

MCDR INSPECTION REPORT

General

S. N.	Particulars	Details
1	Name of the Mine, Inspecting officer with Designation, Date of Inspection	Nandini-Khundini Limestone Mine, Rajesh Kumar Das, SrACOM, 06.06.2017
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	8.094 ha. (Private Land)
3	Mine code	38MPR13026
4	IBM Registration Number under rule 45 of MCDR, 1988	IBM/5681/2011
5	Name of the lessee, Address, phone, email and fax number	Shri Vikas Agarwal, E-39/4, Nehru Nagar(east), Bhilai, Post-Nehru Nagar, Dist.-Durg, Chhattisgarh-490020
6	Village	Nandini-Khundini
7	Taluka/Mandal	Dhamdha
8	District	Durg
9	Pincode	
10	State	Chhattisgarh
11	Post office	Dhamdha
12	Nearest police station	Dhamdha
13	Nearest Railway station	Dhamdha
14	Date of Grant of Mining Lease	22.06.1972
15	Date of Execution	
16	Date of opening of Mine	
17	Date of first Renewal, if applicable and its period & expiry	22.06.2002 to 21.06.2022
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	Shri Pradeep Kumar, Mining Engineer, C/O Shri Vikas Agarwal, E-39/4, Nehru Nagar(east), Bhilai, Post-Nehru Nagar, Dist.-Durg, Chhattisgarh-490020, phone no. 9425556666, e-mail: kumarble2014@gmail.com
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	No Geologist
25	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	Mining Plan for renewal approved on 20.12.2001 for period 2002-03 to 2006-07
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	Last scheme of Mining approved on 23.09.2013 for period 2012-13 to 2016-17

27	Mineral(s) granted in lease and proved for mining	Limestone
28	Method of Mining(Open cast, Underground)	Open cast
29	Category (Fully Mechanised, Others or Manual)	Mechanised
30	Captive/Non Captive	Non Captive

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	3 bore hole drilled in 2015-16
1b	Exploration over lease area for Geological axis 1 or 2.	Nil	Nil	No proposal in 2016-17
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	Nil	Nil	
1e	Balance reserves as on 01.04.201	Category 111-601299 Tons, 122-419125 Tons, 211-1498901 Tons & 222-706575 Tons		
1f	General remarks of inspecting officer on geology, exploration etc.	Three boreholes drilled upto depth of 20 meter from pit bottom and accordingly reserved established. The deposit is almost bedded formation striking almost east-west. The slope is about 2° to 3°		

Development

S.N.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area	NW of ML	Broadly as per proposal	The lease is almost more than 40 years old and broadly total lease area is exposed due to mining
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	NA	NA	Topsoil and waste generation is nil
2c	Stripping ratio or ore to OB ratio	NA	NA	
2d	Quantity of topsoil generation in m ³	Nil	Nil	
2e	Quantity of overburden generation in m ³	Nil	Nil	
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	As mentioned above that the lease is more than 40 years old and almost lease area is exposed due to mining and there were negligible OB and top soil left out therefore no specific development.		

Exploitation

S.N.	Item	Proposals	Actual work	Remarks
3a	Number of pits proposed for production	One	One	
3b	Quantity of ROM mineral production proposed(Tons)	74000	52640	
3c	Recovery of salable/usable mineral from ROM production	Not mentioned specifically	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	NA	NA	
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	yes	Jack hammer drilling(32mm) and blasting	
3k	Provision of mining machineries in mineral benches	Yes	Excavator 1.25 cum bucket capacity, dumper 10 ton capacity	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	yes	3-4 meter bench height in ore	
3m	Total area covered under excavation/pits	7.514 ha(till date)	Broadly as per proposal	
3n	Ore to OB ratio for the pit/mine during the year	NA	NA	No waste generation
3o	Total area put in use under different heads at the end of year	7.962 ha.	7.714 ha	Till date
3p	Production of ROM mineral during last five-year period, as applicable	2012-13: no approved document, 2013-14: 52000 tons, 2014-15: 68000 tons, 2015-16: 70000 tons, 2016-17: 74000 tons	2012-13: 41700 tons, 2013-14: 43500 tons, 2014-15: 60000 tons, 2015-16: 62600 tons, 2016-17: 52650 tons	
3q	General remarks of inspecting officer on method of mining etc.	The method of mining is by opencast method using shovel dumper combination and the working is broadly as per proposal.		

Solid Waste Management-Dumping

S.N.	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	NA	NA	No waste generation
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 comments on dump management as there is 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	Nil	
5e	General remarks of inspecting officer on backfilling, reclamation etc	The area is still not matured for backfilling and in the same time no waste generation for backfilling		

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.	No	No such proposal given	
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	NA	NA	
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) NA	i) NA	
6d	Compliance of Rehabilitation of waste land within lease	i) 45 nos	i) Nil	

	i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation			
6e	Compliance of Environmental monitoring (core zone & buffer zone)	NA	NA	
6f	General remarks of inspecting officer on PMCP compliance & progressive closure operations	There was no such proposal in PMCP except afforestation and no work done.		

Mineral Conservation

S.N.	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	NA	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	No beneficiation done within lease area and the total ROM dispatch Therefore no waste generation reported.		

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	Not mentioned specifically	NA	
8h	Water sprinkling on roads to control airborne dust	Yes proposed	Reported 10 K1 truck mounted water sprinkler is used for water sprinkling in haul road.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	The quantity of mining is very low therefore no such adverse impact observed on aesthetic beauty due to mining.		

Compliance of Rule 45

S.N.	Item	COMMENTS	Remarks
9a	Status of submission of Monthly	AR & MR upto date	

and Annual returns				
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	Mining engineer detail given	Shri Pradeep Kumar, Mining Engineer	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Land use pattern for area under pits-7.514 ha., waste disposal-0.26ha.,Infrastructure-0.022 ha.		
9d	Scrutiny of Annual return on afforestation	Nil within lease		
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Nil		
9f	Scrutiny of Annual return on ROM stock and/or graded ore	4948 tons cement grade		
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Cost of production is 202 Rs/ton and Ex-Mine price 319 Rs/ton		
9i	Scrutiny of Annual return on fixed assets	Nil		
9k	Scrutiny of Annual return on mining machineries	No machineries detail given		

Details of violations observed during current inspection and compliance position of earlier violation pointed out:- The mine was inspected for processing scheme of mining and no serious violation found but it was observed that few area the working is extended lease area and same has been communicated to state govt. regarding illegal mining.

In earlier inspection done by DCOM dated 16.12.2016 violation pointed out for Rule 23E (2), 27(4) & 42(1) (c)(i) follow up of violation will be done.

(Rajesh Kumar Das,SrACOM,06.06.2017)