

# SUMMARY OF THE MINERAL BLOCK

## PART A – GENERAL INFORMATION ABOUT MINERAL BLOCK

	Features	Details	
<b>1.</b>	<b>Location</b>		
	Mineral Block	Kesla-II	
	Corner Points (Latitude, Longitude)	See Appendix 1	
	Villages	Kharora, Kesla, Nahardih and Baridih	
	Tehsil/ Taluka	Tilda Tehsil	
	District	Raipur	
	State	Chhattisgarh	
<b>2.</b>	<b>Area (hectares/square kilometres)</b>		
	Mineralised Area	357.067 ha (While 325 ha area has been drilled, based on surface outcrops and geological signatures it is interpreted that the entire 357.067 ha area is mineralised.)	
	Non-mineralised Area	NIL (See the above explanation)	
<b>3.</b>	<b>Exploration</b>		
	Status (G2/G3/G4 etc.)	G2	
	Exploration Agency	Directorate of Geology and Mining, Chhattisgarh	
	Total Number of Boreholes with meterage	105 boreholes 3262.9 meter	
	Borehole Spacing (Density)	Approximately 200m to 150m	
<b>4.</b>	<b>Quantity of Minerals (Grade-wise)</b>		
	Limestone	Cement (Portland) Grade <sup>1</sup>	122 Mt
		Cement (Blendable/Beneficable) <sup>2</sup>	87 Mt
		Blendable Grade <sup>3</sup>	6 Mt

	Features	Details	
		<p><sup>1</sup> Represents the limestone comprising of &gt;44%CaO and &lt;3.5 % MgO</p> <p><sup>2</sup> Represents the limestone comprising of 38% - 44% CaO and &lt;5 % MgO</p> <p><sup>3</sup> Represents the limestone comprising of 34% - 38% CaO and &lt;4 % MgO</p>	
	Total Geological Resources (Reserves)	<b>Quantity*:</b>	215 Mt
		<b>Average Grade*:</b>	
		CaO	43.1%
		MgO	2.1%
		SiO <sub>2</sub>	12.5%
		Al <sub>2</sub> O <sub>3</sub>	4.6%
		Fe <sub>2</sub> O <sub>3</sub>	1.6%
		<p>* Reported at the Threshold Value (Minimum 34% CaO and Maximum 4% MgO), prescribed by Indian Bureau of Mine, for limestone deposits in Chhattisgarh.</p>	
<b>5.</b>	<b>Mineralised Zones</b>		
	Number of Mineral Zones	One	
	Trend (Dip and Strike)	Strike NE-SW, Dip 2-3°	
	Total Thickness	Average 27.3m	
<b>6.</b>	<b>Accessibility</b>		
	Nearest Rail Head	Siliyari Railway Station (21 km)	
	Road	40 km from Raipur towards Baloda – Bazar	
	Airport	55 km from Raipur Airport	
<b>7.</b>	<b>Hydrography</b>		
	Local Surface Drainage Pattern (Channels)	Sub-parallel to dendritic	
	Rivers/Streams	Khorsi nala	
<b>8.</b>	<b>Climate</b>		
	Mean Annual Rainfall	Approximately 1200 mm/annum	
	Temperatures (December)	17° C -25° C	

	<b>Features</b>	<b>Details</b>
	Temperatures (June)	46° C
<b>9.</b>	<b>Topography</b>	
	Topo Sheet Number	64G/15
	Morphology of the Area	Gently Undulated

## **PART B – PARTICULARS OF STATUTORY APPROVALS**

	<b>Particulars</b>	<b>Details/Status</b>
1.	Forest clearance	Not Required
2.	Wild life clearance (sanctuary, reserve or special zone clearances)	Not Required
3.	Mining Plan Approval	To be obtained by the Successful Bidder
4.	Environmental clearance	To be obtained by the Successful Bidder
5.	Consent to establish	To be obtained by the Successful Bidder
6.	Explosive license	To be obtained by the Successful Bidder
7.	Permission for mine opening	To be obtained by the Successful Bidder
8.	Permission of installation/ trial operation of equipment	To be obtained by the Successful Bidder
9.	Ground water clearance (Centre/State)	To be obtained by the Successful Bidder
10.	Railway siding approval	To be obtained by the Successful Bidder
11.	Approval for diesel storage	To be obtained by the Successful Bidder
12.	Power line from State Discom	To be obtained by the Successful Bidder
13.	Clearances relating to work under an existing transmission line or shifting of the transmission line	To be obtained by the Successful Bidder
14.	<i>Grama Sabha</i> consent	To be obtained by the Successful Bidder
15.	Any other clearances to start mining	To be obtained by the Successful Bidder

## PART C – PARTICULARS OF LAND

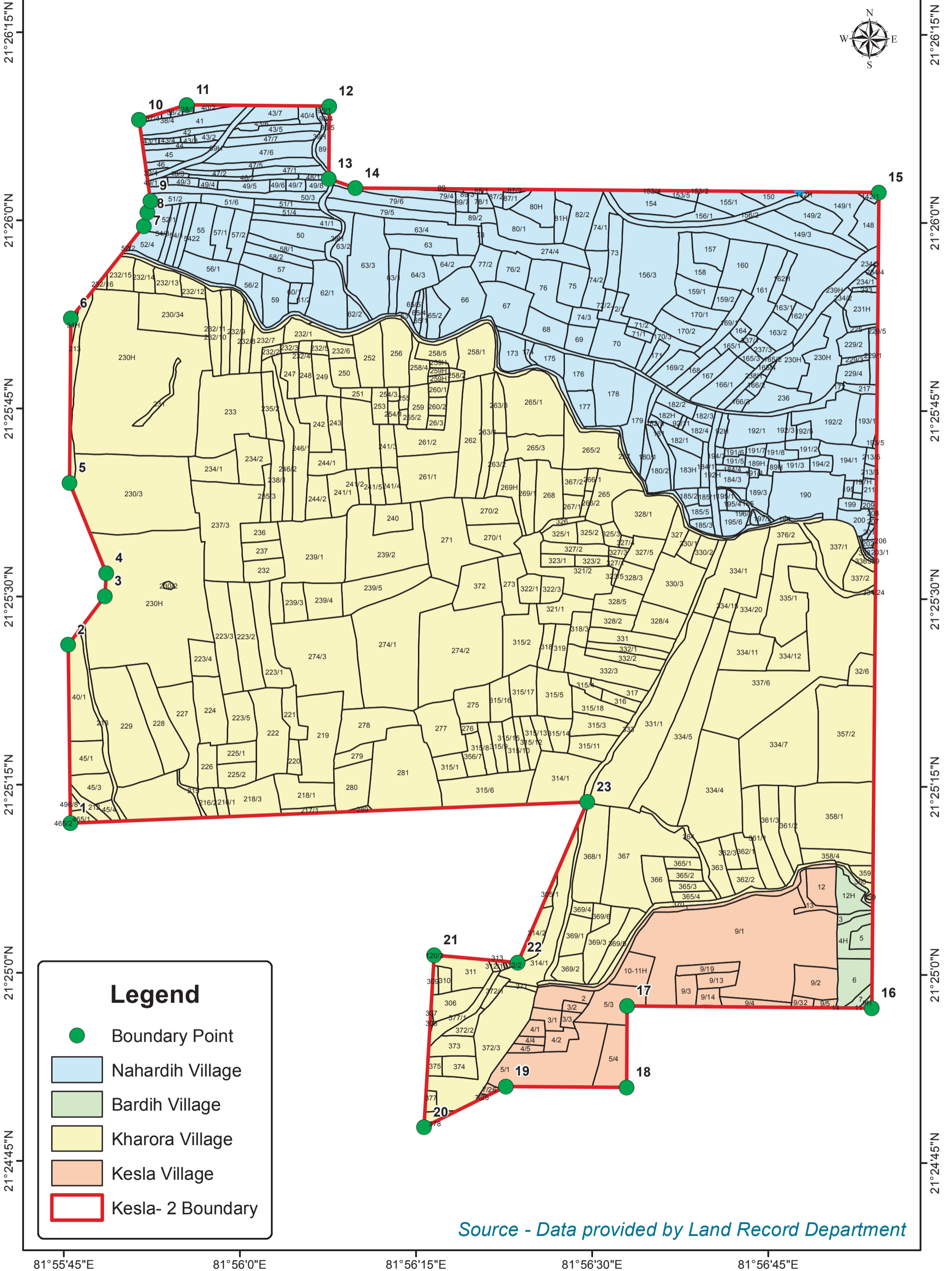
	<b>Area</b>	<b>Details</b>
1.	Total Concession Area	357.067 Ha
2.	Forest Land	NIL
3.	Government Land	35.84 Ha
4.	Private Land	321.23 Ha
5.	Revenue survey details of the area	Please refer to Land Schedule Table (Available in paid document)

**APPENDIX 1: BLOCK BOUNDARY CORNER POINTS  
KESLA-II: DGPS COORDINATES OF THE BOUNDARY PILLARS**

<b>Corner Point</b>	<b>Latitude</b>	<b>Longitude</b>	<b>Easting</b>	<b>Northing</b>
1	21° 25' 11.950" N	81° 55' 45.452" E	596310.60050	2368915.06400
2	21° 25' 26.177" N	81° 55' 45.216" E	596301.21520	2369352.45970
3	21° 25' 30.056" N	81° 55' 48.352" E	596390.80640	2369472.25690
4	21° 25' 31.875" N	81° 55' 48.434" E	596392.81200	2369528.19480
5	21° 25' 39.071" N	81° 55' 45.296" E	596301.17290	2369748.92590
6	21° 25' 52.200" N	81° 55' 45.375" E	596301.04710	2370152.61790
7	21° 25' 59.565" N	81° 55' 51.588" E	596478.57780	2370380.11520
8	21° 26' 0.660" N	81° 55' 51.887" E	596486.97840	2370413.84910
9	21° 26' 1.585" N	81° 55' 52.118" E	596493.46760	2370442.33370
10	21° 26' 8.052" N	81° 55' 51.128" E	596463.77990	2370641.00350
11	21° 26' 9.246" N	81° 55' 55.185" E	596580.35120	2370678.41030
12	21° 26' 9.179" N	81° 56' 7.342" E	596930.33830	2370678.41270
13	21° 26' 3.393" N	81° 56' 7.305" E	596930.34010	2370500.50190
14	21° 26' 2.662" N	81° 56' 9.601" E	596996.56770	2370478.42870
15	21° 26' 2.410" N	81° 56' 54.195" E	598280.34970	2370478.41500
16	21° 24' 57.366" N	81° 56' 53.774" E	598280.33840	2368478.41450
17	21° 24' 57.484" N	81° 56' 32.936" E	597680.34970	2368478.42900
18	21° 24' 50.979" N	81° 56' 32.895" E	597680.36950	2368278.41200
19	21° 24' 51.037" N	81° 56' 22.597" E	597383.88380	2368278.41200
20	21° 24' 47.752" N	81° 56' 15.653" E	597184.56300	2368176.21400
21	21° 25' 1.490" N	81° 56' 16.477" E	597205.75300	2368598.76800
22	21° 25' 0.924" N	81° 56' 23.598" E	597410.86700	2368582.59400
23	21° 25' 13.744" N	81° 56' 29.497" E	597578.35100	2368977.78700

# CADASTRAL MAP OF KESLA- II BLOCK

81°55'45"E      81°56'0"E      81°56'15"E      81°56'30"E      81°56'45"E



## Legend

- Boundary Point
- Nahardih Village
- Bardih Village
- Kharora Village
- Kesla Village
- Kesla- 2 Boundary

Source - Data provided by Land Record Department

81°55'45"E      81°56'0"E      81°56'15"E      81°56'30"E      81°56'45"E