SPECIFIC DESIGN CRITERIA FOR STEAM GENERATOR AND AUXILIARIES

DATASHEET – A

SR. NO.	ITEM	UNITS	60% TGMCR	80% TGMCR	100% TGMCR	TOP HEATER OUT OF SERVICE (100% TGMCR)	100% SG MCR
1.0	**STEAM GENERATOR**						
1.1	Number Required	Number	One (1)				
1.2	Steam Generator Type		Super-critical, Single/double reheat to suit the turbine cycle, Semi Outdoor, Single/Double Pass, Dry Bottom (Water impounded) and Balanced Draft				
1.3	Duty		Continuous				
1.4	Steam Flow At SH Outlet	TPH					Refer Note 1.0 & 3.0
1.5	Pressure At Main Steam Stop Valve Outlet	Kg/cm² (a)					> 255
1.6	Steam Temperature at SH outlet	°C	568°C (Minimum)				
1.7	Steam Flow At RH Outlet	TPH	*	*	*	*	*
1.8	Steam Pressure at RH Inlet	Kg/cm² (a)	*	*	*	*	*

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1.9	Steam Temperature at RH inlet	°C	*	*	*	*	*
1.10	Steam Pressure at RH Outlet	Kg/cm² (a)	*	*	*	*	*
1.11	Steam Temperature at RH outlet	°C	596°C (Minimum)				
1.12	Superheater & Reheater Outlet Steam temperature control range		Within ± 5 °C for all loads from 60 % to100 % range BMCR				
1.13	Feed Water Flow to Economiser	TPH	*	*	*	*	*
1.14	Feed Water Temperature at Economiser Inlet	°C	*	*	*	*	*
2.0	**FUEL FIRED**						
2.1	Primary fuel		100% Coal (Indigenous Coal / Indigenous Blended with IMPORTED coal on 70 : 30 %.				
2.2	Cold Start-up fuel		LDO up to 10% BMCR, beyond 10% upto 30% HFO.				
2.3	Capacity of oil burners for load carrying		Upto 30% BMCR (without Coal firing).				
2.4	Fuel analysis		Refer Section-IX, Volume II				