

GARE PALMA IV 2 & 3 MINE

PART A

Sr. No.	Features	Details			
1.	Location				
	Coal Field	Mand Raigarh Coalfield			
	Latitude	22°09'15" N & 22°05'44" N			
	Longitude	83°29'46" E & 83°32'32" E			
	Villages	6 Nos.			
	Tehsil/ Taluka	Ghargoda			
	District	Raigarh			
	State	Chattisgarh			
2.	Area				
	Geological Block Area	950 hectares (As per Geological Report)			
	Project Area				
	Mining Lease Area	964.65 hectares			
	Forest Area	48.20 hectares (out of Mining Lease Area)			
	Non Forest Area	916.45 hectares (out of Mining Lease Area)			
3.	Exploration				
	Status of Exploration	Explored			
	Exploration Agency	GSI, Mining Associates (P) Ltd, CDS-Geotech India Pvt Ltd, M/s George Thomas			
	Total Number of Boreholes	108			
	Boreholes Meterage	18825.55 m			
	Borehole Density	6 boreholes per sq. km			
4.	Amount of Coal				
	Geological Reserves	246.84 MT (OC: 178.87 MT, UG: 67.97 MT)			
	Mineable Reserves	187.19 MT (OC: 160.00 MT, UG: 27.19 MT)			
	Extractable Reserves	187.19 MT (OC: 160.00 MT, UG: 27.19 MT)			
	Seam Wise Reserve	Seam	Geological (MT)	Mineable (MT)	Method
		X	17.37	15.63	OC
		XA			
		IX			
		VIII	49.27	44.14	UG
		VII	56.53	50.40	
		IV	23.87	9.55	
		III	15.08	6.03	
		II	29.02	11.61	
5.	Coal Seams				
	Dip of Seam	2°-6°			
	Direction of Strike	NW-SE in western part; WNW-ESE in the south eastern part			
	Thickness of Coal Seams	Coal Seam		Avg Thickness (Mtrs)	
		X		1.5	

		XA	2.5
		IX	5.0
		VIII	3.5
		VII	3.0
		IV	1.5
		III	1.5
		II	3.0
	Partings	Between Seams	Usual (in metres)
		Parting between X and XA	0.98-6.60
		Parting between XA and IX	38.22-51.80
		Parting between IX and VIII	1.17-6.37
		Parting between VIII and VII	7.87-21.85
		Parting between VII and VI	8.39-24.73
		Parting between VI and V T	7.83-25.70
		Parting between V T and V M	1.87-17.70
		Parting between V M and V B	1.41-16.56
		Parting between V B and IV	28.38-46.19
		Parting between IV and III T	43.58-76.57
		Parting between III T and III B	0.50-1.09
		Parting between III B and II	34.23-55.64
		Parting between II and I	42.80
	Faults	Name of Fault	Throw (m)
		F1-F1	0-15
		F2-F2	20-25
6.	Grade		
	Grade	Seam	Range
		X	G
		XA	E
		IX	E
		VIII	G
		VII	G
		IV	F
		III	E
		II	D
7.	Accessibility		
	Nearest Rail Head Distance	Raigarh Railway Station at a distance of 55 km on Howrah-Mumbai railline	
	Road	Raigarh at a distance of 55 km	
	Airport Distance	Raipur Airport (Approx. 300.0Km)	
8.	Hydrography		
	Local Surface Drainage Channels	Bendra nala in the nort-western part of the block	
	Rivers/ Nala	Kelo riven in the western part of the block	
9.	Climate		
	Average Annual Rainfall	1258 mm	

	Temperatures (Winter)	5 ° C
	Temperatures (Summer)	Up to 42 ° C
10.	Topography	
	Topo Sheet Number	64 N/12
	Nature of Surface Land	Undulating; 250m-295m above MSL
11.	Other Infrastructure	
	Coal Handling Plant Capacity	400 T planned
	Coal Washery Capacity	700 TPH planned
	Transport from Mine	Rail/ Road transport
	Power Supply	One electric feeder from operating mine Gare Palma – IV/1 being operated by Jindal Steel & Power; Regular electric supply from nearby substation of CESC

PART B

Sr. No.	Features	Details
1.	Previous Allocation	
	Name of Allocatee	Jindal Power Ltd
	Address	Jindal Center, 12 Bhikaji Cama Place, New Delhi 110066
	Nature of End Use	Power
2.	Status of Mineral Exploitation	
	Method of Mining	Opencast & Underground mining
	Coal Extracted	31.70 MT (till 31.03.2014)
	Mine Plan Extraction Rate	OC: 6 MTPA UG: 0.90 MTPA
	Average Stripping Ratio	3.51
	Mining Agency	Own Operations
3.	Status of Clearances/Approvals	
	Mining Plan(Reference to Grant)	No 13016/3/2000-CA dated January 25, 2001 (original plan) Revised plan is yet to be approved. Summary based on revised plan.
	Forest Clearance(Reference to Grant)	
	Environmental Clearance(Reference to Grant)	No.J-11015/288/2007-IA.II(M) dated June 12, 2012
	Land Required	964.65 hectares
	Land Acquired	874.507 hectares