



**IRRIGATION AND WATERWAYS DIRECTORATE  
GOVERNMENT OF WEST BENGAL**

**METROPOLITAN MECHANICAL & ELECTRICAL DIVISION**

***[Invitation for Expression of  
Interest/for Budgetary Offer]***

**EOI No. WBIW/EE/MMED/e-EOI-01 /2022-23**

Sl No	Particulars	Details
01	Publishing Date & Time	01.03.2023 at 5:00 pm
02	Pre bid Meeting	06.03.2023 after 2:00 pm
03	Issue of Corrigendum	09.03.2023 Up to 2:00 pm
04	Last Date and time for Submission of EOI	23.03.2023 at 6:00 pm
05	Date and time for Opening of EOI	24.03.2023 at 2:30 pm

**Name of Work:**

“Supply, Installation ,Testing (i.e. H.V. test & Relay test) and commissioning of 400 KVA, 3Φ, 50Hz, 11/0.433 KV, Dyn – 11, Delta/Star ,ONAN Level -1 type cooling (as per IS-1180, Level-1) , copper wound outdoor type Transformer making layout plan and taken the approval of Directorate of Electricity Board and supply, installation of 11 KV, 3 Φ, 50 Hz Oil immersed, indoor type, floor mounted, HT isolator switch fuse unit with auto trip arrangement at River Research Institute, Haringhata, Dist.:- Nadia ”.

**EXECUTING DIVISION: Metropolitan Mechanical & Electrical Division**

**YEAR: 2022-23**

# [Expression of Interest]

## 1.0 Invitation for EOI / Single stage of Bidding

The Executive Engineer, Metropolitan Mechanical & Electrical Division invites EOIs from prospective bidders ('Bidders') for the work ***“Supply, Installation ,Testing (i.e. H.V.test & Relay test) and commissioning of 400 KVA, 3  $\Phi$ , 50Hz, 11/0.433 KV, Dyn – 11, Delta/Star , ONAN Level -1 type cooling (as per IS-1180,Level-1) , copper wound outdoor type Transformer making layout plan and taken the approval of Directorate of Electricity Board and supply, installation of 11 KV, 3  $\Phi$ , 50 Hz Oil immersed, indoor type, floor mounted, HT isolator switch fuse unit with auto trip arrangement at River Research Institute, Haringhata, Dist.:- Nadia ”.***

The successful Bidder will carry out the scope of work in accordance with the specifications provided in a detailed Request for e-NIT document which will be brought out by the Executive Engineer, Metropolitan Mechanical & Electrical Division in later stage after obtaining administrative approval of the work. Now, *Executive Engineer, Metropolitan Mechanical & Electrical Division* seeks EOI for budgetary quotes from Bidders of repute for the above work from Bidders who meet the pre- qualification criteria specified in this document will be short - listed to have comparison of cost between various prospective bidder. In case of non-compliance they may offer their own solution.

## 2.0 Introduction to the project

*This 400 KVA, 3 $\Phi$ , 50Hz 11/0.433 KV outdoor type copper wound Transformer is required to enhance the capacity of old transformer – 250 KVA to 400 KVA. 11KV, 3  $\Phi$ , 50 Hz Oil immersed, indoor type, floor mounted, HT isolator switch fuse unit will be required for the underground 11 KV HT cabling as per the requirement of WBSMEDCL at RRI, Haringhata Campus, Nadia.*

## 3.0 Indicative scope of work

***“Supply, Installation ,Testing (i.e. H.V. test & Relay test) and commissioning of 400 KVA, 3  $\Phi$ , 50Hz, 11/0.433 KV, Dyn – 11, Delta/Star ,ONAN Level -1 type cooling (as per IS-1180,Level-1) , copper wound outdoor type Transformer making layout plan and taken the approval of Directorate of Electricity Board and supply, installation of 11 KV, 3  $\Phi$ , 50 Hz Oil immersed, indoor type, floor mounted, HT isolator switch fuse unit with auto trip arrangement at River Research Institute, Haringhata, Dist.:- Nadia ”.***

All data that has been mentioned in the specification of this EOI should be confirmed and verified by the Contractor. The contractor acknowledges that any failure to acquaint itself with all such data and information shall not relieve its responsibility. The contractor shall be responsible for overall verification of equipment under the scope of work e.g. Make, Model, specifications.

Contractor can offer changes in design for better performance. Justification of such changes will be provided by the contractor. Such changes are subject to approval of the E.I.C.

The design, drawing, manufacture, fabrication, erection, testing/ inspection of 11 KV indoor substation shall be carried out strictly as per Indian Electricity Rules , Latest BIS code of practices and prior approval of Directorate of Electricity , Govt of West Bengal

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## 4.0 Instructions to Bidders

The EOI document can be downloaded from [www.wbtenders.gov.in](http://www.wbtenders.gov.in) from **01.03.2023** after 17:00 Hrs. onwards. Last date & time of submission of online bid electronically through the e-procurement portal of Govt. of West Bengal is on **23.03.2023** till 18:00 Hours (IST).

- 4.0.1** Bidders are advised to study all instructions, forms, terms, requirements and other information in the EOI documents carefully. Submission of the bid shall be deemed to have been done after careful study and examination of the EOI documents with full understanding of its implications.
- 4.0.2** The response to this EOI should be full and complete in all respects. Failure to furnish all information required by the EOI documents or submission of a proposal not substantially responsive to the EOI documents, in every respect, will be at the Bidder's risk and may result in rejection of its proposal.
- 4.0.3** For better understanding of work, brief description of work as per our preliminary assessment are given for better understanding of the project. In this stage bidder are requested to propose their work description, with quoting rate , so that in later stage under detailed NIT, complete scope of work and technical specification may be enclosed , so that bid may be evaluated on equal footing.

## **5.0 EOI proposal preparation costs & related issues**

- 5.0.1** The Bidder is responsible for all costs incurred in connection with participation in this process, including, but not limited to, costs incurred in conduct of informative and other diligence activities, participation in meetings/discussions/presentations, preparation of proposal, in providing any additional information required by the Purchaser to facilitate the evaluation process, unless explicitly specified to the contrary.
- 5.0.2** Purchaser will in no case be responsible or liable for those costs, regardless of the conduct or outcome of the bidding process.
- 5.0.3** These Expression of Interest (EOI) are purely for estimation purpose and to know the present market rate and under no circumstance, it shall be construed as quotation for placing the supply order. For competitive bidding separate notice inviting Tender will be published.
- 5.0.4** Intending contractors / bidders are required to down load the E.O.I. (Expression of Interest) documents directly from either of the websites stated above. **This is the only mode for submission of E.O.I.** The interested bidders eligible for the RFP are required to submit their bids through the e-Procurement System using their valid DSC e-Token with assigned PIN using login ID and password. Details of e-filing procedure for participating in e-tenders under State Government have also been explained in the 'Bidders' Manual' available in the Departmental website [www.wbiwd.gov.in](http://www.wbiwd.gov.in).

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## **5.1 Pre-bid Meeting**

**5.1.1** Executive Engineer , Metropolitan Mechanical &Electrical Division , Kolkata shall hold a pre-bid meeting (offline) with the prospective Bidders on **<06.03.2023 after 2:00 pm > at <O/O Executive Engineer, Metropolitan Mechanical & Electrical Division Jalasampad Bhawan (10<sup>th</sup> floor) , Salt Lake City ,Kolkata-91>** The Bidders will ensure that their queries with regard to the EOI, to be addressed by the EOI issuing Authority during the Pre-Bid meeting shall reach by post, facsimile or email on or before **<06.03.2023 after 12:00 Hrs >** to the officer whose details are provided below (Nodal Officer):

**Executive Engineer  
Metropolitan Mechanical &Electrical Division  
Jalasampad Bhawan (10<sup>th</sup> floor)  
Bidhannagar, Kolkata-91  
Email Id: [eeemediwd@gmail.com](mailto:eeemediwd@gmail.com)**

## **5.2 Responses to pre-bid queries and issue of corrigendum**

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- 5.2.1** The Nodal Officer notified by the EOI issuing authority will endeavor to provide timely response to all queries. However, the department makes no representation or warranty as to the completeness or accuracy of any response made in good faith.
- 5.2.2** At any time prior to the last date for receipt of bids, EOI inviting authority may, for any reason, whether at its own initiative or in response to a clarification requested by a prospective Bidder, modify the EOI document by issuing a corrigendum.
- 5.2.3** The corrigendum (if any) & clarifications to the queries from all Bidders will be posted on the <https://wbtenders.gov.in> and ([www.wbiwd.gov.in](http://www.wbiwd.gov.in)) and emailed to all participants of the pre-bid conference.
- 5.2.4** Any such corrigendum shall be deemed to be incorporated into this EOI.
- 5.2.5** In order to afford prospective Bidders reasonable time in which to take the corrigendum into account in preparation of their bids, Purchaser may, at its discretion, extend the last date for the receipt of EOI Bids.

## **5.3 Right to terminate the EOI process**

EOI issuing authority may terminate the EOI process at any time without assigning any reason. EOI issuing authority makes no commitments, expression or implied that this process will result in a business transaction with anyone.

## **5.4 Bid Submission Procedure**

### **Option 1: In case of Online Submission on e-Procurement portal**

Bidders should submit their responses to an EOI as per the procedure specified in the e - Procurement portal (<https://wbtenders.gov.in>) being used for this purpose. Generally, the items to

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be uploaded on the portal would include all the related documents mentioned in this EOI, such as:

- Tender Fee ( in this case , **no EMD is required** )
- Pre-qualification response
- Additional certifications/documents eg. Power of Attorney, CA certificates on turn over, etc.

However, each of the above documents must be uploaded in the format specified for this purpose and as per the specified folder structure in the e-Procurement portal.

The bidder must ensure that the bid is digitally signed by the Authorized Signatory of the bidding firm and has been duly submitted (freeze) within the submission timelines. The Department will, in no case, be responsible if the bid is not submitted online within the specified timelines.

All the pages of the Proposal document must be sequentially numbered and must contain the list of contents with page numbers. Any deficiency in the documentation may result in the rejection of the Bidder's Proposal.

### 5.5

#### Short listing criteria

**5.5.1** Purchaser will shortlist Bidders who meet the pre-qualification criteria mentioned in this EOI.

**5.5.2** Any attempt by a bidder to influence the bid evaluation process may result in the rejection of its EOI proposal.

### 5.6 Pre-qualification evaluation criteria

Sl no.	Basic requirement	Specific requirements	Documents required
1	Legal Entity	- Should be a company registered under the provisions of the Indian Companies Act, 2013 or a partnership firm registered under the Indian Partnership Act, 1936 or the Limited Liability Partnerships Act, 2008.	- Certificate of incorporation / Partnership deed - GST registration - Certificate of commencement of business (if applicable)
2	Board resolution / Power of	A board resolution OR power of attorney in the name of the person executing the bid, authorizing the signatory to commit the Bidder.	Board resolution; <b>OR</b> Power of attorney with appropriate supporting documents

3	Sales turnover	<p>Annual sales turnover generated from services related to system integration during each of the last three financial years (as per the last published Balance sheets), should be at least INR &lt;value in number and words &gt;.</p> <p>This turnover should be on account of Information Communication Technology (ICT) systems development and implementation (i.e. revenue should be on account of system integration/turnkey solutions or products and their associated maintenance or implementation services, packaged software etc.) only</p>	<p>Extracts from the audited balance sheet and profit &amp; loss; <b>OR</b> Certificate from the statutory auditor</p>
4	Technical capability	<p>Bidder must be an <b>OEM</b>, or <b>Authorized Dealer</b> or <b>Bonafied Contractor</b> having sufficient credential of similar nature of work.</p>	<p>Completion certificates from the competent authority ; OR Work order + Self certificate of completion (Certified by the statutory auditor)</p>
5	Debarment	<p><i>Debarment</i> should use as a mandatory Pre-Qualification criterion to restrict organizations that have been either debarred by the tendering department for breach of ethical conduct or fraudulent practices, etc. as specified in Rule 151 of <i>GFR</i>.</p>	<p>Self-Certified letter that the bidder (or any of its successor) is not in the active debarred list published by: a) Central/ State Public Procurement Portal;</p>

## 5.7 Examination of Bids and Determination of Responsiveness

The Bid evaluation committee (TEC) will evaluate whether each Bidder is satisfying the eligibility and qualifying criteria prescribed in the pre-qualification document and declare names of the qualified Bidders.

Prior to the details evaluation, the tender accepting authority will determine the substantial responsiveness of each bid to the bidding documents. For purposes of these clauses, a substantially responsive bid is one which conforms to all the terms and conditions of the bidding documents without material deviations.

Assessment: The detailed assessment for pre-qualification shall be based on the following information submitted by the Bidder:

- Data submitted in prescribed format given in tender documents.
- Bidder's techno-commercial proposals for carrying out the entire works in accordance with the specifications in this document.

The techno-commercial submissions must principally demonstrate the adequacy of bidders' appreciation of the:

- The details operating conditions of Transformer and Isolator.
- Materials of components of Transformer and Isolator.
- Fulfillment of the Departmental requirements.

Bidders are advised to note that the evaluation of techno-commercial bids will be based on the detailed examination of the submittals and would be carried out mainly on the basis of the following principal aspects of the techno-commercial bids.

- (i) Financial Strength
- (ii) Experience of Similar Class of work (Credentials)
- (iii) Performance of Work
- (iv) Technical criteria of Transformer and Isolator as per the specifications mentioned in the attached BOQ in this EOI.

## **5.8**

### **SALIENT DESIGN DATA(S) OF THE TRANSFORMER & HT ISOLATOR SWITCH FUSE UNIT:**

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“Supply, Installation ,Testing (i.e. H.V. test & Relay test) and commissioning of 400 KVA, 3Φ, 50Hz, 11/0.433 KV, Dyn – 11, Delta/Star ,ONAN Level -1 type cooling (as per IS-1180,Level-1) , copper wound outdoor type Transformer making layout plan and taken the approval of Directorate of Electricity Board and supply, installation of 11 KV, 3 Φ, 50 Hz Oil immersed, indoor type, floor mounted, HT isolator switch fuse unit with auto trip arrangement at River Research Institute, Haringhata, Dist.:- Nadia ”. conforming to the following specifications:

#### **A. Transformer Specifications:**

- **Rated KVA:** 400 KVA
- **Rated HV Voltage :** 11KV
- **Rated LV Voltage :** 0.433 KV
- **Type :** Outdoor type
- **Winding:** Copper
- **Phase and Frequency:** 3Φ / 50 Hz
- **Vector Group:** Dyn - 11
- **Tapping:** +5% to -10% in steps of 2.5%
- **Neutral Arrangement:** The neutral lead will be brought out on LT side in a separate Bushing
- **Connection HV/LV:** Delta/Star
- **Terminal Arrangement:**
  - **HV side: TRIFURCATING CABLE BOX OR HIGH VOLTAGE BUSHING OUT DOOR TYPE** suitable to connect XLPE cable.
  - **LV side: QUADFURCATING CABLE BOX WITH COPPER BUS BAR OR OUTDOOR TYPE BUSHING** with copper bus bar terminal suitable to connect PVC cable.
- **Type of Cooling:** ONAN  
Level-I  
Previously Level-II

**Standard Reference: IS-1180 Level-I**

**Fitting Accessories: The Transformer will be completed all standard fitting and accessories**

as mentioned below:-

1. Externally hand operated off-circuit tap switch with position indicator and locking device.
  2. Conservator with oil gauge, oil-filling hole with plug and drain hole with plug.
  3. Under carriage with four plain rollers.
  4. Drain valve with plug.
  5. Oil filling hole with plug cum air release plug.
  6. Filter valve with plug.
  7. Diagram and rating plate.
  8. Lifting lugs-2 Nos.
  9. Earthing Terminals-2Nos.
  10. Thermometer pocket with dial type thermometer.
  11. Silica gel breather.
  12. Explosion vent.
  13. Buch. Relay.
  14. Marshalling box.
  15. WTI.
  16. OTI.
- **Make:** *AUTOMATIC ELECTRO GEAR, VOLTAMP, TRUEVOLT, CENTURY TRANSFORMER.*

#### **B. Oil Immersed Isolator Specification:**

- **Service Voltage:** 11KV, 3  $\Phi$ , 50 Hz
- **Rated current:** 200 Amps
- **No. of poles :** Triple pole
- **Quantity of oil:** 150Ltrs.
- Indoor free floor standing type
- Totally enclosed
- Automatic trip from ON position to OFF position by striker Pin of HRC Fuse blowing
- Design for Load-breaking & Fault-rupturing capacity

#### **TERMINAL ARRANGEMENT:-**

- **Incoming Side:** TRIFURCATING CABLE BOX suitable to connect XLPE cable.
- **Outgoing Side:** Three Nos. terminals suitable to connect XLPE Cable.

#### **FITTINGS:-**

1. Spring operated manual closing mechanism with mechanical ON-OFF-EARTH position indicators.
  2. Mechanical knob for instantaneously releasing ON position to OFF position of Switch fuse unit.
  3. Air insulation fuse chamber with locking facility.
  4. Earthing terminals.
  5. Rating plate.
  6. Drain plug.
  7. Lifting lugs.
  8. Oil-filling hole.
  9. 200A-HRC Fuse -03 nos.
- **MAKE:** *MEGAWIN, VOLTAMP, MEI.*



**FOI No. WBIW/EE/MMED/e-FOI-01 /2022-23**

**Memo No: 149 /1 (3) /1T-1**

**Date: 01.03.2023**

Copy forwarded for information and taking necessary action please for widepublication to: -

1	The Chief Engineer, Mech & Elect , I&W Directorate, 2 <sup>nd</sup> Floor, Jalsampad Bhawan ,Govt of West Bengal.
2	The Superintending Engineer, Mechanical & Electrical Circle, Kolkata, 6 <sup>th</sup> Floor, Jalsampad Bhawan, I&W Dte.
3	Office Notice board.

**Executive Engineer**  
**Metropolitan Mechanical & Electrical Division**  
**Irrigation & Waterways Directorate**

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### QUOTED BID PRICE IN EOI

Schedule of work : “Supply, Installation ,Testing (i.e. H.V. test & Relay test) and commissioning of 400 KVA, 3Φ, 50Hz, 11/0.433 KV, Dyn – 11, Delta/Star ,ONAN Level -1 type cooling (as per IS-1180,Level-1) , copper wound outdoor type Transformer making layout plan and taken the approval of Directorate of Electricity Board and supply, installation of 11 KV, 3 Φ, 50 Hz Oil immersed, indoor type, floor mounted, HT isolator switch fuse unit with auto trip arrangement at River Research Institute, Haringhata, Dist.:- Nadia ”.

Sl. No	Description of work as per preliminary assessment	Qty.	Unit	Description of work proposed by the bidder (for budget quotes)	Quantity (for budget quotes)	Unit (for budget quotes)	Rate Excluding GST (Rs.) (budget quotes)	Applicable GST Amount (In Rs)	Amount (Rs). (budget quotes)
1	<p><i>Supply, Installation ,Testing (i.e. H.V. test &amp; Relay test) and commissioning of 400 KVA, 3 Φ, 50Hz, 11/0.433 KV, Dyn – 11, Delta/Star ,ONAN Level -1 type cooling (as per IS-1180,Level-1) , copper wound outdoor type Transformer making layout plan and taken the approval of Directorate of Electricity Board at River Research Institute, Haringhata, Dist.:- Nadia</i> conforming the following specifications: -</p> <p><i>A. Transformer Specifications:</i></p> <ul style="list-style-type: none"> <li>• <b>Rated KVA:</b>                    <b>400 KVA</b></li> <li>• <b>Rated HV Voltage</b>        :     <b>11KV</b></li> <li>• <b>Rated LV Voltage</b>        :     <b>0.433 KV</b></li> <li>• <b>Type :</b>                            <b>Outdoor type</b></li> </ul>								

## [Expression of Interest]

<ul style="list-style-type: none"> <li>• <b>Winding :</b> Copper</li> <li>• <b>Phase and Frequency:</b> 3Φ / 50 Hz</li> <li>• <b>Vector Group :</b> Dyn - 11</li> <li>• <b>Tapping:</b> +5% to - 10% in steps of 2.5%</li> <li>• <b>Neutral Arrangement :</b> The neutral lead will be brought out on LT side in a separate Bushing</li> <li>• <b>Connection HV/LV :</b> Delta/Star</li>   <li>• <b>Terminal Arrangement:</b> <ul style="list-style-type: none"> <li>➤ <b>HV side:</b> Trifurcating cable box suitable to connect XLPE cable.</li> <li>➤ <b>LV side:</b> Quad furcating Cable Box with copper bus bar terminal suitable to connect PVC cable</li> </ul> </li>   <li>• <b>Type of Cooling:</b> ONAN Level-I</li> <li>• <b>Silicagel breather</b></li> <li>• <b>Marshaling Box</b></li> <li>• <b>Earthing Terminals :</b> 02 Nos.</li> <li>• <b>Plug for:</b> Oil filling hole, drain valve, air release</li> <li>• <b>Bunch Relay</b></li> <li>• <b>Make:</b> AUTOMATIC ELECTRO GEAR, VOLTAMP, TRUEVOLT,CENTURY TRANSFORMER</li> </ul>	01	Set						
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## [Expression of Interest]

2.	<p><i>Supply, installation of 11 KV, 3 Φ, 50 Hz Oil immersed, indoor type, floor mounted, HT isolator switch fuse unit with auto trip arrangement at River Research Institute, Haringhata, Dist.:- Nadia</i> conforming the following specifications: -</p> <p><b>A. Oil Immersed Isolator Specification:</b></p> <ul style="list-style-type: none"> <li>• Service Voltage : 11000Volts,3 Φ, 50 Hz</li> <li>• Rated current : 200 Amps</li> <li>• No. of poles : Triple pole</li> <li>• Quantity of oil: 150Ltrs.</li> <li>• Indoor free floor standing type</li> <li>• Totally enclosed</li> <li>• Automatic trip from ON position to OFF position by striker Pin of HRC Fuse blowing</li> <li>• Design for Load-breaking &amp; Fault-rupturing capacity</li> <li>• Plug for: Oil filling hole, drain valve</li> <li>• 200A-HRC Fuse -03 nos</li> <li>• Earthing terminals</li> <li>• Incoming Side: Trifurcating cable box suitable to connect XLPE cable</li> <li>• Outgoing Side: Three nos. terminals suitable to connect XLPE cable.</li> <li>• MAKE: MAKE: <i>MEGAWIN, VOLTAMP, MEI.</i></li> </ul>	01	Set						
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