

MCDR INSPECTION REPORT 2021-22**1.0 GENERAL**

SN	Particulars	Details
1	Name of the Mine	Matia Limestone Mine
2	Date of Inspection	10/11/2022
3	Name of Inspecting Officer	D. Dash, Senior Mining Geologist
4	Name of official accompanying inspection	Mr. Ashok Sahu (Director) & (Nominated Owner)
5	Last date of Inspection & Officer	18.01.2018 by Shri J.S.Hada, Assistant Mining Geologist
6	Total Lease Area (Ha) with breakup of Non-forest and forest land	12.137 Ha.
7	Mine code	38CHG14006
8	IBM Registration Number under rule 45 of MCDR, 1988	IBM/18221/2014
9	Name of the lessee, Address, phone, email and fax number	M/s Gangotri Limes (P) Limited Shri Ashok Kumar Sahu (Director) Ward No.-01, Donde Khurd, P.O. - Dondekala Tehsil & District-Raipur (C.G.), Pin no.-493111, Mobile No.- 8602765000 (m) Email id: bhavika1980@yahoo.com
10	Village	Matia
11	Taluka	Dharsiwa
12	District	Raipur
13	Pin code	493111
14	State	Chhattisgarh
15	Post office	Donde- Khurd
16	Nearest police station	Raipur
17	Nearest Railway station	Mandhar
18	Date of Grant of Mining Lease	10/09/1998
19	Date of Execution	50 years from 27/04/1999 to 26/04/2049.
20	Weekly day of rest	Sunday
21	Date of opening of Mine	01/11/2003
22	Date of first Renewal, if applicable and its period & expiry	NA
23	Date of second Renewal, if applicable and its period & expiry	NA
24	Date of submission of renewal application if Mining Operations are continuing under deemed extension	NA
25	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	M/s Gangotri Limes (P) Limited Shri Ashok Kumar Sahu (Director) Ward No.-01, Donde Khurd, P.O. - Dondekala Tehsil & District-Raipur (C.G.), Pin no.-493111, Mobile No.- 8602765000 (m) Email id: bhavika1980@yahoo.com
26	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	NA
27	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	None
28	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	None

29	Whether Geologist and Mining Engineer appointed in mines satisfy rule 55 and carrying out their duties as per rule 56 & 57.	None
30	Date of Approval of Review of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	DRG/LST/MPLN-598/NGP, dated- 14/10/1997
31	Date of Approval of Review of Mining Plan/Modified Review of Mining Plan with five-year period and specific condition in approval letter, if any	Raipur/LST/KhYo-1137/2017/Raipur/1017 dated 21/02/2018 Five Year (2018-19 to 2022-23)
32	Mineral(s) granted in lease and proved for mining	Limestone
33	Method of Mining(Open cast, Underground)	Open cast mining
34	Category (Fully Mechanised, Others or Manual)	A Category (Mechanized)
35	Captive/Non Captive	Non Captive
36	EC for ROM Prod: Date of Issue:	22501 Tonnes /year 16/03/2012
37	Status of Financial Assurance as	Bank Guarantee of Rs.45,00,000/- valid up to 03/05/2027

**Scientific Mining: Compliance of proposals of approved mining plan/Review of mining Plan. –
Exploration:**

SN	Item	Proposals 2021-22	Actual work 2021-22	Remarks
1a	Backlog of previous year	04 boreholes (core) were proposed during the year 2018-19	Nil	Violation of Rule 11(1) of MCDR, 2017 is pointed out.
1b	Exploration over lease area for Geological axis 1 or 2.	G1	Nil	Nil
1c	Exploration Agency & Expenditure in lakh Rupees during the year	Nil		Nil
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	9.747 ha	
1e	Balance reserves as on 01.04.2022 (million tonnes)	122 : 7.296 222 : 1.610	122: 7.789 222: 1.610	The mine was mostly non-working during the planned period.
1f	General remarks of inspecting officer on geology, exploration etc.	During the year 2013-14 & 2015-15, Mining lease area is explored by 3 core boreholes up to 30m & 45 m depth without following any grid pattern in a triangular pattern at a distance of about 200 x 300 x 450 m thus covering 2.39 ha area under G2 category. The remaining area have been explored under G1 scale of exploration by development of quarry up to quarry depth of 269 mrl except for a small patch of area on western side which is undisturbed by any mining activity. 04 boreholes were proposed during the year 2018-19 and not done during the period. Violation of Rule 11(1) of MCDR, 2017 is pointed out.		

2.0 Development:

SN	Item	Proposals 2021-22	Actual work 2021-22	Remarks
2a	Location of development w.r.t. lease area	E200 to 60, N 500 to N 100	E200 to 60, N 500 to N 100	Within the proposed area. However, 7.5 m safety barrier zone was found to be encroached at number of places between BP 9 to 19, 28 to 39, 40 to 43 by extension of pit. A ore stack has been developed on 7.5m safety barrier zone between BP 40 to 43. Violation of 11 (1) of MCDR, 2017 is pointed out.
2b	Separate benches in topsoil, overburden and mineral (Rule 13)	In mineral bench height-3m & width-3m	In mineral bench height-3m & width-3m	Separate bench for soil and mineral
2c	Stripping ratio or ore to OB ratio	1:0.00	1:0.00	Same as proposed
2d	Quantity of topsoil generation in m ³	Nil	Nil	NA
2e	Quantity of overburden generation in m ³	Nil	Nil	NA
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	The quarry development is mostly in the proposed area . However, 7.5 m safety barrier zone was found to be encroached at number of places between BP 9 to 19, 28 to 39, 40 to 43 by extending the existing pit. A ore stack has been developed on 7.5m safety barrier zone between BP 40 to 43. Violation of 11 (1) of MCDR, 2017 is pointed out.		

3.0 Exploitation

	Item	Proposals	Actual work	Remarks
3a	Number of pits proposed for production	One	One	
3b	Quantity of Limestone production proposed	1,00,000 T	6720 T	The mine was mostly non-working due to lack of market.
3c	Recovery of saleable/usable mineral from ROM production	95,000 T	6720 T	95% recovery was envisaged in approved plan.
3d	Quantity of mineral reject generation	5,000 T	Nil	5% intercalated waste generation was envisaged in approved Plan.
3e	Grade of mineral reject generation and threshold value declared	Nil	Nil	
3f	Quantity of sub-grade mineral generation	Nil	Nil	
3g	Grade of sub-grade mineral generation	Nil	Nil	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised Mining Method	Mechanised Mining Method	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	Nil	Nil	Not required for Limestone.
3j	Provision of drilling & blasting in mineral benches	Jack Hammer drilling of 32mm dia with depth of 1.5m and blasting by Emulsion explosive cartridge, one cartridge 140 gms weight and length of the cartridge is about 200mm and diameter of the cartridge is about 25mm	Jack Hammer drilling of 32mm dia with depth of 1.5m and blasting by Emulsion explosive cartridge, one cartridge 140 gms weight and length of the cartridge is about 200mm and diameter of the cartridge is about 25mm	
3k	Provision of mining machineries in mineral benches	JCB, Dumper, Tipper, Jack Hammer, Compressor, Dozer, Water Tanker	JCB, Dumper, Tipper, Jack Hammer, Compressor, Dozer, Water Tanker	

3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	In mineral bench height-3m & width-3m	In mineral bench height-3m & width-3m	
3m	Total area covered under excavation/pits	12.137 Ha.	12.137 Ha.	
3n	Ore to OB ratio for the pit/mine during the year	1:0.00	1:0.00	
3o	Total area put in use under different heads at the end of year	Pit- 8.569 Waste/reject-0.20 Ha.	Pit- 8.71 ha Mineral storage-0.0057 Ha.	Marginal deviation in respect of land use observed.
3p	Production of ROM mineral in tonnes during last five-year period, as applicable	2018-19 : 1,00,000 2019-20: 1,00,000 2020-21: 1,00,000 2021-22: 1,00,000 2022-23: 1,00,000	Nil Nil Nil 6720 11000 (up to October, 2022)	The mine was non-working for most of the planned period.
3q	General remarks of inspecting officer on method of mining etc.	Almost entire area has been degraded by development of quarry. No waste generation was observed during the visit. The mine was mostly non-working due to lack of market.		

4.0 Solid Waste Management-Dumping:

SN	Item	Proposals 2021-22	Actual work 2021-22	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	Separate stacking of top soil on 7.5m safety barrier zone between E 200 to 500 & N300 to N500	Nil	No top soil generation reported.
4b	Location of topsoil, OB & mineral reject dumps	Nil	Nil	
4c	Number of dumps within lease area and outside lease area	Nil	Nil	A temporary mineral stack was proposed on western side between E 100 to 300 & N of the lease but mineral stack has been developed on eastern side between boundary pillars 40 & 43. Violation of Rule 11(1) of MCDR, 2017 is pointed out.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Beyond UPL.	Nil	No waste dump observed.
4e	Number of active & alive dumps	Nil	Nil	No waste dump observed.
4f	Number of dead dumps	Nil	Nil	
4g	Number of dumps stabilised	Nil	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there	Nil	Nil	Not applicable.
4i	Length of Retaining wall or garland drain all along dump	Nil	Nil	

4j	Number of settling ponds	Nil	Nil	Not applicable.
4k	Specific comments of inspecting officer	A temporary mineral stack was proposed on western side between E 100 to 300 & N of the lease but mineral stack has been developed on eastern side between boundary pillars 40 & 43. Violation of Rule 11(1) of MCDR, 2017 is pointed out.		

5.0 Solid Waste Management-Backfilling:

SN	Item	Proposals 2021-22	Actual work 2021-22	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	Backfilling was proposed in 7.5m safety barrier zone between E 400 to 600 & N 500 to 300 during the period from 2018-19 to 2021-22.	No backfilling carried out.	Violation of 11 (1) of MCDR, 2017 is pointed out.
5b	Area under backfilling of mined out area	Not specific	Nil	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	Not proposed	NA	
5d	Total area fully reclaimed & rehabilitated	Not proposed	NA	
5e	General remarks of inspecting officer on backfilling, reclamation etc	Backfilling was proposed in 7.5 m safety barrier zone on north disturbed due to earlier mining activity during the period from 2018-19 to 2021-22. However, no such activity undertaken. Violation of Rule 11(1) of MCDR, 2017 is pointed out.		

6.0 Progressive Mine Closure Plan:

SN	Item	Proposals 2021-22	Actual work 2021-22	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly - Rule 26 (2).	The annual report on PMCP is submitted	The annual report on PMCP is submitted	
6b	Management of worked/mined out benches i) Area available for rehabilitation (ha) ii) Afforestation done (ha) iii) No. of saplings planted during the year iv) Cumulative no. of plants v) Any other specific method of rehabilitation vi) Cost incurred on watch & care during the year	Nil 0.0100 Ha. 50 Saplings 200 saplings Nil Nil	Nil Nil 100 Saplings 300 saplings Nil Nil	
6c	Compliance on reclamation and rehabilitation by backfilling i) Voids available for backfilling (L X B X D) ii) Void filled by waste/tailings iii) Afforestation on the backfilled area	Not Proposed	NA	

	iv) Rehabilitation by making water reservoir v) Any other specific means			
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	Not Proposed	NA	
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Not specific	Nil	
6f	General remarks of inspecting officer on PMCP compliance & progressive	Plantation of 100 saplings have been reported in Annual Return submitted for the year 2021-22.		

7.0 Mineral Conservation:

SN	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM Mineral dispatch	ROM Mineral dispatch	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Mechanised	Mechanised	
7c	Different grade of mineral sorted out at mines	Not Proposed	NA	
7d	Any beneficiation process at mines	Not Proposed	NA	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	No beneficiation or processing of mineral done within the lease area. The blasted run of mine ore is directly saleable.		

8.0 Environment:

SN	Item	Proposals 2021-22	Actual work 2021-22	Remarks
8a	Separate removal and utilization of topsoil	Proposed	Nil	No top soil generation reported during the year.
8b	Concurrent use or storage of topsoil	Not Proposed	NA	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Proposed	done.	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Proposed	done.	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Not Proposed	NA	

8f	Baseline information on existence of plantation & additional plantation done	50	100	
8g	Survival rate	50%	50%	
8h	Water sprinkling on roads to control airborne dust	Water sprinkling on roads to control airborne dust	Water sprinkling on roads to control airborne dust	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines are	No top soil generation reported during the year 2021-22.		

9.0 Compliance of Rule 45:

S.N.	Item	COMMENTS		Remarks
	Status of submission of Monthly and Annual returns	Submitted all Monthly return up to October, 2022. Annual returns for the year 2021-22 is submitted on time.		
S.N.	Item	Details GIVEN in A.R.	Observation of I/Officer	Remarks
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	No Mining Engineer, Geologist and manager appointed.	No officials were present during the visit.	Violation of Rule 55 (1) (c) (i) of MCDR, 2017 is pointed out.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Already exploited & abandoned by opencast (O/C) mining- 8.71 ha Used for waste disposal: 0.057 ha Occupied by plant, buildings, residential, welfare buildings & roads: 0.025 ha	Appears to be correct.	
9d	Scrutiny of Annual return on afforestation	100 saplings	Appears to be correct.	
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Nil	Appears to be correct.	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Opening stock: 3420 tonnes Closing stock: 10120 tonnes	Appears to be correct.	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Ex mine price: Rs 408 Cost of production : Rs 328	Appears to be correct.	
9i	Scrutiny of Annual return on fixed assets	Rs 92395	Appears to be incorrect since no machinery or building found within the mine.	
9k	Scrutiny of Annual return on mining machineries	Nil	All machinery on hire basis.	

10- (a) Compliance position of earlier violation pointed out: -

During the previous inspection by Shri J.S.Hada, AMG on dated 18.01.2018, no violation was pointed out.

During the current inspection following violations are pointed out.

नियम	उल्लंघन के प्रकार का ब्यौरा
11(1)	<p>The mining operations are required to be carried out in accordance with the Mining Plan approved, modified or reviewed by Indian Bureau of Mines. However, mining operations have not been observed and carried out in accordance with the Review of Mining Plan approved vide letter no. Raipur/LST/KhYo-1137/2017/Raipur/1017 dated 21/02/2018 for the period from 2018-19 to 2022-23 to the extent indicated below:</p> <p>(i) To explore the ML area, 04 boreholes were approved to be drilled during the year 2018-19. However, against which no exploration has been carried out.</p> <p>(ii) ROM (Run of mine ore) have been stacked along 7.5 m area within & along the lease boundary (safety zone) on eastern side of the lease area between BP 40 to 43 without such proposal.</p> <p>(iii) 7.5 m area within & along the lease boundary (safety zone) was found to be encroached at number of places between BP 9 to 19, 28 to 39, 40 to 43 by excavation without such approval.</p> <p>(iv) Backfilling of waste material proposed in 7.5 m area within & along the lease boundary (safety zone) between E 400 to 600 & N 500 to 300 during the period from 2018-19 to 2021-22 have not been carried out.</p>
55 (1) (c) (i)	Whole time Mining Engineer and Geologist are not appointed as required under this rule.

Date- 12.01.2023

(Debadurllav Dash)
Regional Mining Geologist