

**MCDR Inspection Report 2023-24****General:**

S. N.	Particulars	Details
1	Name of the Mine	Karhidih Moulding Sand Mine
2	Date of Inspection	05/10/2024
3	Name of Inspecting Officer and Designation	Prasant Kumar Sahu Assistant Controller of Mines
4	Name of official accompanying inspection	Shri Rahul Seksaria, Lessee representative
5	Last date of Inspection & Officer	Date- 18.03.2023 Shri Soumallya Roy Assistant Mining Engineer
6	Total Lease Area (Ha) with breakup of Non-forest and forest land	4.047 Ha. (Non-forest-4.047Ha. and Forest Land-0.00 Ha.)
7	Mine code	42CHG05001
8	IBM Registration Number under rule 45 of MCDR, 1988/2017	IBM/10130/2012
9	Name of the Lessee, Address, Phone, email and fax number	Shri Mahendra Kumar Seksaria, 271, Ramdev Mandir, Ward No. 35, Ganjpara, Durg, Chhattisgarh Mobile No. 9425236511 Email-mkseksaria@gmail.com
10	Village	Karhidih
11	Taluka/Mandal	Durg
12	District	Durg
13	Pin code	491001
14	State	Chhattisgarh
15	Post Office	Durg
16	Nearest Police Station	Ganjpara
17	Nearest Railway Station	Durg
18	Date of Grant of Mining Lease	06/04/1995
19	Date of Execution	06/04/1995 Supplementary lease deed under section 8A of MMDR (Amendment) Act 2015 executed upto 05.04.2045
20	Weekly day of rest	Sunday
21	Date of opening of Mine	16/05/1995
22	Date of First Renewal, if applicable and its period & expiry	As per section 8A of MMDR Amendment Act, 2015 the lease period has been extended up to 50 years
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	NA
26	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	NA

27	Name of the Mine Manager with Address, phone, email, fax number and date of appointment in mines	NA
28	Name of the Mining Engineer, Qualification and total experience with address, phone, email, fax number and date of appointment in the mine	Shri Lokesh Chandra Kurre, Mining Engineer Date of appointment- 25.07.2022
29	Whether Geologist and Mining Engineer appointment in mines satisfy the rule 55 & carrying out their duties as per rule 56 & 57	Shri Amit Kashyap, Geologist Date of appointment- 10.05.2023
30	Date of Approval of Mine Plan/Modified Mine Plan with five- year period and specific condition in approval letter, if any.	Mining Plan approved vide letter no. DRG/LMS/MPLN-306/NGP Nagpur dated 15/03/1994
31	Date of Approval of Review/Scheme of Mining/Modified Review/Scheme of Mining with five-year period and specific condition in approval letter, if any.	Review of Mining Plan approved vide letter no. Durg/Mo Sand/Khayo-1231/2019 dated 04.03.2020 Proposal Period: 2020-21 to 2024-25
32	Mineral(s) granted in lease and approved for Mining	Moulding Sand
33	Method of Mining (Opencast, Underground)	Open Cast
34	Category (A / B)	Category-B
35	Captive/Non-Captive	Non-Captive
36	Present EC Status	32000 Tonne
37	Status of Financial Assurance (Amount and Validity)	Bank Guarantee of Rs. 5,00,000/- valid up to 31/03/2025

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

### 1.0 Exploration:

S.N.	Item	Proposals (2023-24)	Actual (2023-24)	Remarks
1a	Backlog of previous year proposals	No proposal	Nil	Entire potential mineralised area is covered under G2 level of exploration as per approved Review of Mining Plan.
1b	Exploration over lease area for Geological axis 1 or 2	No proposal	Nil	
1c	Exploration Agency & Expenditure in Lakh Rupees during the year	Not specified	Nil	
1d	Balance area to be explored to bring Geological axis in 1 or 2.	No proposal	Nil	
1e	Balance reserves as on 01.04.2024 (in Million Tonnes)	Under 122- 46057.34 Tonnes Under 222- 11600.00 Tonnes		As per information submitted in Annual Return
1f	General remarks of Inspecting officer on geology, exploration etc.	The lease area is located in the river bed of River Shivnath. The moulding sand is being replenished in the mined-out area by river current from various location of catchment area every year during the monsoon seasons.		

### 2.0 Development:

S. N.	Item	Proposals (2023-24)	Actual (2023-24)	Remarks
2a	Location of Development w.r.t. lease area	In between coordinates From E-528926 To 529228 From N-2348084 To 2348165	Carried out with in the proposed area	
2b	Separate benches in topsoil overburden and mineral	No proposal	Nil	
2c	Stripping ratio or ore to OB ratio	No proposal	Nil	
2d	Quantity of topsoil generation in m <sup>3</sup>	No proposal	Nil	
2e	Quantity of overburden generation in m <sup>3</sup>	No proposal	Nil	
2f	General remarks of Inspecting officer on development of pit w.r.t type of deposit etc.	Productions were carried out within the proposed area. No proposal for Topsoil/OB/Waste during the year 2023-24. No generation of OB/Waste reported during the year.		

### 3.0 Exploitation:

S. N.	Item	Proposals (2023-24)	Actual (2023-24)	Remarks
3a	Number of pits proposed for production	01 Pit	01 Pit	
3b	Quantity of ROM mineral production proposed in Tonne	12500 Tonnes	7242.66 Tonnes	Less production due to lack of market demand
3c	Recovery of Saleable/Usable mineral from ROM production in Tonne	100 %	100 %	

3d	Quantity of mineral reject generation in Tonne	No proposal	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/Mechanized method adopted for segregation from ROM	Manual	Manual	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	No proposal	Nil	
3j	Provision of drilling & blasting in mineral benches	No proposal	Nil	
3k	Provision of mining machineries in mineral benches	Dumpers/Tippe rs proposed for transportation of moulding sand	Carried out as proposed	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in Mining Plan	No proposal	Nil	
3m	Total area covered under excavation /pits in Ha.	2.00 Ha. upto plan period 2024-25	About 2.00 Ha. upto 2023-24	F.Y. 2023-24 Annual Return was referred back for rectification of the area furnished under current workings.
3n	Ore to OB ratio for the pit/mine during the year	No proposal	Nil	
3o	Total area put in use under different heads at the end of year in Ha.	2.10 Ha. upto plan period 2024-25	About 2.00 Ha.	
3p	Production of ROM mineral during last five-years period, as Applicable (Tonne)	2019-20: 16000 2020-21: 12500 2021-22: 12500 2022-23: 12500 2023-24: 12500	2019-20: 2891.81 2020-21: 300.00 2021-22: 7966.01 2022-23: 9500.00 2023-24: 7242.66	
3q	General remarks of inspecting officer on method of mining etc.	Open cast mining operation is being carried by manual method. No proposal for drilling & blasting.		

#### 4.0 Solid Waste Management-Dumping:

S.N.	Item	Proposals (2023-24)	Actual (2023-24)	Remarks
4a	Separate dumping of topsoil, OB & mineral reject	No Proposal	Nil	
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 stabilized	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 Topsoil/OB/Waste were generated during the year. No Topsoil/OB/Waste dump observed during inspection.		

### **5.0 Solid Waste Management-Backfilling:**

S.N.	Item	Proposals (2023-24)	Actual (2023-24)	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 any part of ML area is mined out fully to carry out backfilling, reclamation etc.		

### **6.0 Progressive Mine Closer Plan:**

S. N.	Item	Proposals (2023-24)	Actual (2023-24)	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 Report submitted on 22.04.2024
6b	Management of worked/mined out benches	No Proposal	Nil	
	Area available for rehabilitation (Ha)	No Proposal	Nil	
	Afforestation done (ha)	No Proposal	Nil	
	No. of saplings planted during the year	No Proposal	Nil	
	Cumulative no. of plants	No Proposal	Nil	
	Any other specific method of rehabilitation	No Proposal	Nil	
6c	Cost incurred on watch & care during the year	No Proposal	Nil	
	Compliance on reclamation and rehabilitation by backfilling Voids available for backfilling	No Proposal	Nil	

	(L*B*D) Void filled by waste/tailings Afforestation on the backfilling Rehabilitation by making water reservoir Any other specific means			
6d	Compliance of Rehabilitation of waste land within lease i. Afforestation ii. Area rehabilitation (ha) iii. Method of rehabilitation	No Proposal	Nil	
6e	Compliance of Environment monitoring (core zone & buffer zone)	Not specified	Nil	
6f	General remarks of inspecting officer on PMCP compliance & progressive closer operations	Annual PMCP report has been submitted in time. No area is matured/mined out for backfilling.		

### **7.0 Mineral Conservation:**

S.N.	Item	Proposals (2023-24)	Actual (2023-24)	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	No Proposal	Nil	
7c	Different grade of mineral sort out at mine	No Proposal	Nil	
7d	Any beneficiation process at mines	No Proposal	Nil	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	No beneficiation process was proposed within the lease area and the total ROM was proposed to dispatch directly to the consumer.		

### **8.0 Environment:**

S.N.	Item	Proposals (2023-24)	Actual (2023-24)	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	No Proposal	Nil	
8g	Survival rate (%)	No Proposal	Nil	

8h	Water sprinkling on roads to control airborne dust	No Proposal	Nil	
8i	General remarks of inspecting officer on aesthetic beauty in and around mine area	The production is less in comparison to the proposed quantity due to lack of market demand during this year as well as in the planned period, therefore, no adverse impact due to mining on aesthetic beauty.		

### 9.0 Compliance of Rule 45:

S. N.	Item	Comments		Remarks
9a	Status of submission of monthly and Annual returns	MR being regularly submitted		AR submitted up to F.Y. 2023-24 on 12.06.2024
		AR Submitted up to 2023-24		
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	Mining Engineer- Lokesh Chandra Geologist- Amit Kashyap Manager- Lokesh Chandra	Employed	Violation under Rule 46 of MCDR, 2017 is issued for non-submission of notice of appointment of Mining Engineer
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	4.047 Ha. covered under current workings	Lease area (surface area) utilization at the end of year furnished incorrectly.	AR 2023-24, Referred back for rectification.
9d	Scrutiny of Annual return on afforestation	WML-Nil OML-100 @ 65 % survival	WML-Nil OML-100 @ 65 % survival	No proposal for plantation within ML area during the year 2023-24
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 grade ore	Opening-0.00 Production-7242.66 Closing-0.00	Opening-0.00 Production-7242.66 Closing-0.00	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production costs	Sale value- Rs.3201165.05/, Ex. Mine Price- Rs. 325.04/- Cost of production- 282.00/-	Ex. Mine Price incorrectly furnished	AR 2023-24, Referred back for rectification.
9i	Scrutiny of Annual return on Fixed assets	Nil	Nil	
9k	Scrutiny of Annual return on mining Machineries	Nil	Not furnished	AR 2023-24, Referred back for rectification

**10- Details of violations observed during current inspection: -**

- i. Violation of Rule 11(1) and 46 of MCDR 2017 have been pointed out after current inspection. No outstanding violation.
- ii. Annual Return for the year 2023-24 has been referred back for rectification for the discrepancies observed during this inspection.

प्रशान्त कुमार साहू / Prasant Kumar Sahu  
सहायक खान नियंत्रक / Assistant Controller of Mines  
भारतीय खान ब्यूरो, रायपुर / Indian Bureau of Mines, Raipur