

MCDR INSPECTION REPORT 2021-22

General

Sl. No.	Particulars	Details
	File No-	CHG/DRG/LST-50/NGP
1	Name of the Mine	Chandi Limestone Mines
2	Date of Inspection	27.10.2022
3	Name of Inspecting Officer	Prasant Kumar Sahu, Assistant Mining Engineer
4	Name of official accompanying inspection	Shri Arun Swami, Geologist and Dr. Manoj Kumar, Qualified Person
5	Last date of Inspection & Officer	22.06.2022 and Shri D. Upadhyay, Sr. ACOM
6	Total Lease Area (Ha) with breakup of Non-forest and forest land	Forest Land- Nil Non Forest Land- 17.95 Ha Total Lease area- 17.95 Ha
7	Mine Code	38CHG05015
8	IBM Registration Number under rule 45 of MCDR, 1988	IBM/10276/2012
9	Name of the lessee, Address, phone, email and fax number	Shri Shankar Hari Agarwal, House No.-B1 & B2, Wallfort City, Ring Road No.- 1, Bhatagoan, Raipur(C.G.), Pin-492001 Phone No- 9479006009 Email – mkagrwal2006@yahoo.com
10	Village	Chandi
11	Taluka/Mandal	Berla
12	District	Bemetara
13	Pin code	491335
14	State	Chhattisgarh
15	Post office	Berla
16	Nearest police station	Berla
17	Nearest Railway station	Bhilai
18	Date of Grant of Mining Lease	05.10.2002
19	Date of Execution	05.10.2002
20	Weekly day of rest	Sunday
21	Date of opening of Mine	Executed on: 05.10.2002 Lease granted for a period 05.10.2002 to 04.10.2022 (20 Years) Supplementary lease deed agreement is yet not executed as per MMDR Act 2015. Working permission was granted on 30.11.2002 but mining operation was started in 2003-04.
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	Shri Shankar Hari Agarwal, House No.-B1 & B2, Wallfort City, Ring Road No.-1, Bhatagoan, Raipur (C.G.), Pin-492001, Phone No- 9479006009, Email –mkagrwal2006@yahoo.com
26	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Not appointed
27	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Shri Sanjay Dixit, C/o- Shri Shankar Hari Agarwal, House No.-B1 & B2, Wallfort City, Ring Road No.-1, Bhatagoan,

		Raipur (C.G.),Pin- 492001
28	Name of the Mining Engineer & Geologist, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Mining Engineer- Shri Sanjay Dixit, Date of appointment- Notice of appointment is not submitted. Violation issued. Geologist- Shri Arun Swami, Date of appointment-01.01.2015 C/o- Shri Shankar Hari Agarwal, House No.-B1 & B2, Wallfort City, Ring Road No.-1, Bhatagoan, Raipur (C.G.),Pin- 492001
29	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 55 & carrying out their duties as per rule 56 & 57.	Yes
30	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	Mining Plan Approved vide letter DRG/LST /MPLN -756/NGP dated 06.11.2021 Proposal period 2003-03 to 2007-08.
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.	Review of Mining Plan approved vide letter no. DRG/LST/MPLN-756/NGP dated 19.06.2009. Proposal period 2008-09 to 2012-13. Review of Mining Plan approved vide letter no. Review of Mining Plan approved vide letter no. DRG/LST /MPLN -756/NGP dated 07.01.2015. Proposal period 2013-14 to 2017-18. Review of Mining Plan approved vide letter no. Bemetara/LST/KhYo-1139/2017-Raipur/1077 dated 13.03.2018. Proposal period 2018-19 to 2022-23.
32	Mineral(s) granted in lease and proved for mining	Limestone
33	Method of Mining(Opencast, Underground)	Opencast
34	Category (A/B)	Category-A
35	Captive/Non Captive	Non Captive
36	Present EC Status	90000 Tonnes dated 30.10.2010
37	Status of Financial Assurance	1) Rs. 10,00,000/- vide BG No. 0399ILG001418 dated 20.02.2018 valid up to 31/03/2023

Scientific Mining: Compliance of proposals of approved Mining Plan/Review of Mining Plan.

1.0 Exploration

S.N.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No proposal	Nil	
1b	Exploration over lease area for Geological axis 1 or 2.	G1	G1-7.57 ha	Four (04) core boreholes at a grid interval of 150m. X150 m. with a total meterage of 120 mt. have been drilled in the past.
1c	Exploration Agency & Expenditure in lakh Rupees during the year	Not specified	Not applicable	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Not specified	Not applicable	
1e	Balance reserves as on 01.04.2022	Under (111): 3.72 Million Tonnes Under (221): 1.19 Million Tonnes Under (333): 6.08 Million Tonnes		
1f	General remarks of inspecting officer on geology, exploration	Four (04) core boreholes at a grid interval of 150m.X150 m. with a total meterage of 120 mt. was drilled in the year 2014 and to		

	etc.	explore the remaining area to cover under G1 level of exploration 05 boreholes have been proposed in the further programme of exploration.
--	------	--

2.0 Development

S.N.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area	In between coordinates N 2372085 to N 2372140 E 576790 to E 546820	In between coordinates N 2372085 to N 2372140 E 576790 to E 546820	As per proposal. Development was carried out within the proposed grids.
2b	Separate benches in topsoil, overburden and mineral (Rule 13)	No proposal	Nil	
2c	Stripping ratio or ore to OB ratio	1:0.05	1:0.00	No generation of overburden during the plan period.
2d	Quantity of topsoil generation in m ³	No proposal	Nil	
2e	Quantity of overburden/waste generation in m ³	No proposal	Nil	
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	The actual development is less in comparison to proposal for lack of market demand. Mining operation has been carried out in 7.5 mt. safety zone barrier between the boundary pillars no. C39 & C41. Violation under Rule 11(1) is issued.		

3.0 Exploitation

S.N.	Item	Proposals	Actual work	Remarks
3a	Number of pits proposed for production	1 pit proposed	Actual working was carried out in 1 pit	As per proposal
3b	Quantity of Limestone production proposed	30000 Tonne	120 Tonne	Within the proposal limit and less production due to lack of market demand.
3c	Recovery of salable/usable mineral from ROM production	22325 Tonne	120 Tonne	-do-
3d	Quantity of mineral reject generation	1500 Tonne	Nil	
3e	Grade of mineral reject generation and threshold value declared	No proposal	Nil	
3f	Quantity of sub-grade mineral generation	No proposal	Nil	
3g	Grade of sub-grade mineral generation	No proposal	Nil	
3h	Manual / Mechanised method adopted for segregating from ROM	No proposal	Nil	Blasted material directly sold to the consuming plant
3i	Any analysis or beneficiation study proposed & carried out for	No beneficiation study proposed	No such study carried out	Not required for limestone mineral

	sub-grade mineral and reject			
3j	Provision of drilling & blasting in mineral benches	Provision of drilling & blasting made in mineral benches	Drilling & blasting is carried out in the mineral benches	Drill machine-Jack hammer 32 mm dia, Explosive used-Emulsion cartridge used for blasting
3k	Provision of mining machineries in mineral benches	Excavator and tipper combination proposed	Mining is done using Excavator and tipper combination	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Mineral bench-03 meter, OB bench-01 meter	Average bench height and width maintained	Bench height is suitably matched with the excavator.
3m	Total area covered under excavation/pits	1.442 Ha	2.27 Ha	Violation of Rule 11(1) of MCDR, 2017 pointed out for exceeding the planned put to use area.
3n	Ore to OB ratio for the pit/mine during the year	1:0.05	1:0.00	No generation of waste in the reporting year.
3o	Total area put in use under different heads at the end of year	Pit-1.4420 ha, Top Soil Storage-0.0980 ha, Mineral Storage-0.05 ha, Infra-0.2240 ha, Roads-0.1950	Covered under current working: 2.266 ha, Waste disposal-0.631 ha, Infra-0.274 ha	Violation of Rule 11(1) of MCDR, 2017 pointed out for exceeding the planned put to use area.
3p	Production of ROM mineral during last five-year period, as applicable	2017-18: 88350 MT 2018-19: 23000 MT 2019-20: 28000 MT 2020-21: 23500 MT 2021-22: 30000 MT	2017-18: 4850 MT 2018-19: 2310 MT 2019-20: 76 MT 2020-21: 120 MT 2021-22: 120 MT	Actual production is within the proposed quantity. All units in MT.
3q	General remarks of inspecting officer on method of mining etc.	A single quarry has been developed as proposed. Production is carried out using deployment of HEMM with the help of drilling & blasting.		

4.0 Solid Waste Management-Dumping

S. N.	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject	No proposal	Nil	No top soil and OB generated during the year
4b	Location of topsoil, OB & mineral reject dumps	No proposal	Nil	
4c	Number of dumps within lease area and outside lease area	No proposal	Nil	
4d	Location of dumps w.r.t. ultimate pit limit	No proposal	Nil	
4e	Number of active & alive dumps	No proposal	Nil	

4f	Number of dead dumps	No proposal	Nil	
4g	Number of dumps stabilised	No proposal	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there	No proposal	Nil	
4i	Length of Retaining wall or garland drain all along dump	No proposal	Nil	
4j	Number of settling ponds	No proposal	Nil	
4k	Specific comments of inspecting officer on waste dump management.	No top soil and OB generated during the year. No waste dump has been observed during inspection.		

5.0 Solid Waste Management-Backfilling

S.N.	Item	Proposals	Actual work	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	No proposal	Nil	Area is not matured for reclamation and rehabilitation.
5b	Area under backfilling of mined out area	No proposal	Nil	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area	No proposal	Nil	
5d	Total area fully reclaimed & rehabilitated	No proposal	Nil	
5e	General remarks of inspecting officer on backfilling, reclamation etc.	No proposal for backfilling and reclamation during this year and the area is not matured for backfilling.		

6.0 Progressive Mine Closure Plan

S.N.	Item	Proposals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly - Rule 26(2).	To be submitted before 01st July every year	PMCP report received in time	Annual return submitted on 30.06.2022.
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	No proposal	Nil	The area is not matured for reclamation and rehabilitation.
6c	Compliance on reclamation and rehabilitation by backfilling i) Voids available for backfilling (L * B * D) ii) Void filled by waste/tailings iii) Afforestation on the	No proposal	Nil	The area is not matured for backfilling.

	backfilled area 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	No proposal	Nil	Area is not matured for reclamation and rehabilitation.
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Environmental monitoring proposed	Environmental monitoring carried out	Done as proposed
6f	General remarks of inspecting officer on PMCP compliance & progressive closure operations	No proposal for backfilling and reclamation during this year and the area is not matured for backfilling. The plantation as proposed have been carried out.		

7.0 Mineral Conservation

S.N.	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Direct ROM dispatch to the consumer	Done as proposed	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Not envisaged in the approved document.	Not applicable	Not required for limestone
7c	Different grade of mineral sorted out at mines	No proposal	Not applicable	Not required
7d	Any beneficiation process at mines	No Proposal	Not applicable	Not required
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	No beneficiation process proposed within lease area and the total ROM was dispatched directly to the consumer.		

8.0 Environment

S.N.	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil	No proposal	Nil	
8b	Concurrent use or storage of topsoil	No proposal	Nil	
8c	Separate dumps for overburden, waste rock, rejects and fines	No proposal	Nil	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal	Nil	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal	Nil	
8f	Baseline information on existence of plantation & additional plantation done	100 nos. saplings proposed	100 nos. saplings planted	
8g	Survival rate	Not specified	50 %	As per AR 2021-22
8h	Water sprinkling on roads to control airborne dust	Water sprinkling on haul roads proposed to suppress the dust	Water sprinkling done on haul roads	Done as proposed

8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	The scale of mining is low therefore no adverse impact due to mining on aesthetic beauty.
----	--	---

Compliance of Rule 45

S.N.	Item	Comments		Remarks
9a	Status of submission of Monthly and Annual returns	Submitted within times -Yes M.R. Submitted upto – Oct 2022 A.R. submitted upto - 2021-22		AR submitted on 20/05/2022
S.N.	Item	Details Given in AR.	Observation of I/Officer	Remarks
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mines Manager- Shri Sanjay Dixit, Mining Engineer: Shri Sanjay Dixit,, Geologist: Shri Arun Swami	During inspection Mines Manager and Mining Engineer were not present.	Violation under Rule 46 of MCDR, 2017 is pointed out for non-submission of intimation of appointment of Mining Engineer.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Pit: 2.266 Ha, Waste disposal- 0.631, Infra & roads: 0.274 Ha	Appears to be correct	Violation of Rule 11(1) of MCDR, 2017 pointed out for exceeding the planned put to use area.
9d	Scrutiny of Annual return on afforestation	WML- 100 saplings @ 50% survival rate	Appears to be correct	
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Nil	No generation of mineral rejects reported.	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Opening stock- Nil, Production- 120.00 tons, closing stock- Nil	Appears to be correct.	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Sale value- Nil Ex-mine Price Rs. 421/- Cost of production- Nil	No mineral dispatch has been reported during the reporting year.	
9i	Scrutiny of Annual return on fixed assets	Fixed Asset: Rs. 138231.00	Report as per Annual Return	
9k	Scrutiny of Annual return on mining machineries	Front end loader- 01, Tipper-02	Appears to be correct.	

10- (a) Compliance position of earlier violation pointed out: - Violation of Rule 11(1), 34(A), and 46 have been pointed out. No outstanding violation.

Date-03.03.2023

Prasant Kumar Sahu,
Assistant Mining Engineer