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MCDR inspection REPORT

Jabalpur regional office

Mine file No : MP/KTN/LST- 269

Mine code : 38MPR47097

- (i) Name of the Inspecting : **C004**) **ROBERT SIMON C**
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : Shri Hemant Kumar Roy (Geologist)
Official with
Designation
- (iv) Date of Inspection : 25-AUG-23
- (v) Prev.inspection date : 13-DEC-17

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **PONDI (38.84 HA)**
- (b) **Registration NO.** :
- (c) Category : A
- (d) Type of Working : Opencast
- (e) Postal address
State : MADHYA PRADESH
District : KATNI
Village : Pondi
Taluka :
Post office : Bichua
Pin Code : 483501
FAX No. : NA
E-mail : newminerals1@
yahoo.com
Phone : NA
- (f) Police Station :
- (g) First opening date : 05.04.02
2. Address for : SHRI SHYAM LAL KOAL
correspondance : MISSION CHOWK, KATNI (M.P.)483501
3. (a) Lease Number : MPR2436
(b) Lease area : 21.33
(c) Period of lease : 50
(d) Date of Expiry : 04-APR-52
4. Mineral worked : LIMESTONE Main

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5. Name and Address of the

Lessee : SHYAM LAL KOAL
MISSION CHOWK, KATNI
MADHYA PRADESH
Phone:
9300512088
FAX :NA

Owner : SHYAM LAL KOAL
MISSION CHOWK, KATNI
MADHYA PRADESH
Phone:
9300512088
FAX : N. A.

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	07-MAR-02
Plan/Scheme of Mining	:	Mining Scheme rule 12 MCDR1988	09-JUN-15
	:	MP modif under 17(3) MCR 2016	02-JUL-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	25 BOREHOLES	25 BOREHOLES	
1b	Exploration over lease area for geological axis 1 or 2	Entire area explored in G1.	Entire area explored in G1.	
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	Nil	Nil	
1e	Balance reserve as on 01/04/20	Not specified	122- 515905 T	Re-estimation reserve wise is due since the proposed boreholes have been drilled.
1f	General remarks of inspecting officers on geology, exploration etc			The lease consists bedded deposit of regular habit having alternate band of limestone and dolomite.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Pit A, B & C	Pit A, B & C	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches in topsoil overburden and mineral proposed.	Separate benches in topsoil overburden and mineral carried out.	
2c	Stripping ratio or ore to OB ratio	1:0.08	1:0.11	
2d	Quantity of topsoil generation in m3	9120	9000	
2e	Quantity of overburden generation in m3	8408	1408	Violation pointed out under Rule 11(1) of MCDR 2017.

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2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Overall development is lagging behind approved proposals. Violation pointed out under Rule 11(1) of MCDR 2017.
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Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	03	01	Violation pointed out under Rule 11(1) of MCDR 2017.
3b	Quantity of ROM mineral production proposed	94595	12450	
3c	Recovery of sailable/usable mineral from ROM production	100%	100%	
3d	Quantity of mineral reject generation	Nil	Nil	
3e	Grade of mineral rejects generation and threshold value declared.	NA	NA	
3f	Quantity of sub grade mineral generation.	Nil	Nil	
3g	Grade of sub grade mineral generation	Nil	NA	
3h	Manual / Mechanised method adopted for segregating from ROM	Manual	Manual	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Nil	Not done	

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3j	Provision of drilling and blasting in mineral benches	Proposed	As per proposal.
3k	Provision of mining machineries in mineral benches	Proposed	Type of machinery Capacity of each type of machinery Unit (in which capacity is reported) No. of machinery Electrical Nonelectrical (specify) Used in open cast underground (specify) BACK HOE 1.000 CUM 1 Non Electrical Opencast DUMPER 15.000 TONNE 4 Non Electrical Opencast FRONT END LOADER 3.000 CUM 1 Non Electrical Opencast WATER TANKER 4500.000 LITRE 1 Non Electrical Opencast
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Proposed	Found suitable.
3m	Total area covered under excavation/pits	4.2 ha	2.45 ha
3n	Ore to OB ratio for the pit/mine during the year.	1:0.08	1:0.11
3o	Total area put in use under different heads at the end of year	7.82 ha	6 ha approx.
3p	Production of ROM mineral during the last five year period as applicable	2018-19 00 2019-20 110275 2020-21 70632 2021-22 63990 2022-23 94595	2018-19 00 2019-20 00 2020-21 00 2021-22 9250 2022-23 12450

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3q General remarks of inspecting officers on method of mining etc.

Back hoe and dumper combination is deployed. Only 12450 Tonnes of Limestone is produced against the proposal of 94595 Tonnes of Limestone for the year 2022-23. Violation pointed out under Rule 11(1) of MCDR 2017.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Separate dumping of topsoil & OB proposed.	Separate dumping of topsoil & OB done.	
4b	Location of topsoil, OB and mineral reject dumps	14 no of dumps scattered throughout the lease	14 no of dumps scattered throughout the lease	
4c	Number of dumps within lease area and outside of lease area	14 no of temporary dumps scattered throughout the lease	14 no of temporary dumps scattered throughout the lease	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	outside UPL	outside UPL	
4e	Number of active and alive dumps.	08 temporary dumps	06 temporary dumps	
4f	Number of dead dumps.	Not proposed	Nil	
4g	Number of dumps established.	Nil	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there.	Not specified	100 m of garland drain.	
4i	Length of Retaining wall or garland drain all along dumps	Nil	100 m of garland drain.	

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4j	Number of settling ponds	Nil	Nil	
4k	Specific comments of inspecting officer on waste dump management			Waste generated is being temporarily generated within the lease area.

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 from mined out area before starting backfilling proposed	Full extraction of mineral from mined out area before starting backfilling adopted	
5b	Area under backfilling of mined out area	Nil	0.167 ha	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	For plantation	For plantation	
5d	Total area fully reclaimed and rehabilitated	Not specified	0.167 ha	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			Backfilling is carried out as per requirement.

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	
6b	Area available for rehabilitation (ha) .	Nil	0.167	

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6c	afforestation done (ha).		0.162
6d	No. of saplings planted during the year	150	180
6e	Cumulative no .of plants	Not specified	500 approx.
6f	Any other method of rehabilitation	NA	NA
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	NA	0.167
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	NA	0.167
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area		0.162 HA
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

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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.			PMCP operations carried out in the was satisfactory.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM mineral dispatch	ROM mineral dispatch	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	manual	manual	
7c	Different grade of mineral sorted out at mines.	Nil	Cement grade	
7d	Any beneficiation process at mines .	No beneficiation process at mines proposed.	No beneficiation process at mines adopted.	

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7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	No beneficiation process at mines adopted, only ROM dispatch.
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Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Yes	Separate removal and utilization of topsoil for plantation done.	
8b	Concurrent use or storage of topsoil	Yes	Separate removal and utilization of topsoil for plantation done.	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	overburden dumps proposed	overburden dumps maintained over an area of 0.410 ha	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Yes	Backfilling done	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Yes	Backfilling done over an area of 0.167 ha	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Yes	Available as PMCP report in AR	
8g	Survival rate	80%	80%	
8h	Water sprinkling on roads to control airborne dust	Yes	Carried out.	

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8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Aesthetic beauty in and around mine area needs improvement.
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Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Yes	Returns submitted online.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Yes	Mining Engineer in charge: AJAY PRAJAPATI Geologist in charge : HEMANT ROY	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Yes	12. 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 2.443 2.443 (iii) Reclaimed-rehabilitated 0.000 0.167 0.167 (iv) Used for waste disposal 0.000 0.410 0.410 (v) Occupied by plant, buildings, residential, welfare buildings and roads 0.000 0.528 0.528 (vi) Used for any other purpose (specify) GREEN BELT 0.000 0.162	

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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 180 0 ii) Survival rate in percentage 80 0 iii) Total no. of trees at the end of the year 145 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	Yes	Production and Stocks of ROM ore at Mine-head Category Opening stock Production Closing stock (a) Open Cast workings 0.000 12450.000 0.000
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Given	Grade-wise Production, Dispatches, Stocks and Ex-mine prices: Grades** Opening stock at mine-head Production Despatches from minehead Closing stock at mine-head Ex-mine price (?-Tonne) (a) LD Grade (less than 1.5% 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 0.000 0.000 0.000 0.000 0.00 (d) Chemical 0.000 0.000 0.000 0.000 0.00 (e) Cement 13545.000 12450.000 7225.825 18769.175 399.36
9h	Scrutiny of Annual return on fixed assets	Nil	Nil

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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 each type of machinery Unit (in which capacity is reported) No. of machinery Electrical Nonelectrical (specify) Used in opencast/underground (sp ecify) BACK HOE 1.000 CUM 1 Non Electrical Opencast DUMPER 15.000 TONNE 4 Non Electrical Opencast FRONT END LOADER 3.000 CUM 1 Non Electrical Opencast
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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)	01-NOV-23		Rule 11 (1)	01-NOV-23	26-APR-24
Rule 31 (4)	01-NOV-23	09-JAN-24			
Rule 33	01-NOV-23	09-JAN-24			
Rule 34 (1)	01-NOV-23		Rule 33	01-NOV-23	07-MAR-24
Rule 45 (7)	01-NOV-23		Rule 45 (7)	01-NOV-23	07-MAR-24
Rule 55 (1)	01-NOV-23	09-JAN-24			

Date :

(ROBERT SIMON C)

Indian Bureau of Mines