



**OPEN TENDER ENQUIRY FOR VENTILATION SYSTEM FOR 1X 800 MW GSECL
WANAKBORI STPP UNIT 8**

Ref No. : PE/PG/WAN/E-5128/2015

Date: 19.01.2016

CORRIGENDUM/ ADDENDUM- 3

Tender Enquiry no.: PE/PG/WAN/E-5128/2015
Date: 18.12.2015,

Extended DUE DATE
23 Jan 2016
10:00 AM

Sir/Madam,

Please find attached the reply of Pre-Bid query asked by bidders along with this corrigendum.

All bidders are requested to visit BHEL websites www.bhel.com (Tender Notifications Section)
OR www.bhelpem.com (http://www.bhelpem.com/Tenders_Rev/NewTenders.aspx), all future
corrigendum, addendums, amendments, if any, for this tender shall be hosted only on above
websites

Thanking you,

Yours faithfully,
For and on behalf of BHEL


SHRI PRAKASH YADAV
(Sr.ENGINEER/Project Group-1-1)


Please reply to:


Shri Prakash Yadav-Sr.Engr. / Raeesul Azam, Asst. Engineer


PGI-I

Power Project Engineering Institute Building
HRD & ESI Complex Plot No. 25, Sector -16 A,
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Tel No. 0120-4213621/4368520

	1X800 MW WANAKBORI STPP VENTILATION SYSTEM PRE-BID CLARIFICATION SCHEDULE		SPECIFICATION NO:PE-TS-408-554-A001		
PRE-BID CLARIFICATION SCHEDULE					
S. NO.	SECTION/CLAUSE/PAGE NO.	STATEMENT OF THE REFERRED CLAUSE	CLARIFICATION REQUIRED	BHEL REPLY	
1	Clause No.3.1.1 of Section C1, Volume IIB; Clause No.8 General SI.No.22 & Clause No.5.02 of Customer Specification No.K9213R-EPC-SPC-001	800 MW continuous output Percentage make-up. Bidders shall guarantee 100% to 25%. The desired condition Ventilation System	We will not give any guarantee to maintain inside condition of the ventilated space since the capacity/ equipment has been designed and selected by you. We stand guarantee for our equipments as per the specification.	Bidder to note that complete engineering, design, manufacture, inspection & Testing, Painting, transportation, delivery to site, unloading storage & handling at site, erection & commissioning, carrying out acceptance tests at site, final painting and handing over to customer etc for the ventilation system is in vendor's scope. Detail engineering and design shall be done by the vendor. capacities shall be selected as per the same. However the minimum capacity requirement has been indicated. Hence bidder to quote accordingly.	
2	Clause No.4.2.2.2 of Section-C1, Volume-IIB & Clause No.3.01.04 (i) of Customer Specification No.K9213R-EPC-SPC-001	Each Air Washer Centrifugal fans. Double inlet Casing of AHU	Kindly confirm number of Centrifugal Fan for each Air Washer to be considered 1 x 100% or 2 x 50%.	Pl quote as per suggestive price format	
3	Clause No.5.1.2 of Section-C1, Volume-IIB of Customer Specification No.K9213R-EPC-SPC-001	Air washerfor it's control.	Should we consider DOL Starter for all Feeder for Air Washer & UAF in the LSCP? Since as per your Scope Matrix MCC will be provided by you for the above - Please confirm	Please note that there shall be DOL starter in MCC Panel.	
4			For detecting of RH in the Supply Air of Air Washer Unit humidistat shall be provided at the outlet of the Air Washer Fan for inter locking pump instead of keeping humidistat at the condition space. Since there is a group of Air Washer Unit will be combined for the different zone. Hence individual controlling for maintenance R/H cannot be possible - Kindly confirm your acceptance.	NOTED	
5	Clause No.8 General SI.No.24, Section-C1, Volume-IIB, Page No. 36 of 533	The guarantee tests technical specification.	Performance test for our supplied equipment shall be conducted immediate after commissioning of the Ventilation equipment irrespective of season and this will be once before handing over of the system/equipments. - Kindly confirm.	Bidder to follow specification	
6	SI.No.9 & SI.No.6 of Exclusion, Section-C1, Volume-IIB	Inserts of any support by vendor. Structure for running ... by the vendor	Normally you provide supporting structure in BC-Bay areas. Also apart from the outside A-Row of TG Building as indicated by you. Kindly provide the same supporting structure along with inserts for this project too.	ONLY BASIC STRUCTURE FOR DUCT SUPPORT FOR DUCTS RUNNING OUTSIDE THE BUILDING SHALL BE PROVIDED BY BHEL, HOWEVER OTHER ACCESSORIES REQUIRED TO SECURE THE DUCT SHALL BE PROVIDED BY THE BIDDER. FURTHER ALL DUCT SUPPORTS ALONG WITH ALL ACCESSORIES FOR DUCTS RUNNING INSIDE THE BUILDING ARE TO BE PROVIDED BY THE BIDDER.	

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7	General Condition & SCC under sl.no.3 & 4 of customer specification No.K9213R-EPC-SPC-001 (Page NO.71)		Kindly confirm the applicable commercial condition for this contract as mentioned under Section-C of General Condition or GCC Rev-06	All relevant documents enclosed with the NIT are to be referred. In case any contradiction/ambiguity is observed by bidder amongs any two documents, bidder to com out specifically and ask in prebid query.
8	Clause No.2.01.00, Volume-IIA, Section-IV, GTR, Page 43 of 533 (Responsibility FORdesign)	The contractor shallin the design work.	In order to cross check the design capacities of various system please provide us detail building drawing for all locations along with internal room heat load for this purpose.	ALL APPLICABLE DRAWINGS HAVE BEEN PROVIDED WITH THE SPECIFICATIONS. HEAT LOAD DATA SHALL BE PROVIDED DURING DETAIL ENGG
9	Field Welding Schedule under Annexure-II, Page 188 of 533 of your specification	ANNEXURE-II FIELD WEILDING SCHEDULE	Field welding schedule for piping and tank of Air Washer and UAF cannot be provided since these are not critical/high pressure item.	BIDDER TO FOLLOW SPECIFICATIONS
10	Clause No.8.1.00	Tender Stage document submission	Stage Inspection for bought out item cannot be entertained. The same shall be as per manufacturer QAP only.	BIDDER TO FOLLOW SPECIFICATIONS
11	Clause No.13.01.01 of Adendum No.1	Design calculaion ventilation equipment.	We will not submit any design calculation for sizing of ventilation equipment after award of order. The same would not be calculated by us during detail Engineering.	Bidder to note that complete engineering, design, manufacture, inspection & Testing, Painting, transportation, delivery to site, unloading storage & handling at site, erection & commissioning, carrying out acceptance tests at site, final painting and handing over to customer etc for the ventilation system is in vendor's scope. Detail engineering and design shall be done by the vendor. capacities shall be selected as per the same. However the minimum capacity requirement has been indicated. Hence bidder to quote accordingly.
12	Clause No.5.02.00	Inside Design Condition. The desired condition of ventilation system.	Basic capacity of the system have been designed done by you. Hence we stand no guarantee for maintaining inside condition of the ventilated areas as per specification. There are so many open space/rooms are existed in the TG Hall and other adjacent areas, maintaining of over pressure than the outside not possible. Hence pressurization of the TG Hall areas are not feasible.	Bidder to note that complete engineering, design, manufacture, inspection & Testing, Painting, transportation, delivery to site, unloading storage & handling at site, erection & commissioning, carrying out acceptance tests at site, final painting and handing over to customer etc for the ventilation system is in vendor's scope. Detail engineering and design shall be done by the vendor. capacities shall be selected as per the same. However the minimum capacity requirement has been indicated. Hence bidder to quote accordingly.
13	Clause No. 6.02.09	Impeller a) The blades of the Dynamically balanced. b) The Axial flow fan On fan/motor shaft.	Impeller of the Axial Flow Fans will be adjustable blade type as per our manufacturing standard. Hence single piece impeller cannot be provided.	BIDDER TO FOLLOW SPECIFICATIONS

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14	Clause No.6.02.11	Bearing Centrifugal fan shaft to facilitate maintenance	Life of the bearing of reputed make would be as per the manufacturer standard instead of 40000 hrs. as mentioned by you. We will not consider any type of transmitter/ temperature element in our offer. Since these are not shown in the Schemetric diagram of Air Washer & UAF in your specification	BIDDER TO FOLLOW SPECIFICATIONS
15	Referring to your List of Mandatory Spares Sl.No.10.2.2 of above List	Control valve Actuators	There is no motor operated control valve being included in our offer as per specification. Hence spare actuator with drive Sl.Nos.(10.2.2.1) valve positioner, (10.2.2.2) Positioner Transmitter, (10.2.2.3) Limit Switch, (10.2.2.4) Torque Switch, (10.2.2.5) Auxiliary Connector, (10.2.2.6) Motor, (10.2.2.7) Complete Seal Kit, (10.2.2.8) Complete "O" Ring set are not considered as Mandatory Spares in our offer.	BIDDER TO FOLLOW SPECIFICATIONS
16	Sl.No.11 of mandatory Spares	Fan Filter Units	There is no separated Fan Filter Unit other than wall mounted supply Air Axial Fan. We are not considering the same in our offer - Please confirm	BIDDER TO FOLLOW SPECIFICATIONS
17	Clause No.6.02.05 of Tender Specification	RPM pf the Axial Flow Fan	a)Speed restriction for the Axial Flow Fan having pressure 30 mm cannot be maintained due to low discharge of high pressure that we have to select the fan at 2900 rpm having dia 450 mm and less. Alternatively 1400 rpm of fan having dia 450 mm and above - Please confirm. b) Speed of the Monobloc Pump shall be 2900 rpm instead of 1500 rpm as mentioned in your specification under sl.no. 6.05.04 - Please confirm	BIDDER TO FOLLOW SPECIFICATIONS
18			We have to consider 8 Pole standard Motor (Sycronize speed 750 rpm) instead of energy efficient Motor for the Roof Exhauster having capacity of 15000 cmh at 15 mm sp. Since it is not readily available in the market. Kindly confirm your acceptance.	BIDDER TO FOLLOW SPECIFICATIONS
19	COMMERCIAL - TAXES & DUTIES		Kindly let you know the Building Construction Tax for site office is borne by you	Please refer clause no. 4.4 of GCC Rev 06 of General Commercial Terms & conditions page no. 4 of 22. "All taxes and duties other than Excise Duty, Sales Tax/ VAT, Service Tax shall be deemed to be included in the Ex-Works prices unless specified otherwise by the bidder in the price bid".

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20			GA of all buildings with fan location.-(Building name Attached)	Layout of Power house and ESP control room is attached in Technical specification. Drawing for other auxiliary building shall be provided during detail engineering.
21			Heat load of all building where pressurized VS (AWU,UAF) necessary like MCC, Switchgear rooms etc	Capacity of Air washer and UAF is already mentioned in technical specification. Heat load shall be provided during detail engineering.
22			Approved make list of VS system.(Fan, motor, Air filter. pump, etc)	Already attached in Technical specification
23			Details of electrical scope.	Already attached in Technical specification