

MINERALS DEVELOPEMMENT AND REGULATION DIVISION

1/8209/2023

Review and updation of Mining Plan REPORT

Jabalpur regional office

Mine file No : MP/SATNA/OCH-44MPR35176

Mine code : 44MPR35176

- (i) Name of the Inspecting : G005) SANJAY M. GIRHE
Officer and ID No.
- (ii) Designation : Regional Mining Geologist
- (iii) Accompanying mine :
Official with
Designation
- (iv) Date of Inspection : 08-NOV-22
- (v) Prev.inspection date :

PART-I : GENERAL INFORMATION

1. (a) Mine Name : KARIGOHI (15.621 HA)
- (b) Registration NO. :
- (c) Category : B Manual
- (d) Type of Working : Opencast
- (e) Postal address :
State : MADHYA PRADESH
District : SATNA
Village : KARIGOHI
Taluka : MAJHGAON
Post office : JAITWARA
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 : M/S RAKESH AGENCIES
correspondance : P.O. JAITWARA
DISTT. SATNA (M.P.) 485221
3. (a) Lease Number :
(b) Lease area :
(c) Period of lease :
(d) Date of Expiry :
4. Mineral worked : OCHRE Main

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5. Name and Address of the

Lessee : RAKESH AGENCIES
P.O. JAITWARA SATNA
MADHYA PRADESH
Phone:N. A.
FAX :N. A.

Owner : RAKESH AGENCIES
P.O. JAITWARA SATNA
MADHYA PRADESH
Phone: N. A.
FAX : N. A.

6. Date of approval of Mining :
Plan/Scheme of Mining

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	During the year 2021-22 exploration was proposed by 32 DTH boreholes	Exploration carried out during the year as per the proposals	Supporting Form-I, Form-J, Boreholes chemicals analysis reports, etc were submitted in ROMP approval
1b	Exploration over lease area for geological axis 1 or 2	During the year 2021-22 exploration was proposed by 32 DTH boreholes	Exploration carried out during the year as per the proposals for G1 level	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	During the year 2021-22 exploration was proposed by 32 DTH boreholes	Exploration carried out during the year as per the proposals for G1 level	Expenditure details was not provided in ROMP
1d	Balance area to be explored to bring Geological axis in 1 or 2	During the year 2021-22 exploration was proposed by 32 DTH boreholes	Entire ML area of 15.62 Ha explored in G1 level	Exploration carried out for G1 level over entire ML area
1e	Balance reserve as on 01/04/20	Reserves in Tonnes Probable (122)-38320 Resources in Tonnes Pre-Feasibility(222):26011 Inferred(333) : 60872 Resources & Reserves position as per ROMP approved dtd 09.07.2021	Reserves in Tonnes Proved (111)-200391 Resources in Tonnes Feasibility(222):45538 Resources & Reserves position as per approved ROMP on dtd 22.03.2023	Resources & reserves reestimated based on the detailed exploration.
1f	General remarks of inspecting officers on geology, exploration etc	NA	NA	Mineral deposit of the lease area is part of vindhyan super group of Rewa formation.

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Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	It was proposed to develop Pit-2 towards south-west from 374 to 371.5mRL	Working carried out as per the proposals	Nil
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Yes, separate benches proposed	Working carried out in separate benches	
2c	Stripping ratio or ore to OB ratio	Proposed as 1:1.0 Tonne/CuM	Nil	No overburden/interburden generated during the year 2021-22
2d	Quantity of topsoil generation in m3	Proposed as 900CuM	Acheived -Nil	No top soil generated during the year
2e	Quantity of overburden generation in m3	1775 CuM	Nil	Violation under Rule 11(1) of MCDR,2017 pointed out & issued to the lessee
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	NA	NA	There are 2 working pits of following dimensions were reported in draft ROMP as Pit No-1 (53m x 28m x (2-3)m), Pit No-2 (74m x 46m x1.5-5m)

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Single Pit-2	Working carried out in Pit-2	Nil
3b	Quantity of ROM mineral production proposed	5992 Tone bauxite ore production proposed in 2021-22	5802 Tonne of bauxite ore production carried out in 2021-22	No excess production during the year 2021-22

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3c	Recovery of sailable/usable mineral from ROM production	Proposed as 60% of total ROM	Acheived as 60% as proposed	Recovery study report insited & undertaking given in ROMP
3d	Quantity of mineral reject generation	No Proposals	Nil	Nil
3e	Grade of mineral rejects generation and threshold value declared.	No Proposals	Nil	Nil
3f	Quantity of sub grade mineral generation.	No Proposals	Nil	Nil
3g	Grade of sub grade mineral generation	No Proposals	Nil	Nil
3h	Manual / Mechanised method adopted for segregating from ROM	Manual sizing & sorting proposed	Manual sizing & sorting carried out as proposed	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No Proposals	Nil	Nil
3j	Provision of drilling and blasting in mineral benches	No Proposal	Nil	This is B category manual method of working proposed & being carried out
3k	Provision of mining machineries in mineral benches	Manual method of mining proposed	Manual method of mining carried out	Nil
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes, benches height in ore & OB found suitable	Yes, benches height in ore & OB found suitable	
3m	Total area covered under excavation/pits	Proposed as 1.40Ha	Acheived as 0.90 Ha	Working not carried in 2020-21

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3n	Ore to OB ratio for the pit/mine during the year.	Proposed as 1:1.0 Tonnes/CuM	Acheived as Nil	No OB/interburden generated during the year 2021-22, violation under rule 11(1) of MCDR, 2017 issued.
3o	Total area put in use under different heads at the end of year	As per the previous approved ROMP dtd 09.07.2021 Pits-1.40 Ha Mineral Storage-0.25Ha Infrastructure -0.01Ha Road-0.16Ha Other-0.25Ha	As per the Annual return for 2021-22 Pits-0.90 Ha Mineral Storage-0.25Ha Waste Dumps-0.25Ha Infrastructure-0.17Ha Other-0.25Ha	
3p	Production of ROM mineral during the last five year period as applicable	2017-18-: No Proposals 2018-19-: No Proposals 2019-20-: No Proposals 2020-21-: No Proposals 2021-22-: 5992 MT	2017-18-: No Proposals 2018-19-: No Proposals 2019-20-: No Proposals 2020-21-: No Proposals 2021-22-: 5802 MT	Mine was non-operation before the year 2021-22
3q	General remarks of inspecting officers on method of mining etc.	NA	NA	Open cast manual method of working proposed by using dumper combination without deep/shallow drilling and blasting.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Top soil proposed for bund formation & OB for simultaneous backfilling	No top soil and OB/interburden generated during the year 2021-22	Violation under Rule 11(1) of MCDR, 2017 pointed out & issued
4b	Location of topsoil, OB and mineral reject dumps	Concurrent use of top soil & OB proposed	No top soil and OB generated during the year 2021-22	Violation under Rule 11(1) of MCDR, 2017 pointed out & issued

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4c	Number of dumps within lease area and outside of lease area	There are toatl 09 OB dumps in lease area	There are toatl 09 OB dumps in lease area	Small sizes of OB dumps located in mining lease area
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	There are toatl 09 OB dumps in lease area outside UPL	There are toatl 09 OB dumps in lease area outside UPL	
4e	Number of active and alive dumps.	There are toatl 09 OB dumps in lease area outside UPL	There are toatl 09 OB dumps in lease area outside UPL	All active dumps in ML area
4f	Number of dead dumps.	No dead dumps in ML area	No dead dumps in ML area	OB dumps not stabilized so far
4g	Number of dumps established.	Nil	Nil	No dead OB dumps in the lease area
4h	Whether Retaining wall or garland drain all along dumps are there.	No Proposals	Nil	Very small size of OB dumps in lease area
4i	Length of Retaining wall or garland drain all along dumps	No Proposals	Nil	Very small size of OB dumps in lease area
4j	Number of settling ponds	No Proposals	Nil	Nil
4k	Specific comments of inspecting officer on waste dump management	NA	NA	Mine was non-operational before 2021-22 and very less OB/interburden generation was proposed during the year which has not acheived.

Solid Waste Management - Backfilling:

Sl.No.	Item	Propasals	Actual work	Remarks
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5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	No Proposals	Nil	Mine was non-operational before 2021-22 and none of the mined out area is matured for backfilling so far
5b	Area under backfilling of mined out area	During the year 2021-22, backfilling by waste material was proposed towards the north-western part between BP/16/4 to BP/16/4 (N2752650 to N2752730 & E496650 to 496700).	Not carried out	Violation under Rule 11(1) of MCDR,2017 pointed out & issued
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No Proposals	Top soil use for bund formation was proposed	No top soil generated during the year 2021-22
5d	Total area fully reclaimed and rehabilitated	No Proposals	Nil	Nil
5e	General remarks of inspecting officers on backfilling and reclamation etc.	NA	NA	Mine recently reopened during the year 2021-22 and none of the mined out area is matured for backfilling so far

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).	To be submitted before 1st July of every year	Yes, submitted within time limit as per the provisions of Rule 26 of MCDR,2018	

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6b	Area available for rehabilitation (ha) .	No Proposals	Nil	Nil
6c	afforestation done (ha).	200 SqM	Acheived as proposed	Nil
6d	No. of saplings planted during the year	200 Nos of saplings were proposed in 2021-22	100 saplings planted during the year 2021-22	Survival rate is about 75%
6e	Cumulative no .of plants	NA	NA	No information furnished in approved document
6f	Any other method of rehabilitation	No Proposals	Nil	Nil
6g	Cost incurred on watch and care during the year	No Proposals	Nil	Nil
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	During the year 2021-22, backfilling by waste material was proposed towards the north-western part between BP/16/4 to BP/16/4 (N2752650 to N2752730 & E496650 to 496700)	Working not carried out as proposed	Violation under Rule 11(1) of MCDR,2017 pointed out & issued to the lessee
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	During the year 2021-22, backfilling by waste material was proposed towards the north-western part between BP/16/4 to BP/16/4 (N2752650 to N2752730 & E496650 to 496700)	Working not carried out as proposed	

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6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area	No Proposals	Nil	Nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No Proposals	Nil	Nil
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No Proposals	Nil	Nil
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No Proposals	Nil	Nil
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No Proposals	Nil	Nil
6p	Compliance of environmental monitoring (core zone and buffer zone)	Periodical Air, Water, Noise monitoring Proposed	Yes, Compliances of environmental monitoring is being carried out.	Analysis reports were provided

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6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	NA	NA	Mine recently re-opened in 2021-22 &, hence scope of backfilling/reclamation & rehabilitation doesn't exist and no proposals are given. Periodic monitoring is being carried out by outsourced consultant.
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Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	5992 Tonnes of bauxite production poroposed in 2021-22 for dispatches	5802 Tonnes of bauxite production carried out in 2021-22 for dispatches	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual method for sizing & sorting proposed	Manual method for sizing & sorting adopted	
7c	Different grade of mineral sorted out at mines.	Bauxite of chemical grade-Al ₂ O ₃ : +-46%, SiO ₂ : (-) 5% Cement Grade Bauxite: Al ₂ O ₃ : 30-45%, SiO ₂ : 10% Max, Fe ₂ O ₃ -10-30%	Bauxite of chemical grade-Al ₂ O ₃ : +-46%, SiO ₂ : (-) 5% Cement Grade Bauxite: Al ₂ O ₃ : 30-45%, SiO ₂ : 10% Max, Fe ₂ O ₃ -10-30%	
7d	Any beneficiation process at mines .	No Proposals	Mobile screen plant was existing ML area for screening of ore	Mobile screen plant was existing ML area for screening of ore

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7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	NA	NA	Mineral is being conserved by grade wise sorting in the lease area. Bauxite having - +46%, SiO ₂ : (-) 5% proposed to be sorted for chemical grade and rest non-plant grade (NPG) bauxite proposed to be sell to the nearby cement plants.
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Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Concurrent use for bunds formation proposed	use Nil	No top soil generated during the year 2021-22
8b	Concurrent use or storage of topsoil	Concurrent use for bunds formation proposed	use Nil	No top soil generated during the year 2021-22
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Concurrent use for backfilling was proposed during the year 2021-22	use Nil	No OB/Interburden generated during the year 2021-22, violation under Rule 11(1) of MCDR,2017 pointed out & issued for the same.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Concurrent use for backfilling was proposed during the year 2021-22	use Nil	No OB/Interburden generated during the year 2021-22, violation under Rule 11(1) of MCDR,2017 pointed out & issued for the same.

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8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No Proposals	Nil	Nil
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	NA	NA	No information furnished in approved documents
8g	Survival rate	Proposed as 75%	Achieved as about 70%	
8h	Water sprinkling on roads to control airborne dust	Water sprinkling is proposed by water tanker	Regular water sprinkling is done by water tanker	Water tanker of suitable capacity is provided for the purpose
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	NA	NA	Aesthetic beauty in and around mine area is not much satisfactory as plantation not done up to that extent. Hence, it was instructed to propose at least 300 sapling/year & accordingly proposals were given in ROMP.

Compliance of Rule 45:

Sl.No.	Item	Proposals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	AR submitted for 2020-21 & 2021-22 MR submitted upto Oct-2022	Annual Return for the year 2021-22 submitted within time limit	Nil

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9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Given	Mining Eng. Shri Mohd Kafil and Shri Karim Mohamad as Geologist appointed	During the inspection mining eng was present
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Given	Pits-0.90 Ha Mineral Storage-0.25Ha Waste Dumps-0.25Ha Infrastructure-0.17Ha Other-0.25Ha	Nil
9d	Scrutiny of Annual return on afforestation	Given	100 saplings planted during the year 2021-22	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Not Given	Nil	Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Given	Cement Grade: O/S-Nil Despatch-1746.380 MT C/S-3172.620 MT Refractory Grade: O/S-Nil Despatch-286.370 MT Chemical Grade: O/S-26 MT Despatch-Nil C/S-26 MT C/S-596.630 MT	Nil
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Given	Ex-mine price: Cement Grade -Rs 375/MT Chemical Grade- Rs 557/MT Refractory GradeRs 3994.00/MT	Nil
9h	Scrutiny of Annual return on fixed assets	Not Given	Nil	Nil

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9k	Scrutiny of Annual return on mining machineries	Given	Nil	Nil
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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
MCDR17	Rule 11(1)	05-JAN-23			
MCDR17	Rule 31(1)	05-JAN-23			
MCDR17	Rule 34(1)	05-JAN-23			

Date :**(SANJAY M. GIRHE)**

Indian Bureau of Mines