



**AMENDMENT ON TECHNICAL SPECIFICATION
FOR OZONE GENERATION PLANT**

1x370 MW YELAHANKA CCPP

SPECIFICATION NO.: PE-TS-409-174-14000A-A001
AMENDMENT NO # 3

REV. NO. 00

DATE: 06.08.16

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The following modifications with respect to Technical Specification for **OZONE GENERATION PLANT**, BHEL's Technical specification number PE-TS-409-174-14000A-A001 Rev 00 shall apply.

MODIFIED CLAUSES/PAGE NUMBERS.

Sl no	Vol. No.	Section/Description	Clause no	Page no	Existing	Modified to
1.	IIB	SECTION – C3	-	Page No. 132 of 245	Page No. 132 of 245	Page No. 132 of 245 of Technical specification has been replaced by Annexure – A attached herewith.

- 3) Output Signal Range: 4-20 mA DC(Analog) Super imposed digital on HART protocol
- 4) Turn Down Ratio : 10:1 for vacuum/very low pressure applications
30:1/100:1 for other applications
- 5) Stability: +/-0.1% of calibrated span for 6 months up to 70 KSC & +/- 0.25% for range more than 70 KSC(g).
- 6) Zero and Span Drift: +/- 0.015% per Deg.C at max. span and 0.11% per Deg.C at Minimum Span
- 7) Load Impedance: 500 ohm (Min)
- 8) Housing: Weather proof as per IP-65 with durable corrosion resistant coating
- 9) Over Pressure - 150 % of Max. operating pressure
- 10) Connection(Electrical)- Plug and socket type
- 11) Process Connection - 1/2 inch NPT (F)
- 12) Span and Zero: Continuous, tamper proof, Remote Adjustability as well as manual from instrument with zero suppression and elevation facility.
- 13) Accessories
 - a) Diaphragm seal, pulsation dampeners syphon etc. as required by service and operating condition.
 - b) 2/3/5 Valve manifold as applicable
- 14) Diagnostics: Self Indicating Feature
- 15) Power Supply: 24 V DC +/- 10%
- 16) Adjustment : Calibration facility via Centralized PC based HART management system

2.16.1 **Pressure indicators** shall be provided for

Suction and discharge lines of pumps including on header section if two or more pumps are employed for the same service and transmitters.

2.16.2 **Pressure switches** shall be provided for

- (a) On all process lines / equipment where parameter abnormality / status including pre-trips alarms to be communicated to the operator in control room.
- (b) For all permissives and protection conditions governed by safety operation of the equipment e.g., pressure adequate, pressure very high / low conditions.
- (c) For all interlock conditions which governs starting of standby equipment or subsequent equipment for safety operation of the system.