



भारत हेवी इलेक्ट्रिकल्स लिमिटेड

(भारत सरकार का उपक्रम)

**BHARAT HEAVY ELECTRICALS LIMITED**

(A Govt. of India Undertaking)

**TCN - 06**

Ref: PSER:SCT: SRG-M1650:TCN-06

Date: 23-03-2015

Sub	Tender change notice (TCN) 06	
Job	Design, engineering, supply, erection & commissioning of 'Effluent Treatment Plant' Pkg. for RRVUNL, 2x660 MW, Stage-V, Unit # 7 & 8 Suratgarh Super Critical TPS, Rajasthan.	
Ref	1.0	Tender No. PSER:SCT:SRG-M1650:15
	2.0	BHEL's NIT, vide reference no PSER:SCT:SRG- M1650:4209 Date: 13-02-2015
	3.0	BHEL's TCN-01 vide ref PSER:SCT: SRG-M1650:TCN-01 dated 26/02/15
	4.0	BHEL's TCN -02 vide ref PSER:SCT:SRG-M1650:TCN-02 dated 4/03/15
	5.0	BHEL's TCN-03 vide ref PSER:SCT: SRG-M1650:TCN-03 dated 16-03-2015
	6.0	BHEL's TCN-04 vide ref PSER:SCT: SRG-M1650:TCN-04 dated 18-03-2015
	7.0	BHEL'S TCN 05 vide ref PSER:SCT: SRG-M1650:TCN-05 dated 19-03-2015
	8.0	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 Due date of offer submission is extended from **23-03-2015 to 30-03-2015** (15:00 Hrs). Bidders are requested to submit their offer by extended due date positively.
- 2.0 Clarifications to bidder's queries attached at 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 HYEAVY ELECTRICALS LTD

Dy Mgr (SCT)

Encl : 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, supply, erection & commissioning of 'Effluent Treatment Plant' Pkg. for RRVUNL, 2x660 MW, Stage-V, Unit # 7 & 8 Suratgarh Super Critical TPS, Rajasthan.	
Ref	1.0	Tender No. PSER:SCT:SRG-M1650:15
	2.0	BHEL's NIT, vide reference no PSER:SCT:SRG- M1650:4209 Date: 13-02-2015
	3.0	BHEL's TCN-01, vide reference PSER:SCT: SRG-M1650:TCN-01, dated 26-02-15
	4.0	BHEL's TCN-02, vide reference PSER:SCT: SRG-M1650:TCN-02, dated 4-03-15
	5.0	BHEL's TCN-03, vide reference PSER:SCT: SRG-M1650:TCN-03, dated 16-03-15
	6.0	BHEL's TCN-04, vide reference PSER:SCT: SRG-M1650:TCN-04, dated 18-03-15
	7.0	BHEL's TCN-05, vide reference PSER:SCT: SRG-M1650:TCN-05, dated 19-03-15
	8.0	BHEL's TCN-06, vide reference PSER:SCT: SRG-M1650:TCN-06, dated 23-03-15
	9.0	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)

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

फैक्स/Fax : (033) 23211960

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**Design, engineering, supply, erection & commissioning of 'Effluent Treatment Plant' Pkg.  
for RRVUNL, 2x660 MW, Stage-V, Unit # 7 & 8 Suratgarh Super Critical TPS, Rajasthan.**

**TENDER No: PSER:SCT:SRG-M1650:15**

**ANNEXURE-A to TCN-06**

S No	Ref. Clause of Tender Document	Existing Provision	Bidder's Query	BHEL's Clarification
1	Clause no. 12, Page no. 24 of 339 of Technical Specification	Vertical Centrifugal pump with Impeller – semi open. Pumps shall be able to handle a particle size of 20 mm. Cap : 5 m3/hr, 10 m3/hr, 20 m3/hr and 30 m3/hr (each) Head as per system requirement Speed shall be 1500 rpm and below	<p>PI refer Clause no. 12, Page no. 24 of 339 of Technical Specification Stating: "Vertical Centrifugal pump with Impeller – semi open. Pumps shall be able to handle a particle size of 20 mm. Cap : 5 m3/hr, 10 m3/hr, 20 m3/hr and 30 m3/hr (each) Head as per system requirement Speed shall be 1500 rpm and below."</p> <p>Observation/clarification required : Considering line size and line length as mentioned in Clause no 4, page no. 16 of 339; with 20 mm particle size and speed of 1500 rpm, the calculated head seems to be very high with low rated flow rate for vertical centrifugal pumps.</p> <p>None of the manufacturer as per the preferred make list of the tender specification are able to supply the vertical centrifugal pumps with low capacity and high head.</p> <p>Danieli proposes to reduce the water velocity further to reduce the friction loss and rated Head. The discharge velocity to be considered as 1 - 1.7 m/s considering the quality of water. Subsequently, all the line sizing to be done considering the same.</p>	<p>The line Sizes for following Effluent Transfer pumps are revised.</p> <p>1) The line size for TG Hall waste water transfer pump from sump 1 and Sump 2 to Common collection sump (ETP AREA) is changed from 65 NB to 80 NB.</p> <p>2) The line size for Boiler area waste water transfer pumps from sump 1 and Sump 2 to Common collection sump (ETP AREA) is changed from 65 NB to 80 NB.</p> <p>3) The line size for Transformer yard fire water transfer pump from sump 1 and Sump 2 to Oily water collection (ETP Area) is changed from 50 NB to 65 NB.</p>