



भारत हेवी इलेक्ट्रिकल्स लिमिटेड

(भारत सरकार का उपक्रम)

BHARAT HEAVY ELECTRICALS LIMITED

(A Govt. of India Undertaking)

TCN - 03

Ref: PSER:SCT:BRM-M1330:TCN-03

Date: 05/05/2012

Sub	Tender change notice (TCN) 03	
Job	Design, engineering, manufacturing, supply/ delivery, storage & handling, erection, commissioning, trial run, handing over to customer, Operation & maintenance (O&M) etc of Ventilation System for 2x250 MW Barauni Extension project unit # 8 & 9 at BEGUSARAI, BIHAR.	
Ref	1.0	Tender no PSER:SCT:BRM-M1330:12
	2.0	BHEL's NIT, vide ref no PSER:SCT:BRM-M1330:12 Dated 30/03/2012
	3.0	BHEL's TCN-01, vide ref no PSER:SCT:BRM-M1330:TCN-01 Dated 26/04/2012
	4.0	BHEL's TCN-02, vide ref no PSER:SCT:BRM-M1330:TCN-02 Dated 02/05/2012
	5.0	Other references (if any).

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

- 1.0 Clarification to bidders query as per Annexure-A to TCN-03.
- 2.0 Revised 'No deviation certificate' is attached. Bidder to submit 'No deviation certificate' as per attached 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 Clarification to bidders query as per Annexure-A to TCN-03.
- 2.0 Revised 'No deviation certificate' format.

पावर सेक्टर पूर्वी क्षेत्र (मुख्यालय)

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

फैक्स/Fax : (033) 23211960

फोन/Phone : बोर्ड/EPABX : 23211798/ 1691

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/ delivery, storage & handling, erection, commissioning, trial run, handing over to customer, Operation & maintenance (O&M) etc of Ventilation System for 2x250 MW Barauni Extension project unit # 8 & 9 at BEGUSARAI, BIHAR.	
Ref	1.0	Tender no PSER:SCT:BRM-M1330:12
	2.0	BHEL's NIT, vide ref no PSER:SCT:BRM-M1330:12 Dated 06/04/2012
	3.0	BHEL's TCN-01 , vide ref no PSER:SCT:BRM-M1330:TCN-01 Dated 26/04//2012.
	4.0	BHEL's TCN-02 , vide ref no PSER:SCT:BRM-M1330:TCN-01 Dated 02/05/2012.
	5.0	BHEL's TCN-03 , vide ref no PSER:SCT:BRM-M1330:TCN-01 Dated 05/05/2012.
	6.0	Other references (if any).

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)
POWER SECTOR EASTERN REGION, DJ-9/1, SALT LAKE CITY, KOLKATA - 700 091
फैक्स/Fax : (033) 23211960 फोन/Phone : बोर्ड/EPABX : 23211798/ 1691

ANNEXURE-A to TCN-03

Job	Design, engineering, manufacturing, supply/ delivery, storage & handling, erection, commissioning, trial run, handing over to customer, Operation & maintenance (O&M) etc of Ventilation System for 2x250 MW Barauni Extension project unit # 8 & 9 at BEGUSARAI, BIHAR.
Tender no	PSER: SCT:BRM-M1330:12

Sl no	Bidder's query	BHEL's clarification
01	Inside equipment heat load of the respective rooms enabling us to check the capacity of air, you have furnished within the tender.	Capacity of main equipments like Air washers and UAFs are final and capacity calculated taking care of heat dissipation and air change at our end. Bidder to comply Technical specification
02	Cl. 6.1.5 of Volume IIB : Flow regulation valve shall be manual type	Bidder to comply the Technical specification.
03	There are a confusion about the grade of the G.I sheet for ducting in this project. For timely availability of the same, please confirm the duct sheet of 120 grade as per IS 277.	Bidder to comply the Technical specification.
04	Supply air grill shall be as follows as per Data sheet - A , Section - D, Volume - IIB :- - Grill frame : 18G G.I of 120 grade as per IS 277) - Louver : 20G M.S with synthetic enamel painting - Type of louver : Double deflection	Bidder to comply the Technical specification.
05	Please confirm that the insulation work shall be as per the clause no, 6.6.2.1 of Volume - IIB of tender . Also confirm that no 24G Aluminium cladding shall be applicable as per the clause no., 6.6.2 of Volume - IIB of the tender. Only sand cement plaster shall be applied on the duct. In brief the Thermal insulation shall be of 25mm thick resin bonded fibre glass wool of density 32kg/m3. After that all the	Bidder to comply the Technical specification.

ANNEXURE-A to TCN-03

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Tender no	PSER: SCT:BRM-M1330:12

	application shall be as per the Cl. No. 6.6.2.1	
06	Efficiency and Face velocity of the Pre - filter shall be :- - 1.75m/sec & 90% down to 20micron as per Cl. 6.1.4 - 2.5m/sec as per 9.5.10 - 65-80% when tested with BS : 6540/ASHRAE - 52-56	Efficiency of filters shall be as per Technical specification.
07	Motorised type valves are required at the delivery of the each pumps as per the Clause no. 10.1.14	Bidder to comply the Technical specification.
08	Please confirm whether Mandatory spares are required. If yes, please provide the list.(Point 1.0 C of "Equipment and services provided by Bidder")	Mandatory spare is not applicable for this project.
09	Make list shall be as per Annexure - I of your tender (Page 1 of 2 and 2of 2). Final selection of the vendors from the above list shall be solely done by Blue Star only. Further any comments on the said make list from BHEL/BHEL's client / Consultant/any agency after the submission of Bid shall not be acceptable.	Bidder to comply the Technical specification.
10	Kindly provide the list of make for electrical items, Motorised dampers (if required).	Please refer the list of make under annexure-I and Electrical specification of section-C.
11	Kindly confirm which of the followings material specification of Air Washer should be considered :- - Section - D , Data sheet - A of the Air washer : But here no	Bidder to note that in case of conflict between 2 clauses in section-C and section-D, section-C prevails over section-D. Bidder to furnish their offer accordingly

ANNEXURE-A to TCN-03

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	<p>thickness of the M.S part is mentioned.</p> <p>- Clause no. 6.1.3 of volume IIB Section C .</p> <p>At the above two clause nos, two different types of specification have Furnished in your tender enquiry.</p>	
12	Air intake louver and filter of the Air Washer shall be mounted on the Wall opening of the masonry wall of the plant room which shall be provided by BHEL.	Bidder to note that Containerized type Air washer is applicable for this project to be placed in open and no room required for this. Bidder to comply the Technical specification.
13	For Centrifugal fans the material of construction shall be as per Data sheet - A of Section - D. We should not follow the material of construction furnished at Clause no 9.1 of Section - C of Volume - IIB.	Please refer the reply at S. No. 11
14	Outlet damper of the Centrifugal fans shall be Multilouver and manual type.	Bidder to comply the Technical specification.
15	Please confirm that whether the Air Washer tank shall be insulated.	As per Technical specification.
16	Please confirm the Density of 25mm thick PUF insulation at the casing of the Air washer.	As per Technical specification.
17	Air Washer tank shall be of Epoxy painted as per clause no. 6.1.3 of Section - C, Volume - IIB.	Bidder to comply the Technical specification.
18	Spray nozzle of the air washer shall be as per the clause no.	Please refer the reply at S. No. 11

ANNEXURE-A to TCN-03

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	6.1.5 of section - C of Volume - IIB. It should not be HDP as given in clause no 3.5.1 of section - D, Vol - IIB.	
19	Please confirm that the material thickness of fan shall be as per Data sheet - A of section - D. Material of construction mentioned in Clause no: 9.1 of Section - C, Vol - IIB shall not be applicable.	Please refer the reply at S. No. 11
20	Material of construction of Roof extractor shall be as per Data sheet - A of Section -D, Vol - IIB . Clause no. 9.2 of Section - C of Vol - IIB shall not be applicable	Please refer the reply at S. No. 11
21	Duct fabrication shall be as per IS - 655 only. If there is any conflict between IS-655 and other clauses, written elsewhere within the Tender specification, IS - 655 shall prevail and govern.	Please refer the reply at S. No. 11
22	Kindly confirm that the packing of the Pump shall be of Gland Packing as per Clause no. 9.9.8 of Section - C , Vol-IIB.	As per Technical specification.
23	Kindly confirm that the Fire Dampers shall be of Motorised type with Spring Return mechanism. The Fire ratings shall be 90 minutes and material of construction shall be as per the manufacturer's standard.	Bidder to comply the Technical specification.
24	Which of the following specification for filter should we follow	Please refer the reply at S. No. 11

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Tender no	PSER: SCT:BRM-M1330:12

	for Air washer and dry type Supply air system :- I) Clause no. 6.1.4, Section - C, Volume - IIB II) Data sheet - A , Section - D.	
25	Clause No : 7.2.3 of Section - C , where in you have mention Air Washer / UAF to be controlled from local starter cum control panel, but in the Clause No : 7.2.1 you have mentioned Air washer / UAF shall have one no. LCP only in each unit.	Please note that as per both clause, LCP shall be provided for each Air washer/UAF. Starter for Air Washer/UAF fans and pumps will be taken care by BHEL in BHEL's MCC panel.
26	Clause No : 6.1.3 of section –C –VOL –II B (Page No : 05 of 15) – MOC of A/W casing mentioned Double skin GI panel whereas in your data sheet – A (Vol – II B) – Sec – D, S.I. No : 15 , MOC of A /W casing mentioned Black M.S (10 SWG)	Bidder to note that in case of conflict between 2 clauses in section-C and section-D, section-C prevails over section-D. bidder to furnish their offer accordingly
27	Clause No : 9.1.4 of section – C - VOL –II B (Page No : 10 of 15) – Impeller Hub of Centrifugal fan mentioned Cast AL Alloy (LM - 6),Whether M.S. fabricated impeller hub is acceptable to you please confirm.	Shall be in line with BHEL past excuted projects.
28	Guaranteed power given within your tender enquiry (ie.500KW) is not matching with our calculated guaranteed power consumption which comes to 613kw. Kindly amend the above Guaranteed power consumption figure within your tender enquiry.	Bidder to comply the Technical specification