

# **MCDR INSPECTION REPORT**

## **1.0 GENERAL**

SN	Particulars	Details
1	Name of inspecting office, designation, Accompany person & File No.	Shri Rajesh Kumar Das Senior Assistant Regional Controller, Shri Rana Arun Kumar Singh, lessee's husband &CHG/DRG/LST- 38CHG05025
2	Date of inspection	23/08/2019
3	Name of the Mine	Sahegaon Lime Stone Mine
4	Total Lease Area (Ha) with breakup of Non-forest and forest land	4.318 Ha.
5	Mine Code	38CHG05025
6	IBM Registration Number under rule 45 of MCDR, 1988	IBM/21126/2017
7	Name of the lessee, Address, phone, email and fax number	Smt. Suman Singh 40 (old) Nehru Nagar Bhillai, Durg (C.G.)
8	Village	Sahgaon
8	Taluka/Mandal/District	Dhamdha/Durg
10	State	C.G.
11	Post office & PIN	Nandani Khundani
12	Nearest police station	Nandani Nagar
13	Nearest Railway station	Durg
14	Date of Grant of Mining Lease	18/05/2016
15	Date of Execution	18/05/2016
16	Date of opening of Mine	25/01/2017
17	Date of first Renewal, if applicable and its period & expiry	N.A.
18	Date of second Renewal, if applicable and its period & expiry	N.A.
19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	N.A.
20	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment.	N.A.
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	N.A.
22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Shri VishwapratapTondan Mob.-7000726743 D.O.A.:01/06/2018
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Shri VishwapratapTondan B.Tech (Mining) D.O.A.:01/06/2018
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 55& carrying out their duties as per rule 56&57.	Shri Naveen KumarTamrakar D.O.A.:01/06/2018
25	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 no. DRG/LST/MPLN-1121/NGP, Dated 23/11/2012 for period 2016-17 to 2020-21
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	Lime Stone

28	Method of Mining(Open cast, Underground)	Open Cast
29	Category (Fully Mechanised, Others or Manual)	A
30	Captive/Non Captive	Non Captive
32	Status of Financial Assurance as per rule 27 of MCDR, 2017	Rs 1000000/- upto 31.03.2021

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

### **1.0 Exploration**

SN	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	There is no proposal of exploration in 2018-19 but as per Mining Plan 2 bore hole proposed in 1 <sup>st</sup> year which is 2016-17 and till date the borehole proposed not drilled.
1c	Exploration Agency & Expenditure in lakh Rupees during the year	NA		

1d	Balance area to be explored to bring Geological axis in 1 or 2	The area already explored during prospecting period as reported with three bore hole with one bore hole of 30 meter and rest two are of 15 meters. But two infilling borehole proposed which was still not carried out.		
1e	Balance reserves as on 01.04.2019 (in Million Tonnes)	745821 tons	776021 tons	
1f	General remarks of inspecting officer on geology, exploration etc.	The Limestone deposit belongs to Nipania member of Chandi formation constitutes Raipur Group. The limestone are grey and purple in colour. The area already explored during prospecting period as reported with three bore hole with one bore hole of 30 meter and rest two are of 15 meters		

### **2.0 Development**

SN	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area (Range in UTM/Local Coordinate/Plot No./Location)	North	Broadly all along lease	
2b	Separate benches in topsoil, overburden and mineral (Rule 13)	Three Benches	Three Benches	
2c	Stripping ratio or ore to OB ratio	No OB generation proposed	1:2	
2d	Quantity of topsoil generation in m <sup>3</sup>	Nil	22350 m <sup>3</sup>	
2e	Quantity of overburden generation in m <sup>3</sup>	Nil	Nil	
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	The development is proposed in small area from BP no A-B & B-C but in actual the lease area is excavated from BP no G –J-K-A-B-D-E broad covered 80% of area.		

### 3.0 Exploitation

SN	Item	Proposals	Actual work	Remarks
3a	Number of pits proposed for production	1	1	
3b	Quantity of ROM mineral production proposed	25500	10500	2018-19
3c	Recovery of salable/usable mineral from ROM production	Not specifically proposed	100%	
3d	Quantity of mineral reject generation	Nil	Nil	
3e	Grade of mineral reject generation and threshold value declared	NA	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	Mechanised	Mechanised	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	NA	NA	
3j	Provision of drilling & blasting in mineral benches	Jack Hammer drill M/C	Jack Hammer drill M/C	
3k	Provision of mining machineries in mineral benches	Excavator Tipper	Excavator Tipper	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Top Soil – 3mtr LST - 3mtr	Top Soil – 3mtr LST - 3mtr	
3m	Total area covered under excavation/pits	approx 0.6 ha. area proposed for excavation upto 3 <sup>rd</sup> year 2018-19	Broadly 3 ha. already excavated	3 benches are proposed but only 1-2 benches developed.
3n	Ore to OB ratio for the pit/mine during the year	OB generation proposal nil		
3o	Total area put in use under different heads at the end of year	0.9 ha. Proposed for top soil dump, 0.18 ha. for road and 0.7450 ha. is proposed for pit in 5 year		
3p	Production of ROM mineral during last five-year period, as applicable (in Metric Tonnes)	2016-17 - 10500 2017-18 - 15000 2018-19 - 25500	2016-17 - Nil 2017-18 - 10300 2018-19 - 10500	
3q	General remarks of inspecting officer on method of mining etc.	The method of mining is by opencast method using shovel and having bench height of 2-3 meter.		

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

SN	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 36, 37)	Yes	Top soil is dump as per proposed area near BP no. I-H within lease area.	
4b	Location of topsoil, OB & mineral reject dumps (Range in UTM/Local Coordinate/Plot No./Location)	South West	South West	Only top soil dump
4c	Number of dumps within lease area and outside lease area	1 Within lease area	1 With in lease area	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 14)	South West	South West	
4e	Number of active & alive dumps	1	1	
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	Dump height is 2-3 meter
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	The mine was executed on 2016 therefore it is a new mine and top soil is dump with 2-3 meter height.		

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

SN	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 36)	NA	NA	
5d	Total area fully reclaimed & rehabilitated	Nil	Nil	
5e	General remarks of inspecting officer on backfilling, reclamation etc	Area not matured for backfilling.		

#### **6.0 Progressive Mine Closure Plan**

SN	Item	Proposals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly - Rule 23. Details should be given in the format as given in Annexure-20.	Yes	Afforestation done	

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	50 Tree	150 Tree	
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	NA	NA	
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	NA	NA	
6e	Compliance of Environmental monitoring (core zone & buffer zone)	NA	NA	
6f	General remarks of inspecting officer on PMCP compliance & progressive	Broadly as per proposal.		

### **7.0 Mineral Conservation**

SN	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	No sorting proposed	Rom dispatch	
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 ROM directly dispatches and during mine visit no sub grade of reject observed.		

### **8.0 Environment**

SN	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 36)	yes	As per proposal top soil dump	
8b	Concurrent use or storage of	South West Stock	South West Stock	

	topsoil			
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 37)	yes		
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 44)	50 nos saplings	150 nos reported	
8g	Survival rate	Not mentioned	40% reported	
8h	Water sprinkling on roads to control airborne dust	yes	yes	Water taker is proposed for sprinkling on quarry road.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines are	The mine is new and mining activity is on small scale and pit is developed max upto 5 meter depth therefore no such adverse impact observed on aesthetic beauty.		

## 9.0 Compliance of Rule 45

S. N.	Item	COMMENTS	Remarks
	Status of submission of Monthly and Annual returns	M.R. Submitted upto- JULY 2019 A.R. submitted upto- 2018-19	

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	Yes given	Shri Vishwa Pratap Tandan, Mining Engineer, Shri Naveen Tamrakar, Geologist, Manger name not given	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.		Covered under current working-1 ha. Already exploited area-1 Ha. Reclaimed area -1 ha.	The land use pattern is wrongly mentioned and there is no abandoned or earlier exploited area as the mine is new and 1 ha. area is given as reclaimed area is no

				correct. The top soil/OB dumping area not mentioned.
9d	Scrutiny of Annual return on afforestation	500 nos		Survival is reported 40%
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Nil		
9f	Scrutiny of Annual return on ROM stock and/or graded ore	2481 tons of Cement grade		
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Ex-mine price Rs 350/-, Sale Value Rs374/-, Cost of production Rs350/-		
9i	Scrutiny of Annual return on fixed assets	Rs 1362253/-		
9k	Scrutiny of Annual return on mining machineries	Shovel of 1 cum capacity.		

10- Details of violations observed during current inspection and compliance position of earlier violation pointed out:- During present inspection the following violation pointed out:

<b>Rule</b>	<b>Nature of Violation observed</b>
11(1)	<p>Mining operations should have been undertaken in accordance with the approved Mining Plan.</p> <p>The Mining Plan was approved vide letter no. DRG/LST/MPLN-1121/NGP dated 26.11.2012 and following deviation was observed during inspection</p> <ol style="list-style-type: none"> <li>1. In Mining Plan it was proposed to drill 2 bore holes of each 30 meter depth in first year of proposal but till date drilling not done</li> <li>2. The excavation/development is proposed in small area from BP no A-B &amp; B-C but in actual the lease area is excavated from BP no G –J-K-A-B-D-E and broadly covered 80% of lease area.</li> </ol>
45(5) (c)(i)	<p>The Annual return submitted is having following deficiencies:</p> <ol style="list-style-type: none"> <li>A. In place of name of manager it is mentioned 0.</li> <li>B. The land use pattern is wrongly mentioned and it is not matching with field position.</li> <li>C. The Ex-mine price &amp; cost of production is mentioned Rs350/- and Sale value is mentioned Rs 374/- which is not correct.</li> </ol>

The earlier violations pointed out is complied.

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