

MCDR inspection REPORT

Jabalpur regional office

Mine file No : MP/KTN/LST-225

Mine code : 38MPR18121

- (i) Name of the Inspecting : **C004**) **ROBERT SIMON C**
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : Ajay Pandey (Mines Head)
Official with Designation
- (iv) Date of Inspection : 15-DEC-22
- (v) Prev.inspection date : 08-FEB-17

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **PONDI (4.76 HA)**
- (b) **Registration NO.** :
- (c) Category : 'A'
- (d) Type of Working : Opencast
- (e) Postal address :
State : MADHYA PRADESH
District : KATNI
Village : PONDI
Taluka : DHIMARKHEDA
Post office : BICHUA
Pin Code :
FAX No. : N. A.
E-mail : snsktn@sancharnet.in
Phone : 07622- 221976, 222304
- (f) Police Station :
- (g) First opening date : 20-OCT-95
- (h) Weekly day of rest : THU
2. Address for : M/S S.N.SUNDERSON & COMPANY
correspondance P.O.NO.39, CIVIL LINES, KATNI (M.P.) 483501
3. (a) Lease Number : MPR1531
- (b) Lease area : 4.76
- (c) Period of lease : 50
- (d) Date of Expiry : 19-OCT-45
4. Mineral worked : LIMESTONE Main

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5. Name and Address of the

Lessee : S.N.SUNDERSON & COMPANY
 P.O.NO.39, CIVIL LINES,
 KATNI MADHYA PRADESH
 Phone:52304, 54061
 FAX :07622-51976

Owner : S.N.SUNDERSON & COMPANY
 POST BOX.NO.39 JABALPUR
 ROAD, BARAGAWAN KATNI
 MADHYA PRADESH
 Phone: 52304, 54061
 FAX : 07622-51976

Mining Engineer

Name : RAVI SINGH,Part Time
 Qualification : B.Sc. (Mining)
 Appointment/ : 08-MAY-03
 Termination date

6. Date of approval of Mining	:	Mining Scheme rule 12 MCDR1988	12-AUG-04
Plan/Scheme of Mining		Mining Scheme rule 12 MCDR1988	26-SEP-08
		Mining Scheme rule 12 MCDR1988	22-OCT-14
		MP modif under MCR 1960	13-MAY-16
		MP review under 17(1) MCR 2016	24-SEP-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	02 boreholes	02 boreholes	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not specified	Rs 368160/-	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Not proposed	G2-4.76 ha	
1e	Balance reserve as on 01/04/20	122-0.74 MT	122-0.69 MT	
1f	General remarks of inspecting officers on geology, exploration etc			Limestone / Dolomite deposit of the lease area belongs to Mahakoshal group and this is a metamorphic deposit. These rocks are structurally undisturbed. The litho logical succession w.r.to. local litho-units being encountered based on the exposure in the quarry and bore hole.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	N2617602 - E440676 N2617712 - E440856	N2617602 - E440676 N2617712 - E440856	

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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 adopted.
2c	Stripping ratio or ore to OB ratio	1:0.46	1:0.46
2d	Quantity of topsoil generation in m3	2191	2191
2e	Quantity of overburden generation in m3	5520	5520
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc		

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	01	01	
3b	Quantity of ROM mineral production proposed	49654	49629	
3c	Recovery of sailable/usable mineral from ROM production	80%	80%	
3d	Quantity of mineral reject generation	Not proposed	Nil	
3e	Grade of mineral rejects generation and threshold value declared.	NA	NA	
3f	Quantity of sub grade mineral generation.	Not proposed	Nil	
3g	Grade of sub grade mineral generation	NA	NA	

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3h	Manual / Mechanised method adopted for segregating from ROM	Manual & Mechanized	Manual & Mechanized
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	NA	NA
3j	Provision of drilling and blasting in mineral benches	Yes	Done
3k	Provision of mining machineries in mineral benches	Yes	Type of machinery Capacity of each unit No.of units Electrical/ Non-Electrical (specify) Used in opencast/ underground (specify) BACK HOE 0.900 CUM 1 Non Electrical Opencast DUMPER 20.000 TONNE 2 Non Electrical Opencast AIR COMPRESSOR 8.000 CUM/MN 1 Non Electrical Opencast
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	Details of Benches (Separately for mechanised and manual sections) In ore In OB/Waste (i) Number of Benches Mechanised 3 1 (ii) Average height (meters) Mechanised 8 1 (iii) Depth of the deepest working from adjacent ground (Meters) Mechanised 13 1
3m	Total area covered under excavation/pits	2.06 ha	1.92 ha
3n	Ore to OB ratio for the pit/mine during the year.	1:0.46	1:0.46

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3o	Total area put in use under different heads at the end of year	3.16	2.95
3p	Production of ROM mineral during the last five year period as applicable	2017-18 37605 2018-19 45435 2019-20 36378 2020-21 46930 2021-22 49654	2017-18 0 2018-19 0 2019-20 0 2020-21 0 2021-22 49629

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 maintained	
4b	Location of topsoil, OB and mineral reject dumps	N-2617500 E-440700 N-2617600 E-440800	N-2617500 E-440700 N-2617600 E-440800	
4c	Number of dumps within lease area and outside of lease area	02 within lease	02 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.	02	02	
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.	Yes	Garland Drain 250 x2x1m.	
4i	Length of Retaining wall or garland drain all along dumps	Garland Drain 250 x2x1m.	Garland Drain 250 x2x1m.	
4j	Number of settling ponds	Nil	Nil	

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4k	Specific comments of inspecting officer on waste dump management	Separate dumping of topsoil & OB were being maintained within the lease area.
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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	0.083	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Stacking	Stacking	
5d	Total area fully reclaimed and rehabilitated	Nil	0.083 ha	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			Ffull extraction of mineral from mined out area before starting backfilling adopted in the lease area.

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	The yearly PMCP report was not submitted as per this rule.	Violation pointed out.
6b	Area available for rehabilitation (ha) .	Nil	0.1 ha	

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6c	afforestation done (ha).	Nil	0.1 ha
6d	No. of saplings planted during the year	Nil	150 nos
6e	Cumulative no .of plants	Not specified	300 nos 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	NA
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	NA	NA
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

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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	Six Monthly EC monitoring done
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.		

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.	Not proposed	Nil	
7c	Different grade of mineral sorted out at mines.	Nil	Nil	
7d	Any beneficiation process at mines	Not proposed	Beneficiation process not adopted at mines.	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			Beneficiation process not adopted at mines. ROM mineral dispatch being done.

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Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Separate removal and stacking of topsoil proposed	Separate removal and stacking of topsoil done	
8b	Concurrent use or storage of topsoil	stacking proposed	stacking done	
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	proposed	As per proposal.	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Reclamation proposed	As per proposal.	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	proposed	The tree types within lease are of Mango, karanj, Su Babul, Neem.	
8g	Survival rate	Not proposed	70% as per records.	
8h	Water sprinkling on roads to control airborne dust	Proposed	Water sprinkling on roads to control airborne dust done.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Aesthetic beauty in and around mine area is moderate.

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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	Returns submitted online	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Given	Manager SH. ASHISH SINGH Mining Engineer in charge SH. ASHISH SINGH Geologist in charge SH. AJAY PANDEY	
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 & abandoned by opencast (O/C) mining 0.000 0.000 0.000 (ii) Covered under current (O/C) Workings 0.000 1.500 1.500 (iii) Reclaimed/Rehabilitated 0.000 0.083 0.083 (iv) Used for waste disposal 0.000 0.000 0.000 (v) Occupied by plant, buildings, residential, welfare buildings & roads 0.000 0.080 0.080	
9d	Scrutiny of Annual return on afforestation	Given	(i) Number of trees planted during the year 150 (ii) Survival rate in percentage 70	
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	Category Opening stock (in tonne) Production (in tonne) Closing stock (in tonne) (a) Open Cast Workings 550.360 49629.000 4584.065 (b) Underground Workings 0.000 0.000 0.000 (c) Dump Workings 0.000 0.000 0.000
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Given	Grades Opening stock at mine head (in tonne) Production (in tonne) Dispatches from mine head (in tonne) Closing stock at mine head (in tonne) Ex-mine price (in . Per Tonne) (a) LD 0.000 0.000 0.000 0.000 0.00 (b) SMS 0.000 0.000 0.000 0.000 0.00 (c) Chemical 0.000 0.000 0.000 0.000 0.00 (d) BF 550.360 49629.000 45595.295 4584.065 474.00 (e) Cement 0.000 0.000 0.000 0.000 0.00
9h	Scrutiny of Annual return on fixed assets	Given	Value of Fixed Assets (in Rs.) 1632359

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9k	Scrutiny of Annual return on mining machineries	Given	Type of machinery Capacity of each unit No.of units Electrical/ Non-Electrical (specify) Used in opencast/ underground (specify) BACK HOE 0.900 CUM 1 Non Electrical Opencast DUMPER 20.000 TONNE 2 Non Electrical Opencast AIR COMPRESSOR 8.000 CUM/MN 1 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
MCDR17	Rule 26(2)	21-APR-23			
MCDR17	Rule 31(4)	21-APR-23			
MCDR17	Rule 33	21-APR-23			
	Rule 45(7)	21-APR-23			

Date :**(ROBERT SIMON C)**

Indian Bureau of Mines