BHARAT HEAVY ELECTRICALS LIMITED

PROJECT ENGINEERING MANAGEMENT

PROJECT : 4X270 MW BHADRADRI TPS DATE: - 19.08.2017
PACKAGE : EFFLUENT TREATMENT PLANT
TENDER ENQUIRY NO.: PE/PG/MG1/E-5669/2017 Dt. 04.08.2017.

Corrigendum-01

In reference to the above mentioned tender enquiry for EFFLUENT TREATMENT PLANT (ETP) package, there are following changes in tender enquiry:

1. Financial PQR is attached.
2. Reply of pre-bid queries is enclosed herewith.

All the other terms and conditions of the tender enquiry remain unchanged. All the bidders are requested to quote accordingly.

Bidders are requested to ensure submission of offer on or before due date.

Regards

GURU DAS 19/08/17
Dy. Mgr./ PG-BOP

	PRE - QUALIFYING REQUIREMENTS
ENQUIRY NO:	
PROJECT:	4 X 270 MW BHADRADRI TPS
PACKAGE:	EFFLUENT TREATMENT PLANT

CRITERIA FOR EVALUATION - FINANCIAL :

	Amount (in Rs.)
Average annual financial turnover during the last Three Financial Years should not be less than Rupees Three Crore Twenty Five Lakh(s) Only	Rs.3,25,00,000.00

Notes:-

a) The bidder has to submit financial accounts (audited, if applicable comprising of Audit report, Balance Sheet, Profit & Loss A/c Statement and Notes/Schedules pertaining to Turnover/Sales/Revenue), for last three years (or from the date of incorporation, whichever is less) as on tender due date to review the above criteria. In case the incorporation of vendor is less than 3 years, average annual financial turnover shall be calculated based on available information as below:-

i) If the accounts are available for <= 1 Financial Year, the Average Annual Turnover shall be calculated based on available information divided by 1 (One).

ii) If the accounts are available for >1 but < = 2 Financial Years, the Average Annual Turnover shall be calculated based on available information divided by 2 (Two).

iii) If the accounts are available for >2 but <= 3 Financial Years, the Average Annual Turnover shall be calculated based on available information divided by 3 (Three).

b) Foreign bidder is to submit a latest report from reputed third party business rating agency like Dun & Bradstreet, Credit reform etc. in addition to the documents mentioned at point (a) above for review of above criteria.

c) Other Income shall not be considered for arriving at Annual Turnover/Sales. For evaluation purpose, Turnover figure excluding taxes shall be considered.

d) For evaluation of foreign bidder, exchange rate (TT selling rate of SBI) as on scheduled date of tender opening (Part-I bid in case of two part bid) shall be considered.

PRE BID CLARIFICATION SCHEDULE

PROJECT:-4 X 270 MW BHADRADRI TPS

EFFLUENT TREATMENT PLANT

VOLUME	SECTION	CLAUSE NO.	PAGE NO.	SPECIFICATION REQUIREMENT	CLARIFICATION	REASONS FOR CLARIFICATION	BHEL REPLY
Technical Specification	ANNEXURE XIII	WATER ANALYSIS	Page 234 of 537	Only Raw Water & CT blow down analysis is provided in the tender document.	We request for DM plant regeneration effluent detail analysis report. We will also need individual flow m3/day of DM plant regeneration effluent & Cooling tower blowdown effluent.	The flow & effluent detail analysis is required to do combined effluent mass balance for Designing the UF& RO.	Bidder to refer page no. 12 of 537.
Technical Specification	SUB-SECTION IIA GENERAL TECHNICAL REQUIREMENTS (MECHANICAL)	3.12 LAMELLA CLARFIER / TUBE SETTLER	Page 294 of 537	point 3.11.22 says O&G at the inlet of Tube settler/Lamella clarifier is 50 ppm	We request you to reconfirm the same. Also there will be no emulsified O&G present in the feed effluent.	To Design the equipment's for guaranteed outlet value. Based on O&G value (Free & emulsified) we may have to put TPI or DAF instead of Lamella/Tube settler system.	Bidder to follow tender specification.
Technical Specification	ANNEXURE XII	INPUT DRAWINGS	Page 234 of 537	P& I DIAGRAM FOR EFFLUENT TREATMENT PLANT	Please reconfirm the capacity of Lamella/Tube settler feed pump as 10 m3/hr. and also the operation hours of each pump set transferring effluent to Common oily waste collection sump.	The inlet streams coming to common oily waste collection sump has much higher combined flow than 10 m3/hr. Both floor wash water transfer pump capacity are 100 m3/hr.	Bidder to follow tender specification.
Technical Specification	ANNEXURE XII	INPUT DRAWINGS	Page 234 of 537	P& I DIAGRAM FOR EFFLUENT TREATMENT PLANT	Please confirm that we have to add Sludge from clarifier II sludge sump to RO reject tank along with clarified water from lamella/ Tube settler.	Sludge from Clarifier II will have solids of approx. 1% to 2% sludge consistency.	Bidder to follow tender specification.
Technical Specification	ANNEXURE XII	INPUT DRAWINGS	Page 234 of 537	Layout DIAGRAM FOR EFFLUENT TREATMENT PLANT	Please confirm the ETP area allotted Dimensions. We understand it is 65m x 85 m.	Dimensions are not provided in drawing.	Bidder to refer space provided in plot plan included in tender specification.
Technical Specification	SUB-SECTION IIA GENERAL TECHNICAL REQUIREMENTS (MECHANICAL)	2.2 TREATMENT OF SIDE STREAM FILTRATION WASTE	Page 292 of 537	Sludge from ETP clarifier I sludge sump shall be transferred to RO reject sump.	Please confirm that we have to add Sludge from ETP clarifier I sludge sump to RO reject tank along with clarified water from lamella/ Tube settler.	As per Tender P&I drawing sludge from ETP clarifier I will be transferred to PT plant sludge sump.	Bidder to follow tender specification.
Technical Specification	SUB-SECTION IA SPECIFIC TECHNICAL REQUIREMENTS (MECHANICAL)	14.0 ADDITIONAL REQUIREMENT	Page 16 of 537	Any statutory requirement / clearance required for the package from government / local body shall be in bidder's scope.	All approvals/clearance required for the package is by client. Wipro will extend necessary support & provide technical documents required for the same.		Bidder to follow tender specification.
Technical Specification	Data sheet A	65.0 Pump capacity and head	Page 250 of 537	Heads of all vertical pump from 65.1 to 65.17 are to calculated as per requirement.	We request for Static difference between start and end point to calculated the Head loss between the pipes. Or request client to provide indicative pump heads for the same.	In PID Only distance in meter is provided but we also need static head also to calculate the pump discharge head and select the suitable pump	needs to calculated by bidder in line with tender specification requirement.
Technical Specification	ANNEXURE XII	INPUT DRAWINGS	Page 234 of 537		Distance from E2, E3 & E4 from ETP area is required to calculated subsequent pump head.	In PID only distance from individual point to common effluent header is shown as 30 m. But pump discharge head will be designed on total distance of each station from ETP area.	Total distance has already indicated from sump E1 to ETP.