

# TOKISUD NORTH COAL BLOCK SUMMARY

## PART A

Sr. No	Features	Details
<b>1.</b>	<b>Location</b>	
	Coal Block	<b>Tokisud North</b>
	Latitude	23° 41' 32" N - 23° 42' 52" N (Provisional)
	Longitude	85° 13' 12" E- 85° 14' 37" E (Provisional)
	Topo Sheet No.	73 E/2 & E/6
	Coalfield	South Karanpura
	Villages	Deogarh, Urej, Ango (As per Mine plan)
	Tehsil/Taluka	Barkagaon
	District	Hazaribagh
	State	Jharkhand
<b>2.</b>	<b>Connectivity with Block</b>	
	Nearest Rail Head	The Gomoh-Barkakana-Dehri-On-Sone loop line of Eastern railway is located at a distance of about 1.5 km to the south of the block beyond Damodar River. The Hindegir railway station on this line is located to the west of the block at a distance of about 5 km.
	Road	Another important railway station is located at a distance of about 10 km to the south-east of the block. Patratu railway station is approachable from block by a cart road upto Urimari thereafter a metalled road passing through Saunda, Sayal collieries connects the station. An important town Ramgarh is located at a distance of about 50km to the east of the block. Ramgarh is well connected with Hazaribagh and Ranchi ny N.H.-33.
	Airport	Ranchi (80km)
<b>3.</b>	<b>Area</b>	
	Geological Block Area	3.16 sq.km. (As per shape file; Refer Note at the end)
	Forest Area	2-5 % of open forest (As per FSI map)
	Non-Forest Area	Above 95 % (As per FSI map)
<b>4.</b>	<b>Climate and Topography</b>	
	Average Annual Rainfall	1200-1400 mm
	Temperature (Min. — Max.)	As per Annual Temperature Map of India the area falls within daily mean temperature zone of 22.5°C-25°C. The summers and winters are extreme.
	Local Surface Drainage Channels	The drainage of the block is primarily controlled by river Damodar which encircles the block. Besides two nalas originating from the uplands in the northern part of the block flow from north to south and ultimately join the river. A number of small ponds and dug wells are also present in the block.

	Rivers	Damodar River in the East and west boundary of Tokisud North block.					
<b>5.</b>	<b>Exploration</b>						
	Status	Explored in Detail					
	Exploration Agency	MECL					
	Total Number of Boreholes with meterage	35 Boreholes; 3660.00 m					
	Borehole Density	Approx. 11 Boreholes/sq.km.					
	General Dip of Seams	The dip of the beds is around 10-12° and is due southerly and south-easterly.					
	General Strike Direction	The regional strike of the formations is NE-SW, which at places swings to E-W. In the western part trend of the formations is almost N-S.					
<b>6.</b>	<b>Coal Seams &amp; Reserve</b>						
	Number of Coal Seams	Thickness Range (m)	Depth Range (m) (Floor)	Geological Reserve (MT)		Grade	
				Proved	Indicated	As in GR	GCV Range
	Saunda	1.38-2.85	-	1.136	-	D-E	G7 – G10
	Sayal	2.89-5.08	45.73-79.00	1.632	-	E-G	G8 – G14
	Upper Balkudra	7.40-12.98	6.21-138.25	6.974	-	F-G	G11 – G14
	Lower Balkudra	1.40-2.95	5.88-154.60	1.811	-	D-F	G7 – G12
	Balkudra A	0.60-1.15	13.50-138.25	-	-	C-F	G6 – G12
	Kurse	0.20-0.65	-	-	-	E	G9 – G10
	Upper Nakari	0.42-0.85	-	-	-	B-D	G4 – G8
	Semana Combined	0.26-3.07	12.84-184.90	2.332	-	D-G	G7 – G14
	Hathidari	1.97-4.95	25.36-193.00	6.186	-	D-F	G7 – G12
	Bansgarha	2.43-4.93	6.35-202.50	7.956	-	C-F	G6 – G12
	Argada	7.10-12.76	4.00-221.30	24.923	-	E-F	G9 – G12
	Local-2	0.08-1.19	-	-	-	B	G4 – G5
Local-1	0.06-1.42	-	-	-	C-E	G6 – G10	
Argada A+B	4.09-13.05	4.60-262.70	25.102	-	C-F	G6 – G12	
Argada C+D	1.60-5.80	27.00-308.85	14.245	-	D-F	G7 – G12	
		<b>Total</b>	<b>92.297</b>			-	
<b>7.</b>	<b>Surface Constraints</b>	NA					

- A total of 2.880 MT of coal reserves are in partial Jhama zone in Sector-II and Sector-III which are added to the total coal reserves for the block. (Geological Report on Coal Exploration in Tokisud Block, South Karanpura Coalfield, Distt. Hazaribagh. MECL, March, 1994.)
- The coal grades based on UHV have been converted to GCV grades as per Coal Directory of India 2016-17 by CCO.

## PART B

Sr. No.	Features	Details
<b>1.</b>	<b>Previous Allocation</b>	
	Name of Allocatee	GVK Power (Goindwal Sahib) Ltd
	Address	Paigah House, 156-159, Sardar Patel Road, Secunerabad 500003, Andhra Pradesh
	Nature of End Use	Power
<b>2.</b>	<b>Status of Mineral Exploitation</b>	
	Method of Mining	Opencast mining
	Coal Extracted	Nil (till 31.03.2014)
	Mine Plan Extraction Rate	2.32 MTPA
	Average Stripping Ratio	2.83
	Mining Agency	AMR India Ltd
<b>3.</b>	<b>Status of Clearances/Approvals</b>	
	Mining Plan(Reference to Grant)	No 47011/1(28)/2000-CA-I dated August 13, 2012
	Forest Clearance(Reference to Grant)	F. No. 8-26/2009-FC dated December 28, 2011
	Environmental Clearance(Reference to Grant)	No.J-11015/430/2006-IA.II(M) dated April 10, 2013
	Land Required	1445.40 acres
	Land Acquired	1420.84 acres

**Note:**

1. The above data is compiled from Geological Report, Mining Plan and the data furnished by the prior allottee in Annexure-I/II, 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/Mining Plan after conversion to WGS84 system by feature matching. The block boundary is provisional and the cardinal points, bounding co-ordinates are approximate.
3. There is a difference in area in the shape file and GR/ Mining Plan. Area in the shape file is based on feature mapped plan of the block as given in the GR/ Mining Plan. So, the area is tentative and field DGPS survey is required to ascertain the exact area.