



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

Date-9-Jun-21

**CORRIGENDUM- 02**

<b>PROJECTs</b>	<b>:</b>	<b>1 X 660 MW WBPDCS SAGARDIGHI EXTN UNIT V</b>
<b>PACKAGE</b>	<b>:</b>	<b>CONDENSATE POLISHING UNIT</b>
<b>ENQUIRY NO</b>	<b>:</b>	<b>PE/PG/SGI/E-6650/2021 Dated 26.05.2021</b>
<b>SUBJECT</b>	<b>:</b>	<b>TECHNICAL AMENDMENT</b>

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

Bidders are requested to go through the following changes

1. Refer attached Amendment # 1 to Technical Specification of subject package & project.

All the other terms and conditions of the tender enquiry remain unchanged. All the bidders are requested to quote accordingly.

Yours faithfully,

For and on behalf of BHEL

Upendra Chaudhary  
Manager/BOP



**AMENDMENT TO TECHNICAL SPECIFICATION FOR  
CONDENSATE POLISING UNIT 1 X 660 MW  
SAGARDIGHI THERMAL POWER STATION, UNIT NO. 5, PHASE-III**

SPECIFICATION NO.: PE-TS-445-155-A001

AMENDMENT NO # 1

REV. NO. 00

DATE: 08.06.2021

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The following modifications with respect to **TECHNICAL SPECIFICATION FOR CONDENSATE POLISING UNIT** BHEL's Technical specification no **PE-TS-445-155-A001** shall apply.

Bidder to note that existing clauses/ details as appearing in the specification stands deleted/ replaced and clauses/details as mentioned in "Modified to or Read as" column shall be applicable and complied by the bidder as listed below in **SCHEDULE A**.

**SCHEDULE- A**

**MODIFIED CLAUSES/PAGE NUMBERS:**

S. No.	Section	Sub-Section/ Description	Clause No	Page no	Existing clause/details	Modified to or Read as
1.	I	Sub-Section – IA	2.0/ Sr. No. 14	21 of 601	Average velocity of condensate through service vessels: $\leq 105$ m/ hour.	The bed cross section in the service vessels shall be such that the average velocity of condensate through it shall not exceed 120 m <sup>3</sup> / hr./ m <sup>2</sup> for cylindrical service vessels & 105 m <sup>3</sup> / hr./ m <sup>2</sup> for spherical vessels, at the design flow rate. Internal diameter of the service vessels (excluding the rubber lining) of spherical type shall be selected meeting the above mentioned velocity criteria.
			3.00.00/ b/ IV	44 of 601	The bed cross section in the service vessels shall be such that the average velocity of condensate through it shall not exceed 2 meters/ min (120 m <sup>3</sup> / hr. / m <sup>2</sup> ) at the design flow rate for spherical vessel. Internal diameter of the service vessels (excluding the rubber lining) of spherical type shall be selected meeting the above mentioned velocity criteria.	
2.	I	Sub-Section– IA	2.0/ Sr. No. 4	21 of 601	Design pressure of CPU: 47 Kg/ cm <sup>2</sup> (g)	Operating pressure for service vessels shall be normal operating pressure of condensate extraction pump. Service vessel design pressure shall be equal to shut off pressure of condensate extractions pump i.e. 47 kg/cm <sup>2</sup> (g) plus 5% margin.
			6.00.00/VI/A	46 of 601	Operating pressure for service vessels shall be normal operating pressure of condensate extraction pump. Service vessel design pressure shall be equal to shut off pressure of condensate extractions pump plus 5% margin or as specified in data sheet (A) of this technical specification, whichever is higher.	
			Data Sheet – A/ S. No. 2.0 (V)	222 of 601	Design pressure of each condensate polisher service Vessel: Shut of head of CEP pump i.e. 47 kg/cm <sup>2</sup> (g) plus 5% extra margin.	
3.	I	Sub-Section– IA	Cl. No. 4.0/ Scope of Supply/ Piping/	28 of 601	Piping used for handling alkali (concentrated) and alkali solution shall be CPVC Sch. 80 minimum for complete CPU regeneration area. The complete	Piping used for handling alkali (concentrated) and alkali solution shall be CPVC Sch. 80 minimum for complete CPU regeneration area.



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			S. No. 12 & 13		<p>piping and distribution of the same inside the CPU regeneration area shall be in bidder's scope.</p> <p>Piping handling acid service shall be CPVC Sch. 80 minimum for complete CPU regeneration area. The complete piping and distribution of the same inside the CPU regeneration area shall be in bidder's scope.</p>	<p>The complete piping and distribution of the same inside the CPU regeneration area shall be in bidder's scope.</p> <p>Piping handling acid service shall be CPVC Sch. 80 minimum for complete CPU regeneration area. The complete piping and distribution of the same inside the CPU regeneration area shall be in bidder's scope.</p>
			Data Sheet-A/ S. No. 5.0/ vii & viii	236 of 601	<p>Hydrochloric acid (at all concentration): CPVC Sch. 40</p> <p>Sodium hydroxide (at all concentration): CPVC Sch. 40</p>	
4.	I	Sub-Section– IA	Cl. No. 4.0/ Scope of Supply/ Piping/ S. No. 15 & 16	28 of 601	<p>DM water piping from condensate storage tanks common outlet header to CPU REGENERATION CUM RESIN TRANSFER PUMPS (located in CST pump house) suction lines along with their isolation valves, tee, bends, piping, flanges etc. shall be in bidder's scope.</p> <p>DM water piping from each CPU REGENERATION CUM RESIN TRANSFER PUMPS (located in CST pump house) discharge recirculation line to common recirculation header (of condensate storage tank) along with their isolation valves, tee, bends, piping, flanges etc. shall be in bidder's scope.</p>	<p>DM water piping from condensate storage tanks common outlet header to CPU REGENERATION CUM RESIN TRANSFER PUMPS (located in CST pump house) suction lines along with their isolation valves, tee, bends, piping, flanges etc. shall be in bidder's scope. Distance shall be approximately 25 meter.</p> <p>DM water piping from each CPU REGENERATION CUM RESIN TRANSFER PUMPS (located in CST pump house) discharge recirculation line to common recirculation header (of condensate storage tank) along with their isolation valves, tee, bends, piping, flanges etc. shall be in bidder's scope. Distance shall be approximately 30 meter.</p>