

MCDR INSPECTION REPORT

**General**

<b>S. N.</b>	<b>Particulars</b>	<b>Details</b>
1	Name of the Mine, Inspecting officer with Designation, Date of Inspection	Bharuadih Limestone Mine,Rajesh Kumar Das,Sr.ACOM,18.08.2017
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	3.11 Ha. Non Forest Govt. Land
3	Mine code	38CHG14014
4	IBM Registration Number under rule 45 of MCDR, 1988	IBM/12298/2012
5	Name of the lessee, Address, phone, email and fax number	Shri Navish Upadhay,MIG-83,Tatibandh,P.O.& Dist.-Raipur(C.G.)
6	Village	Baruadih
7	Taluka/Mandal	Baloda Bazar
8	District	Baloda Bazar
9	Pincode	
10	State	Chhattisgarh
11	Post office	Baloda Bazar
12	Nearest police station	Baloda Bazar
13	Nearest Railway station	Baloda Bazar
14	Date of Grant of Mining Lease	15.11.2000
15	Date of Execution	15.11.2000
16	Date of opening of Mine	29.03.2003
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	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	Shri Manoj Kumar Sharma,mine manager,C/O Shri Navish Upadhay,MIG-83,Tatibandh,P.O.& Dist.-Raipur(C.G.)
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Shri Hemant Kumar Devangan,Mining Engineer, C/O Shri Navish Upadhay,MIG-83,Tatibandh,P.O.& Dist.-Raipur(C.G.)
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	Mining Engineer appointed
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 on 27.03.2000 for the 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 approved on 20.08.2015 for the 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)	Manual
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	3 boreholes	3 boreholes	
1b	Exploration over lease area for Geological axis 1 or 2.	Broadly the lease area explored	Broadly the lease area explored	
1c	Exploration Agency & Expenditure in lakh Rupees during the year		100000 Rs	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Broadly the lease area explored	Broadly the lease area explored	
1e	Balance reserves as on 01.04.2017	Category 111-578222MT,221/222-1457627MT		
1f	General remarks of inspecting officer on geology, exploration etc.	The Lease is explored by 3 boreholes of 30 meter depth each and broadly covered the lease area and in addition one more bore hole upto 50 meter depth is proposed in the mining plan for future exploration. As per the regional geology the limestone deposit in ML area is almost flat and having dip 0-3° towards NE and the deposit is massive, medium hard and thickly bedded.		

### Development

S.N.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area	Central part of lease	Central part of lease	
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	Yes	As per proposal	
2c	Stripping ratio or ore to OB ratio	1:0.04	1:0.003	
2d	Quantity of topsoil generation in m <sup>3</sup>	150	Negligible	
2e	Quantity of overburden generation in m <sup>3</sup>	638	631	
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	The development is almost within proposal		

### Exploitation

S.N.	Item	Proposals	Actual work	Remarks
3a	Number of pits proposed for production	one	one	
3b	Quantity of ROM mineral production proposed(MT)	12750	12000	
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	Manual	Manual	
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	Yes	Jack hammer drilling blasting
3k	Provision of mining machineries in mineral benches	No	No	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	yes	BO/top soil bench height 0.5 to 1.0m & Limestone bench 3-4m	
3m	Total area covered under excavation/pits	Not mentioned specifically yearwise	1.077 ha. cumulative	
3n	Ore to OB ratio for the pit/mine during the year	1:0.04	1:0.003	
3o	Total area put in use under different heads at the end of year	1.641 ha.	1.210 ha.	
3p	Production of ROM mineral during last five-year period, as applicable(MT)	2012-13: 2890 2013-14: 2190 2014-15: 11250 2015-16: 11250 2016-17: 12750	2012-13: 2700 2013-14: 2080 2014-15: 6894 2015-16: 4620 2016-17: 12000	
3q	General remarks of inspecting officer on method of mining etc.	The method of mining is opencast manual method and broadly working is 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)	Yes	Broadly as per proposal	
4b	Location of topsoil, OB & mineral reject dumps	Northern Part	No major dump	
4c	Number of dumps within lease area and outside lease area	one	Nil	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	North	NA	
4e	Number of active & alive dumps	one	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	Nil	Nil	
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 waste generation is negligible therefore scope of dump management not exist.		

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

S.N.	Item	Proposals	Actual work	Remarks
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5a	Status on part or full extraction of mineral from mined out area before starting backfilling	Nil	Nil	
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)	Yes	For afforestation	
5d	Total area fully reclaimed & rehabilitated	Nil	Nil	
5e	General remarks of inspecting officer on backfilling, reclamation etc	Area still not matured for backfilling as pit is only 5-6 meter depth.		

### **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.	NA	NA	
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)	i)	
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	i) 100 saplings	i)50 saplings	
6e	Compliance of Environmental monitoring (core zone & buffer zone)	NA	NA	
6f	General remarks of inspecting officer on PMCP compliance & progressive closure operations	Broadly as per the proposal		

### **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	The ROM is totally dispatched and no reject is observed.		

### **Environment**

S.N.	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Yes	For afforestation	
8b	Concurrent use or storage of topsoil	yes	For afforestation	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Yes	No major dump observed	
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	30-40%	
8h	Water sprinkling on roads to control airborne dust	yes	Water sprinkling at haul road	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	The method of working is by manual means and no HEMM use and no deep hole blasting and mining is also on a small scale therefore no adverse impact observed on aesthetic beauty in and around mine.		

### **Compliance of Rule 45**

S.N.	Item	COMMENTS		Remarks
9a	Status of submission of Monthly and Annual returns	MR & AR 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	Information given for mining engineer & Manager	Mining Engineer- Hemant kumar devangan	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Under o/c working 0.9 ha., for waste disposal 0.25 ha., Infrastructure- 0.004 ha.		
9d	Scrutiny of Annual return on afforestation	25 nos within lease		
9e	Scrutiny of Annual return on mineral reject generation (Grade &	Nil		

	quantity)			
9f	Scrutiny of Annual return on ROM stock and/or graded ore	6300MT cement grade		
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Ex-mine price-250Rs, Cost of production-250R, Sale value-370Rs		
9i	Scrutiny of Annual return on fixed assets	Rs 3500000/-	For Land	
9k	Scrutiny of Annual return on mining machineries	No mine machineries		

**Details of violations observed during current inspection and compliance position of earlier violation pointed out:-** The mine is inspected for processing modified mining plan and during inspection the mine is non- working and no serious violation found.

Based on office record violation pointed out on 03.03.2017 under Rule 45(5)(a) ,45(5)(b). The violation pointed out complied.

**(Rajesh Kumar Das, SrACOM, 18.08.2017)**