

MCDR INSPECTION REPORT

1.0 GENERAL

S.N.	PARTICULARS	DETAILS
1	Name & Designation of the inspecting officer	Mr. R. K. Das, Sr. Assistant Controller (Mines), Inspection is done for processing Final Mine Closure Plan
2	Date of Inspection	15.10.2018
3	Accompanying mine personnel	1.Mr. Upendra Kumar 2.Mr. Chandan Kumar Gupta (Geologist) 3.Mr. Priyaranjan (Assistant Geologist)
4	Name of the Mine	Barima Bauxite mine
5	Total Lease Area (Ha) with breakup of Non-forest and forest land	610 ha. Private land (Non- forest)
6	Minecode	07CHG16007
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	497001
13	State	Chhattishgarh
14	Post office	Kamleshwarpur
15	Nearest police station	Kamleshwarpur
16	Nearest Railway station	Ambikapur
17	Date of Grant of Mining Lease	01.04.2006
18	Date of Execution	26.07.2006
19	Date of opening of Mine	16.06.2008
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. Alarmelmangai D. (I.A.S.) Chhattisgarh Mineral Development Corporation Ltd. Sonakhan Bhawan Ring road no. 01, village -purena post ravigram raipur chhattisgarh, 492006 Email :-cmdcraipur@gmail.com Mob. :-

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 chhattisgarh, 492006 Email :-cmdcraipur@gmail.com Mob:- 9926533449
25	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Mr. Upendra Kumar Chhattisgarh Mineral Development Corporation Ltd. Bihand Carmel School Housing Board Colony, Namnakala Ambikapur (C.G.) Email :- cmdcambikapur@gmail.com Mob:- 8839053614
26	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Mining Engineer not appointed and Mr. Upendra Kumar(Mining Engineer) is nominated as Mine Manager
27	Whether Geologist and Mining Engineer appointed in mines Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	No
28	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	Letter no. SRG/BX/MPLN-919/NGP date 04.06.2014
29	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	Letter no. SRG/BX/MPLN-919/NGP date 04.06.2014
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)	Semi-mechanised
33	Captive/Non Captive	Non Captive
34	EC for ROM Prod: Date of Issue:	23000 MT 31.03.2014
35	FA amount Rs Valid up to:	Rs.- 1383000.00 Valid up to- 31.03.2020

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

Exploration

S.N.	ITEM	PROPOSALS	ACTUAL WORK	REMARKS
1a	Backlog of previous year	Exploration was not proposed.	In 2018-19 M/S CMDC ltd have drilled 3 boreholes.	To prove mineralized area in existing quarry.

1b	Exploration over lease area for Geological axis 1 or 2.	Total 9 bore hole drilled.	In 2018-19 M/S CMDC ltd have drilled 3 boreholes.	Total lease area is 4.610ha and mining operation was carried out in the past which covers about 4.446ha out of which 0.680 ha is fully reclaimed and rehabilitated by plantation & 3.766ha area is partially backfilled. Recently in 2018-19 M/S CMDC ltd have drilled 3 boreholes in partially backfilled area, all 3 are negative and proved no further mineralization in depth.
1c	Exploration Agency & Expenditure in lakh Rupees during the year	Balco Industries ltd. Balco Nagar, Korba. Pin- 495684. Expenditure incurred in various prospecting	In 2018-19 M/S CMDC ltd have drilled 3 boreholes.	

		operations - 3.72 lakhs.		
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil		
1e	Balance reserves as on 01.04.2018	364.32 MT	364.32 MT	
1f	General remarks of inspecting officer on geology, exploration etc.	The area is broadly explored and excavated and few area is still virgin at the time of inspection therefore exploration in that area is suggested. The lessee is drilled 3 boreholes in that area and which is reported non-mineralised zone.		

2.0 Development

S.N.	ITEM	PROPOSALS	ACTUAL WORK	REMARKS
2a	Location of development w.r.t. lease area	Production was not proposed. In approved scheme of mining mine development was only proposed for year 2013-14 & 2014-15 as life of mine was only 2 years.	Mine is non-working after 2015	-
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	Not applicable, as mine development was not proposed.	Mine is non-working after 2015	
2c	Stripping ratio or ore to OB ratio	Not applicable, as mine development was not proposed.	NA	
2d	Quantity of topsoil generation in m3	NIL	Nil	
2e	Quantity of overburden generation in m3	Not applicable, as mine development was not proposed.	Nil	
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	The mine was non-working after 2015.		

3.0 Exploitation

S.N.	Item	Proposals	Actual work	Remarks
3a	Number of pits proposed for production	No proposal	<u>NA</u>	
3b	Quantity of ROM mineral production proposed	No proposal	NA	
3c	Recovery of salable/usable mineral from ROM production	No proposal	NA	
3d	Quantity of mineral reject generation	Nil	NA	
3e	Grade of mineral reject generation and threshold value declared	NA	NA	
3f	Quantity of sub-grade mineral generation	Nil	NA	
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	NA	NA	
3k	Provision of mining machineries in mineral benches	In last approved document life of mine is mentioned two years and no working is reported after 2015 therefore no mining machinery used or proposed.		

3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Not applicable, as mine development was not proposed.	NA																																															
3m	Total area covered under excavation/pits	Not applicable, as mine development was not proposed.	Nil																																															
3n	Ore to OB ratio for the pit/mine during the year	NA	NA																																															
3o	Total area put in use under different heads at the end of year	<table border="1"> <thead> <tr> <th>Item details</th> <th>Proposed area in last document (ha)</th> </tr> </thead> <tbody> <tr> <td>i) Area under mining</td> <td>2.76</td> </tr> <tr> <td>ii) Storage for top soil</td> <td></td> </tr> <tr> <td>iii) Waste dump site</td> <td></td> </tr> <tr> <td>iv) Mineral storage</td> <td></td> </tr> <tr> <td>v) Infrastructure –workshop, administrative building etc.</td> <td></td> </tr> <tr> <td>vi) Roads</td> <td>0.26</td> </tr> <tr> <td>vii) Railways</td> <td></td> </tr> <tr> <td>viii) Tailing pond</td> <td></td> </tr> <tr> <td>ix) Effluent Treatment Plant</td> <td></td> </tr> <tr> <td>x) Mineral Separation Plant</td> <td></td> </tr> <tr> <td>xi) Reclaimed area</td> <td>3.226</td> </tr> <tr> <td>xii) Others Green Belt</td> <td>3.226</td> </tr> <tr> <td>Subtotal</td> <td></td> </tr> <tr> <td>xiii) Undisturbed Area</td> <td></td> </tr> </tbody> </table>	Item details	Proposed area in last document (ha)	i) Area under mining	2.76	ii) Storage for top soil		iii) Waste dump site		iv) Mineral storage		v) Infrastructure –workshop, administrative building etc.		vi) Roads	0.26	vii) Railways		viii) Tailing pond		ix) Effluent Treatment Plant		x) Mineral Separation Plant		xi) Reclaimed area	3.226	xii) Others Green Belt	3.226	Subtotal		xiii) Undisturbed Area		<table border="1"> <thead> <tr> <th>Item details</th> <th>Actual area as on 01.04.2018 (ha)</th> </tr> </thead> <tbody> <tr> <td>i) Area under mining</td> <td>0</td> </tr> <tr> <td>ii) Storage for top soil</td> <td>0.469 (Falls under reclaimed area)</td> </tr> <tr> <td>iii) Waste dump site</td> <td>0</td> </tr> <tr> <td>iv) Mineral storage</td> <td>0</td> </tr> <tr> <td>v) Infrastructure – workshop, administrative building etc.</td> <td>0</td> </tr> <tr> <td>vi) Roads</td> <td>0.0 (comes under reclaimed area)</td> </tr> <tr> <td>vii) Railways</td> <td>0</td> </tr> </tbody> </table>	Item details	Actual area as on 01.04.2018 (ha)	i) Area under mining	0	ii) Storage for top soil	0.469 (Falls under reclaimed area)	iii) Waste dump site	0	iv) Mineral storage	0	v) Infrastructure – workshop, administrative building etc.	0	vi) Roads	0.0 (comes under reclaimed area)	vii) Railways	0	
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		xiii) Total in ha	2.76		viii) Tailing pond	0	
					ix) Effluent Treatment Plant	0	
					x) Mineral Separation Plant	0	
					xi) Reclaimed area	4.446	
					xii) Others Green Belt	0.0 (0.835 ha area of S.Z. comes under reclaimed area)	
					Subtotal	4.446	
					xiii) Undisturbed Area	0.164	
					xiii) Total in ha	4.61	
3p	Production of ROM mineral during last five-year period, as applicable	Year	ROM in cum		Year	ROM in cum	Target not achieved due to land dispute.
		2013-14	13598.00		2013-14	Nil	
		2014-15	21080.00		2014-15	20205.00	
		2015-16	-		2015-16	-	
		2016-17	-		2016-17	-	
		2017-18	-		2017-18	-	
3q	General remarks of inspecting officer on method of mining etc.	No working therefore not applicable.					

4.0 Solid Waste Management-Dumping

S N	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	Not applicable, as mine development was not proposed.	There is 1old top soil dump located in within the lease area.	-
b	Location of topsoil, OB & mineral reject dumps	Not proposed.	Nil	
4c	Number of dumps within lease area and outside lease area	Not proposed.	There is 1old top soil dump located in within the lease area.	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Not proposed.	There is 1old top soil dump located in within the lease area.	
4e	Number of active & alive dumps	Nil	NA	
4f	Number of dead dumps	Nil	Nil	
4g	Number of dumps stabilized	Nil	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	Nil	Nil	
4j	Number of settling ponds	Nil	Nil	
4k	Specific comments of inspecting officer on waste dump management	No production and development therefore not applicable		

5.0 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	As per approved Scheme of Mining reclamation work start after full extraction of mineral from quarry. backfilling was not proposed as, life of mine was only 2 years from year 2013-14 & 2014-15.	No reclamation work was carried out during the year.	
5b	Area under			

	backfilling of mined out area	Not proposed.	Nil	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	As per approved Modified scheme of Mining the top soil shall be spread over reclaimed area for plantation purpose.	Nil	
5d	Total area fully reclaimed & rehabilitated	Not proposed	Total lease area is 4.610ha and mining operation was carried out in the past which covers about 4.446ha out of which 0.680 ha is fully reclaimed and rehabilitated by plantation & 3.766ha area is partially backfilled.	
5e	General remarks of inspecting officer on backfilling, reclamation etc	The mine is non-working since 2015 and mine pit was already reclaimed partially.		

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.	No 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	Nil	Nil	
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	Nil	Nil	

6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha)			
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	iii) Method of rehabilitation			
6e	Compliance of Environmental monitoring (core zone & buffer zone)			
6f	General remarks of inspecting officer on PMCP compliance & progressive closure operations	The area was partially reclaimed and some area partially backfilled.		

7.0 Mineral Conservation

SN	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	There was no proposal for Production & dispatch of Mineral.	Nil	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Not applicable	Nil	
7c	Different grade of mineral sorted out at mines	Not applicable	Nil	
7d	Any beneficiation process at mines	No	Nil	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	Not applicable		

8.0 Environment

SN	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Not proposed	There is 1old top soil dump located in within the lease area.	
8b	Concurrent use or storage of topsoil	Not proposed	There is 1old top soil dump located in within the lease area, shall be used for backfilling.	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Not proposed	Nil	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Not proposed	Nil	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations	Not proposed	Nil	

	(Pits, dumps etc)			
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	Not proposed	Nil	
8g	Survival rate	-	-	
8h	Water sprinkling on roads to control airborne dust	There was proposal of utilization of 1 water taker with 10000 litre capacity for water sprinkling on roads to control airborne dust.	1 water taker with 10000 litre capacity for water sprinkling is carried out.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area.	As already mentioned that mining area is partially reclaimed and lessee is submitted FMCP and no production and development going after 2015 therefore no adverse impact on aesthetic beauty in and around mine.		

9.0 Compliance of Rule 45

S.N.	ITEM	COMMENTS	REMARKS
	Status of submission of Monthly and Annual returns	AR is submitted upto 2017-18 and MR also 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	No mining engineer and geologist	As the mine is non- working and FMCP is submitted no mining Engineer and Geologist appointed.	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Nil	Mine is non - working and no infrastructure within lease area	
9d	Scrutiny of Annual return on afforestation	Nil		
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	Nil		

	sale value, Ex. Mine price & production cost			
9i	Scrutiny of Annual return on fixed assets	Nil		
9k	Scrutiny of Annual return on mining machineries	NA		

10- Details of violations observed during current inspection and compliance position of earlier violation pointed out:-
The mine was inspected for processing of Final Mine Closure Plan and mine is presently non-working therefore no serious violation found. The earlier violation already complied.

Rajesh Kumar Das,
Senior Assistant Controller of Mines,
IBM, Raipur