Mineral Block Summary

PART A – GENERAL INFORMATION ABOUT MINERAL BLOCK

	Features	Details
1.	**Location**	
	Mineral Block	Kamarda Chromite Mines
	Latitude Longitude (DGPS co-ordinates provided by ORSAC)	

Pillar No	Longitude	Latitude	Easting	Northing
A	E85°49'22.45836"	N21°03'48.28392"	377711.246	2329617.174
4	E85°49'24.88008"	N21°03'43.78212"	377780.113	2329478.243
5	E85°49'25.51476"	N21°03'42.59088"	377798.163	2329441.480
8	E85°49'31.32588"	N21°03'31.67496"	377963.408	2329104.606
9	E85°49'33.13380"	N21°03'28.12464"	378014.784	2328995.057
10	E85°49'35.57676"	N21°03'23.67252"	378084.293	2328857.649
12	E85°49'39.87516"	N21°03'15.61464"	378206.531	2328608.974
14	E85°49'43.03848"	N21°03'09.67716"	378296.490	2328425.737
15	E85°49'43.65228"	N21°03'08.51904"	378313.955	2328390.006
B	E85°49'44.93568"	N21°03'06.11316"	378350.454	2328315.752
19	E85°49'49.84932"	N21°03'09.66384"	378493.076	2328423.892
20	E85°49'53.04504"	N21°03'11.96568"	378585.837	2328493.992
21	E85°49'55.80876"	N21°03'13.94208"	378666.053	2328554.177
23	E85°50'06.29556"	N21°03'21.44772"	378970.413	2328782.735
C	E85°50'11.31576"	N21°03'25.04052"	379116.118	2328892.146
26	E85°50'08.63628"	N21°03'30.21084"	379039.948	2329051.683
28	E85°50'07.70640"	N21°03'32.00688"	379013.509	2329107.107
31	E85°50'02.72328"	N21°03'41.63076"	378871.854	2329404.068
D	E85°50'00.66624"	N21°03'45.62172"	378813.384	2329527.219
34	E85°49'59.59668"	N21°03'45.80964"	378782.548	2329533.221
36	E85°49'54.09120"	N21°03'46.73412"	378623.859	2329562.812
38	E85°49'49.27728"	N21°03'47.53836"	378485.112	2329588.553
39	E85°49'42.78756"	N21°03'48.63132"	378298.054	2329623.533
40	E85°49'37.91856"	N21°03'49.45644"	378157.713	2329649.937
41	E85°49'34.65444"	N21°03'50.01192"	378063.627	2329667.716
42	E85°49'33.26268"	N21°03'50.19336"	378023.503	2329673.586
43	E85°49'31.36872"	N21°03'50.54904"	377968.928	2329684.927
E	E85°49'29.60724"	N21°03'50.88708"	377918.159	2329695.696
45	E85°49'26.64984"	N21°03'49.80096"	377832.560	2329662.927

	Villages	Kamarda, Balipada, Talangi
	Tehsil/Taluka	Sukinda
	District	Jajpur
	State	Odisha
2.	**Area (hectares)/Sq.Kms**	
	Total Block area	107.24Ha
	Mineralised area	46.845Ha
	Non-Mineralised area	60.395Ha
3.	**Exploration**	
	Status (G2/G3/G4)	G1- 68.183 / G2-39.057
	Exploration Agency	M/S B.C Mohanty & sons PVT LTD
	Total no of Boreholes with meterage	143(Core BHs) + 9 (DTHs) =152 Meterage= 13631.53m
	Borehole Spacing	50m to 100m

4.	**Quantity of Minerals Grade -wise**			
	Mineral	Chromite		
	Total Geological Resources (in tones)	>40% Cr203	10-40% Cr203	Total
		387,030	1,988,445	2,375,475 (As on 20.03.2019)
	Projected Resource as on 31.03.2020 considering the depletion due to production as per EC limit and upto 31.03.2019 (-) 0.002+ 0.088= 0.09 mt	>40% Cr203	10-40% Cr203	Total
		387,030	**1,898,445**	**2,28,5475**
5.	**Mineralized Zones**			
	Nos of Mineralization Zones	Three regional ore Bands namely Band III, IV and V		
	Trend (Dip and Strike)	Striking E-W with 25 to 50° dip due south		
	Total Thickness	Average thickness: Band III- 7 m, Band IV – 8 m, and Band V – 8 m . As such total thickness is 23 m		
6.	**Grade**			
	Mineral	Average grade of chrome (>40%) is 44.22% Cr2O3 and Mineral Reject (10 to 40%) is 25.45% Cr2o3. 100% of the ore is friable/fines.		
7.	**Accessibility**			
	Nearest Rail Head	Tomka on Jakhapura- Barbil line of East Coast Railway is at a distance of 15Km from lease hold area.		
	Road	Duburi-Mangalpur-Tomka ODR passes through the mining lease area.		
	Airport	Bhubaneswar at a distance of 135 Km from lease area.		
8.	**Hydrography**			
	Local Surface Drainage pattern(channels)	Southern part of the area is bounded by a dry nala.		
	Rivers/Streams	DamsalNala in the near vicinity of the lease hold towards N-W Part of the Lease Area		
9.	**Climate**			
	Mean Annual Rainfall	1911.14 mm		
	Temperature (December)	Average High 29° C. Average Low 15° C		
	Temperature (June)	Average High 34.7^{O} C. Average Low 26.1^{O} C		
10.	**Topography**			
	Toposheet Numbers	73 G/16		
	Morphology of the area	Morphology of the area it is undulating marked by linearly disposed mounds of low relief.		

Part B-Particulars Of Statutory License, Permits, Permissions, Concessions, Approvals And Consents Related To Mining Operations

Sl. No.	Particulars	Details/Status
1	Forest Clearance	*To be obtained by the Successful bidder/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, tiral operation of equipment	-do-
8	Ground water clearance (Centre/State)	-do-
9	Railway Siding approval	-do-
10	Approval of Diesel storage	-do-
11	Power line from State Discom	-do-
12	Clearance relating to work under an existing transmission line or shifting of the transmission line	-do-
13	Gramasabha consent	-do-

PART C – PARTICULARS OF LAND

S.No	Type of Land	Details
1.	Total Concession Area	107.240 Ha
2.	Forest Land with status	**Type of land** / **Sabik Settlement (Ha)** / **Hal Settlement (Ha)** Forest land: 105.78 / 101.850 Diverted forest: 87.44 / --- To be diverted: 10.03 / --- Safety zone: 8.31 / ---
3.	Government Land with status	1.46 Ha. Non Forest as per Sabik Settlement (Road) & 5.390 Ha as per Hal Settlement (Govt. waste land + Road)
4.	Private Land with status	Nil
5.	Revenue survey details of the area	Detail survey details are given in the supplementary lease deed dt.06.10.2015 (Annexure-1C).