

MCDR INSPECTION REPORT

1.0 GENERAL

Sl.N	PARTICULARS	DETAILS
1	File No.	CHG/SRG/BX-07CHG16009
2	Name & Designation of the inspecting officer	Shri Arun Kumar, Regional Controller of Mines
3	Date of Inspection	10/02/2022
4	Date of Last Inspection & Officer	18/02/2021 (MCDR) / Shri R.K. Das, Senior Asst. Controller of Mines
5	Accompanying mine personnel	1. Shri A.P. Shah AGM(G) / Regional Officer
6	Name of the Mine	Narmadapur Bauxite mine
7	Total Lease Area (Ha) with breakup of non-forest and forest land	Forest Land: 0.00 Ha Non-Forest Land: 47.812 Ha Total Land: 47.812 Ha
8	Mine code	07CHG16009
9	IBM Registration Number under rule 45 of MCDR, 1988	IBM/8239/2011
10	Name of the lessee, Address, phone, email and fax number	M/S Chhattisgarh Mineral Development Corporation Ltd. Sector-24, Block -7A, 3 RD Floor, Nava Raipur, Atal Nagar, Chhattisgarh-492015
	Village	Narmadapur
	Taluka/Mandal	Mainpat
	District	Surguja
	Pincode	497111
	State	Chhattisgarh
	Post office	Narmadapur
11	Nearest police station	Kamleshwar
12	Nearest Railway station	Ambikapur
13	Date of Grant of Mining Lease	30.06.2009 First Grant for Thirty years. Date of Expiry; 29.06.2039
14	Date of Execution	30.06.2009
15	Date of opening of Mine	01.04.2017
16	Date of first Renewal, if applicable and its period & expiry	NA
17	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Shri Jai Prakash Maurya (I.A.S.) Chhattisgarh Mineral Development Corporation Ltd. Sector-24, Block -7A, 3 RD Floor, Nava Raipur, Atal Nagar, Chhattisgarh-492015 Email: -cmdcraipur@gmail.com
18	Name of the Mine Agent with Address, phone, email, fax	Shri A.P. Shah, Asst.General Manager (Geology) Chhattisgarh Mineral Development Corporation Ltd. Behind Carmel School, Housing Board Colony Namnakala

	number and date of appointment	Ambikapur District - Surguja (C.G.) 497001 Email: -cmdcambikapur@gmail.com Mob: - 9425581270
19	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Shri Subhash Kujur Chhattisgarh Mineral Development Corporation Ltd. Village Narmadapur Post – Narmadapur District Surguja Email: - cmdcmainpat@gmail.com Mob: - 8349213976 Date of Appointment 10.12.2018
20	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Shri Subhash Kujur BE, Mining (2 Years) Chhattisgarh Mineral Development Corporation Ltd. Village Narmadapur Post – Narmadapur District Surguja (C.G.) Email: - cmdcmainpat@gmail.com Mob: - 8349213976 Date of Appointment: 10.12.2018
21	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	Shri A.P. Shah (Geologist) Shri Subhash Kujur, Mining Engineer
22	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	SRG/BX/MPNL-1091/2017 Raipur, Dated 04.05.2017
23	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	SRG/BX/MPLN-1004/NGP Date 08.12.2008, Modified Mining Plan dt 22/03/2021 vide no- SRG/BX/MPLN-1264/2020-RPR
24	Mineral(s) granted in lease and proved for mining	Bauxite
25	Method of Mining (Opencast, Underground)	Opencast
26	Category (Fully Mechanized, Others or Manual)	Mechanized
27	Captive/Non-Captive	Non-Captive
28	EC for ROM Prod: Date of Issue:	4.00LTPA Date 25.05.2015
29	FA amount Rs Valid up to:	Rs. 1,90,09,950/- 31 st March 2027

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

1.0 EXPLORATION

SN	ITEM	PROPOSAL (2020-21)	ACTUAL WORK (2020-21)	REMARKS
1a	Backlog of previous year	58 Bore Hole	12 Bore Hole	VL Pointed out
1b	Exploration over lease area for Geological axis 1 or 2.	G1 Area: 20.893 ha G2 Area: 22.340ha	G1Area 20.893 ha Converted	12 Bore Hole drilled by M/s MKSPL during 2021-22.
1c	Exploration Agency & Expenditure in lakh Rupees during the year	M/s Geo Solution Pvt. Ltd.	M/s Geo Solution Pvt. Ltd.	
1d	Balance area to be explored to bring Geological axis in 1 or 2	G2 Area: 22.340ha	For G1 Area (22.340ha) balance to be converted from G2 Category.	
1e	Balance reserves as 01.01.2021	Under 111: 2245545.799 T Under 211: 2,22,567.00 T		
1f	General remarks of inspecting officer on geology, exploration etc.	Proposal of 58 Bore hole but drilled only 12 Bore hole during the FY 2020-21 so far so that violation pointed out.		

2.0 DEVELOPMENT

SN	ITEM	PROPOSAL (2020-21)	ACTUAL WORK (2020-21)	REMARKS
2a	Location of development w.r.t. lease area	Block 1 and Block 2	Block 1 and Block 2	
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	Maintained	Maintained	
2c	Stripping ratio or ore to OB ratio	1:5.18	1:1.85	
2d	Quantity of topsoil generation in Tones	31950.00	4784.37 T	
2e	Quantity of overburden generation in Tones	10,43,178	160000 T	Top soil, Soft Laterite and Hard Laterite
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	Work started from April 2017. The sizing and sorting of ROM through manual method. In general, bauxite occur as discontinuous lenticular and tabular bodies varying down to a depth of 3 to 12 m from the surface. Gibbsite is the main constituent mineral.		

3.0 EXPLOITATION

S.N.	ITEM	PROPOSAL (2020-21)	ACTUAL WORK (2020-21)	REMARK
3a	Number of pits proposed for production	2	3	VL Pointed out
3b	Quantity of Bauxite mineral production proposed	364671.00T.	20783.250 T.	
3c	Recovery of saleable/usable mineral from Bauxite production	364671.00T.	20783.250 T.	
3d	Quantity of mineral reject generation	36467 Tone	0.00 tons	As per Annual Return
3e	Grade of mineral reject generation and threshold value declared	Al ₂ O ₃ – 30% SiO ₂ - >= 5%	Al ₂ O ₃ :26.86% SiO ₂ :14.73 %, Fe ₂ O ₃ -37.70%, LOI-13.97%	Threshold value: Al ₂ O ₃ :30.00 SiO ₂ >5.00
3f	Quantity of sub-grade mineral generation	50051 Tone	Nil	
3g	Grade of sub-grade mineral generation	30-40% Al ₂ O ₃	Nil	
3h	Manual / Mechanised method adopted for segregating from ROM	Manual & Mechanized Both	Manual method only	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	Proposal has not been given	NA	
3j	Provision of drilling & blasting in mineral benches	Yes	Yes	
3k	Provision of mining machineries in mineral benches	Yes	Yes	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	Yes	
3m	Total area covered under excavation/pits	Proposal has not been given	Mining 18.11 ha	VL Pointed out not mentioned in AR
3n	Ore to OB ratio for the pit/mine during the year	1:5.18	1:1.85	Top soil, Soft Laterite and Hard Laterite considered as OB.
3o	Total area put in use under different heads at the end of year	Proposal has not been given	Not given in AR also	VL Pointed out
3p	Production of Bauxite mineral during last four-year period, as applicable	2017-18	347111.00 T	275741.401T
		2018-19	333680.00 T	111517.800 T
		2019-20	369661.00 T	94679.540 T

		2020-21	364671.00T	20783.250 T
3q	General remarks of inspecting officer on method of mining etc.	VL Pointed out not mentioned in AR of total area put in use under different heads at the end of year		

4.0 SOLID WASTE MANAGEMENT-DUMPING

SN	ITEM	PROPOSAL (2020-21)	ACTUAL WORK (2020-21)	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	Temporarily dumped Top soil near the mined-out area
b	Location of topsoil, OB & mineral reject dumps	Proposal not given	2 nos. of top soil dump, one dump near each pit	Temporarily dumped within pits after sorting it use for backfilling
4c	Number of dumps within lease area and outside lease area	Proposal not given	Within lease area 5 dumps	VL Pointed out
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Proposal not given	Nil	
4e	Number of active & alive dumps	Proposal not given	05	VL Pointed out
4f	Number of dead dumps	Proposal not given	Nil	
4g	Number of dumps stabilized	Proposal not given	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there	Proposal not given	Nil	
4i	Length of Retaining wall or garland drain all along dump	Proposal not given	Nil	
4j	Number of settling ponds	Proposal not given	Nil	
4k	Specific comments of inspecting officer	In Bauxite Simultaneously reclamation of mined out area is practiced. Adopted concurrently backfilling method to reduce the double handling of overburden. VL pointed out due to 5 dump sites.		

5.0 SOLID WASTE MANAGEMENT-BACKFILLING

SN	ITEM	PROPOSAL (2020-21)	ACTUAL WORK (2020-21)	REMARKS
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	Proposed in Block 1 and Block 2	Partly extraction of the Mineral from mined out area.	

5b	Area under backfilling of mined out area	1629900Cum	483300 Cum	VL Pointed out not mentioned in AR
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	yes	Top soil stacked but not sprayed.	It's a new pit so area is not fully reclaimed
5d	Total area fully reclaimed & rehabilitated	Proposal not given	Not yet	
5e	General remarks of inspecting officer on backfilling, reclamation etc.	In this mine land has to be handed over to the land owners after proper reclamation of mined out area after seven years. Backfilled area information not furnished in AR So VL Pointed out.		

6.0 PROGRESSIVE MINE CLOSURE PLAN

SN	ITEM	PROPOSAL (2020-21)	ACTUAL WORK (2020-21)	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	Yes	
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	Proposal not given	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	Proposal not given	NA	
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	Proposal not given	NA	

6e	Compliance of Environmental monitoring (core zone & buffer zone)	Yes	Yes	
6f	General remarks of inspecting officer on PMCP compliance & progressive	Annual report on PMCP submitted.		

7.0 MINERAL CONSERVATION

SN	ITEM	PROPOSAL (2020-21)	ACTUAL WORK (2020-21)	REMARKS
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Yes	Yes	Hand sorting by labors within lease area
7b	Method of grade-wise mineral sorting i.e., manual or mechanical	Manual sorting	Manual sorting	No such variation in the grade of Bauxite. Only Laterite and Bauxite separated by hand sorting.
7c	Different grade of mineral sorted out at mines	yes	yes	
7d	Any beneficiation process at mines	Proposal not given	NA	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	Medium grade of Bauxite in this mine. No such variation in the grade of Bauxite. Only Laterite and Bauxite separated by hand sorting. Manual sorting method adopted.		

8.0 ENVIRONMENT

SN	ITEM	PROPOSAL (2020-21)	ACTUAL WORK (2020-21)	REMARKS
8a	Separate removal and utilization of topsoil (Rule 32)	Proposed	As per Proposal	Two separates stacked of Top soil
8b	Concurrent use or storage of topsoil	Proposed	As per Proposal	Top soil stacked but not sprayed.
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Proposed	As per Proposal	Temporary dumps within Pit and used for concurrent back filling.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Proposed	As per Proposal	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc.)	Proposed	As per Proposal	Temporary dumps are available for backfilling in

				the phase manner.
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	Proposal not given	NA	Paddy land, only few trees plantation within lease area
8g	Survival rate	250 Plants in 7.5m of Non - Mining Zone, & 4000 plant in Back filled area.	2500 Plantation done outside the lease area.	
8h	Water sprinkling on roads to control airborne dust	Yes	Yes	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines are	2500 plantation during the Year outside the lease area.		

9.0 COMPLIANCE OF RULE 45

S. N.	Item	Comments	Remarks
9a	Status of submission of monthly and Annual returns	M.R. Submitted up to– Feb -2022 A.R. submitted up to- 2020-21, dt 02/07/2021	Violation pointed out
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	yes	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Not given, VL pointed out.	
9d	Scrutiny of Annual return on afforestation	Within Lease: Zero, outside lease area: 2500 plants survival rate: not specified.	
9e	Scrutiny of Annual return on mineral reject generation (Grade & Quantity)	Nil	
9f	Scrutiny of Annual return on ROM stock and/or grade ore	Opening Stock: 0.00 T, Production:0.00 T. (Reported in AR) Production :20783.250 T (Grade-wise production) mentioned in AR Closing stock: 0.00 T	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production costs	Ex Mine price: Rs 960.00. Cost of Production: Rs 0.00 VL Pointed out.	

9i	Scrutiny of Annual return on Fixed assets	Fixed asset: Nil as per mentioned in Annual Return.		
9k	Scrutiny of Annual return on mining Machineries	Type of Machinery	Capacity of each Unit	No. of Unit
		Tipper	28.300 Cum	5
		Back Hoe	0.900 Cum	1
		Blast Host Drill	100mm	1
		Water Tanker	20000.00 Lt	1

10- Details of violations observed during current inspection and compliance position of earlier violation pointed out: - Details of the Violations Pointed-out during Inspections: Rule 11(1), Rule 45(5) (c)

Violations pointed out during last inspections have been complied. Star rating also validated.

Date: 05/04/2022

Shri Arun Kumar

Regional Controller of Mines