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ODISHA POWER TRANSMISSION CORPORATION LTD.

(A Government of Odisha Undertaking)

CIN – U40102OR2004SGC007553

REGD. OFFICE: JANPATH, BHUBANESWAR – 751022,

OFFICE OF THE GENERAL MANAGER (Electrical)

EHT (O&M) Circle, Berhampur.

At-Bidyutpuri Colony, PO- Engineering school

TENDER SPECIFICATION NO- BAM-08/2023-24

**Supply of 15 Nos. outdoor type BMK at 220/132/33KV Grid S/S, Narendrapur
under EHT (O&M) Division, Berhampur**

PART-I

SECTION-I- INSTRUCTION TO TENDERERS

SECTION-II- GENERAL TERMS & CONDITIONS OF CONTRACT

SECTION-III- SCHEDULE OF QUANTITY

SECTION-IV- TECHNICAL SPECIFICATION AND OTHER DATASHEETS.

SECTION-V - LIST OF ANNEXURES

PART-II

PRICE BID & TECHNO COMMERCIAL BID (IN EXCEL FORMAT)

TELEPHONES / CONTACTS

1. General Manager: 9438907083
2. Technical Section: 9438908247

NOTE: -

1. In case the due date for opening of tender happens to be a holiday, then tenders would be received & opened on the next working day at the same time.
2. Please note that the tenders against this tender enquiry are being invited **through e-tendering mode**. In case of any clarification the prospective bidders may contact this office as mentioned above.
3. **The prospective bidders are requested to get their digital signatures (Class-3) well before time** for participation in the tender and no request for extension on this account will be entertained.
4. **Manual tenders in any form/case will not be accepted**



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REGD. OFFICE: JANPATH, BHUBANESWAR – 751022,

OFFICE OF THE GENERAL MANAGER (Electrical)

EHT (O&M) Circle, Berhampur

At: Bidyutpuri Colony, P.O: Engineering School Road, Berhampur-760010.

[E-mail-ehtm.cle.bam@optcl.co.in](mailto:ehtm.cle.bam@optcl.co.in)

E-TENDER NOTICE NO: BAM-08/2023-24

For and on behalf of ODISHA POWER TRANSMISSION CORPORATION LTD General Manager, EHT (O&M) Circle, Berhampur invites Tender from Reputed manufacturers/ Experienced suppliers/ Authorized Dealers/ Distributors/ OPTCL registered Vendors fulfilling the eligibility criteria of possessing valid I.T. Pan Card/ GST registration & clearance certificates, valid Authorization / Dealership Certificate etc. in two part bidding system for **Supply of 15 Nos. outdoor type BMK at 220/132/33KV Grid S/S, Narendrapur under EHT (O&M) Division, Berhampur.**

The interested bidders would be required to enroll themselves on the tender portal www.tenderwizard.com/OPTCL and must possess Class 3 Digital Signature Certificate. Complete set of bidding documents are available at www.tenderwizard.com/OPTCL from **03.10.2023 (10.31 Hrs) up to 18.10.2023 (12.31 Hrs)**. Interested bidders may visit OPTCL's official web site <http://www.optcl.co.in> and www.tenderwizard.com/OPTCL for detail specification.

N.B:- All subsequent addendums/corrigendum to the tender shall be hosted in the OPTCL's official web site <http://www.optcl.co.in> and www.tenderwizard.com/OPTCL only.

Sd/-

GENERAL MANAGER

EHT (O&M) CIRCLE, BERHAMPUR



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ODISHA POWER TRANSMISSION CORPORATION LTD.

(A Government of Odisha Undertaking)

CIN – U40102OR2004SGC007553

REGD. OFFICE: JANPATH, BHUBANESWAR – 751 022,

OFFICE OF THE GENERAL MANAGER (Electrical)

EHT (O&M) CIRCLE, BERHAMPUR

NOTICE INVITING TENDER

E-TENDER NOTICE NO: BAM-08/2023-24

For and on behalf of the **ODISHA POWER TRANSMISSION CORPORATION LTD.**, the undersigned invites bids from recognized, registered, well established and financially sound bidders under **two-part bidding** system in **e-tendering mode** only for **“Supply of 15 Nos. outdoor type BMK at 220/132/33KV Grid S/S, Narendrapur under EHT (O&M) Division, Berhampur”** as per the following details:

II) Tender Specification No: BAM-08/2023-24

III) Important dates

Request for online tender documents: From: dt: 03.10.2023 (10.30 Hrs)

To: dt: 18.10.2023 (12.30 Hrs)

Issue of online tender documents: From: dt: 03.10.2023 (10:31 Hrs)

To: dt: 18.10.2023 (12.31 Hrs)

Last date of submission of online tender: Up to: dt: 19.10.2023 (12.30 Hrs)

Date of opening of Techno-commercial Bid: On: dt: 19.10.2023 (15.30 Hrs Onwards)

Date of opening of Price Bid: To be intimated after finalization of Techno-commercial bid.

IV) Estimated Value of work: Rs 19,56,631/- (Inclusive of GST @ 18%)

V) Cost of Tender Specification Document: Rs 7,080/- (Incl. GST@18%)

VI) Earnest Money Deposit: 19570/-

VII) Tender Processing Fees: Rs 2,053/-

The bidders can view the tender documents from website free of cost. The bidders who want to participate in the tender shall have to pay **Rs.7080/- (Rupees Seven thousand and eighty only) non-refundable including GST @ 18%** towards the cost of tender document, in the form of

Demand draft only, drawn in favour of **EHT (O&M) Circle, OPTCL, Berhampur, Payable at Berhampur** and the same is to be submitted to the office of the undersigned on or before the last date & time of submission of tender.

In case of the bidders from **Odisha based micro, small enterprises (MSEs), and start-up enterprises registered under District Industries Centres of Odisha, OSIC and/or NSIC**, the tender paper shall be provided free of cost, provided the valid MSME UDYAM and NSIC Registration certificate as per “*Required Proof of Documents under Technical eligibility criteria 2.11*” are submitted, failing which the tender shall be rejected.

The bidders shall have to submit a non-refundable amount of **Rs 2,053/- (Rupees two thousand and fifty three only)** towards the tender processing fee through e-payment gate way.

(NOTE: For deposit of tender processing fee to K.S.E.D.C. Ltd. Bangalore, the bidder can use various modes of e-payment facility available through Tender wizard Portal, i.e. by Credit Card, Debit Card and Net Banking)

The payment acknowledgement slip should be submitted along with the original Demand Drafts of the Tender cost & EMD to the office of the undersigned on or before the last date & time of submission of tender. The bidders shall scan the Demand Draft towards EMD, Tender paper Cost and acknowledgement slip for tender processing fee and upload the same in the prescribed form in .PDF format in addition to sending the original as stated above. **The bidders must submit the original Demand Draft towards EMD, Tender paper Cost and acknowledgement slip for tender processing fee before opening of tender i.e. 19.10.2023 (15.00 Hrs)**

The prospective bidders are advised to register their user ID, Password, company ID from website www.tenderwizard.com/OPTCL by clicking on hyper link “Register Me”.

Any clarifications regarding the scope of work and technical features of the tender can be had from the undersigned during office hours.

Sd/-

GENERAL MANAGER (Elec)
EHT (O&M) CIRCLE,
BERHAMPUR

SECTION - I

INSTRUCTION TO BIDDERS

1. The Bidders must read in detail the “Instruction to Bidders” and “General Terms and Conditions” before filling the tender documents.

2. **TENDERS:**

- A. Bidders must submit their bids electronically. Tenders submitted by other means will be rejected.
- B. The bidder submit their original DD & Tender processing fee challan/receipt must be submitted in sealed cover, subscribed as “Tender call Notice No. 08/2023-24 for **Supply of 15 Nos. outdoor type BMK at 220/132/33KV Grid S/S, Narendrapur under EHT (O&M) Division, Berhampur**” to this office on or before Dated 19.10.2023 03:00 PM and addressed to the General Manager, EHT (O & M) Circle, Berhampur.
- C. The authority is not responsible for receipt of tender after due date due to postal delay or any other reasons. Tenders received after due date due to postal delay or any other reason will not considered.
- D. The bidder is to deposit EMD in shape of Bank Draft drawn in favour of General Manager (Elect), EHT (O & M) Circle, Berhampur. The EMD of successful tenderers will be refunded only on written request, but after deposit of security-cum-performance deposit. The EMD of all unsuccessful tenderers shall be refunded on written request after finalization of tender. No interest shall be paid on EMD. No adjustment towards EMD shall be permitted against outstanding amount, if any, remained with the OPTCL.

3. **Experience:**

The Tenderers should be registered Order suppliers/ Manufacturers. The bidders submit the copy of past experience, regarding supply of similar materials to GRIDCO/ OPTCL or any other state or central PSUs.

3. **FORFEITURE OF EMD:**

In the event the successful tenderer fails to accept the Purchase Order issued in his favour or to execute the order, placed on him, the EMD so deposited shall be forfeited.

4. **INFORMATION ON COMPETITORS:**

Bidders have right to know information on competitors only at the time of opening of the bids. No further information on competitors shall be provided at any other point / stage of the tender without prejudice to Right to Information Act – 2005.

5. **OPENING OF TENDERS:**

- A) Copy of PAN Card, GST Registration Certificate & Dealership Certificate (In case of Supplier) must be enclosed with the tender bids.
- B) Bidders themselves or their authorized representatives limited to one person only (possessing authorization letter in original) shall be allowed to attend opening event of the tenders.

6. The purchaser may alter the quantities of materials at the time of placing orders. Orders may also be split up among more than one tenderer if necessary. The purchaser reserves the right to reject the lowest or any other Tender or all tenders without assigning any reason what so ever.

7. **e-Reverse Auction process shall be resorted to in the tender as follows:**

STRATEGY FOR E-REVERSE AUCTION	
1	Bidders are required to go through the guide lines given below and submit their acceptance to the same.

2	e-Reverse Auction (RA) will be conducted in e-tender portal of OPTCL on specified date and time, while bidders shall quote from their own offices/places of their choice. Internet connectivity shall be ensured by the respective agencies/bidders themselves.
3	Demonstration/ training (if not trained earlier) of bidder's nominated person(s), shall be done by KEONICS to explain all the rules related to e-Reverse Auction/ Business Rule document to be adopted.
4	The strategy to be used for reverse auction shall be "DYNAMIC TEMPLATE BIDDING"
Procedure for electronic Reverse Auctioning (e-RA):	
5	<p>a. The e-RA shall be conducted on www.tenderwizard.com/OPTCL only.</p> <p>b. Bidder has to submit letter towards agreement to the Process related Terms & Conditions for e-Reverse Auction, as per (Reverse Auction Process Compliance Form at Annexure-IA). In non-receipt of the same, vendors will not be allowed to participate in e-RA.</p> <p>c. e-RA shall be carried out after opening of Price bids and completion of Price bid evaluation, which will be intimated only to the techno-commercially qualified bidders by OPTCL as per procedure given below.</p> <p>d. OPTCL reserves the right to conduct e-RA and it is obligatory on part of bidder(s) invited to participate in e-RA process once they have responded to the techno-commercial bid.</p>
6	<p>Prior intimation/ Notice for RA invitation will be given to techno-commercially qualified bidders regarding the date & time of opening of the e-RA.</p> <p>The start bid price (SBP) for e-Reverse Auction of each bidder under a particular package shall be the L1 evaluated price for the subject package including Taxes & Duties for the total scope for subject Package. Taking the above discovered L1 price as the upper limit e-RA will be conducted to determine the lowest possible price.</p> <p>Reverse Auction will be conducted amongst first 50% of the technically qualified bidders arranged in order of prices from lowest to highest, as L1, L2,L3-----Ln, and L1 price will be discovered. Minimum of 3 bidders shall be eligible for e RA. (eg. If 4 bidders are financially evaluated then the L1, L2 and L3 bidders shall be eligible for e-RA). Number of bidders eligible for participating in RA would be rounded off to next higher integer value if number of technically qualified bidders is odd (e.g. if 7 bids are technically qualified, then RA will be conducted amongst L1 to L4).</p> <p>However, in case only two bidders are found to be responsive, e-RA would be carried out with both the parties without any elimination. However, OPTCL reserves the right to invite the evaluated L1 bidder for negotiation without conducting the e-RA.</p> <p>In case of price submitted by any bidder is found to be abnormal, OPTCL reserves the right to reject the bid of the bidder(s) .</p> <p>Rank of bidders would be displayed as per the total cost to OPTCL, i.e including Taxes and Duties payable by OPTCL as per the provisions of the bidding document & after e-RA process is over.</p>
7	<p>Names of bidders/ vendors shall not be disclosed during the e-RA process. Names of bidders/ vendors shall be anonymously masked in the e-RA process.</p> <p>(i) In case of RA, start/ reference price and step value of decrement shall be indicated to the bidders at the start of the auction. Any participating bidder can bid one or multiple step decrement lower</p>

	<p>than the prevailing lowest bid at that time. The Bidder shall be able to view Bid Start Price, Bid Decrement Value, Prevailing Lowest Bid value, last Bid Placed by him and time left for bidding.</p> <p>(ii) The step value of decrement in a package to be offered by bidder (the minimum amount of reduction in the total bid price including all taxes & duties during auction), shall be kept at 0.15% of L1 bidder's final evaluated price (or) at approved amount as decided by OPTCL.</p> <p>(iii) Bidders can only quote any value lower than their previous quoted price. However, at no stage, increase in Price will be permissible.</p> <p>(iv) At any point during Reverse Auction, bidding Price field (Total price) shall remain enabled for the bidders. The total reverse auction period will be for one twenty (120) minutes. The initial auction period (1st slot) will be of thirty (30) minutes with provision of auto extension by (10) ten minutes from the schedule/ extended closing time, if any fresh lower bid is received in last ten minutes of initial auction period or extended auction period. Total/ maximum number of auto extension will be for 9 (nine) times after the 1st slot. After end of 120 minutes, the reverse auction process shall get closed automatically without any extension.</p> <p>(v) However, bidders are advised not to wait till the last minute or last few seconds to enter their bid during the period of e-reverse auction to avoid complication related with internet connectivity, network problem, system crash down, power failure etc.</p>
8	<p>After conclusion of e-Reverse Auction i.e (Closing Price in Reverse Auction will be taken as offered price by the L1 bidder), decrease in price of individual head of the template shall be considered proportionately on all individual line items of the respective head of the price schedule of the successful L1 bidder .</p> <p>Any bid received at the tender wizard server end subsequent to closure of the e-RA shall be summarily rejected and shall not be considered as a valid bid under whatsoever circumstances. For this purpose, tender wizard server log shall prevail.</p> <p>The bidder shall not involve himself or any of his representatives in price manipulation of any kind directly or indirectly by communicating with other bidders.</p> <p>During Reverse Auction, If no bid is received within the specified time, OPTCL, at its discretion, may decide to close the reverse auction process/ proceed with conventional mode of tendering [Evaluation of Part-II (price bid) submitted by bidders earlier].</p>
9	<p>Consequent upon completion of e-Reverse Auction, OPTCL's decision on award of contract shall be final and binding on the bidders.</p> <p>OPTCL shall be at liberty to call the L1 bidder for further process/ negotiation and also at liberty to cancel the e-reverse auction process/ re-tender at any time, without assigning any reason thereof. OPTCL can decide to reschedule or cancel any reverse auction: the bidders shall be informed accordingly.</p> <p>OPTCL/ Service Provider shall not have any liability to bidders for any interruption or delay in access to the e-Tender site/ Reverse Auction link irrespective of the cause.</p>

General Manager (Elect.)
EHT (O&M) Circle,
Berhampur

GENERAL TERMS AND CONDITIONS

1. **Scope of contract**:-The scope of contract shall be to deliver materials at destination in accordance with the enclosed Technical Specification (Section-III) and schedule of requirement (Annexure-I).
2. **Manner of execution**:-All materials should be supplied under the contract shall conform to the latest publication of relevant IS Specification.
3. **Validity**:-Tenderers are requested to keep the validity of their offer for a period of 180 Days from the date of opening of tender.
4. **Price**:-The price quoted by tenderer should be firm, F.O.R. destination inclusive of freight, Insurance, Packing, and Forwarding Charges etc.
5. **Taxes**:-Taxes, if any shall be mentioned extra.
6. **Terms of Payment**:-100% payment with Taxes etc. shall be made within 45 Days after receipt of materials in full and in good condition & verification thereof by the consignee.
7. **Delivery**:-The materials in full quantity shall be delivered on receipt of purchase order (Delivery period will be mention in the Purchase Order), failing which purchase order shall be liable for cancellation with forfeiture of Earnest money/ Security Deposit.
8. **Penalty**:-If the supplier shall fail to deliver the materials within the delivery period as stipulated under clause No. 7 (Section-II) of this Tender document or any extension granted there to, the purchaser shall recover from the supplier penalty for a sum of half percent (i.e. 0.5 percent) of the contract price for each calendar week or part thereof of delay. However the total amount of penalty shall not exceed 5% (five percent) of the contract. Materials will be deemed to have been delivered only when whole quantity is delivered. If certain quantity is not delivered in time, the supply will be treated as delayed until such time the undelivered quantities are delivered period.
9. **Extension of time**:-If the delivery of materials is delayed due to reason beyond the control of supplier, the supplier shall without delay give justification. The purchaser on receipt of such notice may agree to extend the contract delivery date if reasonable but without prejudice to other terms and conditions of this contract.
10. **EMD**:- The tenderers are requested to deposit EMD in shape of D.D. Drawn in favour of General Manager, EHT (O & M) Circle, Berhampur. The tender without EMD will be liable for rejection.
11. **Security Deposit**:-

The tenderers whose offer qualifies for acceptance will be awarded Purchase Order and the supplier shall have to be deposit Security-Cum-Performance Guarantee equal to 10% (Ten Percent) of ordered value in shape of Bank Draft in favour of Dy. General Manager, EHT (O & M) Division, Berhampur within 10 days from the date of issue of Purchase Order. The Security deposit will be released after two months of completion of the guarantee period subject to fulfillment of guarantee stated under Clause No.-12 on a receipt of application for this purpose. No interest shall be paid to the supplier towards the security deposit so deposited by the supplier. Security Deposit will be forfeited if the successful tenderer fails to execute the order placed on him. No interest is payable on any kind of Bank Guarantee. In case of non-fulfillment of contractual obligation, as required in the detailed purchase order/Specification, the composite Bank guarantee will be forfeited. Security Deposit, not claimed for refund with in a period of three years from the date of issue of Purchase order, will be forfeited.
12. **Guarantee**:- The materials covered under this contract should be guaranteed for trouble free and satisfactory performance against any defect in design, materials and workmanship for a Period of at least 18 (Eighteen) Months from the last date of delivery or 12 (Twelve) Months from the date of use, whichever is earlier. Any defect noticed during this period should be rectified / replaced by the firm free of cost provided such defects are due to faulty design, bad workmanship or bad materials used. The replaced materials should also have similar guarantee. In the event of any breach on default in all or any

condition of purchase order Security Deposit will be forfeited.

13. **Insurance:-** Insurance of materials is to be done by the supplier at their own cost. The responsibility of delivery of the materials at destination in good condition rests with the supplier. Any claim with the insurance company Railway authority/ Road transport authorities arises due to loss or damage in transits has to be settled by the supplier. The supplier shall undertake free replacement of materials damage or lost which will be reported by the consignee within 20 Days of the receipt of the materials at destination without waiting for the settlement of the claims with the carriers.
14. **Despatch Instruction:-** The materials should be securely packed and dispatched by Rail/ road transport to 220/132/33 KV Grid Sub-Station, Narendrapur. The cost of transportation will be borne by the supplier.
15. **Consignee:** - The Concerned SDO, Grid Sub-Stations, Narendrapur is the consignee & verifying officer.
16. **Paying Officer:** - **The DGM, EHT (O&M) Division, Berhampur** is the paying officer for this contract.
17. **Submission of GST Registration No. & PAN:-**Clear self-attested Xerox copies of PAN issued by the competent authority & GST Registration certificate valid on the date of opening of tender should be uploaded along with the tender failing which the tender will be rejected. Those who fail to upload the same & found not to be valid on the date of opening the Tender, their tender should be rejected.
18. **DRAWINGS APPROVAL:** Immediately on receipt of the purchase order, an authorized representative of the bidder shall come with necessary drawings for approval of the consignee / end-user department.
19. **Past Experience of supply:-** Past experience of execution of Purchase Order relating to supply of similar type of material need to be furnished by the bidders.
20. **Deviation in specification:-**If any change in the Technical Parameters equivalent to the above specification may be clearly mentioned separately.
21. **Supplier responsibility:** Non-withstanding anything mentioned in the specification or subsequent approval or acceptance of the purchase, the ultimate responsibility of the design, material & satisfactory performance shall rest with the Tenderer.
22. **Jurisdiction of Court:-**Dispute if any, arising against the supply order issued to the supplier shall be filed by either party in any court of law to which the jurisdiction of Odisha High Court extends. The Authority reserves the right to reject the notice/ award the contract among any responsive bidders against this tender or without assigning any reason thereof. All other terms and conditions will be governed by OPTCL as per Rules.
23. **Expenses in respect of OPTCL's representative for witnessing the inspection & testing of the offered equipment/materials at the inspection and testing site.**
 - a) The testing and inspection of the equipment/ materials at manufacturer works are in the scope of work of the Contractor/Supplier.
 - b) OPTCL inspecting officer, on receipt of offer for inspection from the contractor/supplier, proceeds to the manufacturer works to witness the Type/Acceptance/Routine test.

Important:

It is hereby informed to all the bidders that the relevant clauses of the tender specification, pertaining to inspection and testing of equipment/materials, are hereby supplemented with following additional terms and conditions. The expenses under the following heads, in respect of OPTCL's representative for witnessing the inspection & testing of the offered equipment/materials at the inspection and testing site, shall be borne by the contractor / supplier.

A. Hotel Accommodation:

- (i) Single room accommodation in 4 star hotel for the OPTCL inspecting officer of the rank of Manager and above.
 - (ii) Single room accommodation in 3 star hotel for the OPTCL inspecting officer of the rank below Manager.
- N.B.: It is the responsibility of the Contractor/supplier/manufacturer to arrange the hotel accommodation matching with their inspection and testing schedule, so that the inspecting officer can check-in the

hotel one day prior to the date of inspection and check out after the completion of the inspection, subject to availability of the return travel ticket. In case of extended duration of inspection or non-availability of the return travel ticket, Contractor/supplier/manufacturer shall arrange for the extended stay of the inspecting officer in the Hotel accordingly. In case there is no hotel with prescribed standard in and around the place of inspection, the contractor/ supplier/ manufacturer shall suggest alternative suitable arrangement at the time of offer for inspection, which is subjected to acceptability of OPTCL inspecting officer.

B. Journey of the inspecting officer:

- (i) To and fro travel expenditure from the Head Quarters of the inspecting officer to the place of inspection/testing shall be borne by the contractor/ supplier/ manufacturer. Journey from the Head Quarters of the inspecting officer to the nearest Air Port by train (1st/IIInd A.C) & A/C Taxi then by Air to the place of inspection/testing or to the nearest place of inspection/testing and then by train (1st/ IIInd A.C) & A/C taxi to the place of inspection/testing shall be arranged by the contractor/supplier/manufacturer.
- (ii) For train journey, inspecting officer of the rank Assistant General Manager and above shall be provided with 1st class AC ticket and inspecting officer below the rank of Assistant General Manager shall be provided with 2nd class AC ticket.
- (iii) The Air-ticket / train-ticket booking/ cancellation is the responsibility of the contractor / supplier. Moreover, if during the journey there is an unavoidable necessity for intermediate travel by road/ waterway/sea-route, the contractor/supplier shall provide suitable conveyance to the inspecting officer for travel this stretch of journey or bear the cost towards this. Any such possibilities shall be duly intimated to OPTCL at the time of their offer for inspection.

C. Local Conveyance:

At the place of the inspection/ testing, for local journey of the inspecting officer between hotel and inspection/ testing site and or any other places, Air-conditioned four wheeler vehicle in good condition shall be provided by the contractor/supplier/manufacturer.

D. Following points are also to be considered:

- (i) All the above expenses shall be deemed to be included in the bidder's quoted price for that supply item. Bidder shall not be eligible to raise any extra claim in this regard.
- (ii) Contractor/supplier/manufacturer may assume that only in 40% of the inspection and testing offer cases, OPTCL inspecting officer, not below the rank of Manager will witness the inspection and testing.
- (iii) Contractor / supplier / manufacturer shall judiciously plan the inspection/testing schedule and place of inspection/testing, so that optimum number of inspection/testing and minimum time shall be required to cover all the equipment/materials of the relevant contract package.
- (iv) It shall be the responsibility of the Contractor/ Supplier/ Manufacturer to organize the above tour related matters of OPTCL inspecting officer including the matters related to overseas inspection/testing, if any.

NB: Those who fail to upload required documents asked by the undersigned, their bid should be rejected.

**General Manager (Elect.)
EHT (O&M) Circle,
Berhampur**

SECTION-III

SCHEDULE OF QUANTITY

SI No.	Name of the Division	Name of the Circle	Description of work	Unit	Qty
1	E.H.T. (O&M) Division, Berhampur	EHT (O&M) Circle, Berhampur	Supply of 220kV Outdoor Type BMK Refer specification and BOM attached. Total No of Bays – 10	No.	05
			Supply of 132kV Outdoor Type BMK Refer specification and BOM attached Total No of Bays – 14	No.	05
			Supply of 33kV Outdoor Type BMK Refer specification and BOM attached Total No of Bays – 13	No.	05

SECTION-IV

TECHNICAL SPECIFICATION

TECHNICAL SPECIFICATION FOR 220kV, 132kV & 33kV SWITCHYARD BMKs FOR SAS PROJECT WORK OF 220/132/33kV GRID SUBSTATION, NARENDRAPUR

Dual source facility with Auto-changeover scheme of Bus Coupler MCCB to be included as per following Logic:

Incomer-1	Incomer-2	Bus Coupler
ON	ON	OFF
ON	OFF	ON (Auto)
OFF	ON	ON (Auto)

Size: (H x W x D): 1250 mm x 1250 mm x 515 mm

- Dimensions are inclusive of
 - (a) Sloped canopy of height 100mm; width 1200mm & depth 550mm
 - (b) Mounting Channel 75 x 40 x 5mm
- Dimensions without canopy and mounting channel:
(H x W x D): 1525mm x 1000mm x 515mm
- The canopy shall made with Aluminum and project 100mm on each side along the width and 50mm each side along the depth

Terminal Blocks: As per the tabulated BOM given below.

Cable Gland: There should be provision for 4 nos. of 19sq.mm cable gland for termination of control cable.

Bill of Material for each BMK

Sl. No.	Description of Work	Unit	Quantity
1	MCB-63A-4P-10KA-C CURVE of reputed make	Nos.	2
2	CONTACTOR-63A-4P-240V AC COIL-4NO of reputed make	Nos.	2
3	ON DELAY TIMER-240V AC COIL-1C/O-240VAC of reputed make	Nos.	2
4	MCB-32A-4P-10KA-C CURVE of reputed make	Nos.	8
5	MCB-16A-4P-10KA-C CURVE of reputed make	Nos.	12
6	MCB-16A-DP-10KA-C CURVE of reputed make	Nos.	4
7	NON DISCONNECTING TYPE TERMINAL-POWER-41A (KUT 6) of reputed make	Nos.	200
8	CLUSTERED LED-ASSLY-240V AC-22.5MM RED COLOUR of reputed make	Nos.	2
9	CONTROL FUSE BASE-20A of reputed make	Nos.	5

10	CONTROL HRC FUSE LINK - 4A-CLIP ON of reputed make	Nos.	5
11	BULB HOLDER of reputed make	Nos.	1
12	DOOR SWITCH of reputed make	Nos.	1
13	SPACE HEATER - 100W - 220V AC of reputed make	Nos.	1
14	THERMOSTAT - 30-85-C - 220V AC of reputed make	Nos.	1
15	2 WAY SWITCH of reputed make	Nos.	2
16	POWER - TERMINAL - BLOCK CONNECTOR-63A (KUT 16) of reputed make	Nos.	8
17	POWER - TERMINAL - BLOCK CONNECTOR- 32A (KUT 4) of reputed make	Nos.	56

DESIGN DETAILS

Design of Panel	: Non-Draw out type (Fixed) design. Panel made of 2.6 mm Load bearing- 3mm CRCA & Non load bearing-3mm CRCA
Type of construction	: Cable entry from bottom (Incoming & Outgoing) Design In front side bus bar & back side cable alley (for BMKs) Panel hooks will be provided at the top of the panel (for BMKs) Stickers are provided on the door of each feeder Panel in single front & Both side accessible Consoled hinged doors will have flexible earthing (4.0sqmm copper wire)
Operation	: Dual Doors both Front and Rear Opening for BMK
Nature of installation	: Outdoor
Mounting	: Floor mounting as shown in drawing for BMKs.
Rated Voltage	: 415V \pm 10%, 3ph, 4Wire, TPN (Neutral will be 50% capacity of Ph.)
Rated Frequency	: 50Hz \pm 5%
Degree of protection	: Weatherproof, Dustproof & Vermin Proof, IP-55
Gasket	: Good quality Gasket for Doors and Covers will be provided
Base Frame	: 75mm X 40mm x 5mm ISMC

FABRICATION DETAILS

Material of sheet metal	: Cold Rolled and Cold Annealed (CRCA)
Sheet Thickness	: 2.6mm (12SWG) for main frames (CRCA) : 2.6mm (12SWG) for partitions/covers (CRCA) : 2.6mm (12SWG) for Doors/Base plates (CRCA) The top of the outdoor boxes/kiosks shall be provided with Aluminium alloy sheets canopy of 3.0mm thick with proper sloping for easy discharge of water.
Cable Entry	: Bottom Entry (with added Rear termination for BMKs).
Gland plate	: 3.00mm (11SWG) CRCA thick removable gland plate
Tolerance	: \pm 10%

BUSBARS

Material of conductor	: Hard drawn high conductivity Electrolytic Grade Copper
Current Density	: 1.2A/Sq.mm for Cu : 0.7A/Sq.mm for Al
Fault Level	: 50KA/1sec
Busbar insulation/ Colour Coding	: PVC Heat shrinkable sleeves with R, Y, B & N colour coding.
Busbar supports	: Non-Hygroscopic DMC supports
Busbar clearances	: Phase to Phase - 25.4mm min. : Phase to Neutral- 19mm min.
Sizes of Busbars (Main)	: 1R X 25 X 6 Sq. mm for Ph.
Neutral busbar	: Same size as of the main bus bar

TERMINAL BLOCKS

Terminal Block Sizes to be used (Make: Connectwell, Elmex)			
Sl. No	Terminal Size	S/G rating	Equivalent Elmex / Connectwell make Product Code
1	25 SQMM	80A	KUT25
2	16 SQMM	60A	KUT16
3	10 SQMM	40A	KUT10
4	06 SQMM	32A	KUT6
5	04 SQMM	25A & below	KUT6
6	2.5 SQMM	For CT (Disconnecting Type)	KLTD M4

WIRING

Following size flexible copper wire to be used for Control wiring

(Make: Finolex/ RR Kabel/ Apar Anushakti/ KEI Industries)

1	AC voltage circuit	2.5Sq.mm	(Red, Yellow, Blue, Black)
2	AC Current circuit	2.5Sq.mm	(Red, Yellow, Blue, Black)
3	Earthing	4.0Sq.mm	(Green)
4	DC control Circuit	2.5Sq.mm	(Grey)
5	AC control circuit	2.5Sq.mm	(Black)

Following size flexible copper wire to be used for Power wiring

Wire of (Make: Finolex/ RR Kabel/ Apar Anushakti/ KEI Industries) to be used for different switchgear rating		
Sl. No	Copper Flexible wire size	S/G rating
1	35 SQMM	100A
2	25 SQMM	80A
3	16 SQMM	60A
4	10 SQMM	40A
5	06 SQMM	32A
6	04 SQMM	25A
7	50 SQMM	125A
8	2.5 SQMM	For CT
9	2.5 SQMM	For control

Note: For 100A & 80A rating switchgear suitable aluminium busbar might be used.

COLOUR CODING

Control wiring : **GREY**
CT wiring : **RED, YELLOW, BLUE, BLACK**
Earth : **GREEN**

PAINTING

BIS Grey shade (Exterior) as per IS: 5 (Shade No: 697) or RAL: 7032, and Glossy Milky White (Interior) Texture Finish with Polyester/ TGIC based powder coated paint. The surface should be pre-treated by shot blasting or phosphating as per IS 13871: 1993 with present amendments.

The final finished thickness of paint film on steel shall not be less than 50microns, and shall not be more than 80 microns.

Finished painted appearance of equipment shall present an aesthetically, pleasing appearance, free from dents and uneven surfaces.

**General Manager (Elect.)
EHT (O&M) Circle,
Berhampur**

PART-II

SCHEDULED OF PRICE

Sl No.	Name of the Division	Name of the Circle	Description of work	Unit	Qty .	Rate per Unit	Amount in Rs.
1	E.H.T. (O&M) Division, Berhampur	EHT (O&M) Circle, Berhampur	Supply of 220kV Outdoor Type BMK Refer specification and BOM attached. Total No of Bays – 10	No.	5		
			Supply of 132kV Outdoor Type BMK Refer specification and BOM attached Total No of Bays – 14	No.	5		
			Supply of 33kV Outdoor Type BMK Refer specification and BOM attached Total No of Bays – 13	No.	5		
						TOTAL	0.00
						<u>GST@18</u> %	0.00
					Grand Total:	0.00	

N.B.:- Tenderers has to fill the price through online in (EXCEL FORMAT) only

ANNEXURE - 1
DECLARATION FORM

To,
The General Manager (Elect)
EHT (O&M) Circle, OPTCL
Berhampur

Sub: - **Tender Specification No-**_____

Sir,

1. Having examined the above specification together with terms & conditions referred to therein I/We the undersigned hereby offer to take up the **Supply of 15 Nos. outdoor type BMK at 220/132/33KV Grid S/S, Narendrapur under EHT (O&M) Division, Berhampur** including supply of materials, other consumables etc in all respects as per the specification and General conditions, at the rates, entered in the attached contract schedule of prices in the Tender.

2. I / We hereby undertake **Supply of 15 Nos. outdoor type BMK at 220/132/33KV Grid S/S, Narendrapur under EHT (O&M) Division, Berhampur** as specified in the Tender.

3. I / We hereby guarantee the validity of the required documents from concerned authorities to be submitted as per the ELIGIBILITY FOR BID SUBMISSION mentioned in the Tender specification.

4. I/We certify to have submitted the bid electronically by remitting *cash/money order /D.D./ remitting the cost of tender, herewith and this has been acknowledged by your letter/ money receipt No. _____ Dated, _____

5. In the event of Tender, being decided in *my/our favour, * I/We agree to furnish the Composite B.G. / Fixed Deposit in the manner, acceptable to ODISHA POWER TRANSMISSION CORPORATION LTD., and for the sum as applicable to *me/us as per **Clause-23 of section-II** of this specification within 15 days of issue of letter of intent/purchase order failing which *I/We clearly understand that the said letter of Intent/Purchase order will be liable to be withdrawn by the purchaser and I/we will be suspended from being eligible for bidding/ award of all future contract(s) of EHT (O&M) Circle, OPTCL, Berhampur for a period of three (3) years from the date of committing such breach.

Signed this _____ day of _____ 2023

Yours faithfully

Signature of the Tenderer

with seal of the company

[This form should be dully filled in & signed by the tenderer and uploaded at the time of submission of tender.]

* (Strikeout whichever is not applicable)

ANNEXURE - 2

**ABSTRACT OF GENERAL TERMS AND CONDITIONS OF CONTRACT [COMMERCIAL] TO
ACCOMPANY PART-I**

1(a)	Cost of Tender Document: D.D No & Date.	
1(b)	EMD	Yes/No
1(c)	Tender Processing Fee: E-Challan No. & Date.	
2	Supplier's / Manufacturer's past experience including user's certificate furnished	Yes/No
3	Manner of work:- Whether agreeable to OPTCL's desired manner as indicated .	Yes/No
4	Whether agreeable to furnish Composite B.G. in case his tender be successful.	Yes/No
5	Terms of payment:- Whether agreeable to OPTCL's terms regarding payment'	Yes/No.
6	Nature of price:- FIRM	Yes/No
7	Penalty:- Whether agreeable to OPTCL's terms .	Yes/No
8	Validity: - Whether agreeable to OPTCL's terms	Yes/No
9	Whether declaration form duly filled in furnished.	Yes/No.
10	Whether scanned copy of required documents furnished.	Yes/No.
11	Whether scanned copy of Audited Accounts furnished	Yes/No.

Place: -

Date:

Signature of Tenderer:

Name, Designation, Seal

ANNEXURE - 3

PROFORMA FOR COMPOSITE BANK GUARANTEE FOR SECURITY DEPOSIT PAYMENT AND PERFORMANCE

(To be stamped in accordance with Stamp Act and the Non-Judicial stamp paper of appropriate value should be in the name of the Issuing Bank.)

This Guarantee Bond is executed this _____ day of _____ 2023-24 by us the _____ Bank at _____ P.O. _____ P.S. _____ District _____ State _____

1. WHEREAS the ODISHA POWER TRANSMISSION CORPORATION LTD., a body corporate constituted under the Electricity Act, 2003 [hereinafter called "the OPTCL" which shall include its successors and assigns has placed orders No. _____ Date _____ [hereinafter called "The Agreement"] on M/s. _____

[Hereinafter called "Agency"], which shall include its successors & assignees.

AND WHERE AS the Agency has agreed to *Supply of one no. of Main ACDB panel for control room of 220/132/33kV Grid Sub-station, Narendrapur for SAS Project Work (Under PSDF)* to the OPTCL in terms of the said agreement AND

WHEREAS the OPTCL has agreed [1] to exempt the Agency from making payment of Security [2] to release 100% payment of the cost of service as per the said agreement and [3] to exempt from performance guarantee on furnishing by the Firm / Agency to the OPTCL, a Composite bank Guarantee of the value of 5 % [five percent] of the contract price of the said agreement.

NOW THEREFORE, in consideration of the OPTCL having agreed [1] to exempt the Agency from making payment of Security [2] releasing 100% payment to the Firm / Agency and [3] to exempt from furnishing performance guarantee in terms of the said agreement as aforesaid, we, the _____ [Bank][hereinafter referred to as 'the Bank'] do hereby undertake to pay to the OPTCL an amount not exceeding Rs. _____ [Rupees _____] against any loss or damage caused to or suffered by or would be caused to or suffered by the OPTCL by reason of any breach by the said Agency [s] of any of the terms or conditions contained, in the said agreement.

2. We the (_____ Bank) do hereby undertake to pay the amounts due and payable under this guarantee without any demur, merely on demand from OPTCL stating that the amount claimed is due by way of loss or damage caused to or suffered by OPTCL by reason of any breach by the said Firm / Agency [s] of any of the terms or conditions, contained in the said agreement or by reason of the Firm / Agency's failure to perform the said agreement. Any such demand made on the bank shall be conclusive as regards the amount due and payable by the Bank under this guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs. _____ [Rupees _____]

3. We the _____ Bank} also undertake to pay to OPTCL any money so demanded notwithstanding any dispute or disputes raised by the Firm / Agency

[s] in any suit or proceeding instituted/pending before any Court or Tribunal relating thereto our liability under this present being absolute and unequivocal.

The payment so made by us under this bond shall be a valid discharge of our liability for payment there under and the Agency [s] shall have no claim against us for making such payment.

4. We, (_____ Bank) further agree that the guarantee herein contained shall remain in full force and effect during the period that would be taken for the performance of the said agreement and that it shall continue to do so enforceable till all the dues of the OPTCL under or by virtue of the said agreement have been fully paid and its claims satisfied or discharged or till Managing Director, ODISHA POWER TRANSMISSION CORPORATION LTD. certifies that the terms and conditions of the said agreement have been fully and properly carried out by the said Firm / Agency [s] and accordingly discharges this Guarantee.

Unless a demand or claim under this guarantee is made on us in writing on or before the [Date _____], we shall be discharged from all liability under this guarantee thereafter.

5. We,(_____ Bank) further agree that the OPTCL shall have the fullest liberty without our consent and without affecting in any manner our obligations hereunder to vary any of the terms and conditions of the said agreement or to extend time of performance by the said Firm / Agency and we shall not be relieved from our liability by reason of any such variations or extension being granted to the said Firm / Agency or for any forbearance, act or omission on the part of the OPTCL or any indulgence by the OPTCL to the said Firm / Agency [s] or by any such matter or thing whatsoever which under the law relating to sureties would but these provisions have effect of so relieving us.

6. This guarantee will not be discharged due to the change in the name, style and constitution of the Bank and The Firm / Agency [s].

7. We, [_____ Bank] lastly undertake not to revoke this guarantee during its _____ currency except with the previous consent of the OPTCL in writing.

8. We the _____ Bank further agree that this guarantee shall also be inviolable at our place of business at Branch of Bhubaneswar in the state of Odisha. [Indicate the name of the Bank& Branch]

‘Notwithstanding anything contained herein above’

a) Our liability under the bank guarantee shall not exceed Rs. _____ (In words Rupees _____).

b) This bank Guarantee shall be valid up to _____ .

c) We are liable to pay guaranteed amount or any part thereof under this bank guarantee only if you serve upon us at _____ branch of Bhubaneswar in the state of Odisha a written claim or demand on or before _____ (date of expiry of guarantee).

Date at _____ the, _____ day of 20 _____.

For _____
[Indicate the name of Bank]

Witness (Name, Signature & Address)

- i.
ii.
-