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MCDR inspection REPORT

Jabalpur regional office

Mine file No : MP/KATNI/BX-34

Mine code : 07MPR47016

- (i) Name of the Inspecting : C004) ROBERT SIMON C
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : Shri Manish Kumar Pandey(Mining Engineer)
Official with
Designation
- (iv) Date of Inspection : 12-MAR-24
- (v) Prev.inspection date : 12-JUL-21

PART-I : GENERAL INFORMATION

1. (a) Mine Name : CHHAPARA (7.383 HA)
- (b) Registration NO. :
- (c) Category : A Other than Fully Mech.
- (d) Type of Working : Opencast
- (e) Postal address :
State : MADHYA PRADESH
District : KATNI
Village : CHHAPRA
Taluka : BAHORIBAND
Post office : CHHAPRA
Pin Code :
FAX No. : NA
E-mail : NA
Phone : NA
- (f) Police Station :
- (g) First opening date :
- (h) Weekly day of rest :
2. Address for : SHRI SHASHI KANT KOHAD
correspondance P.O. NIWAR, DIST. KATNI (M.P.)
3. (a) Lease Number : MPR2443
- (b) Lease area : 7.38
- (c) Period of lease : 50
- (d) Date of Expiry : 19-JUN-34
4. Mineral worked : BAUXITE Main
LATERITE Associated
FIRECLAY Associated

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5. Name and Address of the

Lessee : SHASHI KANT KOHAD
P.O. NIWAR, KATNI MADHYA
PRADESH
Phone:07622 -320267, 325828
FAX :N.A

Owner : SHASHI KANT KOHAD
P.O. NIWAR, KATNI MADHYA
PRADESH
Phone: N.A
FAX : N.A

6. Date of approval of Mining	:	Renewal under rule 24 MCR1960	14-FEB-08
Plan/Scheme of Mining	:	Renewal under rule 24 MCR1960	21-APR-09
	:	Mining Scheme rule 12 MCDR1988	15-FEB-12
	:	Renewal under rule 24 MCR1960	26-JUN-15
	:	MP review under 17(1) MCR 2016	20-AUG-19

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PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Nil	Nil	
1b	Exploration over lease area for geological axis 1 or 2	Not proposed	Not done	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	NA	NA	
1d	Balance area to be explored to bring Geological axis in 1 or 2	As per Mine Plan ML area already explored upto G1 level.	As per the submitted Annual Returns for the year 2022-23, the reserves were still reported under G-2. The entire lease area is yet to be brought under detailed exploration i.e G-1.	violation of the rule 12 pointed out.
1e	Balance reserve as on 01/04/20	Not specified	121- 467,076 T	
1f	General remarks of inspecting officers on geology, exploration etc			ML area belongs to mahakaushal formation in jabalpur region , bauxite of the ML area is of fine grained yellowish to brown in colour.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	It was proposed to carryout development & production towards north-west of quarry between the coordinates N2611177- N2611333 & E417890- E417990 for the year 2022-23.	But during the year, development & production was instead carried out between the coordinates N2611177- N2611333 & E417860- E417920 resulting in deviation in development towards the western side of the quarry.	Violation for Rule 11(1) pointed out.

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2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Yes	As per proposal	
2c	Stripping ratio or ore to OB ratio	1:0.23	1:0.31	
2d	Quantity of topsoil generation in m3	735	785	
2e	Quantity of overburden generation in m3	5080 M3	6750 M3	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			It was proposed to maintain soil dump of about 1200 Sq.M * 3M towards south-west of quarry between the coordinates N2611060- N2611090 & E417780- E417825. But during inspection the same was not maintained. Violation for Rule 11(1) pointed out.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	01	01	
3b	Quantity of ROM mineral production proposed	21942	21350	
3c	Recovery of sailable/usable mineral from ROM production	60%	60%	
3d	Quantity of mineral reject generation	NIL	NIL	
3e	Grade of mineral rejects generation and threshold value declared.	Not Proposed	NIL	

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3f	Quantity of sub grade mineral generation.	Not Proposed	NIL
3g	Grade of sub grade mineral generation	Not Proposed	NIL
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised	Mechanised
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Not Proposed	Nil
3j	Provision of drilling and blasting in mineral benches	Not Proposed	NIL
3k	Provision of mining machineries in mineral benches	Not Proposed	Nil
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	Found suitable
3m	Total area covered under excavation/pits	Not specified	0.150 as per AR.
3n	Ore to OB ratio for the pit/mine during the year.	1:0.23	1:0.31

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3o	Total area put in use under different heads at the end of year	6.873 Hect	(i) Already exploited and abandoned by opencast (O-C) mining 0.000 2.700 2.700 (ii) Covered under current (O-C) Workings 0.000 0.150 0.150 (iii) Reclaimed-rehabilitated 0.000 0.240 0.240 (iv) Used for waste disposal 0.000 2.030 2.030 (v) Occupied by plant, buildings, residential, welfare buildings and roads 0.000 0.260 0.260 (vi) Used for any other purpose (specify)Site services and Drains &bund 0.000 1.000 1.000	
3p	Production of ROM mineral during the last five year period as applicable	2019-20=24840, 2020-21=21252 2021-22=21942 2022-23=21942	2019-20=10230 2020-21=2325 2021-22=13565 2022-23=21350	
3q	General remarks of inspecting officers on method of mining etc.			Working was not as per the proposal. Violation for Rule 11(1) pointed out.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Proposed	Separate dumping was done for waste & mineral	
4b	Location of topsoil, OB and mineral reject dumps	waste dump in north east and south of the ML, mineral dump in south eastern portion of the ML	waste dump in north east and south of the ML, mineral dump in south eastern portion of the ML	
4c	Number of dumps within lease area and outside of lease area	03	03	

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4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	outside the UPL	outside the UPL
4e	Number of active and alive dumps.	03	03
4f	Number of dead dumps.	None	None
4g	Number of dumps established.	None	None
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 dumps	Not proposed	Nil
4j	Number of settling ponds	Nil	Nil

Solid Waste Management - Backfilling:

Sl.No.	Item	Propasals	Actual work	Remarks
5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	Full extraction of mineral proposed	Full extraction of mineral yet to be done	
5b	Area under backfilling of mined out area	Not specified	0.24 ha	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	It was proposed to maintain soil dump of about 1200 Sq.M * 3M towards south-west of quarry between the coordinates N2611060-N2611090 & E417780-E417825.	Not done	Violation for Rule 11(1) pointed out.
5d	Total area fully reclaimed and rehabilitated	Not specified	0.24 ha	

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5e	General remarks of inspecting officers on backfilling and reclamation etc.	Backfilling is being carried out in mined out areas within the lease.
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Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	Yes	Submitted along with AR.	
6b	Area available for rehabilitation (ha) .	0.02 ha	0.02 ha	
6c	afforestation done (ha).	0.02 ha	0.02 ha	
6d	No. of saplings planted during the year	50	50	
6e	Cumulative no .of plants	Not proposed	150-200	
6f	Any other method of rehabilitation	Nil	Nil	
6g	Cost incurred on watch and care during the year	NA	NA	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	Not proposed	0.24 ha	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Not proposed	0.24 ha	

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6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	NA	NA	
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	NA	NA	
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	NA	NA	
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	NA	NA	
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	NA	NA	
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	NA	NA	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Yes	Carried out	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			Plantation is being carried out in the barrier zone.

 Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
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7a	ROM Mineral dispatch or grade-wise sorting within lease area	Grade wise sorting proposed to be done within the lease area	Grade wise sorting adopted to be done within the lease area	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual	Manual & Mechanised	
7c	Different grade of mineral sorted out at mines.	Not specified	Cement grade	
7d	Any beneficiation process at mines	NA	Not done	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			No beneficiation proposed.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	It was proposed to maintain soil dump of about 1200 Sq.M * 3M towards south-west of quarry between the coordinates N2611060-N2611090 & E417780-E417825.	Not done	Violation for Rule 11(1) pointed out.

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8b	Concurrent use or storage of topsoil	It was proposed to maintain soil dump of about 1200 Sq.M * 3M towards south-west of quarry between the coordinates N2611060-N2611090 & E417780-E417825.	Not done	Violation for Rule 11(1) pointed out.
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Proposed	As per proposal.	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Dumping proposed	Carried out.	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Backfilling proposed	Backfilling adopted.	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Yes	Given	
8g	Survival rate	80%	60%	
8h	Water sprinkling on roads to control airborne dust	Yes	Carried out.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Aesthetic beauty in and around mines area needs to be improved.

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Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Proposed	Submitted online.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Given	Manager : Manish Kumar Pandey Mining Engineer in charge: Manish Kumar Pandey Geologist in charge : Ashish Kumar Tiwari	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Given	(i) Already exploited and abandoned by opencast (O-C) mining 0.000 2.700 2.700 (ii) Covered under current (O-C) Workings 0.000 0.150 0.150 (iii) Reclaimed-rehabilitated 0.000 0.240 0.240 (iv) Used for waste disposal 0.000 2.030 2.030 (v) Occupied by plant, buildings, residential, welfare buildings and roads 0.000 0.260 0.260 (vi) Used for any other purpose (specify)Site services and Drains &bund 0.000 1.000 1.000	
9d	Scrutiny of Annual return on afforestation	Given	Description Within lease area Outside lease area i) Number of trees planted during the year 50 0 ii) Survival rate in percentage 60 0	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil	Nil	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Given	Production and Stocks of ROM ore at Mine-head Category Opening stock Production Closing stock (a) Open Cast workings 9615.305 21350.000 21929.855	

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9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Given	Ex-mine price- Rs.527.17. COST OF PRODUCTION-Rs. 483.50.
9h	Scrutiny of Annual return on fixed assets	Given	Value of Fixed Assets* (Rs. 688738)
9k	Scrutiny of Annual return on mining machineries	Given	Type of machinery Capacity of each type of machinery Unit (in which capacity is reported) No. of machinery Electrical Nonelectrical (specify) Used in opencast underground (specify) SHOVEL (HYDRAULIC) 0.900 CUM 1 Non Electrical Opencast DUMPER 16.000 TONNE 3 Non Electrical Opencast

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Details of violations observed during current inspection and compliance position of violation pointed out

Violation observed			Show couse position		
Rule NO.	Issued on	Compliance on	Rule NO.	Issued on	Compliance on

Date :

(ROBERT SIMON C)

Indian Bureau of Mines