submit a self-declaration that they will open warehouses within 15 Days from the Date of Issuance of Order.
7. A bidder in joint venture / consortium shall not be allowed to participate in the Tender. **Bidder has to submit self- undertaking for the same.**
8. Solar modules used in the installation must satisfy the Domestic Content Requirement Condition i.e., domestically manufactured modules manufactured from domestically manufactured cells. **Bidder has to submit self- undertaking for the same.**
9. The bidder must have applicable statutory compliance like valid PAN no. and GSTIN etc. **The bidder must submit the copy of all these registrations/supporting document.**
10. Bidder should ensure minimum 8 years warranty on inverter and 25 years of performance warranty for modules (Min 80% at the end of 25th year). **Bidder has to submit self- undertaking for the same.**

1.8. Marketing Integrity

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

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

1.9. Supplier Confidentiality

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

2.0 Evaluation Criteria

- The bids will be evaluated technically on the compliance to tender terms and conditions
- The bids will be evaluated commercially on all-inclusive lowest cost for overall tender BOQ as calculated in Schedule of Items [Annexure I]. Hence, all bidders are advised to quote their most competitive rates against each line item.
- Bidder has to mandatorily quote against each item of Schedule of Items [Annexure I]. Failing to do so, TPCODL may reject the bids.

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

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

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

3.0 Submission of Bid Documents

3.1 Bid Submission

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

Bids shall be submitted in 3 (three) parts:

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

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

Account Name: TP CENTRAL ODISHA DISTRIBUTION LIMITED

Bank Name: SBI, IDCO Towers, Bhubaneswar

Bank Account No. : 10835304915

IFSC Code: SBIN0007891

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

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

Chief (Procurement & Stores)

TP Central Odisha Distribution Limited

1st Floor, Anuj Building, Plot No.29, Satya Nagar, Bhubaneswar, Odisha 751007

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

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- a) Documentary evidence in support of qualifying criteria
- b) Technical literature/GTP/Type test report etc. (if applicable)
- c) Qualified manpower (if available)
- d) Testing facilities (if applicable)
- e) No Deviation Certificate as per the Annexure III – Schedule of Deviations
- f) Acceptance to Commercial Terms and Conditions viz. Delivery schedule/period, payment terms etc. as per the Annexure IV – Schedule of Commercial Specifications.
- g) Quality Assurance Plan/Inspection Test Plan for supply items (if applicable)
- h) Project Implementation Plan including Level 2 Schedule for the project
- i) Unpriced mentioning “Quoted/Not Quoted” against all line items (Prices should not be mentioned)

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

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

THIRD PART: “PRICE BID” shall contain only the price details and strictly in format as mentioned in Annexure I along with explicit break up of basic prices, Taxes & duties, Freight etc. In case any discrepancy is observed between the item description stated in Schedule of Items mentioned in the tender and the price bid submitted by the bidder, the item description as mentioned in the tender document (to the extent modified through Corrigendum issued if any) shall prevail. Price Bid is to be submitted in soft copy through TPCODL E-Tendering system (Ariba) only. Hard copy of Price Bid not be submitted.

SIGNING OF BID DOCUMENTS:

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

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

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

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

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

3.2 Contact Information

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

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

Communication Details:

Package Owner

Name: Arijeet Choudhury
Designation: Procurement (Commercial Services)
Contact No.: 9871432126
E-Mail ID: arijeet.choudhury@tpcentralodisha.com

Escalation Matrix

Name: Sony Jha (HoD Procurement)
Contact No.: 9204752050
E-Mail ID: sony.jha@tpcentralodisha.com

Name: Vipin Chauhan (Head – Contracts (CCG))
Contact No.: 9717393121
E-Mail ID: Vipin.Chauhan@tpnodl.com

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

3.3 Bid Prices

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

Applicable GST to be specified clearly.

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

3.4 Bid Currencies

Prices shall be quoted in Indian Rupees Only.

3.5 Period of Validity of Bids

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

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

3.6 Alternative Bids

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

3.7 Modifications and Withdrawal of Bids

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

3.8 Earnest Money Deposit (EMD)

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

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

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

The EMD shall be forfeited in case:

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

Or

- b) The successful Bidder does not
- a) accept the Purchase Order, or
 - b) furnish the required Performance Security Bank Guarantee

4 Bid Opening & Evaluation process

4.1. Process to be confidential

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

4.2. Technical Bid Opening

The bids shall be opened at TPCODL office in front of participated bidders either physically or in virtual mode. A link shall be provided to the participated bidders to view the tender opening process online. Also Participating Bidders shall get mail intimation from TPCODL E-Tender system (Ariba) when their Technical Bids are opened.

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

Next, the technical bid of the bidders who have furnished the requisite EMD will be opened, one by one. The salient particulars of the techno commercial bid will be read out at the sole discretion of TPCODL.

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

4.3. Preliminary Examination of Bids/Responsiveness

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

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

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

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

4.4. Techno Commercial Clarifications

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

4.5. Price Bid Opening

The bids shall be opened at TPCODL office in front of Techno-commercially and / or safety qualified bidders either physically or in virtual mode. A link shall be provided to the bidders to view the price-bid opening process online. Bidders shall also get mail intimation from TPCODL E-Tender system (Ariba) when their Price Bids are opened.

4.6. Reverse Auctions

TPCODL reserves the right to conduct the reverse auction as per below approach:

No of bidders allowed to participate 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 be award to single bidder.

PLUS 2 means (01 + 02 = 03) means lowest 3 bidders i.e., L1 to L3 bidders would be allowed in the RA process. Balance, H1 to H7 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 6 & tender needs to be award to single bidder. PLUS 2 means (01 + 02 = 03), so all 3 qualified bidders would be allowed in the RA process.

4.7 Award Decision

TPCODL will award the contract to the successful bidder whose bid has been determined to be the lowest-evaluated responsive bid as per the Evaluation Criterion mentioned at Clause 2.0. The Cost for the said calculation shall be taken as the all-inclusive cost quoted by bidder in Annexure I (Schedule of Items) subject to any corrections required in line with Clause 4.3 above. The decision to place purchase order/LOI solely depends on TPCODL on the cost competitiveness across multiple lots, quality, delivery and bidder's capacity, in addition to other factors that TPCODL may deem relevant.

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

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

5 Order of Preference/Contradiction

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

1. Schedule of Items (Annexure I)
2. Post Award Contract Administration (Clause 7.0)
3. Submission of Bid Documents (Clause 3.0)
4. Scope of Work and SLA (Annexure VII)
5. Technical Specifications (Annexure II)
6. Acceptance Form for Participation in Reverse Auction (Annexure VI)
7. General Conditions of Contract (Annexure VIII)

6 Post Award Contract Administration

7.1. Special Conditions of Contract

1. The Rate contract shall be issued with validity till March'2027. Release Order (RO) shall be placed as per the requirement of Odisha DISCOM. Rate shall remain FIRM till the validity of Rate Contract.
2. Business Associate (BA) shall submit applicable Performance Bank Guarantee in favour of Respective DISCOM as per GCC within 15 days of issuance of rate contract or release order. PBG applicable shall be 5% of Rate Contract Value. BG shall be valid for a period of 5 Years plus six month of claim period from the date of issuance of RC/RO.
3. Any change in statutory taxes, duties and levies during the contract period shall be borne by Odisha DISCOMs. However, in case of delay in work execution owing to reasons not attributable to Odisha DISCOMs, any increase in total liability shall be passed on the Bidder, whereas any benefits arising owing to such statutory variation in taxes and duties shall be passed on Odisha DISCOM.
4. In case any additional material is to be asked to supply after finalization of scope of work in the detailed Engineering, the Extra price and the extension of delivery time (if applicable) as the case may be mutually agreed between Odisha DISCOM and Successful Bidder.
5. DISCOM reserves the right to make changes to the scope of work with a view to optimize on the overall cost to DISCOM. BA shall fully cooperate with TPCODL in making such changes with an aim for overall cost optimization. The revised charges for Contract shall be jointly agreed upon between DISCOM and BA in such case.

6. All the terms and conditions of DISCOM General Conditions of Contract for Supply Orders shall be applicable.

7.2 Drawing Submission and Approval (If Applicable)

The relevant drawings and GTPs need to be submitted by BA within two weeks of receipt of Rate Contract. In case, re-submission of drawings is required on request of TPCODL, same needs to be submitted back to TPCODL within 5 days of such request.

Wherever TPCODL specifications are not available, relevant IS/IEC to be followed. All Drawings mentioned in the Tender Specification and other required for the completeness of the tender shall be submitted. Drawing submission process shall not be deemed complete of all the requirements are not complied during the submission of the same

7.3 Delivery Timelines

Business Associate shall ensure supply of the material as per mutually agreed timeline between DISCOM and Business Associate.

7.4 Warranty Period, if applicable.

The supplier should ensure minimum 8 years warranty period on inverter and 25 years of performance warranty for modules from the last date of receipt of material in good condition at designated store for each consignment. The bidder shall be liable to undertake the replacement or rectify defects of the material failed during the guarantee period at his own cost within mutually agreed timeframe.

7.5 Payment Terms

Payment to be made within 30 Days after the successful submission of Project Completion report.

7.6 Climate Change

Significant quantities of waste are generated during the execution of project and an integrated approach for effective handling, storage, transportation and disposal of the same shall be adopted. This would ensure the minimization of environmental and social impact in order to combat the climate change. Please refer attached Environment Policy and Sustainability Policy, Annexure-XI for more details.

7.7 Ethics

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

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

- We shall select our suppliers and service providers fairly and transparently.
- We seek to work with suppliers and service providers who can demonstrate that they share similar values. We expect them to adopt ethical standards comparable to our own.
- Our suppliers and service providers shall represent our company only with duly authorized written permission from our company. They are expected to abide by the Code in their interactions with, and on behalf of us, including respecting the confidentiality of information shared with them.

- We shall ensure that any gifts or hospitality received from, or given to, our suppliers or service providers comply with our company's gifts and hospitality policy.
- We respect our obligations on the use of third party intellectual property and data.

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

Any ethical concerns with respect to this tender can be reported to Chief Ethics Counselor to the following e-mail ID: Chief Ethics Counselor Ethics@tpcentralodisha.com

8 Specification and standards

As per Annexure.

9 General Condition of Contract

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

10 Safety

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

ANNEXURE I
SCHEDULE FOR ITEMS

S. No.	Item Description	Total All DISCOM Qty.	UoM	Unit Rate per KW (Rs.)	GST (Rs.)	All Incl. unit rate (Rs.)	All incl. BOQ Price (Rs.)
		A		(B)	(C)	(D=B+C)	(E=AxD)
1	Supply of Grid Connected Roof Top Solar Panel and Installation Kit (ballast type structures) with capacity of 1 KWp per Households at all four Odisha DISCOMs Service Area	3,00,000	EA			-	-

Signature & Seal of the Bidder

NOTE:

- The bidders are advised to quote prices strictly in the format attached.
- The bidder must fill each and every column of the format attached. ***Mentioning “extra/inclusive” in any of the column may lead for rejection of the price bid.***
- No cutting/ overwriting in the prices is permissible.
- The unit price should be exclusive of taxes & duties which are to be indicated in separate columns meant for the purpose.
- The bids will be evaluated commercially on “**all-inclusive line item-wise lowest unit rate**”
- The prices shall be FOR DISCOM Locations.
- All the costs pertaining to ROW/or any other expenses for execution of work is included in the scope of BA. Accordingly, the BA needs to consider this cost while submitting their Price Bid.

ANNEXURE II
TECHNICAL SPECIFICATIONS

Odisha DISCOMs intends to install residential PV solar system of 1kW capacity through PMSG Muft Bijli Yojna scheme at its shortlisted customer's premises. For this purpose, Odisha DISCOMs intends to invite bids from qualifying vendors who can supply these PV solar systems to Odisha DISCOMs at a single point location (One for Each DISCOM) identified by Odisha DISCOMs.

All the materials should follow the specifications and standards mentioned in the tender or may follow a higher standard.

• **DEFINITION**

The proposed Roof Top Solar (RTS) Photo Voltaic (PV) system shall consist of the following equipment/components:

1. Solar Photo Voltaic (SPV) modules consisting of required number of Mono-crystalline PV modules
2. Module Mounting Structure (MMS)
3. Foundation – Ballast type
4. Micro Inverter
5. AC Distribution Box
6. Protections – Earthing, Lightning, Surge
7. AC and DC Cables
8. Installation accessories (MC-4 Connector, uPVC conduits, terminals, cable ties, etc.)

1. Solar PV modules

- 1.1 Domestic Manufactured Solar PV modules using domestically manufactured Solar cells shall be used in the Scheme.
- 1.2 The PV modules used must qualify to the latest edition of IEC standards or equivalent BIS standards, i.e. IEC 61215/IS14286, IEC 61853-Part I/IS 16170-Part I, IEC 61730 Part-1 & Part 2 and IEC 62804 (PID). For the PV modules to be used in a highly corrosive atmosphere throughout their lifetime, they must qualify to IEC 61701/IS 61701.
- 1.3 The modules should have BIS certification.
- 1.4 The rated power of solar PV module shall have positive tolerance +3%.
- 1.5 The peak-power point current of any supplied module string (series connected modules) shall not vary by +1% from the respective arithmetic means for all modules and/or for all module strings (connected to the same MPPT), as the case may be.
- 1.6 The peak-power point voltage of any supplied module string (series connected modules) shall not vary by + 2% from the respective arithmetic means for all modules and/or for all module strings (connected to the same MPPT), as the case may be.
- 1.7 The temperature co-efficient power of the PV module shall be equal to or better than - 0.45%/°C.
- 1.8 Solar PV modules capacity to be used should adhere to the Approved List of Models and Manufacturers (ALMM) of Solar Photovoltaic Modules (Requirement for Compulsory Registration) Order 2019 - Implementation issued vide OM NO. 283/54/2018-GRID SOLAR - Part (I) Dated 10th March 2021 and subsequent amendments.
- 1.9 Solar PV modules of ~~minimum capacity~~ 500 Wp with a tolerance of -1% till +2% to be used.
- 1.10 Solar PV modules of minimum fill factor 75%, to be used.

- 1.11 All electrical parameters at STC (as per IEC standard) shall have to be provided.
- 1.12 All PV modules should carry a performance warranty of >90% during the first 10 years, and >80% during the next 15 years. Further, the module shall have performance warranty of >97% during the first year of installation—degradation of the module below 0.5 % per annum.
- 1.13 The manufacturer should warrant the Solar Module(s) to be free from the defects and/or failures specified below for a period not less than five (05) years from the date of commissioning:
 - i. Defects and/or failures due to manufacturing.
 - ii. Defects and/or failures due to quality of materials.
 - iii. Nonconformity to specifications due to faulty manufacturing and/or inspection processes. If the solar Module(s) fails to conform to this warranty, the manufacturer will repair or replace the solar module(s) at the Owners sole option.
- 1.14 The vendor shall submit the IEC and BIS documents for the offered PV modules at the time of bidding.
- 1.15 Modules deployed must use a RF identification tag laminated inside the glass. The following information must be mentioned in the RFID used on each module:
 - i. Name of the manufacturer of the PV module
 - ii. Name of the manufacturer of Solar Cells.
 - iii. Month & year of the manufacture (separate for solar cells and modules)
 - iv. Country of origin (separately for solar cells and module)
 - v. I-V curve for the module Wattage, I_m , V_m and FF for the module
 - vi. Unique Serial No and Model No of the module
 - vii. Date and year of obtaining IEC PV module qualification certificate.
 - viii. Name of the test lab issuing IEC certificate.
 - ix. Other relevant information on the traceability of solar cells and modules as per ISO 9001 and ISO 14001.
 - x. Nominal wattage +3%
 - xi. Name, if applicable.
- 1.16 Other details as per IS/IEC 61730-1 clause 11 should be provided at the appropriate place. In addition to the above, the following information should also be provided:
 - i. The actual Power Output P_{max} shall be mentioned on the label pasted on the back side of PV Module.
 - ii. The Maximum system voltage for which the module is suitable to be provided on the back sheet of the module.
 - iii. Polarity of terminals or leads (color coding is permissible) on junction Box housing near cable entry or cable and connector.
 - iv. Unique Serial No, Model No, Name of Manufacturer, Manufacturing year, Make in India logo and module wattage details should be displayed inside the laminated glass.

2. Module Mounting Structure (MMS)

- 2.1 Supply of module mounting structure (MMS) with all necessary accessories shall be in the scope of the work.
- 2.2 Module mounting structures shall be made of Hot Dip Galvanized (HDG) Iron. There shall be no machining operation (drilling, cutting, punching etc.) permitted after the HDG process to prevent corrosion of the structure. HDG structures which are painted or cold zinc sprayed at machined surfaces are also not acceptable for this project.

- 2.3 Any welding operation shall be carried out before the galvanization process. Wherever welding is necessary MIG welding process shall be used. Ordinary arc welding is not acceptable.
- 2.4 MMS Steel shall be as per IS 2062: 2011 or IS 1079. The grade and designation of the material shall be as per IS 2062 E350A or IS 1079 with minimum Yield Strength of 350MPa. Galvanization of the mounting structure shall be in compliant to the latest IS 4759 or IS 2629. Galvanization shall be carried out to a minimum thickness of 80microns.
- 2.5 All bolts, nuts, fasteners shall be of stainless steel of grade SS 304 A2-70, panel mounting must sustain the adverse climatic conditions. Structural material shall be corrosion resistant and electrolytically compatible with the materials used in the module frame, its fasteners, nuts and bolts.
- 2.6 The module mounting structures should have an angle of inclination of 15 degrees to take maximum insolation and complete shadow-free operation during generation hours.
- 2.7 The Mounting structure shall be designed to withstand minimum wind speed of 180km/h. The structure shall be designed as per IS 875 part 3. The structure design shall be simulated using STAAD simulation software and the STAAD report shall be vetted by a reputed 3rd party engineering consultant.
- 2.8 The structure design shall be such that the mounting of the MMS should not require any sort of roof penetration. Bolted or Anchored MMS foundation will not be acceptable. The structure shall be mounted on dead weight ballast only.
- 2.9 The structures shall be designed to allow easy replacement, repairing and cleaning of any module. The array structure shall be so designed that it will occupy minimum space without sacrificing the output from the PV panels.
- 2.10 The structure shall have provision for mounting equipment like micro inverter, ACDB and Lightning arrestor.
- 2.11 Adequate spacing shall be provided between two panel frames and rows of panels to facilitate movement of hot air draft. The front side of the module shall have a minimum clearance of 240mm from the roof level.
- 2.12 The structure shall be designed to withstand operating environmental conditions for a period of a minimum of 25 years.

3. Foundation – Ballast Type

- 3.1 The mounting structure must be non-invasive ballast type and any sort of penetration of roof will not be permitted.
- 3.2 The structure ballast shall be designed ergonomically. The manually handled single ballast weight shall not be more than 40 kg. Appropriate handling grooves shall be provided in the ballast for ease of handling and transportation purpose.
- 3.3 The minimum ballast weight per module in any case shall not be less than 160kg and total dead weight for 1 kW installation should not be less than 320kg.
- 3.4 The ballast shall be designed for a wind speed of 180km/h at a module tilt angle of 15 degrees and a minimum building height of 10m.
- 3.5 The structures should be suitably loaded with reinforced concrete blocks of appropriate weight made out of M20 concrete mixture. The mix ratio shall not be less than 1: 1.5: 3 (cement: sand: aggregate). Minimum aggregate size shall not be less than 20mm size as per IS 456.
- 3.6 The structure shall be bolted to the ballast with help of foundation bolt. The foundation bolt shall be of minimum M10 size and 250mm length. The bolt material shall conform to ISO 898- Part-1 standard with material grade 8.8. The bolt shall be hot dip

galvanized to a minimum thickness of 20 microns. The bolt shall have a horizontal anchor rod for proper anchoring of the ballast to be concrete.

3.7 The ballast shall be with reinforced steel and the minimum size of the reinforced steel shall be 8mm with a strength of FE550D conforming to IS 1786.

3.8 The ballast shall be supplied in a cured form only. The ballast cannot be fabricated at site. The curing of the ballast shall be carried out for at least 14 days by regularly pouring water. The ballast shall not be left dry at any time after setting up to a span of 14 days. The ballast shall exhibit strength of minimum M20 concrete.

4. Micro Inverter

4.1 The inverters should be microinverter type and shall be with galvanic isolation.

4.2 Micro inverters should comply with applicable IEC/equivalent BIS standard for efficiency measurements and environmental tests as per standard codes IEC 61683/IS 61683, IEC 60068- 2(1,2,14,30) /Equivalent BIS Std.

4.3 All inverters/PCUs shall be IEC 61000 compliant for electromagnetic compatibility, harmonics, Surge, etc.

4.4 The micro inverter shall be naturally cooled without necessity of any forced cooling system.

4.5 The micro inverter earthing shall be as per the recommendations of the OEM of the Inverter.

4.6 The micro inverter shall have the capability to connect PV modules directly into the inverter without necessity of any Array Junction Box or DC Distribution Box.

4.7 The micro inverter shall have a valid BIS certificate.

4.8 Typical technical features of the inverter shall be as follows-

- i. Switching devices: IGBT/MOSFET
- ii. Phase: Single
- iii. Inverter Type: Micro Inverter
- iv. Minimum AC Power: 1kW
- v. No. of MPPT: 2 Nos.
- vi. MPPT Voltage Range: as per the offered PV Module.
- vii. Nominal AC output voltage and frequency: as per CEA/State regulations
- viii. Grid Frequency Synchronization range: as per CEA/State Regulations
- ix. Ambient temperature considered: -20°C to 60°C
- x. Humidity: 95 % non-condensing
- xi. Protection of Enclosure: IP-67(Minimum) for outdoor.
- xii. Grid Frequency Tolerance range: as per CEA/State regulations
- xiii. Grid Voltage tolerance: as per CEA/State Regulations
- xiv. Inverter peak efficiency (Min.): >95% or higher
- xv. THD: < 3%
- xvi. PF Range: 0.8 lead and 0.8 lag.

4.9 The output power factor of inverter should be suitable for all voltage ranges or sink of reactive power, inverter should have internal protection arrangement against any sustain fault in feeder line and against the lightning on feeder.

4.10 All the Inverters should contain the following clear and indelible Marking Label & Warning Label as per IS16221 Part II, clause 5. The equipment shall, as a minimum, be permanently marked with:

- i. The name or trademark of the manufacturer or supplier;
- ii. A model number, name or other means to identify the equipment,

- iii. A serial number, code or other marking allowing identification of manufacturing location and the manufacturing batch or date within a twelve-month time period.
 - iv. Input voltage, type of voltage (a.c. or d.c.), frequency, and maximum continuous current for each input.
 - v. Output voltage, type of voltage (a.c. or d.c.), frequency, maximum continuous current, and for a.c. outputs, either the power or power factor for each output.
 - vi. The Ingress Protection (IP) rating
- 4.11 Inverter/PCU shall be capable of complete automatic operation including wake-up, synchronization & shutdown.
- 4.12 Integration of PV Power with Grid & Grid Islanding:
- i. The output power from SPV would be fed to the inverters/PCU which converts DC produced by SPV array to AC and feeds it into the main electricity grid after synchronization.
 - ii. In the event of a power failure on the electric grid, it is required that any independent power-producing inverters attached to the grid turn off in a short period of time. This prevents the DC-to-AC inverters from continuing to feed power into small sections of the grid, known as “islands.” Powered islands present a risk to workers who may expect the area to be unpowered, and they may also damage grid-tied equipment. The Rooftop PV system shall be equipped with islanding protection. In addition to disconnection from the grid (due to islanding protection) disconnection due to under and over voltage conditions shall also be provided, if not available in inverter.

- **Data Communication:**

Inverter shall have inbuilt features for wireless data communication to the remote end server using Wi-Fi facility. Wireless communication can be with in-built Wi-fi directly communicating to the customer Wi-fi Modem or through a intermediate repeater dongle communicating from Inverter to the repeater dongle and from the repeater dongle to the customer internet modem.

- **OEM Data server and App:**

The PV system data transmitted remotely shall be stored in the inverter OEM's cloud and displayed on the desktop computer or on the mobile App running Android OS.

The OEM cloud storage subscription shall be valid for at least the warranty period of the system. Each customer shall get unique login credentials for viewing the data parameters.

5. AC Distribution Box (ACDB):

- 5.1 AC Distribution Panel Board (DPB) shall control the AC power from inverter, and should have necessary surge arrestors. There is an interconnection from ACDB to mains at LT Bus bar while in grid tied mode.
- 5.2 All switches and circuit breakers, connectors should conform to IEC 60947:2019, part I, II and III/ IS 60947 part I, II and III.
- 5.3 The panels shall be designed for minimum expected ambient temperature of 45 degree Celsius, 80 percent humidity and dusty weather.
- 5.4 All indoor panels will have protection of IP 54 or better, as per site conditions. All outdoor panels will have protection of IP 65 or better, as per site conditions.
- 5.5 Should conform to Indian Electricity Act and CEA safety regulations (till last amendment).
- 5.6 All the 230 volts (or voltage levels as per CEA/State regulations) AC devices / equipment like circuit breakers, SPDs, etc. mounted inside the switchgear shall be

suitable for continuous operation and satisfactory performance under the following supply conditions.

- a. Variation in supply voltage: as per CEA/State regulations
- b. Variation in supply frequency: as per CEA/State regulations.

6 Protections:

The system should be provided with all necessary protections like earthing, Lightning, and Surge Protection, as described below:

6.1 Earthing Protection:

- i. The earthing shall be done in accordance with latest Standards.
- ii. The module, structure and Inverter shall be earthed.
- iii. The SPD of the ACDB shall be earthed.
- iv. Earthing for the micro inverter shall be as per the recommendations by the micro inverter manufacturer.
- v. Earth resistance should be as low as possible and shall never be higher than 5 ohms.
- vi. The minimum number of earth pits shall be 2 nos.

6.2 Lightning Protection

- i. The SPV power plants shall be provided with lightning protection. The main aim in this protection shall be to reduce the overvoltage to a tolerable value before it reaches the PV or other sub system components. The source of over voltage can be lightning, atmosphere disturbances etc.
- ii. The entire space occupying the SPV array shall be suitably protected against Lightning by deploying the required number of Lightning Arrestors (LAs). Lightning protection should be provided as per NFC17-102:2011/IEC 62305 standard.
- iii. The protection against induced high-svoltages shall be provided by the use of Metal Oxide Varistors (MOVs)/Franklin Rod type LA/Early streamer type LA.
- iv. The current carrying cable from lightning arrestor to the earth pit should have sufficient current carrying capacity according to IEC 62305. The down conductor for the lightning protection shall be made of Aluminum or Copper material.

6.3 Surge Protection

6.3.1 Internal surge protection, wherever required, shall be provided.

6.3.2 The ACDB shall have minimum Type 2 SPD for preventing voltage surges.

7 CABLES

- 7.1 All cables should conform to the latest edition of IEC/equivalent BIS Standards along with IEC 60227/IS694, IEC 60502/IS 1554 standards.
- 7.2 Cables should be flexible and should have good resistance to heat, cold, water, oil, abrasion etc.
- 7.3 Cables should have Multi Strand, annealed high conductivity copper conductor on DC side and copper/FRLS type Aluminum conductor on AC side. For DC cabling, multi-core cables shall not be used.
- 7.4 Cables should have an operating temperature range of -10°C to +80°C and voltage rating of 660/1000V.

- 7.5 Sizes of cables between array interconnections, array to junction boxes, junction boxes to Inverter etc. shall be so selected to keep the voltage drop less than 2% (DC Cable losses).
- 7.6 The size of each type of AC cable selected shall be based on minimum voltage drop. However, the maximum drop shall be limited to 2%.
- 7.7 The electric cables for DC systems for rated voltage of 1500 V shall conform to BIS 17293:2020.
- 7.8 All cable/wires are to be routed in a uPVC pipe and suitably tagged and marked.
- 7.9 The Cable should be so selected that it should be compatible up to the life of the solar PV panels i.e. 25 years.
- 7.10 All cables and conduit pipes shall be clamped to the rooftop, walls, and ceilings with thermo- plastic clamps at suitable intervals; the minimum DC cable size shall be 4.0 mm² copper; the minimum AC cable size shall be 2.5 mm² copper.

• DRAWINGS & MANUALS:

- Operation & Maintenance manual/user manual, Engineering and Electrical Drawings shall be supplied along with the power plant.
- The manual shall include complete system details such as array layout, schematic of the system, inverter details, working principle etc.
- The Manual should also include all the do's & don'ts of Power Plant along with Graphical Representation with indication of proper methodology for cleaning, Operation and Maintenance etc.
- Step by step maintenance and troubleshooting procedures shall also be given in the manual.

PMSGY 1 KWp System BOM

CATEGORY	DESCRIPTION	UOM	QTY
KIT 1 : Module	Solar PV module: 500 Wp(-1% to +2%), Monocrystalline	No's	2
Kit 2: Inverter	MICRO INVERTER	No's	1
Kit 3: Structure	Ballast type Module Mounting Structure for RCC Roof.	Set	1
	SS 304 Fasteners with washers (plain and spring), nuts and bolts.	Set	1
	RCC Ballast Foundation along with Foundation Bolt (M10x250mm)	Set	1
Kit 4: ACDB	ACDB with SPD 1ph	No's	1
Kit 5: Other BOS	SOLAR DC CABLE 4 SQMM BLACK EN50618	Mtrs	6
	CABLE, 3CX2.5 SQMM PVC COPPER, ROUND	Mtrs	15
	EARTHING KIT, 1m 14mm cu bonded rod	No's	2
	Lightening arrestor- height 1 Mtrs	Nos	1
	1CX10 sq mm AL single strand Earth cable	Mtrs	30
	1CX6 SQMM COPPER EARTHING CABLE	Mtrs	2
	MC4 Male & Female CABLE CONNECTOR	Set	1
	SCREW, M4X15, CHEESE HEAD, SS 304	No's	4
	NUT, M4, SS304	No's	4

CATEGORY	DESCRIPTION	UOM	QTY
	WASHER,M4,FLAT,SS	No's	8
	WASHER,M4,SPRING,SS	No's	4
	TERMINAL, PIN, FOR 2.5SQ.MM CABLE	No's	6
	CABLE TIE-99mm	No's	30
	LABEL, WARRANTY	No's	2
	TERMINAL, M8, RING FOR 10 SQ.MM CABLE	No's	5
	TERMINAL, PIN TYPE FOR 10 SQ.MM CABLE	No's	1
	TERMINAL, M6, RING FOR 6 SQ.MM	No's	6
	uPVC Conduit Pipe	Mtrs	18
	uPVC C Clamp or Saddle for 25mm PVC-U Conduit with 5mm holes for wall mounting	No's	5
	uPVC Round elbow - 90 deg with end socket for fixing 25mm PVC conduit	No's	5
	uPVC Round Tee - 90 deg with End socket for fixing 25mm PVC Conduit	No's	5
	uPVC Fisher/Roll Plug for wall mounting 25mm uPVC Space Saddle with 5mm holes	No's	10
	M3/16inchx14mm MS Electroplated fastener for wall mounting.	No's	10
	uPVC Coupler for 25mm uPVC Conduit	No's	5
	EARTHING BUCKET CHAMBER	No's	2
	PACKING COVER,POLYETHELENE,7"x10", ZIP LOCK	No's	3
	Packing Box	No's	1

ANNEXURE III
SCHEDULE OF DEVIATIONS

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

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

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

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

Seal of the Bidder:

Signature:

Name:

ANNEXURE IV

SCHEDULE OF COMMERCIAL SPECIFICATIONS

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

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

Seal of the Bidder:

Signature:

Name:

ANNEXURE V

CHECKLIST OF ALL THE DOCUMENTS TO BE SUBMITTED WITH THE BID

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

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

Seal of the Bidder:

Signature:

Name

ANNEXURE VI**ACCEPTANCE FORM FOR PARTICIPATION IN REVERSE AUCTION EVENT**

(To be signed and stamped by the bidder)

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

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

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

Signature & Seal of the Bidder

ANNEXURE VII
SCOPE OF WORK

Supply of Grid Connected Roof Top Solar Panel and Installation Kit with capacity of 1 KWp per Households at Odisha DISCOMs. Odisha DISCOMs targeted Supply, Erection, Testing and Commissioning of Grid-Connected Rooftop Solar Plant of 1 KWp Capacity for 3 Lacs Households in the Service area of Odisha DISCOMs till March'27.

The Scope of work includes the Supply of Grid Connected Roof Top Solar Panel and Installation Kit for each Households. BA has to supply the required material at their Warehouses situated at Bhubaneswar/ Berhampur/ Sambalpur/ Balasore in Odisha. Free supply of underperforming / defective materials for a period as per the warranty term.

Lifting of RTS Module and Installation Kit from respective Warehouse to customer site including installation is not in the scope of this tender.

Respective DISCOM shall issue Rate Contract to Business Associate, which shall be valid till 31 March 2027. Release Order (RO) shall be placed to BA by respective DISCOMs as per the requirement and BA have to provide the Module and installation kit within the designated timeframe.

Each 1KWp system will consist of 5 Kits: Module, Inverter, Structure, ACDB and Other BOS (Specified in BOM in ANNEXURE-II Technical Specification).

Exclusions:

- Cost of handling of the supply items from WH to client location - as well as- Ballast from respective locations up to client roof is NOT considered here.
- Installation of the solar system is excluded from the scope
- Supply and installation of energy meters is excluded from the scope
- Operation and maintenance service is excluded from the scope

ANNEXURE VIIa**PREFERENTIAL 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.

For past experience, instead of relying on the volumes / value of earlier Supplies / Projects, assessment of the Bidder shall be done on the basis of feedback from Customers. Past performance experience at Tata Power and its Group Companies shall supersede feedback from other Customers.

4. Reservation for MSME

It shall be mandatory to procure at least 20% of the total volume of the procurement from MSME registered in the State of Odisha (however, it shall not apply where goods/services are not available with the MSME), subject to matching L1 discovered prices and meeting technical specifications including quality requirements.

5. Performance Bank Guarantees

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



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ANNEXURE VIII
GENERAL CONDITIONS OF CONTRACT

General Conditions of Contract for Supply Orders.

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ANNEXURE IX
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: Pourush Garg <Pourush.Garg@tpcentralodisha.com>

CONFIDENTIAL

ANNEXURE X ENVIRONMENT & SUSTAINABILITY POLICY



TP CENTRAL ODISHA
DISTRIBUTION LIMITED
(A Joint Venture of Tata Power and Government of Odisha)



Integrated Management System Policy

Quality, Safety, Occupational Health, Environment

We at TP Central Odisha Distribution Limited are committed to deliver world class service and reliable power through an energised workforce leading to ever increasing satisfaction of its customers, environmental protection and safe and healthy working condition.

This will be achieved by:

- Complying with all the requirements of ISO-9001, ISO-14001 and ISO-45001 management system standards through engaged workforce
- Complying with applicable Legal requirements
- Continually improving Quality, Environment and Occupational Health & Safety Performance
- Ensuring Environmental protection through Prevention of Pollution
- Conservation of Natural Resources
- Creating a work environment which encourages team work, safe work practices, learning and innovation
- Providing safe and healthy conditions that prevents work related injury and illness
- Eliminating hazards and reducing OH&S Risk
- Ensuring participation and consultation of workers

This policy will be made available to interested parties.

Date: 1st June, 2023



Arvind Singh
Chief Executive Officer



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!

