

EXECUTIVE SUMMARY OF DRAFT EIA REPORT

FOR

Environmental Clearance for Proposed Nardaha & Dhansuli Limestone Mining Project

(Minor mineral)

Total Mine area is 23.323 Hect.

At

**Near Village:-Nardaha&Dhansuli, Tehsil-Arang,
District-Raipur, State- Chhattisgarh**

APPLICANTS

FOR

Mining Lease Cluster Area :181.546 Ha.

Project Cost : Rs. 997.72 Lakh

Category –B1

ENVIRONMENTAL CONSULTANT



Environmental Consultancy & Laboratory
(Lab. Gazetted by MoEF-Govt. of India)

M/s. ULTRA-TECH

ENVIRONMENTAL LABORATORY AND CONSULTANCY

NABET Accredited EIA Consulting Organization

NABET Accreditation Number: NABET/EIA/2023/RA019-Rev 01

Valid Upto - Oct 18,2024

TABLE OF CONTENTS

EXECUTIVE SUMMARY	4
1.1 INTRODUCTION.....	4
1.1.1 PROJECT LOCATION -	4
1.2 PROJECT DESCRIPTION	11
1.2.1 Water Requirement	15
1.2.2 Power Requirement	18
1.3 DESCRIPTION OF ENVIRONMENT	19
1.3.1 Meteorology.....	19
1.3.2 Air Environment	20
1.3.3 Noise Environment.....	21
1.3.4 Water Environment.....	21
1.3.5 Soil Quality	21
1.3.6 Land Use/Land Cover of the Study Area	21
1.3.7 Biological Environment	22
1.3.8 Socio-economic Environment	22
1.4 ANTICIPATED ENVIRONMENT IMPACTS AND ENVIRONMENT MANAGEMENT PLAN.....	24
1.5 ENVIRONMENTAL MONITORING PROGRAM.....	27
1.6 RISK ASSESSMENT	27
1.7 EMERGENCY RESPONSE AND DISASTER MANAGEMENT PLAN.....	27
1.8 PROJECT BENEFITS	27
1.9 BUDGET FOR SOCIAL DEVELOPMENT	28
1.10 ENVIRONMENT MANAGEMENT PLAN (EMP)	28
1.11 CONCLUSION	29

LIST OF TABLES

Table 1.1: Environmental Setting around Project Site.....	6
Table 1.2: Salient Features of the Proposed Mining Project	12
Table 1.2 A: Water Requirement Details for (Anil Janghel).....	15
Table 1.2 B: Water Requirement Details for (M/s. Mahamaya minerals).....	15
Table 1.2.C: Water Requirement Details for (Vasudev Pritwani).....	16
Table 1.2.D: Water Requirement Details for (Kamlesh Athwani).....	16
Table 1.2.E: Water Requirement Details for (Abdul Malik).....	16
Table 1.2.F: Water Requirement Details for (Prakash Bajaj).....	17
Table 1.2.G: Water Requirement Details for (Abhay Athwani).....	17
Table 1.2.H: Water Requirement Details for (Anuj Badwani).....	17
Table 1.2.I: Water Requirement Details for (Gulshan Nagdev).....	18
Table 1.3: Manpower Detail of Nardaha & Dhansuli Lime stone Mine	19
Table 1.3.1: Meteorological Data of the study area (IMD – Raipur.....	19

LIST OF FIGURE

Figure 1.1: Location Map of Proposed Project Site.....	5
Figure 1.2: LULC Classification (10 km Radius Proposed Project Area	22
Figure 1.3: Villages within 10 km Radius Area from Project Site	23

EXECUTIVE SUMMARY

1.1 Introduction

The propose Limestone mine mineral project of 23.323 ha situated near Village- Nardaha & Dhansuli , Tehsil-Arang, District – Raipur, State-Chhattisgarh. The Proposed Lease is issued in favour of Anil Janghel, M/s. Mahamaya Minerals, Kamlesh Athwani, Vasudev Pritwani, Abdul Malik, Prakash Bajaj, Abhay Athwani, Anuj badwani & Gulshan Nagdev respectively. TOR issued in favour of project proponent whose details as follow:

Details of TOR		
S.no.	Name of Applicant	TOR letter no.
1.	Anil Janghel	vide letter no.- 1881/S.E.A.C.C.G./Mine/2085 Nawa Raipur Atal Nagar, dated 05/01/2023.
2.	M/s. Mahamaya Minerals	Vide letter no. 538/S.E.A.C.C.G/Mine/ 1860 Nawa Raipur Atal Nagar, Dated 06/06/2023
3.	Kamlesh Athwani	Vide letter no. 940/S.E.A.C.C.G/Mine/ 2327 Nawa Raipur Atal Nagar, Dated 12/07/2023
4.	Vasudev Pritwani	Vide letter no. 863/S.E.A.C.C.G/Mine/ 2342 Nawa Raipur Atal Nagar, Dated 06/07/2023
5.	Abdul Malik	Vide letter no. 2716/S.E.A.C.C.G/Mine/ 2079 Nawa Raipur Atal Nagar, Dated 23/03/2023
6.	Prakash Bajaj	vide letter no. - 1532/S.E.A.C.C.G./Mine/1863 Nawa Raipur Atal Nagar, dated 08/12/2022.
7.	Abhay Athwani	vide letter no. - 48/S.E.A.C.C.G./Mine/2010 Nawa Raipur Atal Nagar, dated 03/04/2023.
8.	Anuj Badwani	vide letter no. - 1529/S.E.A.C.C.G./Mine/2014 Nawa Raipur Atal Nagar, dated 08/12/2022.
9.	Gulshan Nagdev	vide letter no. - 1803/S.E.A.C.C.G./Mine/2055 Nawa Raipur Atal Nagar, dated 26/12/2022.

This mining project comes under Category ‘B1’ (Cluster situation) Project or activity 1(a) as per EIA Notifications 2006, and its subsequent amendments and will be appraised at SEAC, Chhattisgarh. The lease is falling in the cluster as per 15th January 2016 EIA Notification of MoEF&CC and NGT order dated 13th September 2018.

1.1.1 Project Location -

The proposed project of Dhansuli Limestone Mine having an area of 1.19 ha, 3.880 ha, 3.238ha, 3.180ha, 1.60ha & Nardaha Limestone Mine having area of 2.744 ha, 2.819 ha, 2.00 ha, 2.672 ha situated at Village–Dhansuli & Nardaha, Tehsil–Arang, District:-

Draft EIA Report for Dhansuli Limestone Mine & Nardaha Limestone Mine at Village- Dhansuli & Nardaha, Tehsil-Arang , District- Raipur , State- Chhattishgarh .

Raipur , State:- Chattishgarh under Khasra No. 818,870,871, (new 913, 926, 927), 707/2, 708, 709/1, 711/1, 711/2, 711/3, 712, 713, 756/1, 756/2 , 576, 653Part,915, 916/1, 705, 706, 716 (Dhansuli Limestone Mine) & 1972, 1980,1982 ,1960, 1961/2, 1949, 1950, , 1948 (part) (Nardaha Limestone Mine). Mine featured in the Survey of Indian Toposheet No. 64G/11, 64G/12, 64G/15, 64G/16.

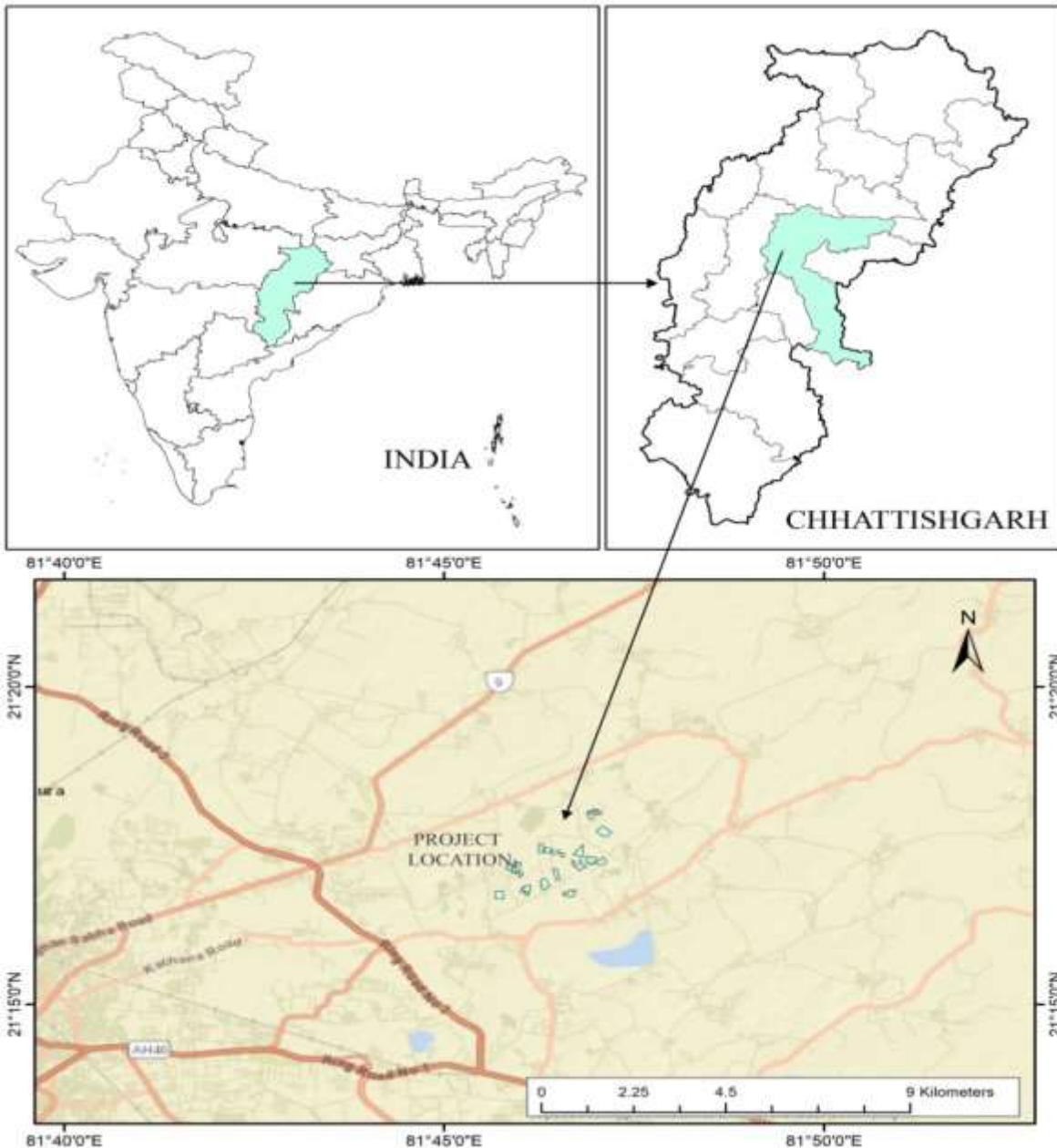


Figure 1.1: Location Map of Proposed Project Site

Draft EIA Report for Dhansuli Limestone Mine & Nardaha Limestone Mine at Village- Dhansuli & Nardaha, Tehsil- Arang , District- Raipur , State- Chhattishgarh .

Table 1.1: Environmental Setting of Proposed limestone Mining Projects

Particulars	Details		
Name of the Project	Dhansuli Limestone Mine & Nardaha Limestone Lime		
Location of the Project	Village- Dhansuli & Nardaha, Tehsil- Arang, District- Raipur, State- Chhattisgarh		
Geographical Coordinates:	Anil Janghel		
	Boundary Points	Latitude	Longitude
	BL1	21°16'47.65"N	81°45'59.90"E
	BL2	21°16'47.67"N	81°46'3.05"E
	BL3	21°16'45.31"N	81°46'6.68"E
	BL4	21°16'44.37"N	81°46'6.51"E
	BL5	21°16'43.26"N	81°46'7.40"E
	BL6	21°16'43.31"N	81°46'3.97"E
	BL7	21°16'45.85"N	81°46'3.25"E
	BL8	21°16'46.29"N	81°45'59.78"E
	Prakash Bajaj		
	Boundary Points	Latitude	Longitude
	BL1	21°17'25.46"N	81°46'25.18"E
	BL2	21°17'21.79"N	81°46'25.20"E
	BL3	21°17'23.09"N	81°46'31.62"E
	BL4	21°17'19.28"N	81°46'32.13"E
	BL5	21°17'19.34"N	81°46'33.65"E
	BL6	21°17'20.31"N	81°46'35.25"E
	BL7	21°17'22.20"N	81°46'34.95"E
	BL8	21°17'22.23"N	81°46'34.47"E
	BL9	21°17'22.95"N	81°46'34.37"E
BL10	21°17'22.96"N	81°46'31.83"E	
BL11	21°17'26.15"N	81°46'31.22"E	
Anuj Badwani			
Boundary Points	Latitude	Longitude	
BL1	21°17'27.58"N	81°46'24.36"E	
BL2	21°17'28.19"N	81°46'19.30"E	
BL3	21°17'23.70"N	81°46'18.89"E	
BL4	21°17'23.35"N	81°46'24.13"E	
Abhay Athwani			
Boundary Points	Latitude	Longitude	
BL1	21°16'58.28"N	81°46'31.32"E	
BL2	21°17'8.44"N	81°46'28.84"E	

Particulars	Details		
	BL3	21°17'8.45"N	81°46'26.24"E
	BL4	21°16'58.72"N	81°46'27.75"E
	BL5	21°16'57.44"N	81°46'28.58"E
	M/s. Mahamaya Minerals		
	Boundary Points	Latitude	Longitude
	BL1	21°17'14.76"N	81°45'57.92"E
	BL2	21°17'14.47"N	81°45'56.60"E
	BL3	21°17'13.27"N	81°45'56.59"E
	BL4	21°17'11.41"N	81°45'57.17"E
	BL5	21°17'7.18"N	81°45'57.29"E
	BL6	21°17'7.15"N	81°45'56.84"E
	BL7	21°17'6.14"N	81°45'56.87"E
	BL8	21°17'5.89"N	81°45'55.96"E
	BL9	21°17'3.61"N	81°45'56.13"E
	BL10	21°17'3.63"N	81°45'57.83"E
	BL11	21°17'5.16"N	81°45'57.94"E
	BL12	21°17'5.19"N	81°45'58.84"E
	BL13	21°17'3.69"N	81°45'58.90"E
	BL14	21°17'3.69"N	81°45'59.53"E
	BL15	21°17'0.05"N	81°45'59.40"E
	BL16	21°17'0.05"N	81°45'59.96"E
	BL17	21°17'2.87"N	81°46'2.16"E
	BL18	21°17'5.21"N	81°46'2.10"E
	BL19	21°17'5.25"N	81°45'59.57"E
	BL20	21°17'11.56"N	81°46'0.57"E
	BL21	21°17'13.41"N	81°46'0.65"E
	BL22	21°17'14.35"N	81°46'0.62"E
	BL23	21°17'14.62"N	81°46'0.31"E
	BL24	21°17'14.20"N	81°45'59.72"E
	BL25	21°17'13.64"N	81°45'59.68"E
	BL26	21°17'13.46"N	81°45'57.91"E
	Kamlesh Athwani		
	Boundary Points	Latitude	Longitude
	BL1	21°16'46.64"N	81°45'40.28"E
	BL2	21°16'46.53"N	81°45'43.27"E
	BL3	21°16'46.40"N	81°45'43.51"E
	BL4	21°16'46.48"N	81°45'46.29"E
	BL5	21°16'42.80"N	81°45'46.12"E
	BL6	21°16'42.74"N	81°45'46.79"E
	BL7	21°16'39.83"N	81°45'46.71"E
	BL8	21°16'39.96"N	81°45'40.82"E

Particulars	Details		
	Vasudev Pritwani		
	Boundary Points	Latitude	Longitude
	BL1	21°16'45.84"N	81°46'6.55"E
	BL2	21°16'46.49"N	81°46'6.48"E
	BL3	21°16'46.65"N	81°46'7.14"E
	BL4	21°16'47.04"N	81°46'7.08"E
	BL5	21°16'47.39"N	81°46'8.33"E
	BL6	21°16'48.56"N	81°46'8.05"E
	BL7	21°16'50.54"N	81°46'8.48"E
	BL8	21°16'52.72"N	81°46'8.53"E
	BL9	21°16'52.45"N	81°46'4.26"E
	BL10	21°16'52.16"N	81°46'4.29"E
	BL11	21°16'52.16"N	81°46'3.91"E
	BL12	21°16'51.54"N	81°46'3.42"E
	BL13	21°16'50.83"N	81°46'3.49"E
	BL14	21°16'50.84"N	81°46'1.33"E
	BL15	21°16'49.76"N	81°46'1.33"E
	BL16	21°16'49.11"N	81°46'2.30"E
	BL17	21°16'48.39"N	81°46'1.91"E
	BL18	21°16'47.71"N	81°46'1.77"E
	BL19	21°16'47.67"N	81°46'3.05"E
	BL20	21°16'45.91"N	81°46'5.37"E
	Abdul Malik		
	Boundary Points	Latitude	Longitude
	BL1	21°17'11.35"N	81°45'56.69"E
	BL2	21°17'11.25"N	81°45'55.75"E
	BL3	21°17'10.08"N	81°45'55.81"E
	BL4	21°17'9.99"N	81°45'55.19"E
	BL5	21°17'10.38"N	81°45'55.22"E
	BL6	21°17'10.71"N	81°45'53.98"E
	BL7	21°17'9.57"N	81°45'53.94"E
	BL8	21°17'8.20"N	81°45'54.14"E
	BL9	21°17'7.46"N	81°45'54.34"E
	BL10	21°17'7.03"N	81°45'54.34"E
	BL11	21°17'6.84"N	81°45'54.27"E
	BL12	21°17'5.96"N	81°45'54.02"E
	BL13	21°17'4.27"N	81°45'54.12"E
	BL14	21°17'4.03"N	81°45'56.02"E
	BL15	21°17'5.40"N	81°45'56.00"E
	BL16	21°17'5.40"N	81°45'56.55"E

Particulars	Details		
	BL17	21°17'6.57"N	81°45'56.49"E
	BL18	21°17'6.56"N	81°45'57.25"E
	BL19	21°17'9.69"N	81°45'57.16"E
	BL20	21°17'9.66"N	81°45'56.78"E
	Gulshan Nagdev		
	Boundary Points	Latitude	Longitude
	BL1	21°17'23.72"N	81°46'15.04"E
	BL2	21°17'23.67"N	81°46'18.61"E
	BL3	21°17'31.67"N	81°46'18.76"E
	BL4	21°17'31.53"N	81°46'14.66"E
BL5	21°17'27.82"N	81°46'14.78"E	
Maximum Temperature	37.33° C		
Minimum Temperature	3.66° C		
Annual rainfall	1193.40 mm		
Size of the Project	1.19 ha, 3.880 ha, 3.238ha, 3.18ha, 1.60ha & 2.744 ha, 2.819 ha, 2.00 ha , 2.672 ha.		
Nearest Highway	Dhansuli Limestone Mine	Nardaha Limestone Mine	
	<i>Anil Janghel</i> NH-53 at 5.20 km toward South (Raipur – Vishakhapatnam Road), SH- 9 at 3.70 km towards north – west (Raipur-balodabazar road)	<i>Prakash Bajaj</i> NH-53 at 6.50 km toward South (Raipur – Arang Road), SH-9at 4.10 km towards north- west (Raipur-balodabazar road)	
	<i>M/s. Mahamaya Minerals</i> NH-53 at 5.70 km toward South (Raipur – Arang Road), SH 9 at 3.40kmtowardswest (Raipur-Balodabazar road)	<i>Abhay Athwani</i> NH-53 at 5.80 km toward South (Raipur – Arang Road), SH9 at 4.20 km towards west(Raipur- Balodabazar road)	
	<i>Kamlesh Athwani</i> NH-53 at 4.90 km toward South (Raipur – Mahasamund Road), SH 9 at 3.20km towards North - west (Raipur-Balodabazar road)	<i>Anuj Badwani</i> NH-53 at 6.60 km toward South (Raipur – Arang Road), SH9 at 3.90 km towards west(Raipur-Balodabazar Road).	
	<i>Vasudev Pritwani</i> NH-53 at 5.30 km toward South (Raipur – Vishakhapatnam Road), SH 9 at 3.70km towards north - west (Raipur-	<i>Gulshan Nagdev</i> NH-53 at 6.50 km toward South (Raipur – Arang Road), SH9at3.80kmtowardsnorth-west(Raipur-	

Particulars	Details	
	Balodabazar road) <i>Abdul Malik</i> NH-53 at 5.80 km toward South (Raipur – Arang Road), SH 9 at 3.35 km towards west (Raipur-Balodabazar road)	Balodabazarroad)
Nearest railway station	Dhansuli Limestone Mine <i>Anil Janghel</i> Mandir Hasaud Railway Station at 5.85 km towards south	Nardaha Limestone Mine <i>Prakash Bajaj</i> Mandir Hasaud Railway Station at 6.90 km towards south
	<i>M/s. Mahamaya Minerals</i> Mandir Hasaud Railway Station at 6.30 km towards south	<i>Abhay Athwani</i> Mandir Hasaud Railway Station at 6.30 km towards south
	<i>Kamlesh Athwani</i> Mandir Hasaud Railway Station at 5.90 km towards south	<i>Anuj Badwani</i> Mandir Hasaud Railway Station at 7.00 km towards south
	<i>Vasudev Pritwani</i> Mandir Hasaud Railway Station at 5.90 km towards south	<i>Gulshan Nagdev</i> Mandir Hasaud Railway Station at 7.10 km towards south
	<i>Abdul Malik</i> Mandir Hasaud Railway Station at 5.90 km towards south	
Nearest Airport	Swami Vivekananda Airport, Raipur – 12.00 km in SSW	
Nearest town/City	Raipur – 15.00 Km in WSW	
Major water body within 10 km radius	Canal – 850 m towards west Kurud Reservoir - 3.00 km towards south-east Kharun river – 19.00 Km towards south-west	
Densely populated or built-up area	Raipur – 4.00 Km towards SSW	
Archaeologically important places	None within 10 km radius	
Protected areas as per Wildlife Protection Act (Tiger reserve, Elephant reserve, Biospheres, National parks, Wildlife sanctuaries, community reserves and conservation reserves)	None within 10 km radius	

Particulars	Details		
Reserved / Protected Forests	Mohrenga P.F	18.55 km	
	Khaulidabri P.F	17.7 km	
Defense Installations	None within 10 km radius		
Seismicity	Since project site comes under Seismic zone II, which is least active zone for earthquakes as per IS: 1893 (Part 1: 2002).		
Wildlife Sanctuary	None within 10 km radius		
National Park	None within 10 km radius		
Biosphere reserves	None within 10 km radius		
Important migration routes of birds	None within 10 km radius		
Ramsar sites (Wetlands of International Importance)	None within 10 km radius		
Unique or threatened ecosystems	None within 10 km radius		
Important topographical features, including ridges, river valleys, shorelines, and riparian areas	None within 10 km radius		
Mangrooves	None within 10 km radius		
Physical Sensitive Receptors	None within 10 km radius		
Notified Ground Water Zone by CGWA	None within 10 km radius		
Critically Environmental polluted Area	None within 10 km radius		
Pollution Sources	None within 10 km radius		

1.2 Project Description

The proposed project of Dhansuli Limestone Mine having an area of 1.19 ha, 3.880 ha, 3.238ha, 3.180ha, 1.60ha & Nardaha Limestone Mine having area of 2.744 ha, 2.819 ha, 2.00 ha, 2.672 ha situated at Village–Dhansuli & Nardaha, Tehsil–Arang, District:- Raipur , State:- Chhattishgarh under Khasra No. 818, 870, 871, (new 913, 926, 927), 707/2, 708, 709/1, 711/1, 711/2, 711/2, 711/3, 712, 713, 756/1, 756/2 , 576, 653 Part,915, 916/1, 705, 706, 716 (Dhansuli Limestone Mine) & 1972, 1980, 1982 ,1960, 1961/2, 1949, 1950, 1948 (part) (Nardaha Limestone Mine) . The proposed method of mining is open cast semi mechanized mining.

Table 0.2: Salient Features of the Proposed Mining Project

INFORMATION	DETAILS
Name of the project	1.Dhansuli Limestone Mine 2.Nardaha Limestone Mine
Village	Dhansuli &Nardaha
Tahsil	Arang
District	Raipur
State	Chhattisgarh
Toposheet No	64 G/11, 64G/12, 64G/15, 64G/16
Name of Leaseholders	1. Anil Janghel 2. M/s. Mahamaya Minerals 3. Kamlesh Athwani 4. Vasudev Pritwani 5. Abdul Malik 6. Prakash Bajaj 7. Abhay Athwani 8. Anuj Badwani 9. Gulshan Nagdev

Address and Contact details of Lease Holders	Anil Janghel S/o Late Shri Bhagatram Janghel, City- I/16, Gali no.- 2, Shri Ram Nagar Face-1, Shankar Nagar Raipur, Tehsil & District- Raipur (C.G)	M/s. Mahamaya Minerals Partner - Vivek Agrawal S /o- Shri Ishwar ChandaAgrawal, City- House No. 25, Banayan Tree Society , Khamhardih Sankar Nagar Tehsil & District- Raipur (C.G)
	Kamlesh Athwani S/o Late Shri Gurmukh Das Athwani City– Sarthi Chowk, Kanhaiya Cloth Store Lakhe Nagar, Raipur Tehsil- Raipur, District- Raipur (C.G.),	Vasudev Pritwani S/o Late Shri Atthumal Pritwani City– Lakhe Nagar Raipur Tehsil- Raipur, District- Raipur (C.G.), 492001
	Abdul Malik S/o Musa Bhai City– 6 Golden Homes, Khamardih Raipur Tehsil- Raipur, District- Raipur (C.G.),	Prakash Bajaj S/o Shri Manghanmal Bajaj Gali No. 3, Fafadih ,Raipur Tehsil & District- Raipur(C.G)
	Anuj Badwani S/o. Shri Anil Badwani City- Phaphadih Naka, Gali No. 4 Tehsil& District – Raipur (C.G)	Abhay Athwani S/o Late Shri Inder Kumar Athwani Flat No. 204, Tower B, Village/city – Raipur , Tehsil- Raipur, District- Raipur (C.G)
	Gulshan Nagdev S/o- Shri Indra Kumar Nagdev Kachhari Chowk, Jail Road Tehsil & District- Raipur (C.G)	
	Name of the Mineral to be mined	Limestone
Type of land	Dhansuli Limestone Mine Anil Janghel (Govt. Land) M/s. Mahamaya Minerals (Pvt. Land) All Nardaha Limestone Mine (Non forest Private land)	
Status of Operation (New Project or Existing Project operating since)	New Project & Existing Project	
Mine Area	Name	Mine Area
	Anil Janghel	1.190 Hect.
	M/s. Mahamaya Minerals	3.880 Hect.
	Kamlesh Athwani	3.238 Hect.

Draft EIA Report for Dhansuli Limestone Mine & Nardaha Limestone Mine at Village- Dhansuli & Nardaha, Tehsil- Arang , District- Raipur , State- Chhattishgarh .

	Vasudev Pritwani	3.180 Hect.	
	Abdul Malik	1.60 Hect.	
	Prakash Bajaj	2.744 Hect.	
	Abhay Athwani	2.819 Hect	
	Anuj Badwani	2.00 Hect.	
	Gulshan Nagdev	2.672 Hect.	
	Total Area	23.323 Hect	
Ultimate depth of mining	Name	Depth	
	Anil Janghel	21.0 m	
	M/s. Mahamaya Minerals	25.0 m	
	Kamlesh Athwani	30.0 m	
	Vasudev Pritwani	20.0 m	
	Abdul Malik	26.0 m	
	Prakash Bajaj	25.0 m	
	Abhay Athwani	25.0 m	
	Anuj Badwani	25.0 m	
	Gulshan Nagdev	25.0 m	
Mineable Reserve & Production Capacity	Name	Mineable Reserve(in MT)	Production Capacity(in TPY)
	Anil Janghel	1,18,763	23,890
	M/s. Mahamaya Minerals	8,45,200.00	1,00,494
	Kamlesh Athwani	18,02,722.75	1,12,670
	Vasudev Pritwani	7,00,563.75	79,845
	Abdul Malik	1,99,452.50	11,050
	Prakash Bajaj	5,36,422.50	53,046.88
	Abhay Athwani	5,57,405.00	90,008
	Anuj Badwani	5,97,282.50	61,997
	Gulshan Nagdev	2,84,380.00	35,458
Life of Mine	Anil Janghel - 35 YEAR As per lease deed of all Mines -30 years, except Anil Janghel which is 35 year.		
Quantity of topsoil and Overburden estimated to be removed	Name	Top Soil (Cum)	Overburden(Cum)
	Anil Janghel	4349.00	Nil
	M/s. Mahamaya Minerals	6028.00	18,083.00
	Kamlesh Athwani	Nil	Nil
	Vasudev Pritwani	3840.25	3840.25
	Abdul Malik	Nil	Nil
	Prakash Bajaj	6491.00	Nil
	Abhay Athwani	3739.75	11219.25
	Anuj Badwani	3726.50	3726.50
	Gulshan Nagdev	1691.50	5074.50

Draft EIA Report for Dhansuli Limestone Mine & Nardaha Limestone Mine at Village- Dhansuli & Nardaha, Tehsil- Arang, District- Raipur, State- Chhattishgarh.

Depth of Ground Water Table	Approx. 40 meters of below from the normal surface level
Method of Mining	Opencast Semi-Mechanized
SeismicZone	Seismic Zone II

1.2.1 Water Requirement

The total water requirement shall be 39.00 KLD and 26.50 KLD for Dhansuli Limestone Mine & Nardaha Limestone Mine respectively for domestic, green belt and sprinkling purpose, which will be sourced from Water Tankers from nearby village. Detail of water requirement is given below:

Table 1.2 A: Water Requirement Details (Anil Janghel)

Sr. No.	Usage	Water Requirement	
1.	Dust Suppression @ 1 L/Sq.m (twice a day)	Haul road Area = (1000m Length x 4 m width = 4000 sqm.) x 1 li/sqm = 2000 lit /day x 1 time = 4000 lit/day	4.00 KLD
2.	Greenbelt Development @ 2.5 L/tree	654 Trees X 2.5 Lit/day = 1635 Lit/day or say 2 KLD	2.00 KLD
3.	Domestic Purpose @ 25 lpd/worker	14 workers x 25 lit per day = 350 Lit/Day	0.50 KLD
Total ::			6.50 KLD

Table 1.2 B: Water Requirement Details (M/s Mahamaya Minerals)

Sr. No.	Usage	Water Requirement	
1.	Dust Suppression @ 0.25 L/Sq.m (twice a day)	Haul road Area = (1500 m Length x 5m width = 7500 sqm.) x 0.25 li/sqm = 1875 lit /day x 2 time = 3750 lit/day or say 4.00 KLD	4.00 KLD
2.	Greenbelt Development @ 2.0 L/tree	2094 Trees X 2.0 Lit/day = 4188 Lit/day or say 4.20 KLD	4.20 KLD
3.	Domestic Purpose @ 25 lpd/worker	32 workers x 25 lit per day = 800 Lit/Day	0.80 KLD
Total ::			9.00 KLD

Table 1.2 C : Water Requirement Details (Kamlesh Athwani)

Sr. No.	Usage	Water Requirement	
1.	Dust Suppression @ 0.5 L/Sq.m (twice a day)	Haul road Area = (1000 m Length x 4 m width = 4000 sqm.) x 0.5li/sqm = 2000 lit /day x 2 time = 4000 lit/day	4.00 KLD
2.	Greenbelt Development@ 2.5L/tree	1077 Trees X 2.5 Lit/day = 2,692.5 Lit/day or say 3.00 KLD	3.00 KLD
3.	Domestic Purpose @25 lpd/worker	24 workers x 25 lit per day = 600 Lit/Day	1.00 KLD
Total ::			8.00 KLD

Table 1.2 D : Water Requirement Details (Vasudev Pritwani)

Sr. No.	Usage	Water Requirement	
1.	Dust Suppression @ 0.5 L/Sq.m (twice a day)	Haul road Area = (1000 m Length x 4 m width = 4000 sqm.) x 0.5li/sqm = 2000 lit /day x 2 time = 4000 lit/day	4.00 KLD
2.	Greenbelt Development@ 2.5L/tree	1179 Trees X 2.5 Lit/day = 2,947.5 Lit/day or say 3.00 KLD	3.00 KLD
3.	Domestic Purpose @25 lpd/worker	27 workers x 25 lit per day = 675 Lit/Day	1.00 KLD
Total ::			8.00 KLD

Table 1.2 E : Water Requirement Details (Abdul Malik)

Sr. No.	Usage	Water Requirement	
1.	Dust Suppression @ 0.5 L/Sq.m (twice a day)	Haul road Area = (1000 m Length x 4 m width = 4000 sqm.) x 0.5li/sqm = 2000 lit /day x 2 time = 4000 lit/day	4.00 KLD
2.	Greenbelt Development@ 2.5L/tree	1038 Trees X 2.5 Lit/day = 2,595Lit/day or say 3.00 KLD	3.00 KLD
3.	Domestic Purpose @25 lpd/worker	16 workers x 25 lit per day = 400Lit/Day	0.50 KLD
Total ::			7.50 KLD

Table 1.2 F : Water Requirement Details (Prakash Bajaj)

Sr. No.	Usage	Water Requirement	
1.	Dust Suppression @ 0.25 L/Sq.m (twice a day)	Haul road Area = (750 m Length x 5 m width = 3750 sqm.) x 0.25 li/sqm = 938 lit /day x 2 time = 1876 lit/day or say 2 KLD	2.00 KLD
2.	Greenbelt Development@ 2.5L/tree	1350 Trees X 2.5 Lit/day = 3375 Lit/day or say 3.50 KLD	3.50 KLD
3.	Domestic Purpose @25 lpd/worker	17 workers x 25 lit per day = 425 Lit/Day	0.50 KLD
Total ::			6.00 KLD

Table 1.2 G : Water Requirement Details (Abhay Athwani)

Sr. No.	Usage	Water Requirement	
1.	Dust Suppression @ 0.5 L/Sq.m (twice a day)	Haul road Area = (1000 m Length x 4 m width = 4000 sqm.) x 0.5li/sqm = 2000 lit /day x 2 time = 4000 lit/day	4.00 KLD
2.	Greenbelt Development@ 2.5L/tree	858 Trees X 2.5 Lit/day = 2145 Lit/day or say 2.50 KLD	2.50 KLD
3.	Domestic Purpose @25 lpd/worker	29 workers x 25 lit per day = 725 Lit/Day	1.00 KLD
Total ::			7.50 KLD

Table 1.2 H : Water Requirement Details (Anuj Badwani)

Sr. No.	Usage	Water Requirement	
1.	Dust Suppression @ 0.5 L/Sq.m (twice a day)	Haul road Area = (750m Length x 4 m width = 3000 sqm.) x 0.5 li/sqm =15000 lit /day x 2 time = 30000 lit/day	3.00 KLD
2.	Greenbelt Development@ 2.5L/tree	795 Trees X 2.5 Lit/day = 1987 Lit/day or say 2.00 KLD	2.00 KLD
3.	Domestic Purpose @25 lpd/worker	18 workers x 25 lit per day = 450 Lit/Day	0.50 KLD
Total ::			5.50 KLD

Table 1.2 I : Water Requirement Details (Gulshan Nagdev)

Sr. No.	Usage	Water Requirement	
1.	Dust Suppression @ 0.5 L/Sq.m (twice a day)	Haul road Area = (1000 m Length x 4 m width = 4000 sqm.) x 0.5 li/sqm = 2000 lit /day x 2 time = 40000 lit/day	4.00 KLD
2.	Greenbelt Development@ 2.5L/tree	1011 Trees X 2.5 Lit/day = 2527 Lit/day or say 3.00 KLD	3.00 KLD
3.	Domestic Purpose @25 lpd/worker	20 workers x 25 lit per day = 500 Lit/Day	0.50 KLD
Total ::			7.50KLD

1.2.2 Power Requirement

No power is required for mining purpose only for labour, admin building and for crusher plant. State electricity board will supply the electricity. Electric power is available in the lease area.

1.2.3 Manpower Requirement

The mining project will generate direct & indirect employment. Local people will get direct employment, and some persons will also be affected indirectly and employed with allied and related industries, such as transportation, maintenance, etc. Following staff & workers are proposed to be employed:

Table 1.3 : Manpower Details of Nardaha & Dhansuli Limestone Mine

S.N	Details									
	Category	No's								
		Anil Janghel	M/s. Mahamaya Minerals	Kamlesh Athwani	Vasudev Pritwani	Abdul Malik	Prakash Bajaj	Abhay Athawani	Anuj Badwani	Gulshan Nagdev
1	Mine Manager	-	-	1	-	-	-	-	-	-
2	Mining mate	1	1	1	1	-	1	1	1	1
3	Supervisor	1	1	2	1	-	1	1	1	1
4	Skilled labour	7	17	5	14	1	8	19	9	10
5	Un Skilled labour	0	1	15	-	15	0	0	0	0
6	Machine Operator	5	12	-	8	-	5	8	5	5
7	Crusher Supervisor	0	0	-	1	-	1	0	1	1
8	Crusher Operator & Assistant	0	0	-	2	-	1	0	1	2
	TOTAL	14	32	24	27	16	17	29	18	20

1.3 Description of Environment

The area around the proposed mining site has been surveyed for physical features and existing environmental scenario. The field survey and baseline monitoring has been done from the period of **December 2021 to March 2022** (Winter Season).

The observations for Winter season-(December 2021 – March 2022) are summarized below:

1.3.1 Meteorology

The secondary meteorological data of the study period collected from www.imdpune.gov.in/. The month wise meteorological data is given in Table 3.4B. The wind rose during the study period

Table 1.3.1: Meteorological Data of the study area (IMD – Raipur)

Period	Wind speed (m/s)			Temp (⁰ C)			Relative Humidity (%)			Rainfall (mm)	Solar radiation (W/m ²)		
	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg		Max	Min	Avg
Dec-2021	5.43	0.17	1.97	25.83	3.66	16.50	100	25.56	69.48	8.75	15.84	3.02	10.52
Jan-2022	4.4	0.11	2.01	26.03	4.65	16.4	100	28.6	73.08	2.6			

Draft EIA Report for Dhansuli Limestone Mine & Nardaha Limestone Mine at Village- Dhansuli & Nardaha, Tehsil- Arang , District- Raipur , State- Chhattishgarh .

Feb 2022	6.18	0.07	2.07	33.28	6.41	19.6	100	16.81	55.7	1.03			
March - 2022	4.13	0.11	2.03	37.33	13.8	24.86	86.94	12.62	44.8	0.09			

1.3.2 Air Environment

The ambient air quality is carried out at 16 locations in and around the project site and studies are carried out as per CPCB standards. It is observed that, all the values are within the prescribed limits as per National Ambient Air Quality Standards (NAAQS), 2009.

Particulate Matter (PM₁₀):

A maximum concentration of PM₁₀ is 72 µg/m³ was observed at the AAQM-1 & 4 and minimum value of 42 µg/m³ was observed at AAQM-15

Respirable Particulate Matter (PM_{2.5}):

A maximum concentration of PM_{2.5} is recorded to be 32 µg/m³ at AAQM- 5 and minimum value of 10 µg/m³ was observed at AAQM-9 - 16

Sulphur Dioxide (SO₂):

Maximum concentration of SO₂ is observed to be 19 µg/m³ at AAQM -1 & 4 and minimum value of 5 µg/m³ observed at AAQM- 11-16

Oxides of Nitrogen (NO_x):

Maximum concentration of NO_x is observed to be 19 µg/m³ at AAQM – 13 & minimum value of 6 µg/m³ observed at AAQM-2,3,6,7,8

Carbon Monoxide (CO):

Maximum concentrations in the region are observed to be 0.9 mg/m³ at AAQM-1,4,6,8,16 and minimum value of 0.3 mg/m³ observed at AAQM-.12,14.

Silica

Silica in the ambient air of the 10 Km radius of the study area of the project site has been analysed from the PM₁₀ filter paper of the Ambient Air quality monitoring stations mentioned in Table 3.5 (7601 ,Issue 3 as per NIOSH Methods). The result indicates that silica concentration in the surrounding of project site was found to be in the range of 0.1 µg/m³ to 0.5 µg/m³.

The results are compared with the standards prescribed by Central Pollution Control Board (CPCB). The overall ambient air quality around the proposed mine lease is within the limits of ambient air quality standards prescribed by CPCB.

1. 3.3 Noise Environment

Noise levels were monitored in sixteen locations including project within the study area. Then noise levels ranged between 51.0 to 60.5 dB (A) during day time and noise levels ranged between 42.5 to 52.4 dB (A) during night time. Over all the monitored noise levels are found to be within the stipulated standards set by CPCB.

1.3.4 Water Environment

In order to establish the baseline water quality, 6 ground water and 4 surface water samples were collected and analyzed in the study area. The quality of surface water samples was compared with surface water specification IS 2296:1982 and the surface water quality comes under Class D (Propagation of wildlife and fisheries). The ground water samples were compared with drinking water specification IS 10500:2012 standards.

1. 3.5 Soil Quality

A total of 16 samples in and around the project site are collected and analysed. It has been observed that the pH of the soil quality ranged from 7.0 (S9) to 7.7 (S7) indicating that the soil is slightly alkaline in nature

1.3.6 Land Use/Land Cover of the Study Area

Nardaha and Dhansuli are villages in the Arang Tehsil of the Raipur District in Chattisgarh State, India. Figure 4 depicts the village area as covered by Survey of India toposheets 64G/11, 64G/12, 64G/15, 64G/16 (SOI). Figure 11.4 shows a pie diagram of the 10-kilometer research region's land use and land cover maps. The LULC map, shown in Figure 4, shows that the analysis is separated into nine areal classes: Water body, Canal, Crop Land, Settlement, Vegetation, Fallow Land, and Mining area.

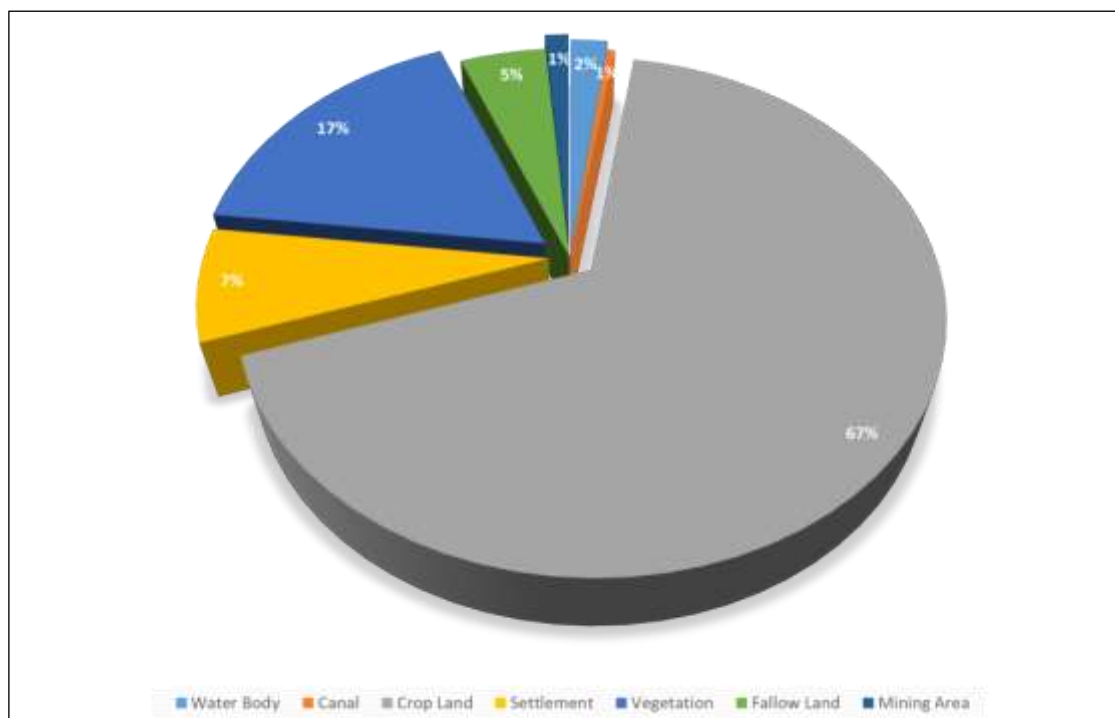


Figure1 2: LULC Classification (10 km radius Proposed Project Area)

1.3.7 Biological Environment

Study of biological environment is one of the most important aspects for Environmental Impact Assessment. In view of the need for conservation of environmental quality and biodiversity study, biological environment is one of the most important aspects for Environmental Impact Assessment. Ecological systems show complex inter-relationships between biotic and abiotic components including dependence, competition and mutualism. Biotic components comprise of both plant and animal communities, which interact not only within and between them but also with the abiotic components viz. physical and chemical components of the environment. Generally, biological communities are the indicators of climatic and edaphic factors. The biological environment includes mainly terrestrial ecosystem and aquatic ecosystem. The mining activities are one such external influence, which might affect the ecology of an area, if proper management measures are not taken.

1.3.8 Socio-economic Environment

According to recent census (2011) Population of study area is (10 Km radius from project site) 188814 in 38976 households. Male population is 95545 and female population is 93269 in the region surrounding the project location. Highest population in study area is in Mandir Hasaud (CT) (2073).

Figure 11.3 shows the village-wise population concentration in the study area selected from the project location. Based on the concentration of population within the 10 km radius of the study area, a map of the study area has been prepared. The largest number of inhabitants in Durgapur, where the project location is situated, comprising of the 5 classes of population, which shows there is high population in the blocks Mandhar, Mandir Hasaud (CT), Nardaha, and Seoni-1 (Seoni)

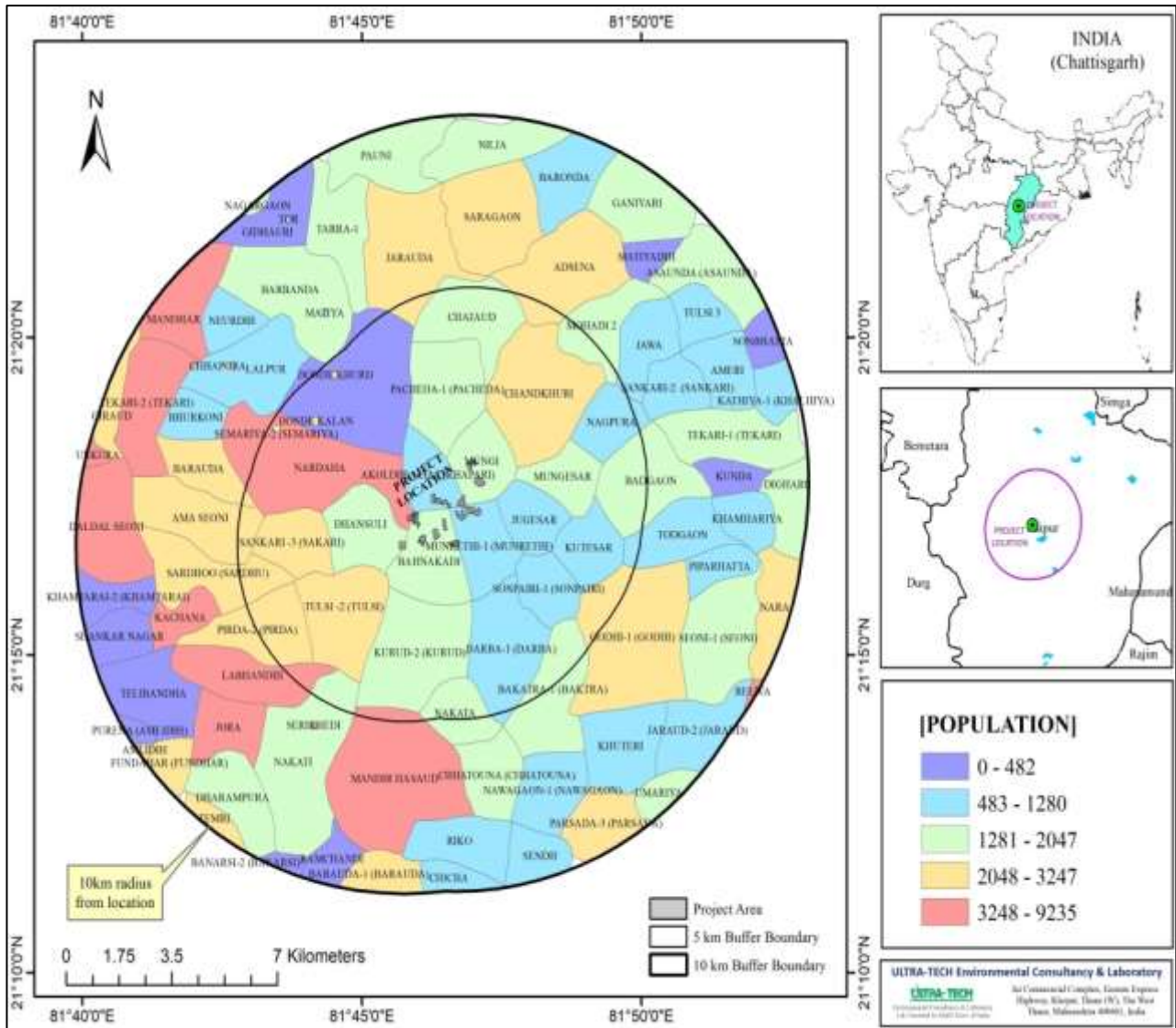


Fig . 1.3: Villages within 10 Km. Radius Area from Project Site.

1.4 Anticipated Environment Impacts and Environment Management Plan

Land/Soil Environment Impact Mitigation

The mitigation measure of the land environment includes:

- Before the mining activity the top soil will be scrapped and stored in the lease area and will be utilized for plantation purpose. Balance top soil if any preserved separately will be used to spread over partially reclaimed land.
- The limestone excavated from the lease area will be completely sellable resulting no dump within the lease area
- At the end of conceptual period the excavated quarry will converted into water reservoir to supply water for local use like irrigation and pisciculture.
- Due to manual mining operation emission from the Limestone mines are very less, there will be no impact on the surrounding soil quality and cropping pattern of the area.
- The propose project falls under the seismic zone –II (Low Hazard Risk Zone). Since this project will not have physical infrastructure to be constructed, no impact of seismicity is envisaged in this project. Further, this project will not change/alter the seismic behaviour of the area.
- *Air Impact Mitigation*

The mitigation measures undertaken in the mine for control of air pollution are:

- Checking of vehicles and machinery to ensure compliance to Indian Emission Standards
Transportation vehicles and machinery to be properly and timely maintained and serviced regularly to control the emission of air pollutants in order to maintain the emissions of NO_x and SO_x within the limits established by CPCB.
- Total 4 KLD water required for two mines towards dust suppression purpose for which 2 no. of water tanker with 2000 litre capacity will be hired and used for water sprinkling twice in a day in haul roads, dumping site, loading and unloading site of each lease within the cluster and this will be regularly monitored by the cluster management. Water sprinkling on transport road side, stock yard (if any) etc. will be done by tractor mounted water sprinkler.
- Regular compaction and grading of haul roads will be done to clear the accumulation of loose material
- All the mines workers will be provided with the dust masks.
- Trees can act as efficient biological filters. As this is a small lease, the area available for plantation is very less. However, a well-planned plantation programme has been proposed for the mining area to arrest the dust pollution within the lease boundary. There is the

proposal for continuous plantation along the cluster boundary and both side of the road connecting the cluster.

- Vehicles with valid PUC shall be used for transporting the minerals to avoid the exhaust emission.
- A greenbelt development plan is prepared with local species. The greenbelt on the periphery will reduce the dust levels.
- Sharp drill bits will be used for drilling and regrinding will be done periodically to reduce generation of dust.
- Fugitive emission by stone crusher plant will be suppressed by adopting following measures as per norms:-
 - ✓ Construction of tin walls around the crusher plant and equipment.
 - ✓ Regular cleaning and wetting of the ground within the premises.
 - ✓ Better maintenance of crusher plant and equipment will help to reduce such emissions.
 - ✓ water spray at dust generating points on crusher plant.
- Regular monitoring of the air quality as per the monitoring plan detailed in Chapter 6 of this EIA report, shall be adopted during the operation phase, to ensure that, the air quality is within the desired limits prescribed by CPCB.

Noise Impact Mitigation

- No noise polluting work shall be carried out in the night hours.
- Provision of PPE's for the workers.
- Vehicles to be serviced regularly and maintained properly to avoid any unwanted generation of noise or vibration from them.
- Green belt plantation and garden trees will help in reducing the noise, traffic related pollution and heat island effects.
- Proper lubrication, muffling and modernization of equipment shall be used to reduce the noise during operation phase.
- Vibration and noise due to blasting will be reduced by adopting controlled blasting technique.
- Blasting will be avoided under unfavourable conditions.
- Rock breakers is being/ will be used instead of secondary blasting.
- Regular monitoring of the noise levels as per the monitoring plan detailed in Chapter 6 of this EIA report, shall be adopted during the operation phase, to ensure that, the noise levels are within the limits prescribed by CPCB.

Draft EIA Report for Dhansuli Limestone Mine & Nardaha Limestone Mine at Village- Dhansuli & Nardaha, Tehsil- Arang , District- Raipur , State- Chhattishgarh .

Water Impact Mitigation

- Provision of temporary toilets for labours
- Domestic waste water will be treated into septic tank followed by soak pit outside of the proposed cluster project with a safe distance and no wastewater will be allowed to be get discharged into the water body
- All stacking and loading areas should be provided with proper garland drains
- Check dams should be provided to prevent solids from wash off.
- Construction of garland drains around freshly excavated and dumped areas so that flow of water with loose material is prevented.
- The mine water should be passed through specially constructed catch pits to arrest any loose material being carried away with water.
- Any areas with loose debris within the leasehold should be planted.
- Garland drains should be constructed surrounding the waste dumps and should be connected to the surface water reservoir to avoid the run-off mixing directly to natural water channels before settling.
- Ground water table will not be intersected during the mining activity

Biological Impact Mitigation

- Green belt will be developed along the core zone boundary which will act as a pollution barrier for the biological environment.
- The drilling and transportation will be carried out during the day time only minimizing the impact on the wild fauna movement.
- Fencing around the entire mine lease area is recommended in order to restrict the entry of stray animals into the mining area.

Socio-Economic Environment Impact Mitigation

In order to mitigate the adverse impacts likely to arise in the surrounding area due to proposed project activity, it is necessary to formulate an effective mitigation plan. The suggestions are as follows:

Before Commencing and During Initial Phase:

- Communication with the local community should be institutionalized and done on a regular basis. The forum could provide opportunities to discuss local critical issues and prepare programmers of mutual benefits.

- Information regarding the proposed development plan, community programmes etc. should be communicated to the local community.

1.5 Environmental Monitoring Program

Environmental monitoring shall be carried out at the locations to assess the environmental health in the post period. A post study monitoring programme is important as it provides useful information on the following aspects.

- It helps to verify the predictions on environmental impacts presented in this study.
- It helps to indicate warnings of the development of any alarming environmental situations, and thus, provides opportunities for adopting appropriate control measures in advance.

Detailed EMP plan during the operation phase is given chapter 6 of EIA report.

1.6 Risk Assessment

The hazards and its risk assessed during the operation phase of the proposed limestone mining project are low, medium & high. The project proponents are proposed to implement all the mitigation measures to prevent the impact or consequences of the risk expected to be happened in both the project sites. The level of impact after implementing the mitigation measures will be low/medium in all the hazards identified.

1.7 Emergency Response and Disaster Management Plan

Impact of disaster can be significantly reduced through attempts at preparedness, mitigation, and post-event rehabilitation work. Based on hazard identification in the proposed project, an emergency plan has been prepared and the same plan will be implemented by the project implementing agency with the coordination of District Authorities to minimize the damage. The risk assessment and disaster management plan is detailed in Chapter 7 of the EIA report.

1.8 Project Benefits

Mining is back bone of infra-structure development of country. Proposed project has following benefits as given below:

- Employment for local people
- Revenue for the State Government in form of excise duties, GST, taxes, levies etc.
- Generate business opportunity for the people
- Need based funds will be used for welfare of people in villages
- EMP funds will improve environmental quality.
- The operation of the limestone mining would help to improve socio-economic condition of people in villages through separate fund allocated for Need Based Activity.

1.9 Budget for Social Development

The total estimated cost of the project is 997.72 lacs . Rs 20.96 /- lac will be allocated for Need based activity for causes of village for drinking water, sanitation, education, health.

1.10 Environment Management Plan (EMP)

The detailed Environment Management Plan has been prepared based on the mining activities and the impacts imparting on land/soil, air, noise, water by the activities. The EMP and the cost for the environment protection measures are detailed in Chapter 10 of EIA report.

Expenditure Proposed for Environmental Protection Activities:

S . N o .	Particulars	Anil Janghel		M/sMahamaya Minerals		Prakash Bajaj		Abhay Athwani		Anuj Badwani		Gulshan Nagdev		Kamlesh Athwani		Vasudev Pritwani		Abdul Malik	
		Capital Cost in Rs	Recurring Cost in Rs	Capital Cost	Recurring Cost in Rs	Capital Cost in Rs	Recurring Cost in Rs	Capital Cost in Rs	Recurring Cost in Rs	Capital Cost in Rs	Recurring Cost in Rs	Capital Cost in Rs	Recurring Cost in Rs	Capital Cost in Rs	Recurring Cost in Rs	Capital Cost in Rs	Recurring Cost in Rs	Capital Cost in Rs	Recurring Cost in Rs
1	Air Pollution Control	-	72,000		72,000	-	90,000	-	72,000	-	90,000	-	72,000	-	72,000	-	72,000	-	72,000
2	Green Belt Development	55,315	1,73,350	1,95,440	2,08,850	1,20,400	2,08,850	80,080	1,83,750	68,825	1,80,540	94,360	1,91,560	1,00,480	1,94,920	1,09,915	2,00,120	96,880	1,92,930
3	Maintenance of Road	-	40,000	-	40,000	-	40,000	-	40,000	-	40,000	-	40,000	-	40,000	-	40,000	-	40,000
4	Facilities for Mine workers	50,000	63,000	50,000	1,44,000	50,000	76,500	50,000	1,30,500	50,000	81,000	50,000	90,000	50,000	1,08,000	50,000	1,21,500	50,000	72,000
	Total ::	1,05,315	3,48,350	2,45,440	4,64,850	1,70,400	4,15,350	1,30,080	4,26,250	1,18,825	3,91,540	1,44,360	3,93,560	1,50,480	4,14,920	1,59,915	4,33,620	1,46,880	3,76,930
	Total Capital Cost in Rs	13,71,695																	
	Total Recurring Cost in Rs	36,65,370																	
	Total Cost of EMP in Rs	50,37,065																	

Draft EIA Report for Dhansuli Limestone Mine & Nardaha Limestone Mine at Village- Dhansuli&Nardaha, Tehsil-Arang , District- Raipur , State- Chhattishgarh .

1.11 Conclusion

As discussed, it is safe to say that the collection of minor minerals from the proposed lease area is not likely to cause any significant impact on the ecology of the area as the mineral is and waste generated is non-toxic and does not harm the surrounding environment.

Adequate measures will be taken to control the fugitive emissions to be generating during mining operation. Socio-economic condition of the surrounding villages will improve in long run due to involvement of local population and improvement of infrastructure facilities. Green belt development in the statutory boundary, approach roads, schools are proposed with the participation of local people. This proposed plantation in the area will improve the aesthetic look along with betterment of ecology and environment of the locality.