



भारत हेवी इलेक्ट्रिकल्स लिमिटेड

(भारत सरकार का उपक्रम)

BHARAT HEAVY ELECTRICALS LIMITED

(A Govt. of India Undertaking)

TCN – 03

Ref: PSER:SCT: SDG-M1335:TCN-03

Date: 23-05-2012

Sub	Tender change notice (TCN) 02	
Job	Design, engineering, manufacturing, supply, erection, commissioning etc of Fire Protection System for 2x500 MW units (Unit#3&4) at Sagardighi STPP, WB.	
Ref	1.0	Tender no PSER:SCT:SDG-M1335:12
	2.0	BHEL's NIT, vide reference no PSER:SCT:SDG-M1335:2792, dated 16-04-2012.
	3.0	BHEL's TCN-01, vide reference no PSER:SCT:SDG-M1335:TCN-01, dated 05-05-2012.
	4.0	BHEL's TCN-02, vide reference no PSER:SCT:SDG-M1335:TCN-02, dated 15-05-2012.
	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 Extension of due date of submission of offer from **24-05-2012** to **30-05-2012 (15-00 hrs)**.
- 2.0 Clarification to Bidder's queries as per enclosed Annexure-A.
- 3.0 Revised 'No deviation certificate' as per enclosed Annexure-2. Bidder shall submit no deviation certificate as per enclosed format only.
- 4.0 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

Sl. No	Bidder's queries	BHEL Reply /Comments
1.0	In Plot Plan Drawing No.: PE-DG-373-100-M001 as per Note No. 4 "Central Control Room is shifted from Service Building to Control Tower Area". Please clarify and indicate the location of Control Tower Area.	Bidder to refer drawing No. PE-DG-373-100-M005 and PE-DG-373-145-I401.
2.0	In Volume-II B, Section C.2 "Specific Technical Requirements (Mechanical)" under HVWS System Clause: 3.01.02 in a) & b) it is stated that the operation of Deluge Valve shall be annunciated in "Central Fire Detection and Alarm Panel located at Central Control Room in Technical Building and Master FAP in the Fire Station Building". Please indicate the following:-	
2.1	Location of "Technical Building" alongwith Plan and Elevation Drawing of the same.	Technical building is not applicable. Central Control Room is at Control Tower. Refer Reply at S.No. 1 above.
2.2	Location of "Fire Station Building" alongwith Plan and Elevation Drawing of the same.	Fire station building is existing at Phase I. Plan and elevation drawings shall be furnished during detailed engineering.
3.0	Please send us Ref. Drawing No. PE-DG-373-522-A413 of Fire Water Pump as indicated in your Drawing No. PE-DG-373-165-N004 "MECHANICAL GA OF CW/ACW AND F/W PUMPHOUSE".	Drawing No PE-DG-373-522-A413 shall be prepared during detailed engineering.
4.0	The type of fire water pumps indicated in Cl. No. 5.01.00 - Mechanical a) & b) as Vertical Centrifugal, whereas in DATASHEET : M1 Design Standard mentioned as IS:5120 and Range of Operation is IS:1710. Please confirm whether the pumps shall be Vertical Turbine type or Horizontal Centrifugal or Vertical Centrifugal (Sump Pump). We understand Booster Pumps shall be horizontal centrifugal type.	Pumps shall be vertical turbine type. Booster pumps, if applicable, shall be horizontal type.

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5.0	Please send the OGA of the following Transformers :-	
5.1	3 x 1 ph. 200 MVA – Generator Transformers.	BHEL reply for S.No. 5 & 6: Reference drawings have already been made available to bidder.
5.2	80/40/40 MVA – Station Transformers.	
5.3	20/25 MVA – Unit Transformers.	
5.4	12/16 MVA – Unit Aux. Power Transformers.	
5.5	12/16 MVA – Station Aux. Transformers.	
6.0	Also for MVWS System please send the Cable Tray Arrangement in following area :	
6.1	Cable Vault and Cable Spreader Room in Unit 3 & 4.	
6.2	Cable Vault and Cable Spreader Room of CHP, ESP, AHP, Technical Building, CHP Control Room, Ash Water Pump House / Compressor House, CW Pump House.	
7.0	Would request you to provide the plot plan along with other drawings in AUTOCAD format as certain details required for working are not legible in PDF format. AUTOCAD format of plot plan is required as we have to freeze our piping layout for the hydrant and spray system.	Reply against bidder clarifications: Same set of drawings had been made available to all the bidders. Drawings in Auto-Cad format can't be provided now
8.0	We refer to Technical Specification Vol. II B, Section C.2, Clause No. 4.04.03, Sr. No. (b), and note that Local Satellite Fire Alarm Panels are specified for DM Plant, Ash Handling Plant, Technical Building, CW/ACW/FW Pump House, Unit Control Equipment Room, ESP Control Room, ASP Control Room, CHP Control Room. We wish to clarify that the proposed Fire Detection & Alarm System is Microprocessor based, Addressable Type. Nos. of Satellite Fire Alarm Panels as asked for the above areas may not be required. Hence we request you to Please review and reconfirm your requirement.	Shall be as per technical specification only
9.0	We refer to Technical Specification Vol. II B, Section C.2, Clause No. 3.01.02, Note:2 and note that Linear Heat Sensing Cable for detection of fire in Cable Spreader Room shall be laid on each tray. However, we wish to clarify that LHS Cable in Cable Spreader Room are laid on alternate trays as per TAC guidelines. Please review and reconfirm your requirement.	Shall be as per technical specification only

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Sl. No	Bidder's queries	BHEL Reply /Comments
10.0	We refer to Technical Specification Vol. II B, Section C.2, Clause No. 5.01.00, Sr. No. (y) and note that Gas Sensing Detectors have been specified for all control rooms. As per normal practice followed for Control Rooms in Power Plant, Smoke and/or Heat Detector are provided. Please review and reconfirm your requirement. We request you to please classify the various control rooms and their location to be provided by Fire Detection System.	GAS sensing detectors shall be provided at Central Control Room, Control Equipment Room, ESP Control Room, CHP Control Room, Ahp Control Room, CWPH Control Room and other control rooms. For locations and details bidder to refer tender drawings.
11.0	We refer to Technical Specification Vol. II B, Section C.2, Clause No. 5.04.00, Sr. No. (h) and noted that Fire Survival Cables shall be provided for vital services and complete fire detection system. Please clarify the services/areas to be provided by Fire Survival Cables.	Referred clause itself clarifies the services/areas for fire survival cables.
12.0	We refer to Technical Specification Vol. II B, Section C.1, Clause No. 1.1.0, Sr. No. 17 and noted that there shall be no commercial implication shall be allowed due to change in dimension of equipments/areas and change in quantities in equipments/areas covered by different fire protection facilities, this does not seem to be in right spirit to offer our most competitive prices. Please review and confirm that all variations due to change in requirement beyond the scope of work precisely defined shall be payable as per the Break-up Unit Rates of the Lump sum Prices quoted.	Bidder to comply technical specification
13.0	We refer to Technical Specification Vol. II B, Section C.1, Clause No. 1.1.0, Sr. No. 3 and noted that HT Motors shall be provided for Hydrant & Spray Pumps. Whether on the subject we wish to mention that as per Technical Specification Vol. II B, Section C.3, Annexure - A, Sr. No. 2, we noted that Motors above 200 W to 200 KW shall be L.T. Type. We wish to mention that motor rating will be maximum 200 KW, Hence we request you to confirm that LT Motor for the above pumps will be acceptable.	Shall be as per technical specification only.

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Sl. No	Bidder's queries	BHEL Reply /Comments
14.0	<p>We refer to Technical Specification Vol. II B, Section C.2, Clause No. 3.01.01 and Plot Plan Drawing No. PE-DG-373-100-M001, we wish to mention that as per the Technical Specification the following areas as mentioned below are to be provided with Hydrant / Landing Valve System:-</p> <ul style="list-style-type: none"> a.) Chemical House b.) Sludge Pump House c.) ETP Area d.) WTP Area e.) Clarified Water Pump House f.) Open Storage Yard <p>Please furnish us the drawing clearly showing location/ sizes/ cross-sectional drawing of such areas.</p>	Bidder to refer the tender drawings.
15.0	<p>We refer to Technical Specification Vol. II B, Section C.2, Clause No. 3.01.03, Sr. (C.), and noted that MVW Spray System for Cable Vaults in Technical Building is to be provided. Please furnish us the Cross-sectional drawing and Floor Plan Layouts of Technical Building, clearly showing the Cable Vaults/ Cable Spreader Room.</p>	Technical building is not applicable.
16.0	<p>We refer to Technical Specification Vol. II B, Section C.2, Clause No. 3.01.05, and noted that Inert Gas Flooding System shall be provided for Control Equipment Room and Central Control Room.</p> <p>Further, we refer to TG Building Equipment Plan at 17.0 M (Drawing No. PE-DG-373-100-M005) and Drawing No. PE-DG-373-145-I401, we wish to clarify that the dimensions of Control Equipment Room for Unit # 3 & 4 and Central Control Room for Unit # 3 & 4 is not clear.</p> <p>Please furnish us the clear dimensions for Control Equipment Room for Unit # 3 & 4 and Central Control Room for Unit # 3 & 4 to enable us calculate the volume of Inert Gas required.</p>	Same set of drawings had been made available. Bidders to refer the tender drawings.

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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, erection, commissioning etc of Fire Protection System for 2x500 MW units (Unit#3&4) at Sagardighi STPP, WB.	
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	4.0	BHEL's TCN-02, vide reference no PSER:SCT:SDG-M1335:TCN-02, dated 15-05-2012.
	5.0	BHEL's TCN-03, vide reference no PSER:SCT:SDG-M1335:TCN-03, dated 23-05-2012
	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)