Summary of the Mineral block

PART A- GENERAL INFORMATION ABOUT MINERAL BLOCK

	Features	**Details**
1	Location	Bonai- Kendujhar belt
	Mineral Block	**Gandhalpada Auction Block**
	Latitude	21º57′13.46″N to 21º58′21.194″N
	Longitude	85 º16′44.658″E to 85º18′00.507″E
	Boundary Geo-coordinates of the block	

Points	**Longitude (E)**	**Latitude (N)**
A	85° 16' 44.658" E	21° 57' 48.439" N
B	85° 17' 14.698" E	21° 58' 05.037" N
C	85° 17' 09.380" E	21° 58' 13.437" N
D	85° 17' 10.751" E	21° 58' 14.831" N
E	85° 17' 18.865" E	21° 58' 21.194" N
E-1	85° 17' 26.211" E	21° 58' 18.644" N
E-2	85° 17' 29.860" E	21° 58' 17.380" N
E-3	85° 17' 33.942" E	21° 58' 15.963" N
E-4	85° 17' 43.135" E	21° 58' 12.670" N
E-5	85° 17' 50.250" E	21° 58' 10.089" N
E-6	85° 17' 54.192" E	21° 58' 08.677" N
E-7	85° 17' 58.347" E	21° 58' 07.171" N
F	85° 18' 00.507" E	21° 58' 06.378" N
F-1	85° 17' 59.237" E	21° 58' 04.065" N
F-2	85° 17' 55.329" E	21° 57' 57.223" N
F-3	85° 17' 53.093" E	21° 57' 52.984" N
F-4	85° 17' 49.529" E	21° 57' 46.576" N
F-5	85° 17' 47.655" E	21° 57' 43.191" N
F-6	85° 17' 45.952" E	21° 57' 40.043" N
F-7	85° 17' 43.484" E	21° 57' 35.644" N
G	85° 17' 41.35" E	21° 57' 32.58" N
G-1	85° 17' 10.487" E	21° 57' 15.482" N
H	85° 17' 06.86" E	21° 57' 13.46" N
H-1	85° 17' 05.670" E	21° 57' 15.345" N

	Villages	Gandhalpada
	Tehsil/ Taluka	Barbil
	District	Kendujhar
	State	Odisha
2	**Area (hectares/ square kilometers)**	2.41 square kilometers
	Mineralised Area	2.12 square kilometers
	Non Mineralised Area	0.29 square kilometers
3	**Exploration**	
	Status (G2/G3/G4 etc)	G2
	Exploration Agency	Geological Survey of India
	Total Number of Boreholes with meterage	72 boreholes for 6998.45 m drilling
	Borehole spacing (Density)	200m x 200m (some boreholes are in 200m x 100m spacing)
4	**Quantity of Minerals**	
	Mineral 1, mineral 2, Mineral 3…mineral n	Iron

	Total Geological Resources (Reserves) **(Consider high grade-other than HLO as FINES, High grade-HLO as LUMPS, and low grade as FINES)**	314.37 million tonnes at 45% Fe cut off. (High grade- other than HLO: 262.69 million tonnes at avg. Fe 62.01%. High grade- HLO: 12.71 million tonnes at avg. Fe 62.33%. Low grade: 38.97 million tonnes at avg. Fe 49.59%)
5	**Mineralised Zones**	
	Number of Mineral Zones	Two zones (High grade & Low grade)
	Trend (Dip and Strike)	General trend of the ore band is N60^0 E- S60^0 W and dip is varying from gentle to steep (5^0 to 65^0)
	Total Thickness	High grade-other than HLO: Varies from 3.00m (OKGA-21) to 108.30m (OKGB-3) High grade- HLO: Varies from 1.50m (OKGA-2) to 31.00m (OKGB-23) Low grade: Varies from 2.00m (OKGB-20, OKGA-22 & 25) to 42.00m (OKGA-15)
6	**Grade**	
	Mineral 1, mineral 2, Mineral 3…mineral n	Mineral1:- Iron: Average grade Fe: 60.48 % at 45% cut off.
7	**Accessibility**	
	Nearest Rail Head	Banspani
	Road	NH 215 (1 km from block) (Gandhalpada)
	Airport	Bhubaneswar
8	**Hydrography**	
	Local Surface Drainage pattern (Channels)	Dendritic
	Rivers/ Streams	Suna Nadi and Karo Nadi
9	**Climate**	
	Mean Annual Rainfall	120 – 150 cm
	Temperature (December)	2-3°C
	Temperature (June)	45°C
10	**Topography**	
	Toposheet Number	73 G/5
	Morphology of the Area	Rugged.

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	241.558 hects.
2	Forest Land with Status	181.461 hects.
3	Government land with status	39.304 hects.
4	Private land with status	20.793 hects.
5	Revenue survey details of the area	Refer Land Schedule