

# MCDR INSPECTION REPORT

## 1.0 GENERAL

SN	Particulars	Details
1	Name of the inspecting officer	J.S. Hada, AMG
2	Date of Inspection	9.9.2017
3	Accompanying mine official	Lessee and Mining Engineer Shri K.L. Sharma
4	Name of the Mine	Bitkuli
5	Total Lease Area (Ha) with breakup of Non-forest and forest land	Total 4.196 ha Non -forest land
6	Minecode	38CHG14012
7	IBM Registration Number under rule 45 of MCDR, 1988	IBM/4989/2011
8	Name of the lessee, Address, phone, email and fax number	Shri Khem Lal Verma, Teacher's Colony, Near Children Garden, Bajrang Ward no. 5, P.O. Tilda, Distt. Raipur, CG 493 114 Phone no. 07726-286220 (o), 9753152650, 9669399652 Email: hitech_ashok@yahoo.com,
9	Village	Bitkuli
10	Taluka/Mandal	Simga
11	District	Balodabazar
12	Pincode	493 114
13	State	Chhattisgarh
14	Post office	Suhela
15	Nearest police station	-
16	Nearest Railway station	Tilda
17	Date of Grant of Mining Lease	17.12.2002 for 20 years
18	Date of Execution	17.12.2002
19	Date of opening of Mine	25.12.2002
20	Date of first Renewal, if applicable and its period & expiry	NA
21	Date of second Renewal, if applicable and its period & expiry	NA
22	Date of submission of renewal application if Mining Operations are continuing under deemed extension	NA
23	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	NA
24	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	None
25	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	None
26	Name of the Mining Engineer, Qualification and total experience	Shri K.L. Sharma, B.E. (Mining) Mining Engineer

	with Address, phone, email, fax number and date of appointment in mine	
27	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	Yes
28	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	MP (Lease Area: 4.949 ha): 26.3.2002 Modified MP (Lease Area: 4.196 ha): 19.10.2004
29	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	2 <sup>nd</sup> Scheme of Mining approved on 28.4.2015, 2013-14 to 2017-18
30	Mineral(s) granted in lease and proved for mining	Limestone
31	Method of Mining (Opencast, Underground)	Opencast
32	Category (Fully Mechanised, Others or Manual)	Category A (OTFM)
33	Captive/Non Captive	Non Captive
34	FA	Rs 200000/- valid till 16-12-2022, V/L issued for Rule 27(2).

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

### Exploration

SN	Item			
1a	Backlog of previous year	Nil	2 Boreholes drilled from the pit bottom.	
1b	Exploration over lease area for Geological axis 1 or 2.	Nil	G1- 4.196 ha, upto 231 mRL	
1c	Exploration Agency & Expenditure in lakh Rupees during the year	Lessee	Lessee , Rs 80000/-	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	Above 2 boreholes were drilled to a depth of 20m from pit bottom.	
1e	Balance reserves as on 01.04.2017		111 – 20,94,101 221 – 13,12,650	
1f	General remarks of inspecting officer on geology, exploration etc.	Nil		

### 2.0 Development

SN	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area	Central part of the lease area	Central part of the lease area	
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	Separate benches in top soil, OB, mineral	Separate benches are being maintained.	
2c	Stripping ratio or ore to OB ratio	1:0	1.0	Negligible OB/Top soil
2d	Quantity of topsoil generation in m3	0	0	
2e	Quantity of overburden generation in m3	50	20	
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	Nil		

### 3.0 Exploitation

	Item	Proposals	Actual work	Remarks
3a	Number of pits proposed for production	1	1	
3b	Quantity of ROM mineral production proposed	73150 t	72846.92 t	
3c	Recovery of salable/usable mineral from ROM production	95 %	95%	
3d	Quantity of mineral reject generation	0	0	
3e	Grade of mineral reject generation and threshold value declared	Threshold – 34 % CaO	-	
3f	Quantity of sub-grade mineral generation	None	NA	
3g	Grade of sub-grade mineral generation	NA	NA	
3h	Manual / Mechanised method adopted for segregating from ROM	Manual and Mechanised	Manual and Mechanised	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	None	NA	
3j	Provision of drilling & blasting in mineral benches	Elgi- 85mm dia, Atlas Copco- 34mm dia	Elgi- 85mm dia, Atlas Copco-34mm dia	
3k	Provision of mining machineries in mineral benches	Excavator (PC 210) with Rock breaker/Dumper	Excavator/Rock breaker/Dumper	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	-	Yes	
3m	Total area covered under excavation/pits	3.304 ha	3.304 ha	
3n	Ore to OB ratio for the	1:0	1:0	No OB/Soil

	pit/mine during the year			
3o	Total area put in use under different heads at the end of year	Workings -3.304 ha Dump – 0.158 ha Infrastructure- 0.011ha Roads – 0.065 ha Others – 0.056	Workings -3.304 ha Dump – 0 ha	
3p	Production of ROM mineral during last five-year period, as applicable	2017-18: 73150 2016-17: 73150, 2015-16: 73150, 2014-15: No proposal 2013-14: No proposal	2016-17: 37567.4 till 30.9.2017 2016-17: 72846, 2015-16: 39565, 2014-15: 55112 2013-14: 59188	
3q	General remarks of inspecting officer on method of mining etc.	Nil		

#### 4.0 Solid Waste Management-Dumping

SN	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	Yes	Yes	
b	Location of topsoil, OB & mineral reject dumps	Top Soil – on the 7.5m boundary barrier.	Top Soil – on the 7.5m boundary barrier.	
4c	Number of dumps within lease area and outside lease area	One, within lease boundary	One, within lease boundary	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Temporary dump	Temporary dump	
4e	Number of active & alive dumps	One	one	
4f	Number of dead dumps	None	None	
4g	Number of dumps stabilised	None	None	
4h	Whether Retaining wall or garland drain all along dumps are there	None	NA	
4i	Length of Retaining wall or garland drain all along dump	NA	NA	
4j	Number of settling ponds	None	NA	
4k	Specific comments of inspecting officer	Nil		

#### 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	None	NA	
5b	Area under backfilling of mined out area	None	NA	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	None	NA	
5d	Total area fully reclaimed & rehabilitated	None	NA	
5e	General remarks of inspecting officer on backfilling, reclamation etc	Nil		

#### 6.0 Progressive Mine Closure Plan

SN	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.	-	Nil	
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	None	NA	
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	None	NA	
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	100 saplings per year	150 saplings within lease area, 80% survived.	
6e	Compliance of Environmental monitoring (core zone & buffer zone)	-	Monitoring of Air, water, Noise is being done.	
6f	General remarks of inspecting officer on PMCP compliance & progressive	Nil		

## **7.0 Mineral Conservation**

SN	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	None	NA	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	None	NA	
7c	Different grade of mineral sorted out at mines	None	NA	
7d	Any beneficiation process at mines	None	NA	

7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	Nil
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## 8.0 Environment

SN	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Yes	Nil	No soil generation during the year 2016-17
8b	Concurrent use or storage of topsoil	Yes	Nil	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Yes	Yes	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Nil	Nil	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Nil	0.022 ha area afforested with 100 saplings at road side.	
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	100	150 saplings planted inside the lease.	
8g	Survival rate	80%	80%	
8h	Water sprinkling on roads to control airborne dust	Proposed	Being done	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines are	Nil		

## 9.0 Compliance of Rule 45

S.N.	Item	COMMENTS	Remarks
	Status of submission of Monthly and Annual returns	AR 2016-17: submitted online MR: Being regularly submitted online	

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- Shri K.L. Sharma,	Mining Engineer- Shri K.L. Sharma,	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed	Workings: 2.02 ha Plantation: 0.500 ha	Workings: 2.02 ha Plantation: 0.500 ha	

	area, dumps etc.			
9d	Scrutiny of Annual return on afforestation	Planted 200 saplings in the lease area and 100 outside lease.	Planted 200 saplings in the lease area and 100 outside lease.	
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Nil	Nil	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Nil	Nil	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Sale Value: 31154120.00 Ex-mine price: Rs 227.20/t Cost of production: Rs 218/t	Sale Value: 31154120.00 Ex-mine price: Rs 227.20/t Cost of production: Rs 218/t	
9i	Scrutiny of Annual return on fixed assets	Rs 18000000	Rs 18000000	
9k	Scrutiny of Annual return on mining machineries	Excavator- 1 Tipper - 6 Air Compressor-1	Excavator- 1 Tipper - 6 Air Compressor-1	

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

For violation of Rule 27 (2), a violation letter issued to the lessee on 29.11.2017:

नियम	उल्लंघन का ब्योरा
27(2)	The difference of Financial Assurance as required under Rule 27(1) and Financial assurance already submitted by you, has not been submitted to the authorized officer in the form of a bank guarantee within 90 days from 28 February 2017.

(J.S. Hada)  
Assistant Mining Geologist