

## MCDR INSPECTION REPORT

### General

S. N.	Particulars	Details
1	Name of the Mine	Karhidih Moulding Sand
1a	Name of the inspecting officer with Designation & Accompanying Person, Date of Inspection	Rajesh Kumar Das, Senior Assistant Controller of Mines, Shri Rahul Seksaria, Owner's representative, 30.01.2020
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	4.047 Ha.
3	Mine code	42CHG05001
4	IBM Registration Number under rule 45 of MCDR, 1988	IBM/10130/2012
5	Name of the lessee, Address, phone, email and fax number	Shri Mahendra Kumar Seksaria, Ward No. 36, Ganjpara, AT & PO Durg, Dist. Durg (C.G.)
6	Village	Karhidih
7	Taluka/Mandal	Durg
8	District	Durg
9	Pincode	
10	State	Chhattisgarh
11	Post office	Durg
12	Nearest police station	Ganjpara
13	Nearest Railway station	Durg
14	Date of Grant of Mining Lease	06.04.1995
15	Date of Execution	06.04.1995 to 05.04.2015, Supplementary lease deed under Section 8A of MMDR (Amendment), 2015 executed upto 05.04.2045
16	Date of opening of Mine	24.04.1995
17	Date of first Renewal, if applicable and its period & expiry	Supplementary 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	NA
19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	NA
20	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	NA
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	NA
22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	No 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 42 & carrying out their duties as per rule 43 & 44.	No
25	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	Modification of Mining plan approved 23.08.2016 for period 2016-17 to 2019-20
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	NA
27	Mineral(s) granted in lease and proved for mining	Moulding Sand
28	Method of Mining (Opencast, Underground)	Opencast

29	Category (Fully Mechanised, Others or Manual)	Manual
30	Captive/Non Captive	Non Captive
31	BG Validity	The inspection is carried out for Review of Mining Plan and BG of Rs 5 lakh submitted as BG for period upto 31.03.2025
32	EC Capacity	32000 T/year

Scientific Mining: Compliance of proposals of approved mining plan/scheme of mining. (Duplication of information in existing TMIS data sheets and draft write up has been avoided.)

#### **Exploration**

S.N.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Nil	Nil	
1b	Exploration over lease area for Geological axis 1 or 2.	Nil	Nil	
1c	Exploration Agency & Expenditure in lakh Rupees during the year	NA	NA	
1d	Balance area to be explored to bring Geological axis in 1 or 2	NA	NA	
1e	Balance reserves as on 01.04.2019 (Tons)			
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.		

#### **Development**

S.N.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area	Southern to centre	As per proposal	
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	NA	NA	
2c	Stripping ratio or ore to OB ratio	1:0.025	NA	
2d	Quantity of topsoil generation in m <sup>3</sup>	Nil	Nil	
2e	Quantity of overburden generation in m <sup>3</sup>	400	Nil	
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	No such development and direct production from river bed.		

#### **Exploitation**

S.N.	Item	Proposals	Actual work	Remarks
3a	Number of pits proposed for production	One	One reported	
3b	Quantity of ROM mineral production proposed(tons)	16000	8222	
3c	Recovery of salable/usable mineral from ROM production	95%	100%	
3d	Quantity of mineral reject generation	400 m3	Nil	
3e	Grade of mineral reject generation and threshold value declared	Below threshold	NA	
3f	Quantity of sub-grade mineral generation	Nil	Nil	
3g	Grade of sub-grade mineral generation	NA	NA	
3h	Manual / Mechanised method adopted for segregating from ROM	Manual	Manual	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade	NA	NA	

	mineral and reject			
3j	Provision of drilling & blasting in mineral benches	NA	NA	
3k	Provision of mining machineries in mineral benches	NA	NA	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes only in mineral	As per proposal	
3m	Total area covered under excavation/pits	Not mentioned specifically yearwise	As per proposal	
3n	Ore to OB ratio for the pit/mine during the year	1:0.025	NA	
3o	Total area put in use under different heads at the end of year	Not mentioned specifically yearwise	As per proposal	
3p	Production of ROM mineral during last five-year period, as applicable(in tons)	2014-15: 32000 2015-16: 16000 2016-17: 16000 2017-18: 16000 2018-19:16000	2014-15: 5474 2015-16: 3562.67 2016-17: 5266.37 2017-18: 8222.22 2018-19: 8222	
3q	General remarks of inspecting officer on method of mining etc.	The existing method of mining is open cast manual working. The transportation carried out by using tipper.		

#### **Solid Waste Management-Dumping**

S.N.	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	Negligible quantity of waste proposed	NA	
4b	Location of topsoil, OB & mineral reject dumps	NA	NA	
4c	Number of dumps within lease area and outside lease area	Nil	Nil	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	NA	NA	
4e	Number of active & alive dumps	Nil	Nil	
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	NA	NA	
4i	Length of Retaining wall or garland drain all along dump	Nil	Nil	
4j	Number of settling ponds	Nil	Nil	
4k	Specific comments of inspecting officer on waste dump management	No major dump observed.		

#### **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	NA	NA	
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)	NA	NA	
5d	Total area fully reclaimed & rehabilitated	Nil	The sand is collection from flowing water body	
5e	General remarks of inspecting officer on backfilling, reclamation etc	Nil		

**Progressive Mine Closure Plan**

S.N.	Item	Proposals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly - Rule 23E(2). Details should be given in the format as given in Annexure-20.	Yes given proposal of afforestation but not submitted	Broadly as per proposal	
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	
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 backfilled area iv) Rehabilitation by making water reservoir v) Any other specific means	i) Nil	i) Nil	
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	i) Nil	i) Nil	
6e	Compliance of Environmental monitoring (core zone & buffer zone)	NA	NA	
6f	General remarks of inspecting officer on PMCP compliance & progressive closure operations	Nil		

**Mineral Conservation**

S.N.	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	No such proposal	NA	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	NA	NA	
7c	Different grade of mineral sorted out at mines	NA	NA	
7d	Any beneficiation process at mines	NA	NA	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	The river bed sand directly used and no beneficiation activity within lease therefore no question on wastage and nearly 100% recovery.		

**Environment**

S.N.	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	NA	NA	
8b	Concurrent use or storage of topsoil	NA	NA	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	NA	NA	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	NA	NA	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	NA	NA	
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	NA	NA	
8g	Survival rate	NA	NA	
8h	Water sprinkling on roads to control airborne dust	NA	NA	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	No adverse impact observed during mine visit as the river/lease is filled with water and no mining activity going on.		

**Compliance of Rule 45**

S.N.	Item	COMMENTS		Remarks
9a	Status of submission of Monthly and Annual returns	AR submitted upto 2018-19 and MR upto Jan'2020		
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 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.	0.1 ha roads	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		
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Nil		
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Nil		
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Ex. Mine price Rs 279.69/- & production cost Rs 195.895/-		
9i	Scrutiny of Annual return on fixed assets	Nil		
9k	Scrutiny of Annual return on mining machineries	Nil	Manual working	

**Details of violations observed during current inspection and compliance position of earlier violation pointed out:-** The earlier violations already taken compliance. The inspection is carried out for processing of Review of Mining Plan and during present inspection following violations pointed out:

Rule	Nature of Violation observed
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 1 <sup>st</sup> 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 2018-19 till date.
Rule 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 Mining Engineer and geologist not appointed.

**(Rajesh Kumar Das, Senior Assistant Controller of Mines)**