



**AMENDMENT TO TECHNICAL SPECIFICATION FOR CATHODIC PROTECTION
SYSTEM FOR 3X800 MW PATRATU TPS**

SPECIFICATION NO.: PE-TS-434-509-E001

AMENDMENT NO # 2

REV. NO. 00

DATE: 04/04/2020

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MODIFIED CLAUSES AS BELOW.

Sl no.	Vol. No.	Section/ Description	Clause no	Page no	Existing clause/details	Modified Clause
1	Volume-II	Section-I	Cl. No 5.1B) (V)	Sh. 9 of 20	The minimum protection current density shall be (i) 200 $\mu\text{A}/\text{m}^2$ for the pipeline surrounded by soil of resistivity more than 100 ohm.m (ii) 300 $\mu\text{A}/\text{m}^2$ for the pipeline surrounded by soil of resistivity of 10ohm.m to 100 ohm.m and (iii) 2000 $\mu\text{A}/\text{m}^2$ for resistivity of soil less than 10 ohm.m. Under marshy conditions the protection density shall be 5000 $\mu\text{A}/\text{m}^2$. However the actual current density to be adopted shall be suitably increased by contractor based upon soil conditions, current drainage survey details, foreign pipe line / structures and other interference areas affecting the installation.	The minimum protection current density shall be (i) 500 $\mu\text{A}/\text{m}^2$ for the pipeline surrounded by soil of resistivity more than 100 ohm.m (ii) 500 $\mu\text{A}/\text{m}^2$ for the pipeline surrounded by soil of resistivity of 10ohm.m to 100 ohm.m and (iii) 2000 $\mu\text{A}/\text{m}^2$ for resistivity of soil less than 10 ohm.m. Under marshy conditions the protection density shall be 5000 $\mu\text{A}/\text{m}^2$. However the actual current density to be adopted shall be suitably increased by contractor based upon soil conditions, current drainage survey details, foreign pipe line / structures and other interference areas affecting the installation.
2	Volume-II	Annexure A (Bill of Quantities)	Bill of Quantities	-	Coating Type (Internal) : 3LPE	Coating Type (External): "Coal Tar Tape (Wrapping) Coating for Buried Portion only. no coating for over ground portion of pipe (only normal painting). Coating Type (Internal): Nil "