

File No.- CHG/DRG/M.SAND-2/RPR

MCDR INSPECTION REPORT

1.0 GENERAL

SN	Particulars	Details
1	Name of inspecting officer & designation & accompanying person	Arun Kumar Gadatia, Assistant Mining Engineer, Indian Bureau of Mines, Raipur by Smt. Sujata Dakaliya.
2	Date of inspection	10/12/2021
3	Name of the Mine	Bharregaon Moulding Sand Mine.
4	Total Lease Area (Ha) with breakup of Non-forest and forest land	Total Lease Area – 2.83 Ha. (Non-Forest Govt Land)
5	Mine Code	42CHG15001
6	IBM Registration Number under rule 45 of MCDR, 1988	IBM/11032/2012
7	Name of the lessee, Address, phone, email and fax number	Smt. Sujata Dakaliya, House No. 19/132., Sahdev Nagar, Distt- Rajnandgaon (Chhattisgarh), Contact no- 9301735580 Email id- Chin4may@gmail.com
8	Village	Bharregaon
8	Taluka/Mandal/ District	Tehsil & District- Rajnandgaon (C.G)
10	State	Chhattisgarh
11	Post office & PIN	Durg, PIN- 491441
12	Nearest police station	Somni (C.G)
13	Nearest Railway station	Rajnandgaon (C.G)
14	Date of Grant of Mining Lease	05/03/1995
15	Date of Execution	05/03/1995 06.04.1995 to 05.04.2015 ,Supplimentary lease deed under Section 8A of MMDR(Amendment),2015 executed upto 05.04.2045.
16	Date of opening of Mine	15/03/1995
17	Date of first Renewal, if applicable and its period & expiry	Supplimentary lease deed under Section 8A of MMDR(Amendment), 2015 executed upto 05.04.2045.
18	Date of second Renewal, if applicable and its period & expiry	Not Applicable.
19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	Not Applicable.
20	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Not Applicable.
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Not Applicable.
22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	No Mines Manager.

23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	No Mining Engineer.
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 55 & carrying out their duties as per rule 56 & 57.	No.
25	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	Date of Approval of Review of Mining Plan vide letter No. RNG/M.SAND/MPLN-1205/2019- Raipur dated 07/05/2029 For Period – 2019-20 to 2023-24 (05 Years). Date of Modification in Approved of Mining Plan vide letter No. RNG/M.SAND/MPLN-54/2016/Raipur dated 25/11/2016 For Period – 2016-17 to 2018-19 (03 Years). Specific condition:- General condition has been given in approval letter.
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	Not Applicable.
27	Mineral(s) granted in lease and proved for mining	Moulding Sand.
28	Method of Mining(Opencast, Underground)	Opencast Mining under 'B' Category (Manual)
29	Category (Fully Mechanised, Others or Manual)	'B' Category (Manual),
30	Captive/Non Captive	Non Captive
31	Existing EC Limit and validity	32000 Tonne per annum, EC issued on 07/08/2014
32	Status of Financial Assurance as per rule 27 of MCDR, 2017	FA amount of 5,00,000 (Five Lakh) submitted as per Rule and valid upto 21/04/2024.

Scientific Mining: Compliance of proposals of approved mining plan/scheme of mining. –

1.0 Exploration

SN	Item	Proposals (2020-21)	Actual work (2020-21)	Remarks
1a	Backlog of previous year	No proposal	Not carried out.	
1b	Exploration over lease area for Geological axis 1 or 2.	No proposal	Not carried out.	Not proposed during period 2020-21
1c	Exploration Agency & Expenditure in lakh Rupees during the year	Not Applicable	Not Applicable	Not Applicable
1d	Balance area to be explored to bring Geological axis in 1 or 2	Not Applicable	Not Applicable	

1e	Balance area to be explored to bring Geological axis in 1 or 2	Under 111: 36538.00T. Under 221: 40446.00T.		
1f	General remarks of inspecting officer on geology, exploration etc.	No exploration was carried out but for estimation of reserve 2m thickness of moulding sand is considered. The lease area is located in the bed of Shivnath river and Moulding sand is being accumulated / replenished every year in the river bed during monsoon.		

2.0 Development

SN	Item	Proposals (2020-21)	Actual work (2020-21)	
2a	Location of development w.r.t. lease area (Range in UTM/Local Coordinate/Plot No./Location)	N 75 -N175 to E25- E175	N 75 -N175 to E 25 - E175	Bench is not suitable in Moulding Sand mining. No Top soil and Overburden.
2b	Separate benches in topsoil, overburden and mineral (Rule 13)	Bench is not required in Moulding sand Mine	Not Applicable	
2c	Stripping ratio or ore to OB ratio	1:0.33	Nil	
2d	Quantity of topsoil generation in m3	No proposal	Nil	
2e	Quantity of overburden generation in m3	5000 CUM	Nil	
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	The river sand is extracted from the proposed site. There is no overburden. There is no generation of waste, subgrade mineral reject.		

3.0 Exploitation

SN	Item	Proposals (2020-21)	Actual work (2020-21)	Remarks
3a	Number of pits proposed for production	No pit	No pit	Since pit is refilled during rainy season, no pit observed.
3b	Quantity of ROM mineral production proposed	15000 Tonne	10994.967 Tonne	
3c	Recovery of saleable/usable mineral from ROM production	100%	100%	
3d	Quantity of mineral reject generation	Nil	Not Applicable	
3e	Grade of mineral reject generation and threshold value declared	Nil	Not Applicable	
3f	Quantity of sub-grade mineral generation	Nil	Not Applicable	
3g	Grade of sub-grade mineral generation	Nil	Not Applicable	
3h	Manual / Mechanised method adopted for segregating from ROM	Manual digging	Manual digging	

3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	Not applicable	Not applicable	
3j	Provision of drilling & blasting in mineral benches	No drilling and blasting proposed.	Nil	Not observed.
3k	Provision of mining machineries in mineral benches	Not applicable	Not applicable	No mining machineries observed .
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	No bench proposed.	Nil	Sand is extracted manually & no bench required.
3m	Total area covered under excavation/pits	Not mentioned specifically year wise	As per proposal	
3n	Ore to OB ratio for the pit/mine during the year	1:0.33	Nil	No OB generation.
3o	Total area put in use under different heads at the end of year	Not mentioned specifically year wise	Area under Pit: 1.25 ha Road: 0.03 ha Blocked area due to Highway:1.55 ha	As furnished in Annual Return.
3p	Production of ROM mineral during last five-year period, as applicable (in Metric Tonnes)	Year- 2016-17: 15000 T Year- 2017-18: 15000 T Year- 2018-19: 15000 T Year- 2019-20: 15000 T Year- 2020-21: 15000 T	Year- 2016-17: 2911.00 T Year- 2017-18: 205.00 T Year- 2018-19: 3900.55 T Year- 2019-20: Nil Year- 2020-21: 10994.967 tonne	The mining operation is low scale last few years due to COVID situation & lack of market.
3q	General remarks of inspecting officer on method of mining etc.	Method of mining is Open cast Manual Digging. Its a very small-scale mining operation.		

4.0 Solid Waste Management-Dumping

SN	Item	Proposals (2020-21)	Actual work (2020-21)	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 36, 37)	Nil	Nil	No generation of waste observed.
4b	Location of topsoil, OB & mineral reject dumps (Range in UTM/Local Coordinate/Plot No./Location)	No proposal	Nil	.As above.
4c	Number of dumps within lease area and out side lease area	Nil	Nil	

4d	Location of dumps w.r.t. ultimate pit limit (Rule 14)	No proposal	Nil	-do-
4e	Number of active & alive dumps	Nil	Nil	-do-
4f	Number of dead dumps	Nil	Nil	-do-
4g	Number of dumps stabilised	Nil	Nil	-do-
4h	Whether Retaining wall or garland drain all along dumps are there	Nil	Nil	-do-
4i	Length of Retaining wall or garland drain all along dump	Not Applicable	Not Applicable	-do-
4j	Number of settling ponds	Nil	Nil	-do-
4k	Specific comments of inspecting officer on waste dump management.	The lease area is in the bed of shivnath river and the moulding sand directly loaded from the river bed so no waste dump is generated.		

5.0 Solid Waste Management-Backfilling

SN	Item	Proposals (2020-21)	Actual work (2020-21)	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	Not proposed	Not Applicable	Moulding sand is being accumulated/ replenished every year bed during monsoon.
5b	Area under backfilling of mined out area	Not proposed	Not Applicable	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 36)	Not proposed	Not Applicable	
5d	Total area fully reclaimed & rehabilitated	Not proposed	Not Applicable	The sand collection from flowing water body.
5e	General remarks of inspecting officer on backfilling, reclamation etc	Moulding sand is being accumulated / replenished every year in the river bed during monsoon. It's a natural process, no need of backfilling and reclamation.		

6.0 Progressive Mine Closure Plan

SN	Item	Proposals (2020-21)	Actual work (2020-21)	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly - Rule 26(2). Details should be given in the format as given in Annexure-20.	Not	Not submitted for the year 2020-21.	Violation of Rule 26 (2) of MCDR, 2017 pointed out.

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	Nil	No area is mined out.
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 iv) Rehabilitation by making water reservoir v) Any other specific means	Nil	Nil	No area is matured for back filling. As such void is naturally refilled during rainy season.
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	Nil	Periodic monitoring.	No waste land in lease area.
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Not proposed.	Reported.	This is a manual mine.
6f	General remarks of inspecting officer on PMCP compliance & progressive closure operations	PMCP report not submitted for the year 2020-21. Violation of Rule 26 (2) of MCDR, 2017 pointed out.		

7.0 Mineral Conservation

SN	Item	Proposals (2020-21)	Actual work (2020-21)	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Not proposed	Not Applicable	No generation sorting is required.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Not proposed	Not Applicable	Reason as above.
7c	Different grade of mineral sorted out at mines	Not proposed	Not Applicable	-do-
7d	Any beneficiation process at mines	Not Applicable	Not Applicable	-do-
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	Moulding Sand is being accumulated / replenished every year. Beneficiation is not required. It's sold to Bhilai Steel Plant.		

8.0 Environment

SN	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 36)	Not Applicable	Not Applicable	No top soil generated.
8b	Concurrent use or storage of topsoil	Not Applicable	Not Applicable	-do-
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 37)	Not Applicable	Not Applicable	-do-
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Not Applicable	Not Applicable	No waste generation.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Not Applicable	Not Applicable	Not required since no area is mined out as such naturally the area is refilled.
8f	Baseline information on existence of plantation & additional plantation done (Rule 44)	Not proposed	Not done	
8g	Survival rate	Not Applicable	Not Applicable	
8h	Water sprinkling on roads to control airborne dust	Not Applicable	Not Applicable	Not required
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	No adverse impact observed during mine visit as the pit is refilled during rainy season.		

9.0 Compliance of Rule 45

S. N.	Item	COMMENTS		Remarks
	Status of submission of Monthly and Annual returns	Monthly Return is Submitted upto– March 2022 Annual Return is submitted upto- 2020-21		Submitted in 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	Part –time Mining Engineer & Geologist appointed by ther Lessee Side.	No information regarding Mining Engineer, Manager & Geologist.	Violation pointed out.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area under Pit: 1.25 ha Road: 0.03 ha Blocked area due to Highway:1.55 ha	The lease is granted in river bed and mostly the sand is excavated from river and the edge of river bed, Road is made for approach.	

9d	Scrutiny of Annual return on afforestation	Within lease - Nil	Nil	
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Nil	Nil	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Opening Stock- 1974.510 Tonne Production- 10994.967 Tonne Dispatches from mine Head- 7822.634 Tonne Closing Stock- 5146.843 Tonne	Grade not mentioned.	Appears to be corrected.
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Ex mine price – Rs 279.69/- Cost of production - Rs 177.15/-		Appears to be corrected.
9i	Scrutiny of Annual return on fixed assets	Nil		
9k	Scrutiny of Annual return on mining machineries	Manual method of mining.	Manual Working	No Machineries required.

Details of compliance position of earlier violation pointed out:- The earlier violation Rule 45(5)(b) & 45 (5)(c) complied.

Date of last inspection, Name and Designation of the inspecting Officer:

Shri Rudra Narayan Mishra, Senior Mining Geologist, on 09.04.2019

During Present inspection violation pointed out under Rule 26(2) & 55 of MCDR, 2017.

नियम	उल्लंघन के प्रकार का विस्तृत ब्यौरा
26(2)	The holder of mining lease shall submit to the competent authority a yearly report as per the format specified by the Indian Bureau of Mines, before 1st day of July every year setting forth the extent of protective and rehabilitative works carried out as envisaged in the approved mine closure plan, and if there is any deviation, reasons thereof, but the same not submitted for the year 2020-21 till date.
55	For the purpose of carrying out reconnaissance, prospecting or mining operations in accordance with these rules,— 3. every holder of a mining lease shall employ, in case of— (iv) category 'B' mines, a part-time mining engineer and a part-time geologist: But it was observed that part-time Mining Engineer & Geologist not appointed.

(Name of the inspecting Officer)

Date : 25.05.2022

Arun Kumar Gadatia
Asstt. Mining Engineer
Raipur Regional Office