

**MCDR INSPECTION REPORT 2023-24****General:**

<b>Sl. No.</b>	<b>Particulars</b>	<b>Details</b>
1	Name of the Mine	Bharregaon Moulding sand Mine
2	Date of Inspection:	10.09.2024
3	Name of Inspecting Officer	Shri D. Dash, Regional Mining Geologist
4	Name of official accompanying inspection	Mr. Ramesh Dakaliya , representative of Smt. Sujata Dakaliya
5	Last date of Inspection & Officer	26.12.2023, Shri D. Dash, Regional Mining Geologist
6	Total Lease Area (Ha) with breakup of Non-forest and forest land	2.83 ha, total non-forest land.
7	Mine code	42CHG15001
8	IBM Registration Number under rule 45 of MCDR, 1988/2017	IBM/11032/2012
9	Name of the Lease, Address, Phone, email and fax number	Smt. Sujata Dakaliya, House no. 19/132, Sahadeo nagar, At/Po. Rajnandangaon, Chhattisgarh
10	Village	Bharregaon
11	Taluka/Mandal	Rajnandangaon
12	District	Rajnandangaon
13	Pin code	491441
14	State	Chhatisgarh
15	Post Office	Rajnandangaon
16	Nearest Police Station	Somni
17	Nearest Railway Station	Rajnandangaon
18	Date of Grant of Mining Lease	05.03.1995
19	Date of Execution	05.03.1995
20	Weekly day of rest	Sunday
21	Date of opening of Mine	15.03.1995
22	Date of First Renewal, if applicable and its period & expiry	As per Secetion 8 (A) (6) of MMDR Act, 2015, valid up to 04.03.2045. Supplementary agreement has been done on 16.05.2017.
23	Date of Second Renewal, if applicable and its period & expiry	N/A
24	Date of submission of renewal application if Mining Operations are continuing under deemed extension	N/A
25	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Not appointed
26	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Smt Sujata Dakaliya,
27	Name of the Mine Manager with Address, phone, email, fax number and date of appointment in mines	Smt Sujata Dakaliya,

28	Whether Geologist and Mining Engineer appointment in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	Not appointed.
29	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. RNG/MS/MPLN 292/NGP dated 07/05/1993 for the period from 1993-94 to 1998-99.
30	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five- year period and specific condition in approval letter, if any.	Review of Mining Plan approved vide letter no. RNG/MS/MPLN/292/NGP dated 18/06/2009 for the period from 209-10 to 2013-14. Review of Mining Plan was approved vide letter no. KNK/FE/MPLN-1334/ Raipur on dated 25.11.2016 for the period from 2015-16 to 2018-19 Review of Mining Plan was approved vide letter no. Rajnand/Mo.Sand/KhYo-1205/2019-Raipur/ 75 on dated 07/05/2019 for the period from 2019-20 to 2023-24. Review of Mining Plan was approved vide letter no. RPR/RAJANDGAON/MOULDING SAND/ 1417/RMP/2023-24 on dated 01.03.2024 for the period from 2024-25 to 2028-29.
31	Mineral(s) granted in lease and approved for Mining	Moulding Sand
32	Method of Mining (Opencast, Underground)	opencast
33	Category (Fully Mechanized, Others or Manual)	B manual
34	Captive/Non-Captive	Non-captive
35	Present EC Status	32000 tonnes, EC issued on 07.08.2014 valid up to 07.08.2044.
36	Status of Financial Assurance	Valid upto 31.03.2029

## II. SCIENTIFIC MINING

Sl. No	Item	Proposals (2023-24)	Actual Work (2023-24)	Remarks
<b>A. EXPLORATION:-</b>				
1a	Backlog of Previous Year	Nil	Nil	No exploration is proposed.
1b	Exploration Over Lease area for Geological Axis 1 or 2	Nil	Nil	.
1c	Exploration Agencies and Expenditure in lakh rupees during the	Not Specified	Nil	No exploration carried out.

	year		
1d	Balance area to be explored to bring Geological axis 1 or 2	Nil	Nil
1e	Balance reserves as on 01/09/2023	111: 35400 ton 211: 40446 ton	111: 35400 ton 211: 40446 ton
1f	General remarks of inspecting officer on geology, exploration etc.	The Moulding sand is deposited in granular form in the bed of river Shivnath. It is replenished every year post monsoon. Therefore, no exploration is proposed in approved Mining Plan.	

Sl. No	Item	Proposals(2023-24)	Actual Work(2023-24)	Remarks
<b>B. DEVELOPMENT:-</b>				
2a	Location of development w.r.t. lease area	N 75-N175 to E25- E 175	N 75-N175 to E25- E 175	As per proposal.
2b	Separate benches in topsoil, overburden and mineral	Proposed	Maintained.	-do-
2c	Stripping ratio or ore to OB ratio	1 : 0	1 : 0	Nil generation of waste reported.
2d	Quantity of topsoil generation in m3	Nil	Nil	
2e	Quantity of overburden generation in m3	NIL	NIL	
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	Quarry development work was carried out during the year 2023-24 as per proposal in designated site.		

Sl. No	Item	Proposals(2023-24)	Actual Work(2023-24)	Remarks
<b>C. EXPLOITATION:-</b>				
3a	Number of Pit Proposed for Production	01	01	Ass per proposal.
3b	Quantity of ROM mineral production proposed	<b>15000 ton</b>	5140.78	NIL ROM production reported in AR. Thus, violation issued on 20.09.2024. However, 5140 tonnes of grade-wise production reported.
3c	Recovery of Sailable/ Usable Mineral from ROM Production	15000 t	5140.78	

3d	Quantity of mineral reject generation	Nil	Nil	
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	Manual	Manual	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	Nil	Nil	
3j	Provision of drilling & blasting in mineral benches	NIL	NIL	
3k	Provision of mining machineries in mineral benches	Nil	Nil	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	yes	
3m	Total area covered under excavation/pits	Not specific.	1.25 ha	Area excavated for haul road development
3n	Ore to OB ratio for the pit/mine during the year	1: 33	1:00	Nil waste generation reported.
3o	Total area put in use under different heads at the end of year	Not specific	Covered under current (O-C) Workings: 1.25 ha, Occupied by plant, buildings, residential, welfare buildings and roads 0.03 ha.	As reported in Annual Return
3p	Production of ROM mineral during last five-year period, as applicable	2019-20: 15000 2020:21: 15000 2021: 22:15000 2022: 23: 15000 2023-24:15000	Nil 10994 5506 4133 5140.78	As information furnished in Annual Return.
3q	General remarks of inspecting officer on method of mining etc.	During the year 2023-24, a single quarry development was proposed and accordingly mining operations have been carried out in single quarry., Production during the planned period was less than proposed due to lack of market. The mine was under suspension during inspection as it has not achieved 03 Star rating. Suspended on 19.07.2024 for achieving 02 Star.		

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<b>D. SOLID WASTE MANAGEMENT - DUMPING:-</b>				
4a	Separate Dumping of Topsoil, OB and Mineral Rejects (Rule 32,33)	5000 cum	Nil reported	
4b	Location of Topsoil, OB and Mineral Rejects Dumps	Temporary dump near the entrance of the mine	Temporary dump near the entrance of the mine	
4c	Number of Dumps within Lease & Outside Lease area	01(within lease0	01(within lease0	
4d	Location of Dumps, within Ultimate Pit Limit (Rule-16)	Located in 7.5 m safety barrier zone near entrance	Located in 7.5 m safety barrier zone near entrance	
4e	Number of Active & Alive Dumps	1	Nil	
4f	No of Dead Dumps	Nil	Nil	
4g	No of Dumps Established	Nil	Nil	
4h	Whether Retaining Wall or Garland drain along Dumps are there	Nil	Nil	
4i	Length of Retaining Wall or Garland drain along Dumps	Nil	Nil	
4j	No. of Settling tanks	Nil	Nil	
4k	Specific comments of inspecting officer on waste dump management	No waste generation has been reported during the year 2023-24. The lease area is in the bed of Shivnath river. Top 0.5 m of the river bed was envisaged to be overburden. But, entire depth of mineralized zone including top 0.5 m of over burden is directly loaded from the river bed . So no overburden generation is reported.		

Sl. No	Item	Proposals(2023-24)	Actual Work(2023-24)	Remarks
<b>E. SOLID WASTE MANAGEMENT – BACKFILLING:-</b>				
5a	Status of part or full extraction of mineral from mined out area before starting backfilling	Nil	Nil	No area is mined out. There is no scope for quarry being mined out, since, the mine is in a active river. After each monsoon the mine returns to original shape.
5b	Area under backfilling of mined out area	Nil	Nil	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	Nil	Nil	
5d	Total area fully reclaimed and	NA	NA	

5e	rehabilitated General remarks of inspecting officer on backfilling, reclamation etc	No area is mined out. There is no scope for quarry being mined out, since, the mine is in an active river. After each monsoon the mine returns to original shape.
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Sl. No	Item	Proposals(2023-24)	Actual Work(2023-24)	Remarks
<b>F. PROGRESSIVE MINE CLOSURE PLAN:-</b>				
	Whether Annual report on PMCP submitted on time and correctly - Rule 23E(2). Management of worked/mined out benches	Yes	Yes	
6a	i) Area available for rehabilitation (ha)	Nil	Nil	
	ii) Afforestation done (ha)			
6b	iii) No. of saplings planted during the year	Nil	Nil	
	iv) Cumulative no. of plants	Nil	Nil	
	v) Any other specific method of rehabilitation	NA	NA	
	vi) Cost incurred on watch & care during the year	Nil	Nil	
	Compliance on reclamation and rehabilitation by backfilling			Mine is in an active river. After each monsoon the mine returns to original shape.
	i) Voids available for backfilling (L X B X D)	Nil	Nil	
	ii) Void filled by waste/tailings	Nil	Nil	
6c	iii) Afforestation on the backfilled area	Nil	Nil	
	iv) Rehabilitation by making water reservoir	Nil	Nil	
	v) Any other specific means			

	Compliance of Rehabilitation of waste land within lease	Nil	Nil	-do-
6d	i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation			
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Yes	Yes	Core zone & Buffer zone.
6f	General remarks of inspecting officer on PMCP compliance & progressive closure operations	The lease area is in river bed of Shivnath river. So mine closure measures are proposed and are not feasible. After each monsoon the mine returns to original shape.		

Sl. No	Item	Proposals(2023-24)	Actual Work(2023-24)	Remarks
<b>G. MINERAL CONSERVATION:-</b>				
7a	ROM mineral dispatch or grade wise sorting within lease area	Nil	Nil	The moulding sand are directly saleable from pit head and no sorting or sizing is proposed.
7b	Method of Grade-wise mineral sorting i.e. manual or mechanical	Nil	Nil	Done as proposed.
7c	Different grade of mineral sorted out at mines	Nil	Nil	Done as proposed.
7d	Any beneficiation process at mines	Nil	Nil	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	The moulding sand are directly saleable from pit head and no sorting or sizing is proposed. The moulding sand are on river bed and replenished every year. The entire run of mine ore are directly saleable and no beneficiation is required.		

Sl. No	Item	Proposals(2023-24)	Actual Work(2023-24)	Remarks
<b>H. ENVIRONMENT:-</b>				
8a	Separate removal and utilization of topsoil	Nil	No top soil	Mine is in an active river & question of Top soil does not arise.
8b	Concurrent use or storage of topsoil	Nil	Nil	No top soil generated.
8c	Separate dumps for overburden, waste rock, rejects and fines	Nil	Nil	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its	Nil	Nil	

8e	original use Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Nil	Nil
8f	Baseline information on existence of plantation & additional plantation done	Nil	Nil
8g	Survival rate	Nil	Nil
8h	Water sprinkling on roads to control airborne dust	Nil	Nil
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	During the year 2023-24, no top soil generation has been reported. No top soil generation is envisaged in approved Mining Plan, since, moulding sand occur on river bed. Mine is in an active river.	

Sl. No	Item	Comments	Remarks	
<b>I. COMPLIANCE OF RULE-45:-</b>				
9a	Status of Submission of Monthly & Annual Returns	MR Submitted up to = August 2024 AR Submitted up to 2023-24. On 07.05.2024	Submitted on time.	
Sl. No	Item	Details Given in A.R	Observation of I/Officer	Remarks
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer: Shri Chinmay Manager: Smt Sujata Dakaliya Geologist: Nil	During the inspection Mining Engineer and Geologist not present as they were not appointed.	During inspection it is found that Mining Engineer & Geologist have not been employed in the mine as required under rule 55(1) 3(ii) of MCDR 2017. Thus violation issued on 20.09.2024.. As per AR.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Pit-1.25 H	Covered under current (O-C) Workings: 1.25 ha	
9d	Scrutiny of Annual return on afforestation	Nil Plantaion	Nil	
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Nil	Ni generation reported.	
9f	Scrutiny of Annual return on ROM stock	Stock: 3048 tonnes	As per AR	

	and/or graded ore		
	Scrutiny of Annual	Ex Mine price: Lumps:	Appears to be correct.
9g	return on sale value, Ex.	Rs 279	Cost of production:
	Mine price &		Rs 177
	production cost		
		NIL	Violation of Rule 45(7)
9i	Scrutiny of Annual		of MCDR 2017 issued for
	return on fixed assets		providing wrong or
			false information .
	Scrutiny of Annual	Nil	Nil
9k	return on mining		
	machineries		

### III. Status of compliance of MCDR,2017 including therewith the rectification of outstanding violation of the rules.

Date of last inspection	Violation pointed out	Compliance reported
26.12.2023	Rule 35 (4)	Compliance under process, Mine is under suspension as achieved only 02 star rating for the year 2022-23.

During the current inspection, following violation is observed and pointed out vide this office letter dated 20.09.2024

#### Rule No.

#### Nature of violation observed in detail

Rule 35  
(2)

Details of delay in submission of self-assessment report(star rating template) as indicated below :-

Year	Due date of submission	Date of Submission	Delay period in days
2023-24	30.06.2024	13.08.2024	44 day

45(7) For providing wrong or false information in the submitted returns in In part II A, In part V & In part VI (Production, Despatches and stock) Para 2.

55(1) 3 Mining Engineer & Geologist have not been employed in the mine as required.

Date: 01.10.2024

संजय कुमार महापात्र  
सहायक खान नियंत्रक  
रायपुर क्षेत्रीय कार्यालय