

Form G 2.1							
Plant Characteristics							
Name of the Company	Rajasthan Rajya Vidut Utpadan Nigam Limited,Jaipur (Raj.)						
Name of the Power Station	Kota Super Thermal Power Station,Kota						
Basic characteristics of the plant ¹	Conventional steam generator						
Special Features of the Plant							
Site Specific Features ²							
Special Technological Features ³	Once through cooling system for Unit # 1 to 5 & Cooling-Tower(closed cycle) for Unit # 6 to 7 and intake/makeup water from Kota barrage						
Environmental Regulation related features ⁴	Electrostatic precipitators						
Any other special features							
Fuel Details ⁵	Primary Fuel		Secondary Fuel			Alternate Fuels	
	Coal		FO/HSD/LDO			-	
Details	Module number or Unit number						
1	2	3	4	5	6	7	8
Installed Capacity (IC)	110	110	210	210	210	195	195
Date of Commercial Operation (COD)	1.04.83	1.04.84	11.03.89	16.01.90	18.07.95	01.08.04	01.01.2010
Type of cooling system ⁶	Once-Through					Cooling Tower (closed cycle)	
Type of Boiler Feed Pump ⁷	Motor driven						
MS Pressure (kg/cm ²)	130	130	147.1	147.1	147.1	147.1	147.1
Temperature 0C							
-At Superheater Outlet	545	545	545	545	545	545	545
-At Reheater Outlet	545	545	545	545	545	545	545
Guaranteed Design Heat rate (kCal/kWh) ⁸	2517	2517	2307	2307	2309	2287	2228
Conditions on which guaranteed							
% MCR	3	3	3	3	3	3	3
% Makeup	3	3	3	3	3	3	3
Design Fuel	4450	4450	4278	4278	3500	3500	3500
Design cooling water Temperature	30	30	30	30	30	30	30
Back Pressure	0.88	0.88	0.88	0.88	0.88	0.88	0.88

¹ Describe the basic characteristics of the plant e.g. in the case of a coal based plant whether it is a conventional steam generator or circulating fluidized bed combustion generator or sub-critical once through steam generator etc.

² Any site specific feature such as Merry-Go-Round, Vicinity to sea, Intake /makeup water systems etc. scrubbers etc. Specify all such features.

³ Any Special Technological feature like Advanced class FA technology in Gas Turbines, etc.

⁴ Environmental regulation related features like FGD, ESP etc.

⁵ Coal or natural gas or naphtha or lignite etc.

⁶ Closed circuit cooling, once through cooling, sea cooling etc.

⁷ Motor driven, Steam turbine driven etc.

⁸ In case guaranteed unit heat rate is not available then furnish the guaranteed turbine cycle heat rate and guaranteed boiler efficiency separately along with condition of guarantee.