GARE PALMA IV/1 MINE

PART A

Sr. No.	Features	Details			
1.	Location				
	Coal Block	GARE PALMA	PALMA IV/1		
	Coal Field Mand Raigarh Coal Fiel		Coal Field	J	
	Latitude	22° 05 [′] 26.472	″ N &	Existing infor	mation about
		22° 08 [′] 04.092	" N	bounding cod	ordinates has
	Longitude	83° 31 [′] 32.037	" E &	been convert	ed to WGS84
		83° 34 [′] 06.431	" E	system by CN	/IPDI
	Villages	Nagaramuda, 1	Tapranga, Don	gamahua,Dha	urabanta,Janjgir
		and Amgaon			
	Tehsil/ Taluka	Gharghoda, Ta	amnar		
	District	Raigarh			
	State	Chhatisgarh			
2.	Area				
	Geological Block Area	8.35 Sq. km (A	•	5)	
	Project Area	978.654 hecta			
	Mining Lease Area		res (As per M	ning Plan 200	8 with proposed
		extension)			
	Forest Area	91.18 hectare			
	Non Forest Area	887.475 hecta	res		
3.	Exploration				
	Status of Exploration	Explored	11 001	1.6 .1	
	Exploration Agency		CMPDI (GR prepared by GSI and further supplemented by		
		· · · · · · · · · · · · · · · · · · ·	GIEM (India) Consortium, Kolkata through Mining Associates, Asansol)		
	Total Number of Boreholes	75 (as per GR	•		
	Boreholes Meterage	75 (as per GR)			
	Borehole Density	8.98 per squar	•		
4.	Amount of Coal	0.36 per squar	e Kili		
7.	Total Geological Reserves	As per GR 2006			
	Total Geological Neserves	713 per 611 200	Within Block	Extended	Total(MT
			IV/1(MT)	Area(MT)	
		ОС	107.601	25.723	133.324
		UG	22.923	3.197	26.120
		TOTAL	130.524	28.920	159.444
		Seam-wise Re	Seam-wise Reserve:		
		Seam	Geologica	al Reserve (MT	Γ)
		Seam X	9.015		
		Seam XA	9.044		
		Seam IX	47.155		
		Seam VIII	28.780		
		Seam VIIT	7.546		
		Seam VIIM	30.254		
		Seam VIIB	1.531		
		Seam IV	8.619		
		Seam III	17.501		

		TOTAL 159.444		
		As per GR 2006, reserves of Seam III and IV are taken as		
		underground reserves and rest are opencast reserves.		
	Total Mineable Reserves	114.16 MT (Extractable as per Mining Plan)		
	Average Stripping Ratio	3.16 cum/t		
5.	Coal Seams			
	Dip of Seam	2°to 6° as per Mining Plan, Feb 2008.		
	Direction of Strike	E-W as per GR 2006		
	Coal Seams		Generalised	
		Coal Seam	Thickness	
			(meters)	
		X	2.5-2.75	
		XA	1.50-2.0	
		IX L2	0.50-1.20	
		IX L1	0.50-1.20	
		IX TOP	0.65-1.00	
		IX	6.5-7.50	
		VIII	2.50-3.50	
		VII TOP	0.50-1.50	
		VII MID	3.00-6.00	
		VII BOT	1.50-2.00	
		VI	0.50-0.90	
		VT	0.25-0.50	
		VB	0.50-0.60	
		IV L	0.50-0.60	
		l IV	0.80-1.25	
		III L2	0.50-0.60	
		III L1	0.70-0.80	
		111	1.20-1.80	
	Partings	Average Thickness (in metres)	Usual (meters)	
		Hard OB		
		Parting between X and XA	4.3-9.62	
		Parting between XA and IX L2	17.71-22.87	
		Parting between IX L2 and IX		
		L1	4.13-11.37	
		Parting between IX L1 and IX	6.18-8.24	
		Top		
		Parting between IX Top and IX	2.38-4.25	
		Parting between IX and VIII	2.21-10.51	
		Parting between VIII and VII Top	3.0-9.40	
		Parting between VII Top and VII Mid	0.73-4.73	
		Parting between VII Mid and VII		
		Bot	14.72-27.42	
		Parting between VII Bot and VI	14.51-20.85	
		Parting between VI and V Top	20.68-34.97	

		Parting between V Top and V	
		Bot	2.92-7.69
		Parting between V Bot and IV L	2.92-7.09
		Parting between v Bot and iv L	16.27-23.05
		Parting between IV L and IV	10.27 23.03
		I dreing between iv E and iv	17.26-23.55
		Parting between IV and III L2	
			19.91-23.33
		Parting between III L2 and III	
		L1	
			2.48-7.30
		Parting between III L1 and III	
		333.	24.44-33.83
	Faults	No Major Faults indicated in Min	ing Plan
6.	Grade		1
	Grade	Seam	Range
			Unworkable
		Top Section	thickness
		x	F-G
			F-G
		XA	
			F-G
		IX	
			F-G
		VIII	F.C.
		VII TOP	F-G
		VII 101	F-G
		VII MID	
			F-G
		VII BOT	
			E-G
		IV	
			D-F
7.	Accessibility	1	
	Nearest Rail Head Distance	Raigarh Station, 50 km	25.1/
	Road	Raigarh Ambikapur State Highway	/ ,25 Km
	Airport Distance	Raipur, 300km	
8.	Hydrography	Bookley No. 1	an constitution of
	Local Surface Drainage	Bendra Nala, traversing upto mid	ale of the block, provides
	Channels Divers / Nole	drainage to the area.	
	Rivers/ Nala	Kelo River	
9.	Climate	1215 70 70	
	Average Annual Rainfall	1315 mm	
	Temperatures (Winter)	5 °c (min)	
10	Temperatures (Summer)	46.5°c (max)	
10.	Topography Topo Choot Number	F44142 (Old No C4 N/42)	
	Topo Sheet Number	F44 L12 (Old No 64 N/12)	
	Nature of Surface Land	Partly Hilly	

11.	Other Infrastructure	(Refer Annexure-I)
Coal Handling Plant Capacity 2 Nos. of CHP		2 Nos. of CHP of total 1000 TPH capacity to be retained by
		company
	Coal Washery Capacity	2 Nos. with total capacity of 1000 TPH to be retained by
		company
	Transport from Mine	
	Power Supply	Mine Site Substation to Jindal Steel and Power Power
		Plant in Raigarh through 220KV HTL

PART B (for Schedule II Mines only)

Sr. No.	Features	Details
1.	Previous Allocation	
	Name of Allocatee	M/s. Jindal Steel & Power Ltd.
	Address	M/s. Jindal Steel & Power Ltd.
		Post Box. No.16
		Kharsia Road
		Raigarh
		Chhattisgarh
	Nature of End Use	Sponge Iron (DRI/process)
2.	Status of Mineral Exploitation	(As per Annexure-I)
	Method of Mining	Opencast Mining
	Coal Extracted	64.595 MT till 31.03.2014 (as per Letter No. JSPL/Coal
		Mines/2014-15/I.V. MOC/001; Dated: 25.11.2014)
	Mine Plan Extraction Rate	6 MTPA
	Mining Agency	Third Party Contract
3.	Status of Clearances/Approvals	
	Mining Plan(Reference to Grant)	No.13016/5/2004-CA-I dated 16.05.2008
	Forest Clearance(Reference to	Obtained vide Letter No. 8-60/2009-FC; dated:
	Grant)	02.02.2011
	Environmental	No. J-11015/81/2008-IA.II(M); dated: 21-05-2012
	Clearance(Reference to Grant)	
	Mining Lease (Reference to	No. 3-174/96/12/2 dt. 23/09/97
	Grant)	Lease deed on 19/12/1997
	Land Required	978.67 Ha, as per EC
	Land Acquired	744.03 Ha (as per Letter No. JSPL/Coal Mines/2014-
		15/I.V. MOC/001; Dated: 25.11.2014)
	R&R Plan details	

Note: The above data is compiled from Geological Report, Mining Plan, Mine Closure Plan, Environmental Clearance and Forest Clearance and the data furnished by the prior allottee in Annexure-I. For clarifications with regard to above data, please refer aforesaid source documents.