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MCDR inspection REPORT

Jabalpur regional office

Mine file No : MP/KTN/LST-283

Mine code : 38MPR47123

- (i) Name of the Inspecting : **C004**) **ROBERT SIMON C**
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : Arpit Agrawal (Lessee)
Official with Designation
- (iv) Date of Inspection : 27-JUN-23
- (v) Prev.inspection date : 08-MAR-21

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **NANHWARA (18.09 HA)**
- (b) **Registration NO.** :
- (c) Category : A Mechanised
- (d) Type of Working : Opencast
- (e) Postal address
State : MADHYA PRADESH
District : KATNI
Village : NanhwaraKalan
Taluka :
Post office : Kymore
Pin Code : 483501
FAX No. : NA
E-mail : rajassociates.katni@
yahoo.co.in
- Phone : 9425802198
Kymore
- (f) Police Station :
- (g) First opening date : 01-JUN-07
2. Address for : SHRI RAJ KISHORE AGRAWAL
correspondance C/O GANESH MOTORS, JABALPUR ROAD,
KATNI (M.P.) 483501
3. (a) Lease Number : MPR2517
- (b) Lease area : 18.09
- (c) Period of lease : 20
- (d) Date of Expiry : 05-FEB-27
4. Mineral worked : DOLOMITE Associated
LIMESTONE Main

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5. Name and Address of the

Lessee : RAJ KISHORE AGRAWAL
CIVIL LINES KATNI MADHYA
PRADESH
Phone:
9425802198
FAX :N. A.

Owner : RAJ KISHORE AGRAWAL
CIVIL LINES KATNI MADHYA
PRADESH
Phone:
9425802198
FAX : N. A.

6. Date of approval of Mining Plan/Scheme of Mining	:	Modif.of approved Mining Plan	06-OCT-08
		Mining Scheme rule 12 MCDR1988	01-OCT-12
		MP review under 17(1) MCR 2016	16-DEC-16
		MP modif under 17(3) MCR 2016	02-MAR-20

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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	10 BH	Nil	Violation pointed out under Rule 11(1) of MCDR 2017.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not proposed	NA	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Not specified	G1 level: 3.0 Ha G2 level: 8.23 Ha G3 level:1.39 Ha	
1e	Balance reserve as on 01/04/20	Not specified	Reserves in Tonnes Proved(111) -453360 MT Probable (122)- 2901852 MT Resources Feasibility(211): 593180 MT Pre-Feasibility(222): 1635880 The Resources & Reserves position as per Annual Return 2022-23	
1f	General remarks of inspecting officers on geology, exploration etc			The occurrence of limestone in the lease area stratigraphically controlled and belongs to Rohtas formation of Semari group of Vindhyan super group. The rocks northerly dipping of 5deg to 45 deg and general east-west trend

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	N 2656180 - 2656390 E 454460 - 454720	N 2656190 - 2656380 E 454470 - 454710	

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2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Benches in Top soil - 01 no Overburden Benches - 01 no, Mineral Limestone - 02 no	As per proposal	Benches configuration found in order as proposed
2c	Stripping ratio or ore to OB ratio	1:0.34	1:0.29	
2d	Quantity of topsoil generation in m3	8058	7650	
2e	Quantity of overburden generation in m3	38102	26460	Violation pointed out under Rule 11(1) of MCDR 2017.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			The overall development and exploration is lagging behind the approved proposals. Violation pointed out under Rule 11(1) of MCDR 2017.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	02	02	
3b	Quantity of ROM mineral production proposed	111102	89920	
3c	Recovery of sailable/usable mineral from ROM production	80% within ore zone	80% within ore zone	
3d	Quantity of mineral reject generation	Not proposed	Nil	
3e	Grade of mineral rejects generation and threshold value declared.	NA	NA	

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3f	Quantity of sub grade mineral generation.	No Proposals	NA
3g	Grade of sub grade mineral generation	NA	NA
3h	Manual / Mechanised method adopted for segregating from ROM	Manual sizing & sorting proposed	Manual sizing & sorting carried out
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No Proposals	Lessee is not having any plant for beneficiation study
3j	Provision of drilling and blasting in mineral benches	Small dia 32mm shallow depth drilling & blasting is proposed by Jack hammer	Drilling & blasting using jack hammer carried out Small dia 32mm shallow depth.
3k	Provision of mining machineries in mineral benches	L&T PC-200, 1.2Cum capacity TATA Dumper model 2515, 16 T capacity Tractor mounted Air Compressor Tractor mounted Air Compressor with Drill rods Mahindra Tractor with Water Tank on trolley Water pump with Diesel engine	L&T PC-200, 1.2Cum capacity TATA Dumper model 2515, 16 T capacity Tractor mounted Air Compressor Jack Hammer with Drill rods Mahindra Tractor with Water Tank on trolley Water pump with Diesel engine
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		

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3n	Ore to OB ratio for the pit/mine during the year.	1:0.34	1:0.29		
3o	Total area put in use under different heads at the end of year	7.44 ha	(ii) Covered under current (O-C) Workings 0.000 4.660 4.660 (iii) Reclaimed-rehabilitated 0.000 0.100 0.100 (iv) Used for waste disposal 0.000 0.940 0.940 (v) Occupied by plant, buildings, residential, welfare buildings and roads 0.000 0.100 0.100 (vi) Used for any other purpose (specify) Plantation 0.000 1.950 1.950		
3p	Production of ROM mineral during the last five year period as applicable	2018-19-: 44993MT 2019-20-: 44888 MT 2020-21-: 178325 MT 2021-22-: 200000MT 2022-23-: 111102 MT	2018-19-: 44100MT 2019-20-: 42870 MT 2020-21-: 44160 MT 2021-22-: 67440MT 2022-23-: 89920 MT		
3q	General remarks of inspecting officers on method of mining etc.			Mechanised open cast working proposed by using Excavator /JCB & dumper combination with shallow drilling & blasting using jack hammer.	

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Yes	As per proposal	

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4b	Location of topsoil, OB and mineral reject dumps	02 Soil & 03 OB dumps scattered throughout the lease.	S. No. Dump ID Dump Status Type of Dump Total Dump Quantity (t) Area covered by Dump (Ha) Height (m) Location 1 Dump-1 Active OB 6000 0.12 4 N 2655900 - 2656005 E454040 - 454100 2 Dump-2 Active OB 3000 0.10 3 N2655989 - N2656038 E454368 - 454398 3 Dump-3 Active Top Soil 80000 0.66 18 N2656081 - N2656187 E454600 - 454696 4 Dump-4 Active OB 100000 0.72 20 N2656209 - N2656348 E454819 - 454893 5 Dump-5 Active Top Soil 12000 0.33 5 N2656418 - N2656471 E454798 - 454872
4c	Number of dumps within lease area and outside of lease area	05 dumps within lease	05 dumps within lease
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Within UPL	Within UPL
4e	Number of active and alive dumps.	05	05
4f	Number of dead dumps.	Nil	Nil
4g	Number of dumps established.	Nil	Nil
4h	Whether Retaining wall or garland drain all along dumps are there.	No Proposals	25m garland drain
4i	Length of Retaining wall or garland drain all along dumps	No Proposals	25m garland drain

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4j	Number of settling ponds	Nil	Nil	
4k	Specific comments of inspecting officer on waste dump management			There are 03 overburden dumps & 02 Topsoil dumps in mining lease area. Generated OB proposed for backfilling in mined out pits area during the year.

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.	Limestone exhausted pit area proposed for backfilling during the year 2022-23	Backfilling carried out as per the proposals	
5b	Area under backfilling of mined out area	800 SqM	100 SqM	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Proposed for plantation purpose over backfilled area	Concurrent use of top soil for plantation purpose carried out over backfilled area	
5d	Total area fully reclaimed and rehabilitated	Not specified	100 SqM	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			Overburden generated from mine proposed for reclamation by backfilling over mined out limestone exhausted area.

Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
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6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	yes	Submitted
6b	Area available for rehabilitation (ha) .	0.1 ha	0.1 ha
6c	afforestation done (ha) .	0.1 ha	0.1 ha
6d	No. of saplings planted during the year	200	410 nos
6e	Cumulative no .of plants	Not specified	1000 approx.
6g	Cost incurred on watch and care during the year	No Proposals	Nil
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No Proposals	Nil
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No Proposals	Nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No Proposals	Nil
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No Proposals	Nil
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	No Proposals	Nil

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6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No Proposals	Nil
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No Proposals	Nil
6p	Compliance of environmental monitoring (core zone and buffer zone)	No Proposals	Nil

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM mineral dispatch proposed	ROM mineral dispatch done	
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	BF grade	
7d	Any beneficiation process at mines	No proposals	Not done	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			Mineral is being conserved by grade wise sorting in the lease area.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
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8a	Separate removal and utilization of topsoil (Rule 32)	No proposals	Nil	
8b	Concurrent use or storage of topsoil	NA	NA	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Dumps proposed on existing dumps during the year	Dumping carried out as per the proposals	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Proposed for backfilling	Backfilling carried out as proposed.	OB generated during the year backfilled as per the proposals
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No Proposals	Nil	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Yes	410 saplings planted during the year 2022-23	
8g	Survival rate	80%	75%	
8h	Water sprinkling on roads to control airborne 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 mines area			Aesthetic beauty in and around mine area is satisfactory.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
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9a	Status of submission of Monthly and Annual returns	AR and MR submitted online	AR and MR submitted online
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Given	Mining Engineer in charge: Ashish Suhane(Mining Engineer) Geologist in charge : Puneet Shukla
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Given	Lease area (surface area) utilisation as at the end of year (hectares): Under forest Outside forest Total (i) Already exploited and abandoned by opencast (O-C) mining 0.000 0.000 0.000 (ii) Covered under current (O-C) Workings 0.000 4.660 4.660 (iii) Reclaimed-rehabilitated 0.000 0.100 0.100 (iv) Used for waste disposal 0.000 0.940 0.940 (v) Occupied by plant, buildings, residential, welfare buildings and roads 0.000 0.100 0.100 (vi) Used for any other purpose (specify)Plantation 0.000 1.950 1.9
9d	Scrutiny of Annual return on afforestation	Given	Trees planted- survival rate Description Within lease area Outside lease area i) Number of trees planted during the year 410 0 ii) Survival rate in percentage 75 0 iii) Total no. of trees at the end of the year 3030 0
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil	Nil

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9f	Scrutiny of Annual return on ROM stock and/or graded ore	Given	Grade-wise Production, Dispatches, Stocks and Ex-mine prices: Grades** Opening stockat mine-head Production Despatchesfrom minehead Closing stockat mine-head Ex-mine price(?-Tonne) (a) LD Grade (less than1.5% silica content) 0.000 0.000 0.000 0.000 0.00 (b) SMS 0.000 0.000 0.000 0.000 0.00 (c) BF 22606.020 89920.000 79236.350 33289.670 456.80
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Given	Ex-mine price-456.80 COST OF PRODUCTION- 281.77
9h	Scrutiny of Annual return on fixed assets	Given	Value of Fixed Assets (Rs. 7295873)
9k	Scrutiny of Annual return on mining machineries	Given	Type of Machinery: Give the following information for the types of machinery in use such as hoist, fans, drills, loaders, excavators, dumpers, haulages, conveyors, pumps, etc. Type of machinery Capacity of eachtype ofmachinery Unit(in whichcapacity isreported) No. ofmachinery Electrical Nonelectrical (specify) Used inopencastunderground(sp ecify) DUMPER 10.000 TONNE 3 Non Electrical Opencast DUMPER 15.000 TONNE 1 Non Electrical Opencast SHOVEL (HYDRAULIC) 1.000 CUM 1 Non Electrical Opencast WHEEL

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Details of violations observed during current inspection and compliance position of violation pointed out					
Violation observed			Showcause position		
Rule NO.	Issued on	Compliance on	Rule NO.	Issued on	Compliance on
Rule 11(1)	17-JUL-23		Rule 11(1)	14-OCT-23	11-NOV-23
Rule 33	17-JUL-23		Rule 33	14-OCT-23	11-NOV-23
Rule 45(7)	17-JUL-23		Rule 45(7)	14-OCT-23	11-NOV-23

Date :**(ROBERT SIMON C)**

Indian Bureau of Mines