



भारत हेवी इलेक्ट्रिकल्स लिमिटेड

(भारत सरकार का उपक्रम)

BHARAT HEAVY ELECTRICALS LIMITED

(A Govt. of India Undertaking)

TCN - 01

Ref: PSER:SCT:NKP-M1739:TCN-01

Date: 23-04-2016

Sub	Tender Change Notice (TCN) - 01.	
Job	Design, Engineering, Manufacturing, Supply/Delivery, Erection, Commissioning, Trial Run, Handing Over to Customer etc of DEMINERALIZATION PLANT (DM PLANT) excluding civil construction work for 3X 660 MW North Karanpura Super Thermal Power Project at Jharkhand.	
Ref	1.0	Tender no PSER:SCT:NKP-M1739:16.
	2.0	BHEL's NIT, vide reference no PSER:SCT:NKP-M1739:4965, Dated 05-04-2016.
	3.0	Other References, if any.

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

- 1) Bidder's clarification is attached vide **Annexure-A to TCN-01**.
- 2) Amendment-1 to Volume-II, Technical Specification for Demineralization Plant (DM PLANT) is attached herewith.
- 3) Extension of due date of submission of offer from 26-04-2016 to 06-05-2016 (15:00 hrs). Bidders are requested to submit their offer by extended due date positively.
- 4) Revised 'No deviation certificate' is attached. Bidder to submit 'No deviation certificate' as per attached format only.
- 5) All other terms & conditions shall remain unchanged.

Thanking you,

Yours faithfully,
for BHARAT HEAVY ELECTRICALS LTD

Engineer (SCT)

Encl: As above.

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-01

JOB: Design, Engineering, Manufacturing, Supply/Delivery, Erection, Commissioning, Trial Run, Handing Over to Customer etc of DEMINERALIZATION PLANT (DM PLANT) excluding civil construction work for 3X 660 MW North Karanpura Super Thermal Power Project at Jharkhand.

TENDER NO : PSER:SCT:NKP-M1739:16

CLARIFICATION OF BIDDERS' QUERY

SL NO	REFERENCE CLAUSE OF TENDER DOCUMENT	EXISTING PROVISION	BIDDER'S QUERY	BHEL'S CLARIFICATION
1.0	Clause No. 11, Page No. 65 of 830, Section-C3 - Scope of C&I for DM Plant (Volume-II - Technical Specification for DM Plant)	Bidder to terminate all instrumentation and control elements in junction boxes. Bidder to provide input/output list, drives list, junction box schedule and termination details, recommended control logics / write-up etc. the list of documents to be submitted after award of contract is to be referred by bidder.	As per electrical scope, we understand all cables in BHEL Scope. Kindly confirm.	Shall be as per tender specification. (Refer page no. 59 to 61 of 830, Section-C2 of Volume-II - Technical specification).
2.0	Clause No. 28, Page No. 66 of 830, Section-C3 - Scope of C&I for DM Plant (Volume-II - Technical Specification for DM Plant)	Redundancy of sensors shall be provided by bidder (i) Triple redundancy for all analog and binary inputs required for protection of system/drives. (ii) For all other control functions dual redundancy of the sensors shall be provided by the bidder.	We understand that Redundancy to be considered is only for measurement instruments; no redundancy for analysers is envisaged. Kindly confirm.	Refer attached Amendment-1 to Volume-II.
3.0	Sl. No. (d), Page No. 764 of 830, Section-D - Measuring Instruments (Primary and Secondary) (Volume-II - Technical Specification for DM Plant)	All instruments which are required for implementation of specified monitoring, diagnostics and analysis system such as on-line Plant Performance Analysis, Diagnosis & Optimization system (PADO) for the station, vibration analysis system, various online Performance Monitoring calculations etc., in main plant area are also to be provided by the contractor.	Please confirm applicability.	Refer attached Amendment-1 to Volume-II.
4.0	Page no. 19, 84, 119 of Volume-II - Technical Specification for DM Plant	-	Bulk acid storage tank quantity mention on Page 19, 119 and P&ID is 2 Nos., but on Page 84 bulk acid storage tank quantity mentions it as 3 Nos. Kindly confirm.	Refer attached Amendment-1 to Volume-II.
5.0	Page no. 51, 123 of Volume-II - Technical Specification for DM Plant	-	MOC of lime tank mention on Page 51 is RCC and on Page 123, it has mentioned as SS. Kindly confirm.	Refer attached Amendment-1 to Volume-II.
6.0	Page no. 12 of 830, Section-B - Project Information (Volume-II - Technical Specification for DM Plant)	Raw Water Analysis	Gas Chlorination is not there in both system of PT And DMP, even though Note #2 gas chlorination load has to be taken as 5 ppm. Kindly confirm.	Shall be as per tender specification.



**AMENDMENT TO TECHNICAL SPECIFICATION FOR
DEMINERALIZATION PLANT (DM PLANT)
3X660 MW NTPC NORTH KARANPURA STPP**

SPECIFICATION NO.: PE-TS-405-163A-A001

AMENDMENT NO # 1

REV. NO. 00

DATE: 22.04.2016

Page 1 of 1

The following modifications with respect to Technical Specification for DEMINERALIZATION PLANT (DM PLANT), BHEL's Technical specification no PE-TS-405-163A-A001 shall apply.

Bidder to note that existing clauses/page numbers as appearing in the specification stands deleted and clauses/page numbers as mentioned in "Modified to" column shall be applicable and complied by the bidder.

MODIFIED CLAUSES/PAGE NUMBERS.

SI no.	Vol. No.	Section/ Description	Clause no	Page no	Existing	Modified to
1.	IIB	SECTION – C1	19.4 (D)/Lime Tank	51 of 830	Material -RCC (Epoxy painted inside)	Material-SS316 (6 mm Thick)
2.	IIB	SECTION – C3	28	66 of 830	Redundancy of sensors shall be provided by bidder (i) Triple redundancy for all analog and binary inputs required for protection of system/drives. (ii) For all other control functions dual redundancy of the sensors shall be provided by the bidder.	Redundancy of sensors shall be provided by bidder (i) Triple redundancy for all analog and binary inputs required for protection of system/drives. (ii) For all other control functions dual redundancy of the sensors shall be provided by the bidder. (iii) No redundancy for analyser is required.
3.	IIB	SECTION – D1	5.01.00/2 (a)	84 of 830	Bulk acid storage tank (HCl-30-33% Conc): Minimum three (3) numbers, each having effective capacity to hold one (1) month requirement of acid other requirements as envisaged by the contractor to be met through these tanks.	Bulk acid storage tank (HCl-30-33% Conc): Minimum two (2) numbers, each having effective capacity to hold one (1) month requirement of acid other requirements as envisaged by the contractor to be met through these tanks.
4.	IIB	SECTION – D3/ Measuring Instruments (Primary and Secondary)	(d)	764 of 830	All instruments which are required for implementation of specified monitoring, diagnostics and analysis system such as on-line Plant Performance Analysis, Diagnosis & Optimization system (PADO) for the station, vibration analysis system, various online Performance Monitoring calculations etc, in main plant area are also to be provided by the contractor.	Stands deleted.

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, Erection, Commissioning, Trial Run, Handing Over to Customer etc of DEMINERALIZATION PLANT (DM PLANT) excluding civil construction work for 3X 660 MW North Karanpura Super Thermal Power Project at Jharkhand.	
Ref	1.0	Tender no PSER:SCT:NKP-M1739:16.
	2.0	BHEL's NIT, vide reference no PSER:SCT:NKP-M1739:4965, Dated 05-04-2016.
	3.0	BHEL's TCN-01, vide reference no PSER:SCT:NKP-M1739:TCN-01, Dated: 23-04-2016.
	4.0	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)