

	TITLE : 2 X 660 MW ENNORE SEZ SUPERCRITICAL THERMAL POWER			SPECIFICATION NO.: PE-TS-412-164-A001			
	PROJECT			SECTION : III			
	TECHNICAL SPECIFICATION FOR EFFLUENT TREATMENT			SUB-SECTION:			
	PLANT			REV. NO. 00	DATE : 20.03.2017		
SCHEDULE OF PRE-BID CLARIFICATION							
All clarification from the Technical Specification shall be filled in by the BIDDER clause by clause in this format only.							
VOLUME	SECTION	CLAUSE NO.	PAGE NO.	SPECIFICATION REQUIREMENT	CLARIFICATION	REASONS FOR CLARIFICATION	BHEL REPLY
E-559420171. Technical Spec	SUB-SECTION IIA - GENERAL TECHNICAL REQUIREMENTS	11.04.00	177 of 403	Operation from RIO	We understand that individual sump pits shall be operated through RIO (Local Control Panel) and same shall be connected with main PLC of ETP through FO cable. Please confirm our understanding.		Sump located outside ETP area shall be control by RIO/ near by control system and same shall be linked with ETP DDCMIS system.
General	General			UPS Scope & Specs	Please clarify whether UPS are in bidder scope or not. If yes please provide technical details for the same.		Technical specification is clear.
General	General			PLC Technical details	Please provide technical architecture details for understanding operation of PLC+HMI system for estimation purpose.		Control of ETP is by DDCMIS (BHEL scope) hence PLC architecture is not required.
General	General			PLC + HMI System communication with DDCMIS / DCS.	We have excluded scope of communication between PLC and Purchaser DDCMIS / DCS.		Bidder to note that ETP shall be controlled from DDCMIS (BHEL scope) hence PLC is not applicable. Scope of cable has already been indicated in Electrical scope sheet.
General	General			PLC Specification	We have considered non redundant PLC with 10" HMI based control system. Channel density DI/DO-32 and AI/AO-8. Please note that 10% spares of total I/O counts. Request you to kindly review technical specification and approve the same for further estimation and clear understanding between bidder and BHEL.		Bidder to note that ETP shall be controlled from DDCMIS (BHEL scope) hence PLC is not applicable.
E-559420171. Technical Spec	General	13.3.6	195 OF 405	Piping of guard pond effluent trasfer pump delviery/CMB effluent transfer pump delivery	As per cl. No.13.3.6 the piping MOC specified is MS corrotac lining/MS pu coating inside/GRP/FRP. Hence we are considering the piping MOC as GRP.	In P&ID only MOC for piping mentioned is MS PU coated.	MOC of piping shall be MS PU coated as per P & ID.
General	General	P&ID			For Alum,lime & PE dosing the piping MOC is not mentioned hence we have considered the same as UPVC as the same mentioend for the gurard pond dosing system.	The MOC not spcified.	Technical specification is clear.
E-559420171. Technical Spec	SUB-SECTION IA - DATA SHEET	DATA SHEET - A & OTHER DATA SHEET (pg. no. 181)	141 of 403 & 181 of 403	TPI Capacity & MOC	As per datasheet A (pg. 141) the capacity of TPI separator is 40 m3/hr and MOC as MSEP but as per other datasheet in tender (pg.181) the capacity of TPI is 20 m3/hr and MOC as RCC. So please clarify the correct one to be considered.	Discrinecy in tender document.	Bidder to refer MOC in datasheet A page no. 141 of 403.
E-559420171. Technical Spec	SUB-SECTION IA - DATA SHEET & P&ID.	DATA SHEET - A & OTHER DATA SHEET (pg. no. 181)	141 of 403 , 181 of 403 & PID	Guard pond pump capacity	As per datasheet A (pg. 141) the capacity of gurad pond transfer pumps is 1000 m3/hr each but as per P&ID the capacity of these pumps mentioned as 1200 m3/hr. So please clarify the exact requirement.	Discrinecy in tender document.	Bidder to refer and adhere amendment 1 already released in which Guard pond effluent transfer pumps capacity is 1200 m3/ hr.
E-559420171. Technical Spec	SUB-SECTION IA - DATA SHEET & P&ID.	DATA SHEET - A	143 of 403 & PID	type of Sludge transfer pumps	As per datasheet A (pg. 141) the sludge trasfer pump type is vertical however as per P&ID it is vertical screw type. Please confirm exact type.	Discrinecy in tender document.	Sludge transfer pump for sludge pit shall be vertical type.
E-559420171. Technical Spec	SUB-SECTION IA - DATA SHEET & P&ID.	DATA SHEET - A	143 of 403	MOC of Sludge transfer pumps	As per datasheet MOC of pump is Duplex SS but no water to sudge pit is non sea water. Hence no need of duplex SS MOC. SS316 MOC is more than the requirment. Please confirm for same.		Bidder to follow tender specification.
POWER CONSUMPTION GUARANTEE			405 OF 405		As per the guarnteed power consumption format , the power consumption is mentioned for seawae treatment plant and duty factor of 0.5 also mentioend. But the present bid is for effluent treatment plant , so please clarify wheter the duty factor is applicable ?		In column no. 5 of GPC format "Power Consumption (KW) (For Complete sewage treatment plant)" shall be read as "Power Consumption (KW) (For Complete Effluent treatment plant)". Hence duty factor (0.5) is applicable for effluent treatment plant as indicated in column no. 6 in GPC format.

Note: Bidder to furnish all the pre bid in the above indicated pre bid clarification format only. General Pre bid clarification will not be considered.