

Pre-Bid Meeting -16/20MVA 33/11.3 KV PTs(Mineral oil filled + Natural Ester Filled)							
Technical Query							
Participants:			MOM:				
1. QRE -Mr.N. Babu 2. AEML- Meghana Bothe, Tanu Srivastava			1. AEML explained the scope of supply, Technical Specification requirements to Bidders. 2. During pre-bid meeting, Bidders raised queries, response of which is attached herewith. 3. In case Bidders wish to send additional Technical queries, they can send mails to CES Dept. with a copy to CPG.				
Sr. no.	Document	Clause no /Sr.No of BOQ	Description	Query	Query raised by	AEMLRemark	Inclusion in Corrigendum
1	NIT		Requirement is for Mineral Oil filled 16/20 MVA and Natural ester filled 16/20 MVA PT	Can Bidder participate for any one of the Transformer Type.	M/s QRE	Accepted	Yes
2	Technical Specs_PT SP-CES-EL-MOPTR-R00-01	Losses	Losses for 16/20 MVA is NL- 11kW and FL- 68kW	Can Bidder offer losses other than mentioned in Tech Specs.	M/s QRE	Bidder can quote losses subject to maximum ceiling of 12/75 kW.Loss capitalization shall be applicable	Yes
3	Technical Specs_PT SP-CES-EL-MOPTR-R00-01	LV /HV bushing	Cable box suitable for 1C x 1000 sq.mm A2XWaY armoured, 11 kV (E) grade cable	Clarify the HV/LV Bushing & Termination arrangement	M/s QRE	HV/LV Plug-In Bushing with Plug-In Touch Proof terminations as per the Technical Specification.	Yes
4	Technical Specs_PT SP-CES-EL-MOPTR-R00-01	NIFPS	Approved Makes of NIFPS	1. Provide approved make of NIFPS 2. Can NIFPS PO be placed separately	M/s QRE	1. Approved Make of NIFPS a. CTR b. Esun MR c. Vendere d. Tectonicus 2. PO can be placed separate.	Yes
5	Scope of Supply	Testing at site	Testing of Power Transformer (Pre commissioning tests applicable for transformer as per scope of ITC shall be in scope of successful bidder	Pre-commissioning Tests	M/s QRE	Scope of ITC 2019-20 to be followed.	Yes
6	Technical Specs_PT SP-CES-EL-MOPTR-R00-01	7	OLTC	Clarification		1. For Natural filled Ester 16/20 MVA PT - Vacuum OLTC, In-Tank Type 2. For Mineral Oil filled 16/20 MVA PT - Vendors have the Option to offer In-Tank Vacuum OLTC in place of Oil filled OLTC+Filteration machine.	Yes
7	Technical Specs_PT SP-CES-EL-MOPTR-R00-01	3.3.11	Transformer Footprint	Clarification		For Mineral Oil filled PT, dimensions to be considered as 5000 x 4000 x 5000 mm.	Yes
8	NIT, ITB		ACCEPTANCE FORM FOR PARTICIPATION IN REVERSE AUCTION EVENT	Kindly let us know whether Reverse Auction is applicable for this Tender	Toshiba	Yes .Reverse Auction is applicable to this tender	Yes
9	NIT		Bidding Document Fee, Rs. 1120/- (Rupees One Thousand on hundred eighty only) (non-refundable & non-adjustable) by way of D.D. in favor of M/s. Adani Electricity Mumbai Ltd.	The bidding document fee mentioned in figures and words are different, kindly let us know the exact to be considered.	Toshiba	Tender fees value shall be Rs.1120	Yes

10	Tech. Specification,	Clause No.3.5	Loss capitalization formulae Shall be applicable & rate in Rs/KW will be communicated at the time of enquiry.	Kindly let us know whether the capitalization is applicable for this Tender evaluation. If yes, kindly provide the respective A-Factor & B-Factor values.	Toshiba	As per the CBIP formula	Yes
11	Tech. Specification,	Clause No.3.4.14	Overall footprint (max.) in mm for Ester Oil. (LxBxH) : 3600 x 4000 x 5000 for 16/20 MVA Overall footprint (max.) in mm for Mineral Oil. (LxBxH) : 5500 x 4000 x 4800 for 16/20 MVA	We are expecting the length will extend more than 3600mm. We shall inform the exact value after our completion of design for Ester Oil. Further kindly let us know whether we need to consider these dimensions as maximum for transformer.	Toshiba	1. For Natural Ester filled PT - 3600 x 4000 x 5000(Max) 2. For Mineral Oil filled PT - 5000 x 4000 x 5200 mm. Your design dimension you can submit in your technical offer. Subject to acceptance.	Yes
12	Tech. Specification,	Clause No.7	OLTC: Requirement: External In tank type / In Tank type OLTC shall be required as per enquiry. Type: Mineral Oil filled / Vacuum type OLTC as per enquiry. Tappings: At 33KV: + 3.6 % to - 7.2 % @ step of 1.2 % & +5.4% to -10.8% @ step of 1.8% as per enq.& engineering requirement	As the requirement, Type & Tappings are contradictory, kindly let us know the exact to be followed. Further these parameters are applicable for both Ester & Mineral oil transformers or not.	Toshiba	Tap range - +5.4% to -10.8% @ step of 1.8%.	Yes
13	Technical Specification,	Annexure-A	Supervision of Electrical testing: Successful bidder shall supervise all Electrical testing done on transformer.Statutory approvals, Testing & commissioning Of transformer will be in scope of AEML. Electrical Testing of transformer is in scope of AEML. Commissioning of Power transformer---In the scope of Adani	a). As these two clauses are contradictory, kindly let us know the exact scope on commissioning & Testing at site. b).Further, in case the testing at site is under the scope of vendor, we request you to kindly let us know exactly any extra tests to be done at site other than the mentioned in the tender docuemet as it is specifying that the mentioned tests at site in the scope document are indicative only. We need to arrive the price estimation based on the tests only. In addition, the testing equipment shall be provided by AEML only as it is very difficult to carry the test equipment for conducting some of the tests like Measurement of Short Circuit Impedance, SFRA etc. hence the testing equipment shall be provided by AEML only at site.	Toshiba	Please follow the Scope of ITC 2019-20 provided as Annexure to tender documents.	Yes
14	Scoper of Supply		Testing & Commissioning of Transformer: - Testing of Power Transformer (Pre commissioning tests applicable for transformer with respect to relative standards) shall be in scope of successful bidder. Successful bidder shall also be responsible for final commissioning of power transformer at the satisfactory level of AEML engineer/site in charge. Tests at Site: The said tests are indicative. Vendor shall be required to do Testing as per requirements of AEML.				Yes

15	Price Schedule-Services		<p>a). Testing of PT which includes following Tests : (Ratio Test, magnetic Balance Test, Short Circuit Test, Measurement of Magnetizing Current, Insulation Resistance & Polarization Index, DC winding resistance measurement, Vector Group Test, Neutral Current Transformer Testing, Stability Test of Power Transformer, Insulation Resistance & Polarization Index.</p> <p>b). Performing Short Circuit Test for Ester Oil Power Transformer which includes Transportation of to and Fro Charges upto Lab PERFORMING SHORT CIRCUIT TEST FOR ESTER OIL POWER TRANSFORMER WHICH INCLUDES TRANSPORTATION OF TO AND FRO CHARGES UPTO LAB---2Nos.</p>	<p>a).Testing at manufacturer's works and site has clearly mentioned in Technical Specification & Scope of supply. Hence we request you to kindly make this point as null & void as these many clauses will make us ambiguity.</p> <p>B). Kindly let us know whether AEML shall provide the charges for the SC test against Ester Oil power transformers. The price schedule is mentioned for short circuit test of 2Nos. of Ester Oil Power Transformrs. Kindly let us know whether the SC Test shall be conducted on both transformers of Ester Oil.</p> <p>c). Further, kindly let provide an option for Short Circuit charges for Mineral Oil also as like Ester Oil in the price schedule inorder to quote our charges accordingly.</p>	Toshiba	<p>a. For FAT, please follow the Technical Specs. For site commissioning tests, please follow Scope of ITC 2019-20 provided as Annexure to Tender Documents.</p> <p>b. Dynamic SC Test to be performed on 1 no of Natural Ester Transformer. Testing charges you can mention in the price schedule.</p> <p>c. Dynamic SC Test performed on Ester PT can be considered for Mineral Oil PT subject to providing similarity comparision.</p>	Yes																																																								
16	Technical Specification of NIFPS,	Clause No.1.7	Power supply For Control For service / lighting	Please confirm the control voltage for NIFPS whether it is 110V or 220V.		110 V	Yes																																																								
16	BOQ		BOQ has been revised and 2 nos of mineral Oil filled 33/11.3 kV,16/20 MVA PTs added in requirement.	Addendum	-	BOQ:	Yes																																																								
<table border="1"> <thead> <tr> <th>Item</th> <th>Status</th> <th>A</th> <th>I</th> <th>Material</th> <th>Short Text</th> <th>Quantity</th> <th>Unit</th> </tr> </thead> <tbody> <tr> <td>10</td> <td></td> <td></td> <td></td> <td>2100044779</td> <td>TRAFO,PWR,OIL;16/20MVA;33KV;11.3KV</td> <td>5</td> <td>NOS</td> </tr> <tr> <td>20</td> <td></td> <td></td> <td></td> <td>2100035462</td> <td>EXTNGSR,FIRE;N2INJECTION;SYS</td> <td>5</td> <td>NOS</td> </tr> <tr> <td>30</td> <td></td> <td></td> <td></td> <td>2100237691</td> <td>TRAFO,PWR,NE;16/20MVA;33kv;11.3kv</td> <td>2</td> <td>NOS</td> </tr> <tr> <td>40</td> <td></td> <td></td> <td></td> <td>2100035462</td> <td>EXTNGSR,FIRE;N2INJECTION;SYS</td> <td>2</td> <td>NOS</td> </tr> <tr> <td>50</td> <td></td> <td></td> <td></td> <td>2100044779</td> <td>TRAFO,PWR,OIL;16/20MVA;33KV;11.3KV</td> <td>2</td> <td>NOS</td> </tr> <tr> <td>60</td> <td></td> <td></td> <td></td> <td>2100035462</td> <td>EXTNGSR,FIRE;N2INJECTION;SYS</td> <td>2</td> <td>NOS</td> </tr> </tbody> </table>								Item	Status	A	I	Material	Short Text	Quantity	Unit	10				2100044779	TRAFO,PWR,OIL;16/20MVA;33KV;11.3KV	5	NOS	20				2100035462	EXTNGSR,FIRE;N2INJECTION;SYS	5	NOS	30				2100237691	TRAFO,PWR,NE;16/20MVA;33kv;11.3kv	2	NOS	40				2100035462	EXTNGSR,FIRE;N2INJECTION;SYS	2	NOS	50				2100044779	TRAFO,PWR,OIL;16/20MVA;33KV;11.3KV	2	NOS	60				2100035462	EXTNGSR,FIRE;N2INJECTION;SYS	2	NOS
Item	Status	A	I	Material	Short Text	Quantity	Unit																																																								
10				2100044779	TRAFO,PWR,OIL;16/20MVA;33KV;11.3KV	5	NOS																																																								
20				2100035462	EXTNGSR,FIRE;N2INJECTION;SYS	5	NOS																																																								
30				2100237691	TRAFO,PWR,NE;16/20MVA;33kv;11.3kv	2	NOS																																																								
40				2100035462	EXTNGSR,FIRE;N2INJECTION;SYS	2	NOS																																																								
50				2100044779	TRAFO,PWR,OIL;16/20MVA;33KV;11.3KV	2	NOS																																																								
60				2100035462	EXTNGSR,FIRE;N2INJECTION;SYS	2	NOS																																																								
17	Due date of Bid Submission		Due date of Bid Submission	Request to extend the date of bid submission upto 30-July.	Voltamp	Last date for Bid submission is extended upto 30-July-19	Yes																																																								