PART A – REVISED GENERAL INFORMATION ABOUT MINERAL BLOCK

	Features	Details
1	**Location**	
	Mineral Block	**Purheibahal Iron Block**
	SURVEYED BLOCK PILLAR CO-ORDINATES	

Sl No.	Pillar-Id	LATITUDE	LONGITUDE	EASTING	NORTHING
1	1	21°55'34.84448"N	85°17'37.28710"E	323763.6098	2425654.6167
2	2	21°55'13.71963"N	85°17'24.51774"E	323389.9324	2425008.986
3	3	21°54'58.91740"N	85°17'51.56803"E	324161.1617	2424545.1018
4	4	21°55'04.59716"N	85°17'54.96267"E	324260.5192	2424718.7059
5	5	21°55'12.26739"N	85°17'58.62195"E	324368.1477	2424953.4448
6	6	21°55'13.36928"N	85°17'58.60848"E	324368.1369	2424987.3385
7	7	21°55'16.40321"N	85°18'00.18195"E	324414.3256	2425080.1485
8	8	21°55'21.16213"N	85°18'00.84765"E	324435.0509	2425226.3007
9	9	21°55'22.68853"N	85°17'59.80643"E	324405.691	2425273.5772
10	10	21°55'27.26379"N	85°17'49.94851"E	324124.3592	2425417.4298
11	11	21°55'31.33296"N	85°17'43.16534"E	323931.0942	2425544.7419

	Villages	4 Km from Koira village to nearly ESE direction
	Tehsil/ Taluka	Koira
	District	Sundargarh
	State	Odisha
2	**Area (hectares/ square kilometers)**	
	Total block area	64.345 hects.
	Mineralised Area	35.514 hects.
	Non-Mineralised Area	28.831 hects.
3	**Exploration**	
	Status (G2/G3/G4 etc.)	G2(332)
	Exploration Agency	Mineral Exploration Corporation Limited
	Total Number of Boreholes with meterage	6 boreholes with 449 m. of drilling
	Borehole spacing (Density)	100 m x 100 m
4	**Quantity of Minerals**	
	Mineral	Iron
	Total Geological Resources	

Sl No.	Block	Gross Resources in M.T		Net Resources in M.T	
		At 55% Fe cut-off	≥45% to <55% Fe Cut-off	At 55% Fe cut-off	≥45% to <55% Fe Cut-off
1	PURHEIBAHAL	44.04(59.72)	2.76(49.89)	39.64(59.72)	2.48(49.89)

5	**Mineralized Zones**	
	Number of Mineral Zones	9 Nos.
	Trend (Dip and Strike)	N 30°E-S30°W, dipping in Western & Eastern directions.
	Total Thickness	22.00 m to 103.00 m (Average thickness-52.60 m)

6	Grade	Sl No.	Block	Gross Resources in M.T		Net Resources in M.T	
				At 55% Fe cut-off	≥ 45% to <55% Fe Cut-off	At 55% Fe cut-off	≥ 45% to <55% Fe Cut-off
		1	PURHEIBAHAL	44.04(59.72)	2.76(49.89)	39.64(59.72)	2.48(49.89)
	Minerals	Iron					
7	Accessibility	The block of Purheibahal is nearly 4 kms from North of Chandiposh block. National Highway No.215 connecting Panikoli on National Highway No.5 with Rourkela via Kendujhar, Joda, Barbil and Koira passes through the area. The iron mines of Kalta, Barsuan, Tensa lie in the neighboring area. Barbil, the nearest railhead on Tatanagar-Barbil section of the South Eastern Rail is about 30 Km away. Airport is Bhubaneswar. A small Airstrip exist at Barbil at a distance of 35-45 kms.					
	Nearest Railhead						
	Road						
	Airport						
8	Hydrography						
	Local surface drainage pattern(channels)	A small nala originating in the western part of the block flows through the south western fringe area towards east and finally meets the Teheral Nala outside the area, which flows through an area North-west of the Chandiposhi block and meets the Suna Nadi further downstream. The Suna Nadi finally drains into the Baitarani River near Kondra village to the North of this area.					
	River/Streams	Suna Nadi					
9	Climate						
	Mean Annual Rainfall	1600 mm					
	Temperatue (December)	5 Degree C					
	Temperatue (June)	47Degree C					
10	Topography						
	Toposheet Nos.	73 G/5					
	Morphology of the area	The areas of this block represents a rugged terrain with small hilllocks and intervening valley having highest topographical contours value of 678 m and lowest at 604 m, making the relief of the block 74m. The Teheral Nala flowing through areas west of the block meets the Suna Nadi to north of it.					