



भारत हेवी इलेक्ट्रिकल्स लिमिटेड

(भारत सरकार का उपक्रम)

BHARAT HEAVY ELECTRICALS LIMITED

(A Govt. of India Undertaking)

TCN – 03

Ref: PSER:SCT:SDG-M1437:TCN-03

Date: 14-03-2013

Sub	Tender change notice (TCN) 03.	
Job	Design, engineering, manufacturing, supply, supervision for erection, site storage, commissioning, O&M, etc of Air Conditioning System for 2x500 MW units at Sagardighi STPP, WB.	
Ref	1.0	Tender no PSER:SCT:SDG-M1437:13
	2.0	BHEL's NIT, vide reference no PSER:SCT:SDG-M1437:3138, dated 12-02-2013.
	3.0	BHEL's TCN-01, vide reference no: PSER:SCT:SDG-M1437:TCN-01, dated 04-03-2013.
	4.0	BHEL's TCN-02, vide reference no: PSER:SCT:SDG-M1437:TCN-02, dated 12-03-2013.
	5.0	All other pertinent issues till date.

With reference to above, following points/ documents, relevant to tender, may please be noted and complied with while submitting offer

- 1.0 Clarification to bidder's query as per attached annexure-A.
- 2.0 Revised 'No deviation certificate' as per enclosed Annexure-2. Bidder shall submit no deviation certificate as per enclosed format only.
- 3.0 All other terms & conditions shall remain unchanged.

Thanking you,

Yours faithfully,
for BHARAT HEAVY ELECTRICALS LTD

ENGR (SCT)

Encl

- 1.0 As above.

पावर सेक्टर पूर्वी क्षेत्र (मुख्यालय)

POWER SECTOR EASTERN REGION, DJ-9/1, SECTOR-II, SALT LAKE CITY, KOLKATA - 700 091

फैक्स/Fax : (033) 23211960

फोन/Phone : बोर्ड/EPABX : 23211691, 23211798, 23211796

FORMAT FOR NO DEVIATION CERTIFICATE
(To be submitted in the bidder's letter head)

BHARAT HEAVY ELECTRICALS LIMITED,
 Power Sector - Eastern Region,
 Plot no 9/1, DJ Block, Sector – II, Salt Lake City,
Kolkata – 700 091

Sub	No Deviation Certificate.	
Job	Design, engineering, manufacturing, supply, supervision for erection, site storage, commissioning, O&M, etc of Air Conditioning System for 2x500 MW units at Sagardighi STPP, WB.	
Ref	1.0	Tender no PSER:SCT:SDG-M1437:13
	2.0	BHEL's NIT, vide reference no PSER:SCT:SDG-M1437:3138, dated 12-02-2013.
	3.0	BHEL's TCN-01, vide reference no: PSER:SCT:SDG-M1437:TCN-01, dated 04-03-2013.
	4.0	BHEL's TCN-02, vide reference no: PSER:SCT:SDG-M1437:TCN-02, dated 12-03-2013.
	5.0	BHEL's TCN-03, vide reference no: PSER:SCT:SDG-M1437:TCN-03, dated 14-03-2013.
	6.0	All other pertinent issues till date.

Dear Sirs,

With reference to above, this is to confirm that as per tender conditions, we have visited site before submission of our offer and noted the job content & site conditions etc. We also confirm that we have not changed/ modified the tender documents as appeared in the website/ issued by you and in case of such observance at any stage, it shall be treated as null and void.

We hereby confirm that we have not taken any deviation from tender clauses together with other references as enumerated in the above referred NIT. We hereby confirm our unqualified acceptance to all terms & conditions, unqualified compliance to technical specification, integrity pact (if applicable) and acceptance to reverse auctioning process.

In the event of observance of any deviation in any part of our offer at a later date whether implicit or explicit, the deviations shall stand null & void.

We confirm to have submitted offer in accordance with tender instructions and as per aforesaid references.

Thanking you,

Yours faithfully,

(Signature, date & seal of authorized
representative of the bidder)

पावर सेक्टर पूर्वी क्षेत्र (मुख्यालय)

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JOB	Design, engineering, manufacturing, supply, supervision for erection, site storage, commissioning, O&M, etc of Air Conditioning System for 2x500 MW units at Sagardighi STPP, WB.
TENDER NO	PSER:SCT:SDG-M1437:13

Sl. No.	Reference clause of tender document	Existing provision	Bidder's query	BHEL's clarification
1.0	VOLUME IIB & VOLUME IIIA			
1.1	1.7.10 & 1.7.11.1 & 5.05.01	Black steel pipe conforming to IS-1239, Part I heavy grade or IS-3589 (6 mm thick). The piping upto 100 mm Dia shall be galvanized steel and those above 100 mm black steel.	Please confirm whether we will follow IS-1239, Part I (MS Pipe) for the pipe upto 150 mm dia or we will consider piping upto 100 mm Dia shall be galvanized steel.	Follow Specifications.
1.2	1.6.5	3 T capacity chain pulley block with monorail arrangement shall be provided in the AC plant room.	We would request you to kindly delete the same from our scope.	Not in AC vendor scope.
1.3	1.7.16	1 X 100% fresh air fan with pre filter & fine filter in all AHU Rooms	We will consider the pre filter inside the prefilter section of the AHU (Clause no. 1.7.8) & Finefilter section at common discharge at the AHU's (Clause no. 1.7.9). Please confirm whether additionally pre filter & fine filter section is required in all AHU room for fresh air arrangement.	Follow Specifications. Pre filter & fine filter section is required in all AHU room for fresh air arrangement.
1.4	1.9.4.3 & 1.10.4.3	Gate Valve at suction and discharge side of the pump set.	We would request you to kindly accept the Butterfly Valve instead of Gate valve.	Follow Specifications.
1.5			Kindly confirm the external static pressure of the AHU, which is not mentioned in the tender specification.	Total Static pressure is provided. Bidder to estimate based on internal static pressure.

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1.6			Kindly confirm the Fan Outlet Velocity of the AHU, which is not mentioned in the tender specification.	During detail engineering.
1.7	1.14.1	Reciprocating compressor for Air Cooled Package / Split Type AC	We would request you to kindly accept Scroll compressor for Air Cooled Package / Split Type AC	Scroll compressor is also accepted.
1.8	1.15.1	180 GSM zinc coating for ducting sheet	We would request you to kindly accept 120 GSM zinc coating for ducting sheet	Follow Specifications.
1.9			We would request you to kindly provide us the I/O summary for system controlling, as it is not mentioned in the tender.	To be decided by bidder.
1.10	2.01.03 c)	39 mm thick al. foil faced nitrile rubber / XLPE insulation for chiller	We would request you to kindly accept the 25 mm thick black nitrile rubber insulation for chiller	Follow Specifications.
1.11	2.01.05	At least 26 mm thick al. foil faced nitrile rubber / XLPE insulation for chilled water drain piping.	We would request you to kindly accept the 25 mm thick black nitrile rubber / XLPE insulation for chilled water drain piping.	Follow Specifications.
1.12	2.01.10 & 2.01.11	The Expansion Tank & Make Up Water Tank shall be made from GI or FRP.	As per BOQ (Item No. 1.1.1.13 & 1.1.1.15), Expansion Tank & Make Up Water Tank shall be made from MS. Please confirm.	Follow BOQ.

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1.13	2.07.02	The smoke exhaust fan shall be designed to withstand a temperature of 400 ° C.	We would request you to kindly accept the fire rating of motor of 300 ° C for 2 hrs. In case, it is not accepted then confirm the time to withstand a temperature of 400 ° C.	Follow Specifications.
1.14	2.12.00	Power Cum Motor Control Center / Power Distribution Board	We assume that any Motor Control Center, Power Distribution Board, AHU / FAN / Pump starter panel, Local distribution board, Local push button station, Related Cabling / Earthing work is not in our scope as per the BOQ. Please confirm.	Refer specification (Scope split sheet for electrical - in electrical portion)
1.15	4.01.00	Roof over AC space exposed to sun will be provided with 50 mm thick expanded polystyrene or equivalent. Roof over AC spaces not exposed to sun will be provided with similar insulation of 25mm thickness.	We assume that any underdeck insulation is not in our scope as per the BOQ. Please confirm.	Not in AC vendor scope.
1.16	5.02.00	Refrigerating compressor shall be twin screw type.	We would request you to kindly accept the mono screw type compressor.	Follow Specifications.
1.17	5.06.03	The AHU filter efficiency shall be 95% down to 10 micron.	As per clause no. 2.02.06, Panel type dry HDPE filter having an efficiency of 90% down to 10 micron size particles shall be provided with each AHU. Please confirm.	Follow Specifications.

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1.18	5.06.06	The casing of AHU shall be of double skin type and shall be constructed of minimum 22 gauge GI sheets with Aluminum structure. The outer skin shall be powder coated.	As per clause no. 1.11.1, The casing of AHU shall be of double skin construction. Double skin sandwich panels (inside and outside) shall be fabricated using minimum 0.63 mm (24G) galvanised steel, with 25 mm thick polyurethane insulation of minimum 40 kg/m3 density. Please confirm.	Follow Clause 1.11.1.
1.19	5.06.08	Humidifying section and Heating equipment	Please confirm whether this two section will be provided on AHU or both Humidifying section and Heating equipment instilled in the AHU room.	In AHU Room. (Refer to cl 1.12 of section C)
1.20			Please confirm whether Air Cooled Package Unit & Split Unit mentioned in the BOQ(Item no. 1.1.2.1 & 1.1.2.2) are precision type.	Air Cooled Package Unit & Split Unit are not Precision type.
1.21			Please confirm whether Rotameter required for the system.	Refer to PID provided with the specifications.
1.22	Drawing No. PE-DG-373-100-M003 & PE-DG-373-553-A501		SWAS Room is not found in the drawing. Kindly confirm the grid in which the SWAS room is located.	Refer to Drg No M03 (Grid 11-13, BC Bay)
1.23	Drawing No. PE-DG-373-100-M003		Please confirm the location of plant room. IN this drawing two separate AC plant rooms are shown for Unit-3 & Unit-4. Kindly clarify.	Location is clear. (Plant room is between grid D and G outside C row).

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1.24	Drawing No. PE-DG-373- 100-M005 & PE-DG-373- 553-A501		Control Equipment Room is not found in the drawing of a lvl. Of 17.0 m. Kindly confirm the grid in which the Control Equipment Room is located.	It is same as EER
1.25	Drawing No. PE-DG-373- 100-M005 & PE-DG-373- 553-A501		EER room is located at 17.0 m lvl. as per drawing. But as per P & I diagram EER Room is located on 8.5 m lvl. Please confirm.	Refer reply to pt No 24.
1.26			ESP VFD Control Room drawing is not found in the VOLUME IIB. Please provide the same for our heat load calculation.	Refer to drawing No M001 and M002
1.27			We would like to inform you that there are so many contradiction (different types of parameters for the same items) in between the specification mentioned in the various portion of tender document (Volume IIB). Kindly confirm which specifications prevail over other / follow by us at the time of tendering.	Please indicate specific contradiction.
1.28			We would request you to kindly accept the following makes for this tender:-	
			1. Package AC - ETA	Follow Specifications.
			2. Air Handling Unit - ETA	
			3. Cooling Coil - ETA	
			4. Cooling Tower - Bell / Flowtech	
			5. Axial Flow Fan - Kruger / Nicotra / systemair	
			6. Balancing valve - C & R / Castle	
			7. Butterfly Valve - Advance / C & R / Castle	

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			8. Non Return Valve - Advance / C & R / Castle	
			9. Gate / Globe Valve - C & R	
			10. Strip Heater - Hitpro	
			11. Temperature Gauge & Pressure Gauge - KMH	
			12. Rotameter - Krohne Marshall	
			13. Pan Humidifier - Hitpro	
			14. 3 Way Mixing Valve with Actuator - Belimo / Anergy	
			15. Motorised Butterfly Valve with Actuator - Belimo	
			16. Air Terminal - Systemair (Ravistar) / Airmaster / Caryaire / Dynacraft / Alpha Duct	
2.0	VOLUME IA, IB, IC & ID			
2.1	5.1 of Volume IA		Please confirm whether our quoted basic price is inclusive of ED or not.	Refer Cl no. 29.1 of vol IC
2.2	5.4 & 7.0 of Volume IA	No. variation in customs duty / exchange rate for imported items shall be payable by BHEL.	We would request you to kindly accept the following:- "In case of variation in exchange rate/taxes/duties/work contract tax or if any new tax/duties levied the same shall be to BHEL account".	As per tender

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2.3	6.1 of Volume IA	The price shall remain firm, for any increase or decrease in order value upto +/- 30% BHEL shall have the right to increase / decrease quantity upto the above order value and tenderer shall be bound to accept the same at the same price without any escalation.	We would request you to kindly accept the following:- "Any upper or lower variation in quantity (Upto + 15%) will be adjusted as per our quoted unit rate. The total contract value can be subjected to a variation of - 15% to + 15%. In case any upper or lower variations (in terms of quantity / price) occur beyond the above mentioned limit, BHEL will give escalation / additional compensation for such variation".	As per tender.
2.4	11.0 of Volume IA		Kindly confirm the completion period of the project.	Refer completion periods mentioned in vol IC & Vol ID
2.5	12.2.1 of Volume IA	Recover from the contractor, as agreed liquidated damages a sum equivalent to half percent (1/2%) of the order /contract price for the delayed portion, excluding elements of taxes, duties freights etc., per week or part thereof subject to a maximum of ten percent (10%) of total order/contract price of the complete order if the contractor has failed to deliver any part of equipment /item within the period fixed for delivery of the same.	We would request you to waive-off the liquidated damage clause from this contract.	Refer CI no 38.0 of Vol-IC & CI no 20.0 of Vol- ID

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2.6	29.4.1 of Volume IC	In terms of notification of the Govt. of India in the Ministry of Finance (Department of Revenue) No 21/2002-Customs, dated 01-03-02 read together with No 49/2006-Customs, dated 26-05-06, the import of capital equipment would be free of Customs Duty for this project.	Please confirm whether any duty benefit (In terms of Import Duty / Excise Duty / CST / Entry Tax etc.) is applicable for this project.	As per benefits applicable for Mega power projects.
2.7	35.0 of Volume IC		We would request you to kindly incorporate the escalation clause in case the contract goes beyond the schedule completion period which is not attributable by us.	As per tender
2.8			We would request you kindly provide us the Construction power & water free of cost at site.	As per tender
2.9	8.0 of Volume IA & 33.0 of Volume IC	Terms of Payment	We would like to highlight that payment terms mentioned in clause 8.0 of Volume IA & clause 33.0 of Volume IC are different. Kindly confirm the exact payment terms of this contract.	Refer CI no 33.0 of Vol-IC & CI no 15.0 of Vol- ID
3.0	General			
3.1	Bidder shall submit offer strictly in compliance with technical specification and tender terms along with amendment/ clarifications issued till date within the due date.			
3.2	All other terms & conditions shall remain unchanged.			

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