



GUJARAT INDUSTRIES POWER COMPANY LIMITED
(Surat Lignite Power Plant)

COMMON CLARIFICATION

Based on queries of the Bidders clarification regarding detail of Condenser is as follows:

Description	Unit- 2	Unit- 3
Design Temp.	Tube Side: 85 Deg C Shell Side: 110 Deg C	Tube Side: 85 Deg C Shell Side: 110 Deg C
Operating Inlet temperature	Tube Side: 30-36 Deg C Shell Side: 50-55 Deg C	Tube Side: 32-42 Deg C Shell Side: 50-55 Deg C
Operating Outlet temperature	Tube Side: 40-46 Deg C Shell Side: 45-50 Deg C	Tube Side: 42-50 Deg C Shell Side: 45-50 Deg C
Design Pressure:	Tube Side: 5.0 KG/Sq CM Shell Side: Full Vacuum	Tube Side: 5.0 KG/Sq CM Shell Side: Full Vacuum
Operating Pressure :	Tube Side: 1.6 - 2.0 KG/Sq CM Shell Side: 0.097 Ata	Tube Side: 1.6 - 2.0 KG/Sq CM Shell Side:0.097 Ata
Material of construction of condenser tubes and No. of tubes in various zones	AC Zone : 1028 Nos (SA 249 TP 304) Other tubes : 13172 Nos (Cu-Ni 90-10) Total : 14200 nos.	All tubes: 14250 Nos. (SA 249 TP 304)
Material of construction of Shell:	SA516 Gr 70	SA516 Gr 70
Condenser tubes Diameter and Thickness	SA 249 TP 304 : OD -22 mm, Thickness : 22 BWG Cu-Ni 90-10 : OD -22mm, Thickness: 18 BWG	OD -22 mm, Thickness : 22 BWG
Length of each tube.	7500 mm	8000 mm
Media Properties: Cooling Water	PH: 7.74, Hardness: 828 ppm, TDS:1545 ppm, Conductivity: 2579 µs/cm, M alk: 63 ppm, FRC: 0.5 ppm, Chlorides: 257 ppm, TPO ₄ : 8.39ppm, Zinc: 1.01 ppm, Silica: 114ppm, Sulphate 904ppm, Turbidity: 2.06NTU	PH: 7.74, Hardness: 828 ppm, TDS:1545 ppm, Conductivity: 2579 µs/cm, M alk: 63 ppm, FRC: 0.5 ppm, Chlorides: 257 ppm, TPO ₄ :8.39ppm, Zinc: 1.01 ppm, Silica: 114ppm, Sulphate 904ppm, Turbidity: 2.06 NTU

Bidder is requested to take note of the same.