

**Pre – bid Clarification on Tender for Supply and E&C of Crusher, Screens & Vibrating Feeders for 2 X 660 MW
Suratgarh Super Critical TPS Stage-5, Units 7 & 8-CHP**

BHEL Tender No. 77/14/6014/MVG

S. No.	BIDDER'S CLARIFICATION	BHEL-ISG's reply
	Mechanical:	
1.	The design capacity mentioned is 50% of the rated capacity for equipment 1 to 4. The motor to be selected having 25% margin over the design capacity. This way we are actually sizing the equipment at ~175% of the rated capacity. This will increase the size of the equipment considerably.	Design capacity shall be as per, VOLUME – III, Part –B , SECTION: D8, SHEET 3 OF 25 , Cl. 2.3. design capacities of crushers and screens shall be 50% more than the rated capacity. For selection of motor, refer VOLUME – III, Part –B , SECTION: D8, PAGE 4 OF 25 , Cl. 3.1.10. The motor rating for all the equipment shall have a minimum margin of 25% over the BkW. The above requirement is as per the Tender.
2.	On the other hand as per the tender, guarantee capacity for commissioning shall be the rated capacity	System Performance Requirement, shall be as per VOLUME – III, Part –B , SECTION: D8, PAGE 16 OF 25 , Cl. 4.1.3 & 4.1.14. guarantee capacity shall be the rated capacity
3.	The general criteria for designing the equipment is ~15% more than the rated capacity. Kindly clarify, which guaranteed capacity should we consider for selecting the equipment. Please note, the above difference in rated and design capacity shall have substantial difference in size and price of the equipment, which is actually not required.	as per the Tender and mentioned in above S.No.1
4.	Is the Grizzly Screen before Rotary Breaker shall be a fixed type or Vibrating type? What is the size considered by you?	Grizzly Screen before Rotary Breaker shall be a fixed type. No motor. envisaged. VOLUME – III, Part –B , SECTION: D8, DATA SHEET, PAGE 9 OF 37 , Screens to separate (-) 200mm
5.	Shall the Vibrating Screen have a Grizzly bar separation?	VOLUME – III, Part –B , SECTION: D8, DATA SHEET, PAGE 11 OF 37 , SCREENS, CL. 1.0 , Vibrating screens feeder with oil filled vibrating tube arrangement / TURFLO
	Electrical:	
6.	SYSTEM FAULT LEVEL SHALL BE - 50kA OR 65kA FOR THE	System fault level is 50kA for 1s for 415V LV system

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	LT(415V) SYSTEM	
7.	CONTROL SUPPLY VOLTAGE SHALL BE - 230V OR 110V AC/DC	Can be furnished during detail engineering
8.	POSSIBLE CABLE ROUTE TO BE MENTIONED	Can be furnished during detail engineering
9.	LOCATION OF MCC PANEL FROM WHERE THE SUPPLY FOR ROTARY BREAKER, RING GRANULATOR, AND SCREEN ARE CONSIDERED TO BE FURNISHED.	These drives are fed from 6.6kV CHP SWBD-1 located in MCC room near SCH-1
10.	SIZE OF CABLE SUPPLIED BY BHEL TO BE FURNISHED	6.6KV HT cable shall be 3C x 185 sq.mm.
11.	SPECIFICATION OF DIFFERENT ELECTRICAL EQUIPMENT LIKE CABLE,CABLE TRAY, LPBS, MOTOR, VFD, EARTHING SYSTEM, VMS, RTD,CONTROL JB,POWER JB	Refer Vol.IV of the RRVUNL specification for details of electrical equipment. Kindly revert if any specific clarification is sought.
12.	WHETHER TEMP TRANSMITTER OR TEMP SCANNER TO BE CONSIDERED FOR THE RTD INPUT	SMART Temperature transmitters shall be provided for all the Thermocouples /RTDs except for bearing and winding RTDs. Direct wiring of RTD/Thermocouples to DCS or PLC is not preferred. (Except for Winding and bearing temperature sensors).
13.	DI/DO CABLE - SCREENED/CORE CABLE TO BE CONSIDERED, ALSO CONFIRMATION REQUIRED -SEPARATE CABLE REQD. OR NOT FOR DI/DO	DI/Do Cable-Screened cable to be considered,seperate cable is required for DI/DO.
14.	TYPE OF RTD CABLE TO BE CONSIDERED	Triplex cables similar to instrumentation cables can be used for RTDs.
15.	STANDARD CONTROL CABLE SIZE TO BE MENTIONED (NO. OF CORE & SIZE OF CABLE)	Refer Sec. D16 of VOL-IV of RRVUNL specification.
16.	STANDARD POWER CABLE SIZE TO BE MENTIONED.	Refer Sec. D16 of VOL-IV of RRVUNL specification. ISG is proposing 3C x 185 sq.mm. cable for 6.6 kV system.
17.	ELECTRICAL WRITE-UP TO BE SUBMITTED FROM MBE END OR NOT	Operational philosophy,Control logic diagrams and I/O list to be submitted for all the equipments supplied by vendor/Free issue by BHEL.
18.	TYPE OF LPBS - PB USED IN LPBS FOR DOL.	Refer Sec. D4 of VOL-IV of RRVUNL specification.
19.	BUILDING SIZE & HEIGHT IS REQUIRED FOR ESTIMATING THE EARTHING MATERIALS.	Can be furnished during detail engineering
20.	SCOPE OF THE ALL CONTROL CABLE S ARE IN BIDDER'S OR BHEL'S	Cabling between field instruments and LCS/JB is included in bidder's

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	SCOPE.	scope. Cabling includes supply of cable, cable trays, supports, glands, lugs, tags, ferrules, laying and termination up to JB. Cabling between Motor RTD and MCC/DCS is in BHEL scope.
21.	ALL ACCESSORIES FOR HT CABLE SUPPLIED BY BHEL ARE IN BIDDER'S OR BHEL'S SCOPE.	BHEL will terminate the HT cable with all accessories upto Motor terminals/Power JB(wherever required to be supplied by bidder).From PJB to equipment with all accessories by bidder.