

**INDIAN BUREAU OF MINES
MINERALS DEVELOPEMMENT AND REGULATION DIVISION
MCDR Inspection REPORT
Jabalpur Regional office**

Mine code: 07MPR33006

General

S.N.	Particulars	Details
1	Name of the Mine	Salaiya Bauxite Mine
	Date of Inspection:	27/05/2023
	Name of Inspecting Officer	Madhavrao Sabre, SMG
2	Total Lease Area (Ha) with breakup of Non-forestland forestland	16.18 Hect.
3	Mine code	07MPR33006
4	IBM Registration Number under rule 45 of MCDR, 1988	Reg.No. IBM/7097/2011
5	Last Inspection Details	Inspecting officer – Shri Deepak Sharma, SMG Date of Inspection – 12/10/2021
6	Mine official present during the inspection	Shri Dahrmendra Pandey (Geologist) , Shri G.P.Garg, representative of lessee, Shri Sushil Bajpai- QP
7	Name of the Lease, Address, Phone, email and fax number	Lessee :- Sri Surendra Singh Saluja, Nominated Owner M/s Madhya Pradesh Mineral Supply Co. Address : P.O.- Jaitwara Distt Satna MP Pin Code 485221 Email nikoonib@gmail.com
8	Village	Salaiya
9	Taluka/Mandal	Semariya
10	District	Rewa
11	Pincode	
12	State	Madhya Pradesh
13	Post Office	Kumhrajudwani
14	Nearest Police Station	Maihar
15	Nearest Railway Station	Rewa
16	Date of Grant of Mining Lease	08/11/1982
17	Date of Execution	08/11/1982 (lease period upto 07/11/2032)
18	Date of opening of Mine	08/11/1982
19	Date of First Renewal, if applicable and its period & expiry	21/12/2001(Lease period upto 07/11/2022)
20	Date of Second Renewal, if applicable and its period & expiry	10/10/2016 Lease period upto 07/11/2032)
21	Date of submission of renewal application if Mining Operation are continuing under deemed extension	NA

22	NameoftheNominatedOwnerwithAddress,phone,email,faxnumberanddateof appointment	Sri Surendra Singh Saluja, Nominated Owner M/s Madhya Pradesh Mineral Supply Co Adress-P.O.- Jaitwara Distt Satna MP Pin Code 485221 Phone No. 9575414141 Fax No. 07672252066 Email-nikkoonib@gmail.com
	Name of the Mine Agent with Address, phone, email,faxnumberand dateof appointment	Shri Sukhdeo Singh Mangat Adress- P.O.- Jaitwara Distt Satna MP Pin Code 485221
23	Nameof theMineManagerwithAddress,phone, email,faxnumber and dateofappointment in mines	Shri Momad Kafil, Adress, phone, email,faxnumber-As stated above Date of appointment-NA
24	Name of the Mining Engineer, Qualification and totalexperience with address, phone, email, fax number anddateof appointmentinthemine	Shri Momad Kafil, BE (Mining Engineering) Adress, phone, email,faxnumber-As stated above Date of appointment-NA
25	Whether Geologist and Mining Engineer appointmentin mines satisfy the rule 42 & carrying out their dutiesasper rule 43 &44.	Yes Shri Dharmendra Kumar Pandey
26	Date of Approval of Mine Plan/Modified Mine Planwithfive-yearperiodandspecific conditionin approvalletter,ifany.	1. 31/10/2007(MP) per. 2003-04 to 2007-08 (2003-04 to 2006-07 laps period) 2. 31/03/2014(SOM) per.2013-14 to 2017-18 3. 12/11/2021(Mod.MPLN) per. 2021-22 to 2022-23 4. 21/07/2023(RMP) Per.2023-24 to 2027-28
27	DateofApproval ofSchemeofMining/Modified Scheme of Mining with five- year period and specificconditioninapprovalletter,if any.	RMP approved on 21/07/2023 Proposal period- 2023-24 to 2027-28
28	Mineral(s)grantedinleaseandapprovedforMining	Bauxite
29	Method of Mining(OpenCast,Underground)	OpenCast
	Category(FullyMechanized,Others orManual)	Mechanised
	Captive/Non-Captive	Non-Captive

Exploration

S.N.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Yes	14 Boreholes	Entire mineralized area i.e 9.5hect was considered explored under G1 level and rest 6.68hect area declared as non mineralized.
1b	Exploration over lease area for Geological axis 1or2.	Yes	Entire mineralized area i.e.9.5hect was considered explored under G1 level	
1c	ExplorationAgency &Expenditure in LakhRupees duringthe year	NOT proposed.	Chaitanya Pradhan	
1d	Balanceareato be explored tobring Geological axisin 1or2.	NOT proposed.	NOT applicable	
1e	Balancereserves ason 01.04.2024	-	111- 831127T 211-26968 T	
1f	GeneralremarksofInspectingofficeron geology,explorationetc.	Bauxite deposit of the lease area belongs to Upper Rewa Sandstone in Rewa group of Vindhyan super group. The		

		bauxite deposit in the area extends from the ML area under reference located towards SW in village Salaiya to Chitti and then up to village Kumhra Judwani in extreme NE. The total length of the deposit in the ML area is 375 m and width 240 m. it is further found in wells situated outside the area at ground. Entire mineralized lease area was considered under G1 level. The mineral reserve has been classified under G1 stage of confidence level based on the drilling carried, structural disposition, lithological exposures, local geology and results of exploration done.
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Development

S.N	Item	Proposals	ActualWork	Remarks
2a	Location of Development w.r.t. lease area	N2749390 to N2749470 and E511935 to E512050	Almost as per proposal	
2b	Separate benches in top soil overburden and mineral (Rule15)	Separate benches in overburden and mineral proposed	As per proposal.	
2c	Stripping ratio or ore to OB ratio	1:0.159	1:0.16	
2d	Quantity of top soil generation in m ³	Not envisaged as there is no top soil.	Nil	
2e	Quantity of overburden generation in m ³	13153cum	4800cum	Violation Issued for deviation
2f	General remarks of Inspecting officer On development of pit w.r.t type of deposit etc.	Development was lagging for which Violation issued. Also dumping was done in 7.5 m barrier for which violation pointed.		

Exploitation

S.N	Item	Proposals	ActualWork	Remarks
3a	Number of pits proposed for production	01	01	-
3b	Quantity of ROM mineral production proposed(2022-23)	50013tones	22499 tones	Violation for deviation issued.
3c	Recovery of Salable/usable mineral fromROM production	100%	100%	-
3d	Quantity of mineral reject generation	Nil	Nil	Nil
3e	Grade of mineral reject generation and Threshold value declared	Nil	Nil	-
3f	Quantity of sub-grade mineral generation	Nil	Nil	-
3g	Gradeofsub-grademineralgeneration	Nil	Nil	-
3h	Manual/Mechanizedmethod adoptedfor segregationfromROM	Manual as well as Mechanised Method proposed for segregation	Manual as well as Mechanised Method proposed for segregation	-
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral andreject	Nil		
3j	Provision of drilling & blasting in mineral benches	Not proposed	Not applicable	

3k	Provision of mining machineries in mineral benches	Proposed	Hydraulic Shovel with 1.2cum bucket capacity and dumper 25tonner ,7 no.	-	
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	Not specified	About 4.5 ha	-	
3n	Ore to OB ratio for the pit/mine during the year	1:0.15	1:0.16	-	
3o	Total area put in use under different Heads at the end of year	4.95 Ha	6.05 Ha	-	
3p	Production of ROM mineral during the last five-year periods as applicable(proposed/ actual)	2019-20	NA	Nil	
		2020-21	NA	Nil	
		2021-22	NA	Nil	
		2022-23	40010	22499	Violation issued for deviation
		2023-24	40008	30335	
3q	General remarks of inspecting officer on method of mining etc	Open cast mechanised mine working proposed by using Excavator/JCB & dumper combination. Note-Environmental clearances acquired on 01/09/2022. Production achieved only after getting EC. Violation issued for deviation in production proposal.			

Solid Waste Management-Dumping

S.N.	Item	Proposals	Actual Working	Remarks
4a	Separate dumping of top soil, OB & mineral Reject (Rule 32,33)	There is no proposal for separate dumping of top soil as there is no top soil in the lease area.	There is no generation of top soil so question does not arise.	As per proposal.
4b	Location of top soil, OB & mineral reject dumps	Not proposed as there is no top soil.	Not applicable as there is no top soil generation,	
4c	Number of Dumps within lease area and Outside lease area	Dumping of OB not proposed	OB is utilized for making of bund along the lease boundary line as proposed in approved RMP	
4d	Location of Dumps w.r.t. ultimate pit limit (Rule 16)	Not proposed	Not applicable.	
4e	Number of Active & Alive dumps	Nil	Nil	
4f	Number of dead dumps	Nil	Nil	Nil
4g	Number of dumps established	Nil	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	Not proposed	NA	
4j	Number of settling ponds	Nil	Nil	Nil
4k	Specific comments of inspecting officer on waste dump management	There is no top soil in the area. It is covered by lateritic capping/murram.		

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.	Not proposed	Area not matured to start backfilling.	Nil
5b	Area under back filling of mined out area.	Not proposed	Not applicable	
5c	Concurrent use of top soil for restoration or rehabilitation of mined out area (Rule 32)	Not proposed	Not applicable as stated earlier.	Nil
5d	Total area fully reclaimed & rehabilitated	Not Proposed	Not applicable as stated earlier.	Nil
5e	General remarks of inspecting officer on backfilling, reclamation etc.	Backfilling of mined out area not carried out as full extraction of mineral is yet to be achieved.		

Progressive Mine Closer 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	Yes	Yes submitted	None
6b	Management of worked/mined out benches	Nil	Nil	Nil
	i) Area available for rehabilitation (Ha)	Not proposed	NA	
	ii) Afforestation done (ha)	-	1 Ha	
	iii) No. of saplings planted during the year	400 saplings	Not done	Violation pointed.
	iv) Cumulative no. of plants	Not proposed	1200	
	v) Any other specific method of rehabilitation	NA	NA	Nil
	vi) Cost incurred on watch & care during the year	Not proposed.	NA	Nil

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 backfilling iv) Rehabilitation by making water reservoir v) Any other specific means	Not proposed Not proposed Not proposed Not proposed Not proposed	NA NA NA NA NA	
6d	Compliance of Rehabilitation of wasteland with in lease i) Afforestation ii) Area rehabilitation iii) Method of rehabilitation	400 No 0.2 hect plantation	Nil 0.2 Plantation	Green belt area.
6e	Compliance of Environment monitoring (core zone & buffer zone)	Yes	Yes	Nil
6f	General remarks of inspecting officer on PMCP compliance & progressive closer operations.	Plantation during the year not carried out, for which violation issued. Periodic monitoring is being carried out by out sourced consultant.		

Mineral Conservation

S.N.	Item	Proposals	Actual Work	Remarks
7a	ROM mineral dispatch or grade wise sorting with in lease area	ROM dispatch- Nil Dispatch of mineral proposed after manual sorting as well as screening at mine site	Sorting carried out. Cement Grade bauxite dispatch- 549.400 Tonnes	Nil
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Manual as well as mechanical method	Manual as well as screening method is being used for segregation	Nil
7c	Different grade of mineral sort out at mine	Refractory, Chemical and Cement grade	Refractory, cement and chemical grade	-
7d	Any beneficiation process at mines	NA	Nil	Screening
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues.	Sorting is done within the lease area. Refractory, cement and chemical grade of bauxite is present in the lease area.		

Environment

S.N.	Item	Proposals	Actual Work	Remarks
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8a	Separate removal and utilization of topsoil (Rule32)	Not Proposed	Not applicable	Nil
8b	Concurrent use or storage of topsoil	Not Proposed	Not applicable as stated above.	Nil
8c	Separate dumps for overburden waste rock, rejects and fines(Rule 33)	Generation of OB envisaged in approved RMP.	Separate dump for OB are there. intercalated waste are also sold by mixing it with Laterite.	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Not proposed.	NA	OB/Mine waste generated during exploitation of mineral is utilized in preparation of bund along lease boundary line.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations(Pits, dumps etc)	Not Proposed	Not applicable.	Nil
8f	Base line information on existence of plantation & additional plantation done(Rule41)	yes	Yes furnished.	
8g	Survival rate	75%	75%	Nil
8h	Water sprinkling on roads to control air borne dust.	Water sprinkling is proposed by water tanker	Regular water sprinkling is done by water tanker	
8i	General remarks of inspecting officer on aesthetic beauty in and around mine area	Around 1200 plants were planted in and around the lease. Plantation not carried out in RY so violation pointed out.		

Compliance of Rule45

S.N	Item	Comments	Remarks
9a	Status of submission of monthly and Annual returns	Yes submitted	AR for 2022-23 submitted.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Name of the Mining Engineer: Mohd. Kafil and Geologist-Shri Dharmendra Kumar Pandey	Violation letter for non appointment of Mining engineer issued.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Land use as per Annual return 2022-23	Open pit working: 4.850 Ha OB/waste dump: 0.04 ha. Occupied by plant .. etc. 0.36 Mineral storage/ Green Belt: 1.00 ha.

9d	Scrutiny of Annual return on Afforestation	Afforestation as per AR 400 saplings planted in the lease area with survival rate of 75%.	Actual plantation in RY not carried out. Violation pointed.
9e	Scrutiny of Annual return on mineral reject generation (Grade & Quantity)	No any mineral reject generated during the year.	OK
9f	Scrutiny of Annual return on ROM stock and /or grade ore	losing stock - i. ROM -22499 Tonnes Dispatch : 549.400 T (Cement Grade) Stocks iii. Refractory grade- 1670 Tonne. iv. Cement Grade - 17006.600 tonne and Chemical Grade 3273 tonne	As per AR, 2022-23
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production costs	Ex mine Price & sale value Refractory grade : Rs. 1267/- per ton, cement grade Rs. 412.50/- per tone and Chemical Grade Rs. 424.67 per tone Cost of production = Rs. 807.30/per tone	OK
9i	Scrutiny of Annual return on Fixed assets	Fixed assets –Rs. 0/-	-
9k	Scrutiny of Annual return on mining Machineries	Shovel 210m ³ , 2nos.	

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

Violations issued under Rule 11(1) of MCDR 2017:

- 22499 tonnes of bauxite production is raised during 2022-23 against the proposed 50013 tonnes.
- It was proposed to produce 13153 tonnes of overburden during 2022-23 but only 4800 tonnes overburden is produced.
- Lease barrier of 7.5 m is not maintained with adjoining leases.
- At many places dumping and pitting has been done in 7.5 m barrier (B.P 6 to BP 8, BP 4 to BP 6 and BP 9 to BP 15).
- It was proposed to plant 400 saplings during the year 2022-23, but plantation is not done.
- It was proposed bench height of 3m in mineral will be maintained, but height was not maintained.

Rule 34A of MCDR 2017

- Drone survey data is submitted, but SOP is not followed, Shape file of lease boundary furnished is not correct. Separate shape file of existing pit, dump, top soil dumping area, plantation etc is not submitted. Shape file in polygons for above mentioned heads along with for future proposal may also be submitted.
- Ground control points are not constructed.

Rule 55(1)(3)(ii)

During inspection it was observed that, a full time/ part time Mining Engineer is not appointed for the purpose of carrying out the mining operations in accordance with these rules.

Name:-Madhavrao Sabre

Designation: Senior Mining Geologist