GARE PALMA IV/1 MINE

PART A

Location				
Coal Block	GARE PALMA	IV/1		
Coal Field	Mand Raigarh Coal Field			
Latitude	22° 05 [°] 26 [″] N 8			
Longitude	83° 31 [′] 33 [″] E 8			
Villages	Nagaramuda,	Nagaramuda, Tapranga, Dongamahua, Dhaurabanta, Janjgir		
Tehsil/ Taluka	Gharghoda, Tamnar			
District	Raigarh	Raigarh		
State	Chhattisgarh			
Area				
Geological Block Area	8.35 Sq. km (As per GR 2006) and 10.15 sq.km as per Shape file [Refer Note No. 3]			
Mining Lease Area		·		
	(As per Mining Plan 2008 with proposed extension)			
Forest Area	91.18 hectare		•	•
Non Forest Area	887.475 hectares			
Exploration				
· · · · · · · · · · · · · · · · · · ·	Explored			
		CMPDI (GR prepared by GSI and further supplemented by		
	GIEM (India) Consortium, Kolkata through Mining			
Total Number of Boreholes				
Boreholes Meterage				
Amount of Coal	ke. edae.e			
Total Geological Reserves	As per GR 200	6		
	·	Within Block IV/1(MT)	Extended Area(MT)	Total(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	serve:	•	
	Seam	Geologica	l Reserve (MT)
	Seam X	9.015	•	
	Seam XA	9.044		
	Seam IX	47.155		
		28.780		
	Seam VIIT	7.546		
	Seam VIIM	30.254		
	Seam VIIB	1.531		
		+		
		+		
	Latitude Longitude Villages Tehsil/ Taluka District State Area Geological Block Area Mining Lease Area Forest Area Non Forest Area Exploration Status of Exploration Exploration Agency Total Number of Boreholes Boreholes Meterage Borehole Density	Latitude 22° 05′ 26′ N 8 Longitude 83° 31′ 33″ E 8 Villages Nagaramuda, and Amgaon Tehsil/ Taluka Gharghoda, Ta District Raigarh State Chhattisgarh Area Geological Block Area 8.35 Sq. km (A Shape file [Re Mining Lease Area 978.654 hecta	Latitude	Latitude

		underground reserves and rest are	e 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	
			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	
		IV	0.80-1.25	
		III L2	0.50-0.60	
		III L1	0.70-0.80	
		III	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 Top	6.18-8.24	
		Parting between IX Top and IX	2.38-4.25	
		Parting between IX and VIII	2.21-10.51	
	Parting between VIII and VII			
	Тор	3.0-9.40		
	Parting between VII Top and VII Mid	0.73-4.73		
		Parting between VII Mid and VII	14 72 27 42	
		Bot Downing hoteless WII Bot and WI	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	2.92-7.69	

		Bot		
		Parting between V Bot and IV L		
			16.27-23.05	
		Parting between IV L and IV		
			17.26-23.55	
		Parting between IV and III L2	19.91-23.33	
		Parting between III L2 and III	15.51 25.55	
		L1		
			2.48-7.30	
		Parting between III L1 and III		
			24.44-33.83	
	Faults	No Major Faults indicated in Min	ing Plan	
6.	Grade			
	Grade	Seam	Range	
			Unworkable	
		Top Section	thickness	
		Х	F-G	
		 	F-G	
		XA		
		IX	F-G	
			F-G	
		VIII	1-0	
			F-G	
		VII TOP		
			F-G	
		VII MID		
		VII POT	F-G	
		VII BOT	E-G	
		IV	E-G	
			D-F	
		III		
7.	Accessibility			
	Nearest Rail Head Distance	Raigarh Station, 50 km		
	Road	Raigarh Ambikapur State Highway ,25 Km		
	Airport Distance	Raipur, 300km		
8.	Hydrography			
	Local Surface Drainage	Bendra Nala, traversing upto middle of the block, provides		
	Channels	drainage to the area.		
	Rivers/ Nala	Kelo River		
9.	Climate	1215 102 102		
	Average Annual Rainfall	1315 mm		
	Temperatures (Winter)	5°c (min)		
10.	Temperatures (Summer) Topography	46.5°c (max)		
10.	Topo Sheet Number	F44 L12 (Old No 64 N/12)		
	Nature of Surface Land	Partly Hilly		
	Nature of Juriace Land	Taray imiy		
	1	1		

11.	Other Infrastructure	(Refer Annexure-I)
	Coal Handling Plant Capacity	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:

- 1. 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, as available. For clarifications with regard to above data, please refer aforesaid source documents.
- 2. The boundary of the block has been taken from GR after conversion to WGS84 system by feature matching. The block boundary is provisional and the cardinal points, bounding coordinates are approximate.
- 3. There is a difference in area in the shape file [based on feature mapped plan of the block as given in the GR (10.15 sq.km)] and GR got prepared by the prior allottee M/s Jindal Steel &

Power Ltd. in Oct 2006 (8.35 sq.km). This is as per notice No. 104/28/2015/NA dated 13.10.2015 issued by the Nominated Authority regarding settlement of boundary in Gare Palma Sector.