

**REPLY to PRE-BID QUERIES for AWRS at TTPS Lalpania, Bokaro**

SI No.	Technical Doc.	Clause No./SI. No.	Description	Clarification Required	Reply of TVNL/MECON	Remarks
1				In connection with the aforesaid tender we enclose our MSME certificate for Udyog Aadhaar Memorandum for your kind information and reference. Please confirm that based on that certificate we are exempted for submission of cost of bidding documents and Earnest Money Deposit.	Please refer Corrigendum 1 dated 21.08.2019	
	<b>General</b>					
2	Corrigendum-1 dated 21.08.2019	25	Invitation For Bids (IFB)- Clause No. 7.0 – Cost of bidding document: The clause mentioned at SI. No. 1 above to be added after last paragraph of Invitation For Bids (IFB) - Clause No. 7.0 – Cost of bidding document.		<b>To be read as:</b> Invitation For Bids (IFB)- Clause No. 7.0 – Cost of bidding document: The clause mentioned at <b>SI. No. 24</b> above to be added after last paragraph of Invitation For Bids (IFB) - Clause No. 7.0 – Cost of bidding document.	
3				Further to our earlier mail we would like to inform you that as per Corrigendum no-1, we have to provide 2 nos Submersible/ vertical type Slurry pumps to be installed in two sumps i.e. one pump in each sump and there will be no standby slurry pump.	Pumps shall be 2 Nos. (1W+1S). At a time only one compartment shall be cleaned, accordingly pumps to be utilized.	
4				As per cl.no.4.0 of TS, RCC pump house shall be constructed but as per Table-1.3 of Price Schedule, fabricated building steel structure including sheeting & glazing shall be done. Now, we would request to confirm the civil specification of the Pump House at the earliest.	The pump house shall be of RCC. Specification of the RCC work is already mentioned under the Chapter for civil work. Bidder to quote civil work (related to equipment foundation) in table no. 1.4A and civil works (others) in table no. 1.4B of price schedule. Table no. 1.3 is for Supply of Building Steel Structures including Sheeting and Glazing.	
5				With ref. to our earlier query we would like to inform you that you have not provided the soil testing report for the proposed area, as a result of which we could not assess the quantity of soft and hard rock to be excavated and make the design of foundation due to non-availability of soil bearing capacity. Under the circumstances we would request you to provide the same at the earliest so that an estimation can be done properly.	Reply to this query has already been provided along with corrigendum-1. Please refer the same under civil works.	
6				In addition to our earlier mail we would like to inform you that no pump manufacturers are offering the drainage pump of Vertical Centrifugal type since the capacity of the pump is 10m <sup>3</sup> /hr only and head of 10m. Under the circumstances we would request you to accept the Vertical Submersible drainage pump so that we need not to take any deviation for the same. We would request your confirmation at the earliest.	Submersible pumps are also acceptable as drainage pumps.	
	<b>Electrical</b>					
1		07.02.01	The electrical scheme is indicated in enclosed single line diagram no. MEC/TS/11/Q7GR/E1/01, Rev 0.		Refer Corrigendum-II	

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2		07.02.03	LT Power for the AWRS Plant shall be fed from two nos. over head lines terminated on nearby single pole structures being installed by the Purchaser.	<p>1. The SLD shows that Supply of Gang Operated Disconnecting Switch and Lightning Arrester are in the scope of Contractor. That means the contractor need to supply 2nos. (for two incomers) Two(2) Pole structure with GOD with earth switch, Lightning arrester, LT outdoor cable terminating kit, earthing arrangement etc. Please confirm our understanding.</p> <p>Also please provide the Technical Specification of the Two(2) Pole structure and related equipment, if our understanding is okay.</p> <p>2. The Incoming cable size is shown as 2R 3.5Cx240 sqmm. To restrict the voltage drop within 3% from Pole to MCC for 500M length, the number of cables required is 10R 3.5Cx240sqmm. Please clarify our understanding.</p> <p>OR shall we consider 2R 3.5Cx240sqmm cable as indicated in the SLD.</p> <p>3. The marked up SLD is attached.</p>	<p>1. 2 POLE STRUCTURE, LA,etc. are excuded from Bidder's scope. 2. Incoming cable size revised.Final cable size= 5 RX3.5CX240SQ.MM (Approx.length 500 mtr.)</p> <p>3. Revised SLD Attached.</p>	
3		07.04.01	Short Circuit Current is indicated as 40kA against "short circuit strength", "ACB" and "MPCB".	We understand that short circuit rating of MCC shall be 50kA. Please confirm our understanding.	TVNL/MECON NOTED.	
4		07.04.01	ACB: Performance category of the MCC shall be B.	Is it Utilization category? Please confirm our understanding.	TVNL/MECON NOTED.	
5		07.04.01	Minimum Rating of Control Transformer is indicated as 5kVA.	Please confirm 2.5kVA as minimum.	TVNL/MECON NOTED.	
6		07.04.02	Motors 110kW and above shall be provided with bearing temperature indicators.	Understand bearing temperature indicator shall be provided near the motor for DE. Please confirm our understanding.	TVNL/MECON NOTED.	
7		07.04.02	Starting current shall be less than or equal to six times the rated current with IS tolerance. (Corrigendum-I)	As per IS:12615:2011, Starting current range of 2Pole, 4Pole and 6pole motor is 650 - 770% without tolerance of 20%. Please refer attachment.	As per IS:12615:2011 is acceptable.	
8		07.04.02	Electrical Actuator	We are assuming separate Local PB Station for Electric Actuator. Please confirm.	TVNL/MECON NOTED.	
9		07.04.04	LDB: short time rating 25kA for 1sec.	We understand that "short time rating" is applicable for busbar. The short circuit rating of MCBs shall be 9kA. Please confirm. Please confirm our understanding.	TVNL/MECON NOTED.	
10		07.04.05	All the interconnections with other earthing systems of the plant and <b>with existing systems</b> shall be under the scope of the tenderer.	From our site survey, we understand the site is rocky and the soil resistivity will be very high. We propose "Maintenance Free Earth Pit (Chemical Earth Pit)" to achieve overall earth resistance of one(1) ohm. Please confirm.	TVNL/MECON NOTED.	
11		07.04.05	The material shall be galvanized steel laid over the ground and <b>mild steel buried inside the ground/concrete.</b>	We are considering MS rod as underground earth conductor. Please confirm.	MS Rod is not acceptable ,GI shall be used.	
12		07.04.05	A 'Faraday Cage' made of...	Is it referring to Lightning earth grid ? Please explain 'Faraday Cage'.	Refers to lightning protections. For lightening protections of building IS2309 to be considered. For earthing IS3043 shall be considered .	
13		07.04.06 (C)	In addition to above 24V AC sockets with portable hand lamps...	We are considering 24V, 60W filament type hand lamp with 240/24V, 100VA in-built transformer. Please confirm.	TVNL/MECON NOTED.	
14		07.04.06 (C)	Number of welding sockets	Please confirm number of 63A welding sockets is 2 (two).	TVNL/MECON NOTED.	
15				Okay. Please indicate the vendor for 24V socket.	Refer Corrigendum-II	