

MCDR INSPECTION REPORT

General

S. N.	Particulars	Details
1	Name of the Mine	Pathrakundi Limestone Mine
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	9.716 ha. Govt. Land(Non-forest)
3	Mine code	38CHG14011
4	IBM Registration Number under rule 45 of MCDR, 1988	IBM/4565/2011
5	Name of the lessee, Address, phone, email and fax number	Shri Kedar Agarwal,C/66,Sector-4,Devendra Nagar,Raipur,kapilmining@gmail.com
6	Village	Pathrakundi
7	Taluka/Mandal	Kharora
8	District	Raipur
9	Pincode	
10	State	Chhattisgarh
11	Post office	Kharora
12	Nearest police station	Kharora
13	Nearest Railway station	Tilda
14	Date of Grant of Mining Lease	17/11/2000
15	Date of Execution	17/11/2000
16	Date of opening of Mine	
17	Date of first Renewal, if applicable and its period & expiry	NA
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	Shri Kedar Agarwal,Mine Owner
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	Shri Sanjay Sopanrao Chinchole,BE(Mining),C/O Shri Kedar Agarwal,C/66,Sector-4,Devendra Nagar,Raipur,kapilmining@gmail.com
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Shri Sanjay Sopanrao Chinchole,BE(Mining),C/O Shri Kedar Agarwal,C/66,Sector-4,Devendra Nagar,Raipur,kapilmining@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 appointed
25	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	Last Modified Mining Plan approved on 15/05/2017 for period 2017-18 to 2021-22
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	1 st scheme approved on 18/03/1999 for period 2007-08 to 2011-12 & 2 nd scheme on 05/06/2014 for period 2012-13 to 2016-17
27	Mineral(s) granted in lease and proved for mining	Limestone
28	Method of Mining(Opencast, Underground)	Opencast
29	Category (Fully Mechanised, Others or Manual)	Others
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	05	Nil	2017-18
1b	Exploration over lease area for Geological axis 1 or 2.	03	03	3 boreholes carried by lessee
1c	Exploration Agency & Expenditure in lakh Rupees during the year		Rs 3200/meter	The cost incurred drilling and analysis
1d	Balance area to be explored to bring Geological axis in 1 or 2	05	Nil	More than 50% area is not explored by drill holes
1e	Balance reserves as on 01.04.2018	2.7 million	2.7 million	
1f	General remarks of inspecting officer on geology, exploration etc.	The general topography of lease area is almost flat and 3 boreholes has been drilled by lessee and more than 50% area is still not explored by lessee and therefore 5 boreholes has been proposed to drilled in 2017-18 but still date not yet drilled..		

Development

S.N.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area	Pit 1	Pit1,2 &3	
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	yes	Broadly as per proposal	
2c	Stripping ratio or ore to OB ratio			
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.	The development is proposed in one pit but actually excavation is done from three pits.		

Exploitation

S.N.	Item	Proposals	Actual work	Remarks
3a	Number of pits proposed for production	one	Three	
3b	Quantity of ROM mineral production proposed(tons)	69500	49980	
3c	Recovery of salable/usable mineral from ROM production	100%	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	Yes given	Broadly as per proposal	

3k	Provision of mining machineries in mineral benches	yes	Hydraulic excavator & Dumper	List is given below in AR scrutiny
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes proposed	Broadly as per proposal	
3m	Total area covered under excavation/pits	No specific proposal	Till date approximately 6.188 ha. used for o/c working	
3n	Ore to OB ratio for the pit/mine during the year	1:0.23		
3o	Total area put in use under different heads at the end of year	No specific proposal yearwise	Till date approximately 6.188 ha. used for o/c working	
3p	Production of ROM mineral during last five-year period, as applicable	2017-18:69700 MT 2016-17:195000 MT 2015-16: 195000 MT 2014-15: 195000 MT 2013-14: 195000 MT	2017-18:49980 MT 2016-17:109045.52 MT 2015-16: 65127.06 MT 2014-15: 71333.48 MT 2013-14: 122799.12 MT	
3q	General remarks of inspecting officer on method of mining etc.	The method of mining is by opencast method and proposing bench height of 5-6 meter but as per actual the bench height is 8-9 meter in pit-1.		

Solid Waste Management-Dumping

S.N.	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	Yes	As per proposal	
4b	Location of topsoil, OB & mineral reject dumps	In 7.5 meter safety barrier	Broadly as per proposal	The soil
4c	Number of dumps within lease area and outside lease area	No major dump proposed	No major dump	
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	NA	NA	
4j	Number of settling ponds	Nil	Nil	
4k	Specific comments of inspecting officer on waste dump management	The waste generation is negligible therefore waste management is negligible.		

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	NA	NA	The mine is not matured for

	starting backfilling			backfilling
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 mine is not matured 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.	Given	Submitted	
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) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	i) NA	i) NA	
6e	Compliance of Environmental monitoring (core zone & buffer zone)	NA	NA	
6f	General remarks of inspecting officer on PMCP compliance & progressive closure operations	The afforestation proposal is given but the same is not carried out.		

Mineral Conservation

S.N.	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	No such proposal	NA	The ROM directly dispatch
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Mechanical	Mechanical	
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	There is no beneficiation within lease area only blending is done.		

Environment

S.N.	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	yes	Broadly as per proposal	
8b	Concurrent use or storage of topsoil	yes	Broadly as per proposal	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	yes	Broadly as per proposal	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No such proposal	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)	Nearly 6 ha. area is degraded for working pits and last approved document for five years 1000nos saplings to be planted in 7.5 meter safety barrier.	Till date no such afforestation done within lease area	
8g	Survival rate	NA	NA	
8h	Water sprinkling on roads to control airborne dust	10KL water tanker is proposed on blasted muck and haul road	Broadly as per proposal	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	The mining is small scale mining and degradation is less therefore no adverse impact on aesthetic beauty in and around mine observed during mine visit.		

Compliance of Rule 45

S.N.	Item	COMMENTS		Remarks
9a	Status of submission of Monthly and Annual returns	AR & MR is upto date		
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 appointed but no Geologist		

9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Information furnished	6.188 ha. for O/C working	
9d	Scrutiny of Annual return on afforestation	Nil	No afforestation within lease area	
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-199.50 Rs, Cost of production-198.50 Rs		
9i	Scrutiny of Annual return on fixed assets	Information given	Rs 5791809/-	
9k	Scrutiny of Annual return on mining machineries	Backhoe-1.2 cum(1 nos), Front end loader-1.5 cum.(1 nos), Tipper-11 cum(4 nos)		

Details of violations observed during current inspection and compliance position of earlier violation pointed out:- During last inspection carried out in 07.04.2017 no violation pointed out. During present inspection following

Rule	Nature of Violation observed
11(1)	<p>Mining operations should have been undertaken in accordance with the approved Mining Plan. The Modified Mining Plan was approved vide letter no. राय/चूना/खयो-1085/नाग/2017-रायपुर dated 15.05.2017 and following deviation was observed during inspection</p> <ol style="list-style-type: none"> 1. It was observed that exploration of 5 nos of boreholes was proposed in 2017-18 but till date no exploration was done. 2. It was proposed to work in on pit in western part of ML but excavation was in almost entire part of ML in three no.(from east to west) of pits. 3. In 2017-18, 1400 nos plantation is proposed but no plantation was done within mining area.
Rule 48	The holder of a mining lease shall keep a record in Form-J of all shafts or boreholes and shall retain such records but the same is not maintained of bore holes drilled.
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-iii.category 'A' mines, a whole-time mining engineer and a geologist; But it was observed no Geologist has been appointed.

(Rajesh Kumar Das, Senior Assistant Controller of Mines)