MINERAL BLOCK SUMMARY

PART A-GENERAL INFORMATION ABOUT MINERAL BLOCK

Sl No.	Features	Details
1	Mineral Block	**Jumka Pathiriposhi PaharIron Ore Block**
	Location Coordinates	La: 21^0 47’ 32.9484” - 21^0 48’ 46.0482”; Long: 85^0 12’ 12.3828” - 85^0 13’20.0556”
	DGPS delineated corner Points	
	Location	20 kms south of Koira town
	Villages	Koira Town, Village: Kedeshala
	Tehasil	Koida
	District	Sundergarh
	State	Odisha
2	**Area (Hects)**	
	Total block area	1.57 Sq km
	Mineralised area	0.15 Sq km for +55 - Mineralization factor (0.07)& 0.27 Sq km for +45 - Mineralization factor (0.27)
	Non-Mineralised area	1.41 Sq km for +55 & 1.29 for +45
3	**Exploration**	

ID	LATITUDE	LONGITUDE
BP-A	21° 48' 22.6615''N	85° 13' 20.0556''E
BP-B	21° 48' 2.5824''N	85° 13' 2.1575''E
BP-C	21° 47' 50.9935''N	85° 12' 55.0980''E
BP-D	21° 47' 46.8274''N	85° 12' 57.6303''E
BP-D1	21° 47' 40.3390''N	85° 12' 54.0129''E
BP-E	21° 47' 34.1026''N	85° 12' 47.1115''E
BP-F	21° 47' 32.9484''N	85° 12' 29.4071''E
BP-G	21° 47' 33.5874''N	85° 12' 20.5270''E
BP-H	21° 47' 40.9604''N	85° 12' 12.3828''E
BP-I	21° 47' 54.7809''N	85° 12' 35.5927''E
BP-J	21° 47' 56.5111''N	85° 12' 34.1438''E
BP-K	21° 48' 7.2540''N	85° 12' 37.9269''E
BP-L	21° 48' 25.8428''N	85° 12' 54.3884''E
BP-M	21° 48' 32.3786''N	85° 13' 2.4651''E
BP-N	21° 48' 33.2349''N	85° 13' 1.6007''E
BP-O	21° 48' 45.9890''N	85° 12' 58.2564''E
BP-P	21° 48' 46.0482''N	85° 13' 4.5904''E

	Status (G2/G3/G4)	General Exploration Stage (G-2)
	Exploration agency	Mineral Exploration Corporation Ltd(MECL) & Geological Survey of India (GSI)
	Total Nos. of boreholes with meterage	Boreholes drilled = 85 borehole; Meterage drilled 5363.10m Earlier GSI BH 29(1395.50m) & MECL 56 BH (3967.60m)
	Borehole Spacing	100x100
4	**Qty. of minerals grade wise**	
	Mineral	Iron Ore (mostly Hematite)
	Total Net Iron ore Resources	**140.28 million tonnes**

Grade	**Lumps Net** Resources in million tonnes	**AverageGrade**Fe%	**Fines Net** Resources in million tonnes	**Average Grade** Fe%	**Total Grade wiseNet Resources Lump+fines (million tonnes)**
High grade+55% Fe	**48.53**	**60.82**	**54.73**	**60.82**	**103.26**
Low Grade +45 to 55% Fe	**17.40**	**50.24**	**19.62**	**50.24**	**37.02**
Total	**65.93**		**74.35**		
	Thus Total Iron ore resources of all grades is 140.28 million tonnes			**56.14**	
Ratio of Lump & Fine = Lump:Fine = 47:53 (GR page no. 32) considered for categorizing resources estimated into Lumps & fines.					

5	**Mineralised Zone**	
	Nos. of Mineralised zones	Several zones in Strike length= 2387.90m
	Trend (Dip & Strike)	The iron ore bands trends N30°-50°E – S30°-50°W with north westerly and occasional south easterly dip of 15°-60°.
	Thickness of iron ore	Thickness ranges from minimum 2m to maximum 76m
6	**Grade**	
	Grade	45% - 55% Fe, Average Fe% 50.24 +55% Fe & above, Average Fe% 60.82
7	**Accessibility**	
	Nearest Railhead	Nearest railway station is Barsuan , mainly haulage raw materials (iron ore) and local passengers . It is connected with Rourkella by a 22kms long broad gauge railway link of South eastern railway
	Road	Itis situated 20 kms south of Koira town, the Koira town in tern lies by the side of National Highway No. 215 connecting Panikoili- Rajamunda passing through Keonjhar&Joda towns.
	Airport	Bhubaneswar
8	**Hydrography**	
	Local surface drainage pattern	There is no perennial/seasonal nallah flowing through the

	(channels)	lease area.The major nalas flow towards south. In general, the streams form dendritic pattern
	River/ Streams	No river/ streams of prominence
9	**Climate**	
	Mean Annual Rainfall	Annual rain fall varies between 120 to 200cm and the main precipitation is recorded during the period from July to September months.
	Temperature (December)	4 to 5^0C
	Temperature (June)	45^0C
10	**Topography**	
	Toposheet Nos.	73 G/1
	Morphology of the area	The Jumka-Pathriposhi block and the surrounding area forms one of the prominent high iron ore ridges in the Bonai Iron Ore Range lying to the southwest of Mankadanachha hill, whereas rest of the mapped area forms narrow spurs, hills and valleys. The entire area falls in the elevation ranging from 488 m and 1037m

PART-B PARTICULARS OF STATUTORY LICENSES, PERMITS, PERMISSIONS, CONCESSIONS, APPROVALS AND CONSENTS RELATED TO MINING OPERATIONS

Sl. No.	Particulars	Details/ Status
1	**Forest Clearance**	**To be obtained by the Successful / not applicable/ if available, State to provide details**
2	Wild life clearance(sanctuary, reserve or special zone clearances)	-do-
3	Environmental clearance	-do-
4	Consent to establish	-do-
5	Explosive license	-do-
6	Permission for mines opening	-do-
7	Permission of installation/ trial operation of equipment	-do-
8	Ground Water clearance (Centre/ State)	-do-
9	Railway siding approval	-do-
10	Approval for diesel storage	-do-
11	Power line from State Discom	
12	Clearances relating to work under an existing transmission line or shifting of the transmission line	-do-
13	Gramasabha consent	-do-

PART-C PARTICULARS OF LAND

Sl. No.	Area	Details
1	Total Concession Area	157.077 hects
2	Forest Land with Status	143.908 hects
3	Government land with status	11.369 hects
4	Private land with status	1.800 hects
5	Revenue survey details of the area	Refer: Land Schedule