

## PRE BID CLARIFICATION

DATE - 14-01-2016

Sr no	Clarification of BIDDERS	BHEL Reply
1	Please inform us whether will submit our offer strictly based on the DBR enclosed with enquiry.	Please submit offer based on technical specification. Technical parameters and capacity only mentioned in DBR. Bidder to comply with all technical requirement to full fill the specification requirement. Offer shall confirm to air conditioning sizing & ventilation sizing calculations for Ash Handling Plant and DBR of CHP.
2	For Tunnel Ventilation System you have mentioned Fan static Pressure & Motor Capacity may vary from your figure mentioned in DBR. Is it possible to give us a percentage of variation may occur during detail engineering	static pressure and motor capacity will vary based on final duct sizing., Bidder to supply with out any price implication to BHEL , same shall be subjected to during detail engineering.
3	As per DBR for Ventilation System of CHP Sl.5(D) page-4 of 14 mentioned all Toilet shall be provided Propeller type but as per Fan capacity Chart Sl.(6) page – 12 of 14 all Toilet shall be Provided axial Fan . Please confirm which we will consider?	Both propeller type fan and axial fan are same.
4	As per DBR for Ventilation system of CHP Sl. No. (3.2) page 6 of 14 mentioned velocity of air inside the duct maximum 10m/s but as per Sl. No.4.3(b) page- 9 of 14 mentioned velocity of air inside the duct shall be 11m/s. Please clarify.	Velocity of air inside the duct shall be considered maximum 10m/s
5	As per DBR Sl. No. 4.3(g) 9 of 14 mentioned all exposed duct work to the outside shall be provided with Thermal insulation. Is it required for Dry type Mechanical Ventilation system for Tunnel & MCC room? Please confirm.	Considering Dry type mechanical ventilation system, accordingly duct shall be provided
6	As DBR Sl. No. 4.3(i) page 9 of 14 mentioned Exhaust duct air velocity not exceeding 9 m/s but in Annexure- 2, page 1 of 11 mentioned in calculation of Tunnel Ventilation system Exhaust duct air velocity not exceed 5m/s. Please clarify.	Velocity of exhaust air maintained in the duct shall not exceed 5 m/s
7	Please note that as per tender drg. For tunnel ventilation system we are not considering the chimney shown in suction at Centrifugal Fan. Instead of that we have considered Centrifugal Fan horizontal type with pre-filter for supply. Considered Axial flow fan for exhaust in tunnel ventilation system. Please confirm.	Noted.
8	For CHP MCC-3 ventilation system DBR shown 2 nos. Centrifugal Fan having capacity 65000 cmh. But during pressure drop calculation considered 130 mtr. Duct length for each fan. Where as room length is only 55 mtr. Tender drg. shown 1 no. Centrifugal fan. Please clarify.	There are two floor of each 55mtr, so 55+55+20=130mtr to be considered total duct length for pressure drop calculation. Here due to large air handling capacity, fans has been splitted into two nos.
9	CHP ventilation system battery room we have considered fresh air supply through Louver as per DBR page 4 of 14 SL. No. 5(C) & exhaust air through bifurcated axial fan with motor. Please confirm.	Please follow as per tender enquiry specification.
10	As per doc. No. IS- 4- DC- 844-303-M018 Ventilation Sizing for ASH handling Plant 2 Nos. Centrifugal Fan considered for MCC-1, MCC-2 & MCC-3, but as per layout drawing. for ASH MCC-1, MCC-2 & MCC-3 shown 1 No. Centrifugal fan. Please clarify.	Please consider two (2) nos. centrifugal fans each for AHP MCC-1, MCC-2 & MCC-3
11	As per Doc. No- IS-4-DC-844-303-M018, page-4 of 12 Compressor house & utility Bldg. Ventilation system, supply Fan shall be Centrifugal type, but compressor house. Drg. No. IS-I-GA – 844-308 – M006 R-0 has shown axial Fan. Please clarify. If it is Centrifugal Fan then please indicate the location of 4 Nos. Fan for compressor house and 2 Nos Fan for Silo utility Bldg.	Please consider wall mounted axial fans with mettalic pre filter (requirements like efficiency, particle size of filters shall be as per required in ventillatin sizing for AHP) for compressor house & silo utility building.
12	Please provide us the following GA drawings for estimation of duct if required.. (1) ASH Slurry Pump house. (2) Recovering water pump house, (3) Compressor House, (4) Silo Utility Bldg.	No ducting is to be done in these buildings. Wall mounted axial/propeller type supply/exhaust fans shall be provided for these buildings. Please note that ducting shall be done in AHP MCC's (MCC-1, MCC-2 & MCC-3) only. However, GA drgs. asked have been attached.