

MCDR INSPECTION REPORT

1.0 GENERAL

SN	PARTICULARS	DETAILS
1	Name & Designation of the inspecting officer	Mr. Rajesh Kumar Das, Sr. Assistant Controller of Mines
2	Date of Inspection	19.03.2019
3	Accompanying mine personnel	1.Mr. Upendra Kumar AGM(M)/Regional Officer 2 Mr Subhash Kujur, Mines Manager 3.Mr. Dhrijpal Singh Kanwar (Jr. Foreman) 4 Mr. Salabh Shah (Qualified Personal)
4	Name of the Mine	Barima Bauxite mine
5	Total Lease Area (Ha) with breakup of Non-forest and forest land	54.268 ha. Private. land (Non- forest)
6	Mine code, File No.	07CHG16010,CHG/SRG/BX-07CHG16010
7	IBM Registration Number under rule 45 of MCDR, 1988	IBM/8239/2011
8	Name of the lessee, Address, phone, email and fax number	M/S Chhattisgarh Mineral Development Corporation Ltd. Sonakhan Bhawan Ring road no. 01, village - purena post ravigram raipur chhattishgarh, 492006
9	Village	Barima
10	Taluka/Mandal	Mainpat
11	District	Surguja
12	Pincode	497111
13	State	Chhattishgarh
14	Post office	Narmadapur
15	Nearest police station	Kamleshwar
16	Nearest Railway station	Ambikapur
17	Date of Grant of Mining Lease	08.02.2010
18	Date of Execution	07.02.2040
19	Date of opening of Mine	01.04.2017
20	Date of first Renewal, if applicable and its period & expiry	Nil
21	Date of second Renewal, if applicable and its period & expiry	Nil
22	Date of submission of renewal application if Mining Operations are continuing under deemed extension	Nil
23	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Mrs. K.C. Devsenapathi (I.A.S.) Chhattisgarh Mineral Development Corporation Ltd. Sonakhan Bhawan Ring road no. 01, village -purena post ravigram raipur chhattishgrh, 492006 Email :-cmdcraipurgmail.com,DOA-07.02.2019
24	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Mr. S.K.Pandey AGM (Geology) Chhattisgarh Mineral Development Corporation Ltd. Sonakhan Bhawan Ring road no. 01, village -purena post ravigram raipur chhattishgrh, 492006 Email :-cmdcraipurgmail.com Mob:- 9926533449
25	Name of the Mines Manager with	Mr. Subhash Kujur

	Address, phone, email, fax number and date of appointment in mines	Chhattisgarh Mineral Development Corporation Ltd. Village Narmadapur Post – Narmadapur District Surguja Email :- cmdcambikapur@gmail.com Mob:- 8349213976
26	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Mr. Upendra Kumar Chhattisgarh Mineral Development Corporation Ltd. Village Narmadapur Post – Narmadapur District Surguja Email :- cmdcambikapur@gmail.com Mob:- 9630753321
27	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	Mr. S.K. Pandey Mr. Upendra Kumar
28	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	The Mining Plan was approved under 22 of MCR 1960 vide letter no. SRG/BX/MPNL-947/NGP, dated 02.02.2007 for period 2009-10 to 2013-14.
29	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	The Modified Mining Plan was approved under 22(6) of MCR 1960 vide letter no. SRG/BX/MPLN-949/NGP Date 16.09.2015 for the period 2014-15 to 2018-19 with proposal for balance period 2016-17 to 201819
30	Mineral(s) granted in lease and proved for mining	Bauxite
31	Method of Mining (Opencast, Underground)	Opencast
32	Category (Fully Mechanised, Others or Manual)	Mechanized
33	Captive/Non Captive	Non Captive
34	EC for ROM Prod: Date of Issue:	115327 MT for clean ore 28.01.2016
35	FA amount Rs Valid up to:	Rs. 59,04,000/- 31 st March 2019

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

Exploration

SN	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	24 boreholes	Nil	
1b	Exploration over lease area for Geological axis 1 or 2.	24 boreholes	Nil	
1c	Exploration Agency & Expenditure in lakh Rupees during the year	Not mentioned specifically	NA	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	Nil	
1e	Balance reserves as 01.04.2018 (MT)	316331	480000	Due to less production

1f	General remarks of inspecting officer on geology, exploration etc.	Bauxite occurs in lensoid form within laterite horizon with comprises various recognizable lithologic units.
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2.0 Development

SN	ITEM	PROPOSALS	ACTUAL WORK	REMARKS
2a	Location of development w.r.t. lease area	Almost in centre in Block A	In south-western side of Block A and Block B	The mine working was started on 01.04.2017
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	Maintained	Maintained	
2c	Stripping ratio or ore to OB ratio	Not mentioned specifically	The waste is used for concurrent backfilling	
2d	Quantity of topsoil generation in m ³	145135	140132	
2e	Quantity of overburden generation in m ³	129838	128332	
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	The development was not carried out as per proposal and excavation was done in almost entire part of ML and some places working has been extended in 7.5 meter safety barriers.		

3.0 Exploitation

	Item	Proposals	Actual work	Remarks																		
3a	Number of pits proposed for production	1	2	Working in small patches in various places																		
3b	Quantity of ROM mineral production proposed (t)	115327	113972																			
3c	Recovery of salable/usable mineral from ROM production (t)	115327	113972																			
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	No	No																			
3j	Provision of drilling & blasting in mineral benches	Yes with Jack hammer drill.	Yes with Jack hammer drill.																			
3k	Provision of mining machineries in mineral benches	Yes given	<table border="1"> <tbody> <tr> <td>DTH Drills</td> <td>1</td> <td>65 mm</td> </tr> <tr> <td>Jack Hammers</td> <td>1</td> <td>32 mm</td> </tr> <tr> <td>Compressor</td> <td>1</td> <td>--</td> </tr> <tr> <td>Hydraulic Excavators</td> <td>1</td> <td>0.9 cum</td> </tr> <tr> <td>Portable small dozer</td> <td>1</td> <td>-</td> </tr> <tr> <td>Dumper</td> <td>1</td> <td>10 tonner</td> </tr> </tbody> </table>	DTH Drills	1	65 mm	Jack Hammers	1	32 mm	Compressor	1	--	Hydraulic Excavators	1	0.9 cum	Portable small dozer	1	-	Dumper	1	10 tonner	
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3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	yes	Broadly as per proposal	
3m	Total area covered under excavation/pits	15.08 Ha	7.120 Ha	
3n	Ore to OB ratio for the pit/mine during the year	Not mentioned specifically	The waste is used for concurrent backfilling	
3o	Total area put in use under different heads at the end of year	Not mentioned specifically yearwise	9.515 Ha cumulative	
3p	Production of ROM mineral during last five-year period, as applicable	2016-17-90777 MT 2017-18-115327 MT 2018-19-114759 MT	2016-17-nil 2017-18-113972MT 2018-19-37096 MT(upto feb'19)	
3q	General remarks of inspecting officer on method of mining etc.	The mining operation is being carried out by open cast mining method, by deploying shovel-tipper for excavation, loading and transportation and working is being done broadly as per proposal.		

4.0 Solid Waste Management-Dumping

SN	ITEM	PROPOSALS	ACTUAL WORK	REMARKS
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	Top soil will be separately dump temporarily	Top soil is separately dump temporarily	
b	Location of topsoil, OB & mineral reject dumps	Not proposed	No major dump only small stack of topsoil kept at edge of pit for backfilling	
4c	Number of dumps within lease area and outside lease area	Not proposed	No major dump observed	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Not proposed	NA	
4e	Number of active & alive dumps	Not proposed	Nil	
4f	Number of dead dumps	No proposed	Nil	
4g	Number of dumps stabilized	No proposed	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there	Not proposed	Nil	
4i	Length of Retaining wall or garland drain all along dump	Not proposed	Nil	
4j	Number of settling ponds	Not proposed	Nil	
4k	Specific comments of inspecting officer on waste dump management	The working is shallow depth working of 4-8 meter depth and after removing ore body the waste/OB is backfilled therefore no major dump.		

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	Yes	All pits are in active condition	
5b	Area under backfilling of mined out area	5.19 ha. proposed 2017-18	All pits are in active condition hence no backfilling done	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	proposed	Presently no backfilling area	
5d	Total area fully reclaimed & rehabilitated	About 8.4 Ha upto 2018-19	All pits are in active condition	
5e	General remarks of inspecting officer on backfilling, reclamation etc	The area proposed for production is deviated and more area has been excavated therefore area is still not started 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 23E(2). Details should be given in the format as given in Annexure-20.	Yes	Broadly as per proposal	.
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	i) 12.69 Ha ii) 8.40 Ha iii) 21000 nos. iv) 21000 nos.	Nil	All pits are in active condition and area not matured for backfilling due to less production and area deviation.
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	i) 2.39 Ha ii) 12.69 Ha iii) 8.40 Ha	Nil	

6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	i) 8.4 Ha ii) 8.4 Ha iii) Plantation	Nil	
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Proposed	Broadly as per proposal.	
6f	General remarks of inspecting officer on PMCP compliance & progressive	All pits are in active condition and area not matured for backfilling due to less production and area deviation.		

7.0 Mineral Conservation

SN	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	yes	As per proposal	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	manual	Manual sorting is being done	
7c	Different grade of mineral sorted out at mines	yes	Manual sorting is being done	
7d	Any beneficiation process at mines	Not proposed	NA	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	The manual sorting is done and different grade mineral sack is kept for dispatch.		

8.0 Environment

SN	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Proposed	Actual work as proposed	
8b	Concurrent use or storage of topsoil	Proposed	Actual work as proposed	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Proposed	Actual work as proposed	No major dump only small sack kept near pit edge for backfilling
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Proposed	Back filling work as at to start	

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Proposed	Back filling work as at to start	
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	No existence plantation as the mine is open in 2017 and afforestation proposed in 2017-18 in 3.2 ha. area	no plantation done	
8g	Survival rate	Not mentioned specifically	NA	
8h	Water sprinkling on roads to control airborne dust	Regular water sprinkling	Broadly as per proposal	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	The mine is recently start working from 2017 and mining is done upto shallow depth therefore no adverse impact observed on aesthetic beauty in and around mines area.		

9.0 Compliance of Rule 45

S. N.	Item	COMMENTS	Remarks
	Status of submission of Monthly and Annual returns	AR submitted upto 2017-18 and MR upto feb'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 Deepak Gupta, Mining Engineer, Shri S.K.Pandey, Geologist	Mining transferred to some other place
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Yes given	Only area under PMCP is given 5.583 ha.	
9d	Scrutiny of Annual return on afforestation	Yes given	Within lease area nil and outside lease area 1500 saplings reported	
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 &	Yes given	Ex. Mine price- Rs369/- production cost-Rs	

	production cost		898.6/-	
9i	Scrutiny of Annual return on fixed assets	Nil	Contractual working	
9k	Scrutiny of Annual return on mining machineries	Yes given	Dumper 16 ton capacity & backhoe 1 cum bucket capacity	

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

नियम	उल्लंघन के प्रकार का विस्तृत ब्यौरा
11(1)	<p>Mining operations should have been undertaken in accordance with the approved Mining Plan.</p> <p>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 proposed to work in one pit in Centre part of ML but excavation was in almost entire part of ML and some places working has been extended in 7.5 meter safety barriers. 2. In 2017-18it was proposed to do afforestation in more than 5 ha. area 16000 nos saplings but no such afforestation done..

Earlier inspection by Shri J.S.Hada, AMG done on 14.04.2018 and violation pointed out under Rule 11(1), 26(2) & 55 but still Rule 11(1) for exploration proposed not complied.

Rajesh Kumar Das,
Senior Assistant Controller of Mines