



**BHARAT HEAVY ELECTRICALS LIMITED**  
**PROJECT ENGINEERING MANAGEMENT, NOIDA**

Date-29-Jan-21

**CORRIGENDUM**

<b>PROJECT</b>	:	<b>1 x 660 MW UPRVUNL PANKI PROJECT</b>
<b>PACKAGE</b>	:	<b>DC BATTERY CHARGER</b>
<b>ENQUIRY NO.</b>	:	<b>PE/PG/PKI/E-6583/2020 Dtd. 19.01.2021</b>
<b>BID No. (Through NIC)</b>	:	<b>2021_BHEL_1313_1 Dtd. 19.01.2021</b>
<b>SUBJECT</b>	:	<b>DUE DATE EXTENSION &amp; Reply of Pre- Bid Query.</b>

Type of Corrigendum			
Technical Corrigendum -	<input type="checkbox"/>	Commercial Corrigendum -	<input checked="" type="checkbox"/>

In reference to the above mentioned tender enquiry for **DC BATTERY CHARGER** package.

Please note the following.

1. Due date has extended from **29.01.2021, 02:00 P.M.** to **05.02.2021, 02:00 PM**. Bid opening shall be done at 05.00 PM on due date.
2. Please find attached the reply of Pre-Bid query asked by bidders along with this corrigendum.

All the other terms and conditions of the tender enquiry remain unchanged.

Yours faithfully,

For and on behalf of BHEL

**PRE-BID CLARIFICATION**

SI No	DOCUMENT NAME	CLAUSE NO/ PAGE NO	CLARIFICATION TO BE REQUIRED	BHEL REPLY.
1.	BOQ	SI no 9: E&C Spares for Main Plant BC.	As the configuration required is of FC+FCBC, we will consider the 01 Lot common E&C spares for FC+FCBC, no separate spares shall be provided. BHEL to confirm.	Bidder's clarification is inline with BOQ requirement and noted.
2.	BOQ	SI no 11: Mandatory Spares for Main Plant BC.	As the configuration required is of FC+FCBC, we will consider the 01 Lot common Mandatory spares for FC+FCBC, no separate spares shall be provided. BHEL to confirm.	Bidder's clarification is inline with BOQ requirement and noted.
3.	BOQ	Mandatory Spares for RAW Water plant.	mandatory spare requirement is not mentioned in BOQ. BHEL to confirm the requirement of same.	Bidder's clarification is inline with BOQ requirement and noted.
4.	BOQ	Note: SI no 4	Confirm us the cable size for Charger, Fuse Box and Discharge resistor to consider the Lugs and Gland.	Cable size shall be informed during detailed engineering
5.	Technical Specification for 220V DC BC: Specification No: PE-TS-426-508-E002 Section-I	Clause: 3.03.01	It shall be as per IEC 6100-4-5 at possible % of Load as per recent approved TTR for NTPC job. (as Govt/Pvt testing facilities are not following ANSI standard in recent days, we request you to consider SWC test as per IEC standard). Also, test shall be conducted at Normal ambient, possible % of Load as per test setup available with external agency. BHEL to Confirm	It is indicated in spec that Equipment complying with other internationally accepted standards such as IEC, BS, VDE etc. will also be considered if they ensure performance and constructional features equivalent or superior to standards listed above. hence bidder's clarification noted

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6.	Technical Specification for 220V DC BC: Specification No: PE-TS-426-508-E002 Section-I	Clause 4.16.00 and 4.17.00	Battery related meter/transducer/interfaces will be provided at FCBC panel only not in FC panel for Main Plant BCs. BHEL to confirm.	Battery related meter/transducer/interfaces to be provided at each charger panel. Bidder to follow spec.
7.	Technical Specification for 220V DC BC: Specification No: PE-TS-426-508-E002 Section-I	Clause 9.01.00: I)	DC Health monitoring system: confirm us the whether this is included in the Bidder scope of supply. If yes kindly issue the amended BOQ.	DC Health monitoring system is not in bidder's scope
8.	Technical Specification for 220V DC BC: Specification No: PE-TS-426-508-E002 Section-I	Clause 9.05.00: insulation class.	As per Section-II, clause no 6.2: the rectifier transformer and chokes shall have class-F insulation with temperature rise limited to class-B insulation value. BHEL to confirm requirement.	The rectifier-transformers and chokes shall have class-B insulation with temperature rise limited to class-A insulation value
9.	Technical Specification for 220V DC BC: Specification No: PE-TS-426-508-E002 Section-I	Clause 9.15.03	Electronic equipment shall be non-modular design as per our recent supply to NTPC projects.	Bidder to follow spec.
10.	Technical Specification for 220V DC BC: Specification No: PE-TS-426-508-E002 Section-II	Clause 11.4: ii): page 11 of 17	Temperature rise test for rectifier assembly at current specified in data sheet-A, section-I for 8 Hrs. As per NTPC specification, this clause is applicable for charger rating upto 400A. BHEL to confirm	Bidder to follow spec

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11.	Technical Specification for 220V DC BC: Specification No: PE-TS-426-508-E002 Section-II	Clause 11.6: x): page 13 of 17	Burn in shall be carried out on electronic card/PCA. Instead of electronic module or panel with module. BHEL to confirm.	bidder's clarification noted.
12.	Annexure-II SLD for 220V DC system	SLD for main Plant 220V DC system	As per SLD provided, there is source selector item shown at charger input side. it shall be in buyer's scope. BHEL to confirm	Ac input Source selector switch shall be located in Charger and is in charger supplier scope.