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| Tender No : TPCODL/P&S/100000443/2023-24 |  |  |  |
| Package Name :RC for supply of LVRT      |  |  |  |

| Prebid Query Reply |  |                                 |                                 |                 |
|--------------------|--|---------------------------------|---------------------------------|-----------------|
| Sr. No.            | Detailed Reference to TPCODL Tender document. Please specify Document No / Clause No / Page No | Description as per Bid Document | Remarks - Query / Clarification | TPCODL RESPONSE |
| 1                  | 2  | 3                               | 4                               | 5               |

**Technical Clarifications**

| For LVRT 1 MVA (7/11 KV):1 MVA LVRT has been excluded from this tender  |  |  |  |  |
|---|--|--|--|--|
| 1   | As Per Clause No.4: General Technical Requirements:              | 10. Flux density at 11KV and frequency 50Hz -1.6T<br><br>11. Max Flux density at 12.5% increase of Combined Nominal V & f - 1.9T   | We request you to kindly allow the Normal flux density (at rated voltage and frequency) up to 1.69T which is in limits, as the Max flux density(Increase of +12.5% combined voltage and frequency variation form the rated voltage and frequency) is 1.9T (i.e-1.9 Tesla Max/1.125%=1.6888 Tesla )   | Not applicable   |
| 2   | As Per Clause No.4: General Technical Requirements:              | 13. Vector Group- Ynya0  | Since this is work as an Auto transformer hence the vector group shall be YNa0   | Not applicable   |
| 3   | As per Clause No.5.1: CORE:                                      | iii. Core should be coated with hot oil proof, with insulation coating, an inorganic coating equivalent to C-5 type as ASTM A976 or IS 3024, like Carlite-3.<br><br>The core thickness should be 0.23mm or better. 23HP85 as per IS 3024 or better with Minimum Polarization in Tesla at a Field Strength of 800 A/m   | We wish to bring to your kind notice that, CRGO manufacturers are providing insulation coating on CRGO as per IS: 3024, C-5 over C-2. Kindly confirm shall we proceed with C-5 over C-2 instead of C-5.<br><br>We shall propose the suitable grade of CRGO by meeting the No load loss requirement as per specification. Kindly confirm                        | Not applicable   |
| 4   | As per Clause No.5.1: CORE:                                      | XIV. Transformer core assembly shall have enclosed type lifting lugs for lifting arrangement.  | We Wish to bring to your kind notice that, Kindly Provide the Information about Lifting Lugs (Enclosed type) Construction. Kindly Confirm.   | Not applicable   |
| 5   | As per Clause No.5.14: OIL:                                      | <b>Note:</b> Default Oil shall be Mineral oil only if not specified / asked for other oil  | No special note was found. Hence it is presumed that the oil is mineral oil. All parameters as per clause no. 5.16 – Mineral Oil.  | Not applicable   |
| 6   | As per Clause No.5.30: MAKE OF MAJOR COMPONENTS & RAW MATERIALS: | b) Core -- M/S AK Steels, POSCO, Kawasaki/JFE, Nippon Steel  | We wish to bring to your kind notice that, kindly add the below mentioned vendors also:<br>1. Baoshan Iron & Steel Co, China<br>2.Thyssenkrupp Electrical Steel India Pvt. Ltd (TKES), Nasik<br>3.NOVOLPESTSK STEEL (NLMK) RUSSIA<br>4.VIZ STEEL LTD, RUSSIA<br>Kindly Confirm.  | Not applicable   |
| 7   | As Per Clause No.8: TYPE TEST CERTIFICATES:                      | I. The bidder shall furnish type test certificates of the offered rating and design of transformer for the tests as mentioned above as per the corresponding standards.<br><br>3.9 Type Tests (if applicable) The type tests specified in TPCODL specifications should have been carried out within five years prior to the date of opening of technical bids and test reports are to be submitted along with the bids. If type tests carried out are not within the five years prior to the date of bidding, the bidder will arrange to carry out type tests specified, at his cost. The decision to accept/ reject such bids rests with TPCODL | We request you to kindly allow us for submitting the type test reports of similar or higher rating and voltage class for tender evaluation purpose only. However, we shall conduct and submit the type test reports upon receipt of order without affecting the delivery schedule at our cost.<br><br>Please review and confirm your acceptance                | Not applicable   |
| 8   | 4. GENERAL TECHNICAL REQUIREMENTS                                | Sl.no. 7 Voltage Control method<br>By provision of an AVR With OLTC  | We shall only provide the AVR for OLTC operation. In order to make OLTC operation through AVR it's required voltage variation input from 11 kV on load side. Since AVR can only accept 110V AC hence same can we achieved by using the outdoor type voltage transformer with ratio of 11000/110V. supply of voltage transformer is not in our scope of supply. | Not applicable   |
| 9   | 4. GENERAL TECHNICAL REQUIREMENTS                                | Sl.No. 18. Impedance Voltage at rated current at 75 Deg  | Impedance value shall be guaranteed @ TAP-1 at 7kV(source side)/11KV(Load side) base.  | Not applicable   |
| <b>LVRT 1.5 MVA (7/11 KV) - Please note, Technical specification is not available for this rating in the tender document. So, we request you to Kindly Reply: 1.5 MVA LVRT has been excluded from this tender</b> |  |  |  |  |
| <b>LVRT (25-33)/33KV, 5 MVA and 10 MVA</b>  |  |  |  |  |
| 10  | As Per Clause No.4: General Technical                            | Requirements: 10. Flux density at 33KV and frequency 50Hz -1.6T<br><br>11. Max Flux density at 12.5% increase of Combined Nominal V & f  | We request you to kindly allow the Normal flux density (at rated voltage and frequency) up to 1.69T which is in limits, as the Max flux density (Increase of +12.5% combined voltage and frequency variation form the rated voltage and frequency) is 1.9T (i.e-1.9 Tesla Max/1.125%=1.6888 Tesla )  | 1.6 T as per TS<br>1.8 and 112.5% combined V&F                         |
| 11  | As Per Clause No.4: General Technical Requirements:              | 13. Vector Group- Ynya0  | Since this is work as an Auto transformer hence the vector group shall be YNa0   | Noted  |
| 12  | As per Clause No.5.1: CORE:                                      | iii. Core should be coated with hot oil proof, with insulation coating, an inorganic coating equivalent to C-5 type as ASTM A976 or IS 3024, like Carlite-3.   | We wish to bring to your kind notice that, CRGO manufacturers are providing insulation coating on CRGO as per IS: 3024, C-5 over C-2. Kindly confirm shall we proceed with C-5 over C-2 instead of C-5.  | It will be C5 over C2.   |
| 13  | As per Clause No.5.1: CORE:                                      | Xiii. Transformer core assembly shall have enclosed type lifting lugs for lifting arrangement.   | We Wish to bring to your kind notice that, Kindly Provide the Information about Lifting Lugs (Enclosed type) Construction. Kindly Confirm.   | Lifting Lug are to be suitably designed to bear the weight of the Xmer |
| 14  | As per Clause No.5.2: OIL:                                       | <b>Note:</b> Default Oil shall be Mineral oil only if not specified / asked for other oil  | No special note was found. Hence it is presumed that the oil is mineral oil. All parameters as per clause no. 5.16 – Mineral Oil.  | Mineral Oil is required  |

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| 16                               | As per Clause No.5.30: MAKE OF MAJOR COMPONENTS & RAW MATERIALS: | b) Core -- M/S AK Steels, POSCO, Kawasaki/JFE, Nippon Steel  | We wish to bring to your kind notice that, kindly add the below mentioned vendors also:<br>1. Baoshan Iron & Steel Co, China<br>2.Thyssenkrupp Electrical Steel India Pvt. Ltd (TKES), Nasik<br>3.NOVOLPESTSK STEEL (NLMK) RUSSIA<br>4.VIZ STEEL LTD, RUSSIA<br>Kindly Confirm.   | Raw material shall be as per TS. Thyssenkrup is accepted   |
| 17                               | As Per Clause No.8: TYPE TEST CERTIFICATES:                      | l. The bidder shall furnish type test certificates of the offered rating and design of transformer for the tests as mentioned above as per the corresponding standards.<br><br>3.9 Type Tests (if applicable) The type tests specified in TPCODL specifications should have been carried out within five years prior to the date of opening of technical bids and test reports are to be submitted along with the bids. If type tests carried out are not within the five years prior to the date of bidding, the bidder will arrange to carry out type tests specified, at his cost. The decision to accept/ reject such bids rests with TPCODL | We request you to kindly allow us for submitting the type test reports of similar or higher rating and voltage class for tender evaluation purpose. However, we shall conduct and submit the type test reports upon receipt of order without affecting the delivery schedule at our cost.<br>Please review and confirm your acceptance  | Type test is mandatory.<br><br>Short Circuit Withstandtest is not necessary.Calculation to validate the same to be submitted |
| 18                               | 4. GENERAL TECHNICAL REQUIREMENTS Sl.no. 7                       | Voltage Control method<br>By provision of In-Tank OLTC (On Load Tap Changer)/ Side Mounted OLTC (TBD in Detailed Engineering) with AVR for Automatic operation   | We shall only provide the AVR for OLTC operation. In order to make OLTC operation through AVR it's required voltage variation input from 33 kV on load side. Since AVR can only accept 110V AC hence same can we achieved by using the outdoor type voltage transformer with ratio of 33000/110V. supply of voltage transformer is not in our scope of supply.  | Supply of Voltage Transformer is in scope og supplier  |
| 19                               | 4. GENERAL TECHNICAL REQUIREMENTS                                | Sl.No. 17. Impedance Voltage at rated current at 75 Deg  | Impedance value shall be guaranteed @ TAP-1 at 25kV(source side)/33KV(Load side) base.  | Accepted   |
| <b>Commercial Clarifications</b> |  |  |   |  |
| 20                               | 1.7 Qualification Criteria/Page no. 7 of 21                      | c) The bidder should have successful Type Test Report (TTR) as specified in specification and shall furnish the same as a part of the Technical Bid. The type tests should have been conducted on the equipment / material of the same design and rating or with higher rating. The type tests should have been conducted within 5 years prior to the date of bid opening.   | We request you to kindly allow us for submitting the type test reports of similar or higher rating and voltage class for tender evaluation purpose. However, we shall conduct and submit the type test reports upon receipt of order without affecting the delivery schedule at our cost.<br>Please review and confirm your acceptance  | Type test is mandatory.<br><br>Short Circuit Withstandtest is not necessary.Calculation to validate the same to be submitted |
| 21                               | 1.7 Qualification Criteria/Page no. 7 of 21                      | d) The bidder should have supplied LVRT of minimum 50% of the quantity tendered of same or higher rating during last five financial years.   | Please not, there are very limited tenders floated by the DISCOMs in INDIA for procuring of these type of transformers (LVRT). So, submission of supply credentials pertaining to LVRTs would be very difficult.  |  |
| 22                               | 1.7 Qualification Criteria/Page no. 8 of 21                      | f) The bid shall be accompanied by user's certificate (preferably issued within immediate last 5 years) from any Distribution Utility/ Reputed Private Organization/ State Govt. / Central Govt. or their undertaking(s) in support of satisfactory performance of the LVRT supplied earlier to them. In case the bidder has a previous association with Tata Power for similar products and services, the performance feedback for that bidder by TPC User Group shall only be considered irrespective of performance certificates issued by any third organization. Copy of performance certificates to be submitted in this regard.           | So, in this regard we request you to kindly allow us to submit the supply and performance credentials of Transformers of higher rating and voltage class (i.e., 33/11kV) for tender evaluation purpose. Which will helps us to qualify and being competitive in this tender.<br><br>Please review and confirm your acceptance.  | Accepted   |
| 23                               | 2.1 Price basis/ Page no. 8 of 21                                | Price will be fixed and firm during the contractual period   | Pleas note, this tender calls under Rate contract basis. So, it would be very difficult to execute this order under Racte contract. Also, prices of all the major raw materials and components, required for manufacturing of transformers, are increasing abnormally and have reached levels, beyond the imagination of the industry. It would be very difficult to predict the price movement of material for the contractual period mentioned by your company.<br><br>It would be mutually beneficial, if Price Variation, as per IEEMA formulae, is adopted for this tender as against the "FIRM Price" basis. Almost, all the Govt., private DISCOMs in INDIA is also floating the tenders with prices on variable basis. Hence, we request to consider our request for revision of the clause as "The rates quoted should be "Variable" as per IEEMA formulae" as against "FIRM" basis.<br><br>Please review and confirm your acceptance. | IEEMA PV clause will be applicable with a cap of +10% of contract price.   |

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| 24 | Terms of Payment/ Page no. 15 of 21                            | <p><b>Supply:</b> On delivery of the materials in good condition and certification of acceptance by certified official, Associate shall submit the Bills/ Invoices in original in the name of TP Central Odisha Distribution Limited to Invoice Desk. The payment shall be released within 60 days from the date of submission of certified bills/ invoices for Non-MSME BA and within 45 days from the date of submission of certified bills/ invoices for MSME BA.</p> <p><b>Supervision during Commissioning:</b> Payment shall be released within 60 days from the date of submission of certified bills/ invoices for Non-MSME BA and within 45 days from the date of submission of certified bills/ invoices for MSME BA.</p> | <p>We bring to your kind notice that, releasing of payment within 60 days may impact on our existing commitments with other discoms.</p> <p>So, we request you to accept to release the payment within 30days from the date of submission of certified bills/invoices.</p> <p>Please review and confirm your acceptance.</p> | <p>Payment terms will remain same as per tender terms. BA may take facility of bill discounting platform through TRED.</p> |
| 25 | Specification No. : ENG-HV-2038 (Page No: 24)                  | Indian Standard Mentioned as IS1180   | IS1180 complied only on Distribution Transformers upto 2500KVA,33KV class. Hence please amend this point.  | Noted<br>IS 2026/1180 are applicable but Losses shall be as per TS @ 100%Loading.  |
| 26 | Specification No. : ENG-HV-2038 (Page No: 27)<br>Point No: 4   | General Technical specification   | As per your requirement of 1500KVA. specification of 1500KVA not available in your Tender document.  | 1500KVa is not a standard rating as per TS. Advised to use 2500KVA .Specs available in Tender Doc                          |
| 27 | Specification No. : ENG-HV-2038 (Page No: 36)<br>Point No: 5.4 | Losses  | guarantee the total loss at 50% and 100% load condition. As this clause is not applicable on LVRTs.Kindly ammend   | Noted .Lossed at 100% Load to be complied as per TS  |
| 28 | Specification No. : ENG-HV-2038 (Page No: 52)<br>Point No: 7.1 | Type Tests  | Short Circuit Withstand test [As per IS 2026 (Part 5)] is not applicable due to low impedance voltage. We can provide Short Circuit calculation.   | Short Circuit withstand calculation to be submitted  |
| 29 | Specification No. : ENG-EHV-1033 (Page No.: 63)                | Indian Standard Mentioned as IS1180   | IS1180 complied only on Distribution Transformers upto 2500KVA,33KV class. Hence please amend this point.  | Noted  |
| 30 | Specification No. : ENG-EHV-1033 (Page No.: 75)                | Losses  | guarantee the total loss at 100% load condition. As this clause is not applicable on LVRTs.Kindly ammend   | Guarateed Loss at 100% Load Condition as per TS  |
| 31 | Specification No. : ENG-EHV-1033 (Page No.: 90)                | Type Tests  | Short Circuit Withstand test [As per IS 2026 (Part 5)] is not applicable due to low impedance voltage. We can provide Short Circuit calculation.   | Short Circuit withstand calculation to be submitted  |