

# BRINDA-SISAI COAL BLOCK SUMMARY

## PART A

Sl. No.	Features	Details
<b>1.</b>	<b>Location</b>	
	Coal Block	<b>Brinda and Sisai</b>
	Latitude	<b>Brinda</b> - 23° 54' 45" to 23° 56' 25" N <b>Sisai</b> - 23° 54' 41" to 23° 56' 23" N
	Longitude	<b>Brinda</b> - 84° 59' 50" to 85° 02' 04" E <b>Sisai</b> - 85° 02' 00" to 85° 03' 32" E
	Topo Sheet No.	73E/1
	Coalfield	North Karanpura Coalfield
	Villages	Pokla, Ghagra, Khalia, Katahi Misraul, Kishunpur, Madhawapur, Brinda, Sisai, Serangdag, Kabra, Bijua, Gopda, Nawadih, Nawakhap & Chatti-Bariatu.
	Tehsil/ Taluka	Simaria, Tandawa, Kherada, CD Blocks
	District	<b>Brinda</b> in Chatra District & <b>Sisai</b> partly in Chatra & partly in Hazaribagh District
	State	Jharkhand
<b>2.</b>	<b>Connectivity with Block</b>	
	Nearest Rail Head	RAY RAILWAY STATION (40 km)
	Road	TANDWA (15km, METALLED ROAD) & SIMARIA (10 km, METALLED ROAD)  TANDWA is connected with RANCHI (85 km), KHELARI (30 km) on NH-48.
	Airport	RANCHI (100 km)
<b>3.</b>	<b>Area</b>	
	Geological Block Area	Brinda - 8.55 sq.km Sisai - 10.88 sq.km
	Mining Lease Area (As per Mining Plan)	1377.62 Ha
	Project Area	
	Forest Area	632.67 (As per Mining Plan)
	Non-Forest Area	744.95 (As per Mining Plan)
<b>4.</b>	<b>Climate and Topography</b>	
	Average Annual Rainfall	1011mm per annum
	Temperature (Min. – Max.)	1° to 45° C
	Local Surface Drainage Channels	Lachchankundih Nalla & Hodhodwa Nala
	Rivers	Barki River
<b>5.</b>	<b>Exploration</b>	
	Status	Explored
	Exploration Agency	CMPDI
	Total Number of Boreholes with	129 (11663.3m)(As per Mining Plan)

	meterage								
	Borehole Density	6.64 (Derived from Mining Plan)( 8.19 in Brinda & 5.42 in Sisai Block)							
	General Dip of Seams	3 to 11 degree ( 1 in 5 to 1 in 18)(Southerly Dipping)							
	General Strike Direction	Roughly East –West							
6.	Coal Seams & Reserve (As Considered in Mining Plan)	<b>Block</b>	<b>Formation</b>	<b>Geological Resrves (Mt)</b>					
		<b>SISAI</b>	Karharbari Group of Seams	26.343					
			Barakar Group of Seams	0.7					
		<b>Sub-Total</b>			<b>27.043</b>				
		<b>BRINDA</b>	Karharbari Group of Seams	17.806					
			Barakar Group of Seams	16.907					
		<b>Sub-Total</b>			<b>34.713</b>				
		<b>GRAND TOTAL GEOLOGICAL RESERVES</b>			<b>61.756</b>				
		Mineable Reserves for Opencast Mining:		Brinda - 16.907 Mt Sisai - 0.70 Mt <b>TOTAL - 17.607 Mt</b>					
		Mineable Reserves for Underground Mining:		Brinda - 6.681 Mt Sisai - 18.186 Mt <b>TOTAL - 24.867 Mt</b>					
		<b>Extractable Reserves for Opencast</b>		<b>15.20 Mt</b>					
		<b>Extractable Reserves for Underground</b>		<b>10.20 Mt</b>					
		<b>TOTAL EXTRACTABLE RESERVES</b>		<b>25.40 Mt</b>					
<b>For Opencast Mining in Brinda Block</b>									
		<b>(As per Para 3.6A, 4.4.2.1, 4.5, 6.3 &amp; 6.4 of Mining Plan, Revised: July-2006)</b>							
		<b>Thickness Range (m)</b>	<b>Net Geo. Reserves (Mt)</b>		<b>Extractable Reserves (Mt)</b>		<b>Grade (as per Mining Plan)</b>		
	<b>Coal Seams</b>		<b>Patch A</b>	<b>Patch B</b>	<b>Quarry A</b>	<b>Quarry B</b>	<b>Quarry A</b>	<b>Quarry B</b>	
	SOIL/ALUVIUM	0-18							
	SEAM-II Top	1.42		0.335		0.287		G	
	PARTING	13.01							
	SEAM-II Bot	4.26-5.42		2.177		1.867		F	
	PARTING	3.77-8.18							
	SEAM-I Top & Middle	8.43-14.20	0.161	7.939	0.138	6.809	F	F	
	PARTING	1.2-7.99							
	SEAM-I Bot	4.11-11.22	0.669	5.626	0.573	4.707	G	F-G	
	<b>TOTAL</b>		<b>0.83</b>	<b>16.077</b>	<b>0.830</b>	<b>13.670</b>	<b>G</b>	<b>F</b>	
	<b>GRAND TOTAL</b>		<b>16.907</b>		<b>14.50</b>		<b>F</b>		
	<b>Quarry A : Total OB - 1.013 Mcum</b>				<b>Quarry A : Stripping Ratio - 1.22 cum/t</b>				
	<b>Quarry B : Total OB - 17.497 Mcum</b>				<b>Quarry B : Stripping Ratio - 1.28 cum/t</b>				
<b>For Opencast Mining in Sisai Block</b>									
	Seam-I Bot &		<b>0.70</b>		<b>0.70</b>		Grade not available		

Seam-I Top & Middle								
OB Volume (Mcum)	<b>0.826</b>							
<b>Total Extractable Reserves of Brinda-Sisai Coal Blocks for Opencast Mining:</b>								
<b>Total Extractable Coal: 15.20 Mt</b>								
<b>Total Overburden : 19.33 Mcum</b>								
<b>Stripping Ratio : 1.27 cum/t</b>								
<b>For Underground Mining in Sisai Block</b>								
Number of Coal Seams	Thickness Range	Depth Range	Geo. Reserve	Mineable Reserve	Extractable Reserve	Grade(as per Mining Plan)	Mining Method (UG/OC)	
K2 Seam	0.08 - 2.49m	7.50m-88.50m	13.087 MT	9.516 MT		A to G	UG	
K3 Seam	0.29 - 3.72m	9.15m-81.72m	5.424MT	3.647 MT		A to C	UG	
K5 Seam	0.44-3.46m	6.50m-70.03m	7.832MT	5.023 MT		B to F	UG	
<b>For Underground Mining in Brinda Block</b>								
Number of Coal Seams	Thickness Range	Depth Range	Geological Reserve	Mineable Reserve		Grade(as per Mining Plan))	Mining Method (UG/OC)	
K2 Seam	0.26-2.40m	12.71 (CNKA-383) - 134.78 (CNKA-409)	13.087 MT	9.516 MT		A to D	UG	
K3 Seam	0.10 - 2.01m	15.51m (CNKA-436) - 127.20 (CNKA-409)	5.424 MT	3.647 MT		A to B	UG	
K5 Seam	0.45-3.08m	21.85 (CNKA-403) - 87.81 (CNKA-400)	7.832 MT	5.023 MT		B to D	UG	
Total Extracatble Reserve from the Brinda –Sisai Block for UG Mining & Life					10.2 MT	Life @0.18MTPA for 56 Years for UG Mining		

**PART B**

Sr. No.	Features	Details
<b>1.</b>	<b>Previous Allocation</b>	
	Name and Address of Allocatee	<i>M/S Abhijeet Infrastructure LTd, 178-A, Light Industrial Area, Bhilai, Chhattisgarh-490026</i>
<b>2.</b>	<b>Mine Capacity as per Mining Plan</b>	<b>0.68 MTPA (0.50 from OC &amp; 0.18 from UG)</b>
<b>3.</b>	<b>Status of Clearances/Approvals</b>	
	Mining Plan/ Mine Closure Plan	<i>Mining Plan approved via: No. 47011/1(20)/2000-CPAM/CA-I Dated 28.9.2006.</i>

Sr. No.	Features	Details
		Mine Closure Plan approved but letter not enclosed.
	Forest Clearance	<i>FC for 49.07 Ha Via: F. No.8-77/2010-FC Dated: 11.2.2011</i>
	Environmental Clearance	<i>EC obtained via: J-11015/2379/2006-ia.II(M) Dated: 17.05.2007</i>
	Mining Lease	
	Land Acquisition	<i>218.815 Acre(88.59 Ha) private Land within the Block and 132.69 Acre(53.72Ha) CA land (as per Annexure- II submitted by the company)</i>
	No. of PAFs as per Mining Plan/ Mine Closure Plan	<i>45 families as per Land Schedule. (as per annexure-II submitted by the Company)</i>
<b>4.</b>	Surface Infrastructure already built, if any.	<b>Investment Detail as per annexure-II submitted by the Company:</b> CHP : Rs 271.65 Lakhs Electrical P&M : Rs 21.13 Lakhs Other P&M : Rs 432.25 Lakhs

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/II