

I/8791/2023

MCDR inspection REPORT

Jabalpur regional office

Mine file No : MP/KTN/LST-3

Mine code : 38MPR18009

- (i) Name of the Inspecting : **C004**) **ROBERT SIMON C**
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : Riju Jauhar (Director),Ajay Pandey (Mines Head).
Official with
Designation
- (iv) Date of Inspection : 15-DEC-22
- (v) Prev.inspection date : 05-DEC-21

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **AMEHTA (9.86HECT.)**
- (b) **Registration NO.** :
- (c) **Category** : A Fully Mechanised
- (d) **Type of Working** : Opencast
- (e) **Postal address**
- State : MADHYA PRADESH
- District : KATNI
- Village : AMEHTA
- Taluka : VIJAYRAGHAVGARH
- Post office : KAHANGAON
- Pin Code : 483880
- FAX No. : N. A.
- E-mail : snsktn@sancharnet.in
- Phone : 07622- 221976, 222304
- (f) **Police Station** :
- (g) **First opening date** : 21-SEP-77
- (h) **Weekly day of rest** : SAT
2. **Address for** : M/S S.N.SUNDERSON & COMPANY
correspondance P.O.NO.39, CIVIL LINES, KATNI (M.P.) 483501
3. (a) **Lease Number** : MPR0261
- (b) **Lease area** : 9.86
- (c) **Period of lease** : 50
- (d) **Date of Expiry** : 30-AUG-28
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

6. Date of approval of Mining Plan/Scheme of Mining	:	Mining Scheme rule 12 MCDR1988	25-APR-97
		Renewal under rule 24 MCR1960	25-AUG-04
		Mining Scheme rule 12 MCDR1988	14-NOV-06
		Modif.of approved Mining Plan	10-AUG-10
		Mining Scheme rule 12 MCDR1988	28-JUN-11
		MP modif under MCR 1960	31-AUG-16
		MP review under 17(1) MCR 2016	26-NOV-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	Nil	Nil	
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	G2-2.45 HA	G2-2.45 HA	
1e	Balance reserve as on 01/04/20	Not specified	As on 04.12.2021 111-522872 tonnes 122-544875 tonnes 211-133344 tonnes 222-206532 tonnes	
1f	General remarks of inspecting officers on geology, exploration etc			The lease area from a part of the Semri Group and comprises rocks belonging to Rohtas formation of lower Vindhyan system consists limestone which is grey, light gray, fine to Medium Grained and Slightly fractured.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
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2a	Location of development w.r.t.lease area	It is proposed to develop the quarry towards west. The orientation of the working will be along NE-SW. The OB removal will be carried out in one bench of average height 4m sloping at 45°. The width of the bench will vary from 10 to 15m.	As per proposal	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Proposed	As per proposal	
2c	Stripping ratio or ore to OB ratio	1:0.31	1:0.67	
2d	Quantity of topsoil generation in m3	Nil	Nil	
2e	Quantity of overburden generation in m3	71810 t	Nil	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			

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	01	01	
3b	Quantity of ROM mineral production proposed	135254MT	59678MT	Violation pointed out under rule 11(1) of MCDR 2017.
3c	Recovery of sailable/usable mineral from ROM production	60%	60%	

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3d	Quantity of mineral reject generation	Not proposed. Only Interburden which is a form of waste was proposed.	Nil
3e	Grade of mineral rejects generation and threshold value declared.	NA	NA
3f	Quantity of sub grade mineral generation.	NA	NA
3g	Grade of sub grade mineral generation	NA	NA
3h	Manual / Mechanised method adopted for segregating from ROM	NA	NA
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	Proposed	As per proposal
3k	Provision of mining machineries in mineral benches	Proposed	Type of machinery Capacity of each unit No. of units Electrical/ Non-Electrical (specify) Used in opencast/ underground (specify) BACK HOE 1.200 CUM 1 Non Electrical Opencast DUMPER 20.000 TONNE 4 Non Electrical Opencast AIR COMPRESSOR 8.000 CUM/MN 1 Non Electrical Opencast

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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 5 1 (ii) Average height (meters) Mechanised 6 6 (iii) Depth of the deepest working from adjacent ground (Meters) Mechanised 36 6	
3m	Total area covered under excavation/pits	4.4 ha	3.85 ha	
3n	Ore to OB ratio for the pit/mine during the year.	1:0.31	1:0.67	
3o	Total area put in use under different heads at the end of year	6.5 ha	5.85 ha	
3p	Production of ROM mineral during the last five year period as applicable	2017-18 152992 2018-19 179417 2019-20 148820 2020-21 176115 2021-22 135254	2017-18 0 2018-19 0 2019-20 0 2020-21 0 2021-22 59678.000	
3q	General remarks of inspecting officers on method of mining etc.			Overall excavation was found lagging behind approved proposals. 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 OB proposed	Separate dumping of OB done	

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4b	Location of topsoil, OB and mineral reject dumps	N-2655935-E-452810,N-2656025-E-452883,N-2656022-E-453084,N-2656056-E-453138,N-2655950-E-452919,N-2656015 E-453004	N-2655935-E-452810,N-2656025-E-452883,N-2656022-E-453084,N-2656056-E-453138,N-2655950-E-452919,N-2656015 E-453004	
4c	Number of dumps within lease area and outside of lease area	03	03	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Within UPL	Within UPL	
4e	Number of active and alive dumps.	01	01	
4f	Number of dead dumps.	2	2	
4g	Number of dumps established.	Nil	Nil	
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	NA	NA	
4j	Number of settling ponds	Nil	Nil	
4k	Specific comments of inspecting officer on waste dump management			Waste/OB/IB is being dumped and will be used for plantation and reclamation purposes in the future.

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.	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	1.60 ha	0.45 ha	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Topsoil generation not proposed	Nil	
5d	Total area fully reclaimed and rehabilitated	1.60 ha	0.45 ha	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			Backfilling, reclamation were lagging behind the approved proposals as the overall excavation is lesser.

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	Nil	
6c	afforestation done (ha).	0.2 ha	0.5 ha	
6d	No. of saplings planted during the year	200	200	
6e	Cumulative no .of plants	Nil	500 nos	
6f	Any other method of rehabilitation	NA	NA	

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6g	Cost incurred on watch and care during the year	Not specified	Nil
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	Nil	Nil
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Nil	Nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Nil	Nil
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	Nil	Nil
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	Nil	Nil
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	Nil	Nil
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Nil	Nil
6p	Compliance of environmental monitoring (core zone and buffer zone)	Yes	Carried out.

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6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	PMCP compliance & progressive closer operations were being carried out by and large as per approved proposals.
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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.	NA	NA	
7d	Any beneficiation process at mines	Not proposed	NA	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			No beneficiation process at mines adopted, only ROM dispatch.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Topsoil generation not proposed.	Nil	
8b	Concurrent use or storage of topsoil	NA	NA	

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8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	OB dump proposed	OB dump maintained.	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Use of overburden for backfilling proposed.	Use of overburden for backfilling adopted.	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Phased restoration, reclamation by backfilling & Plantation proposed.	Phased restoration, reclamation by backfilling & Plantation adopted.	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Proposed	Mahua, Mango, Dalbergia sissoo, Bargad, Pipal, Neem, Kachnar, Karanj, Gulmohar Khamer and Munga available in the lease area.	
8g	Survival rate	80%	80%	
8h	Water sprinkling on roads to control airborne dust	Yes	Water sprinkling done.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Aesthetic beauty in and around mine area is fair

Compliance of Rule 45:

Sl.No.	Item	Proposals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Given	AR & MR online submitted	

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9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Given	Manager SH.R.K. TIWARI Mining Engineer in charge Sh. R.K.Tiwari Geologist in charge SH. AJAY PANDEY	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	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 3.850 3.850 (ii) Covered under current (O/C) Workings 0.000 3.850 3.850 (iii) Reclaimed/Rehabilitated 0.000 1.000 1.000 (iv) Used for waste disposal 0.000 0.000 0.000 (v) Occupied by plant, buildings, residential, welfare buildings & roads 0.000 0.500 0.500 (vi) Other Purpose (Plantation) 0.000 0.500 0.500	In Part-I, Sl.No.12, the lease area (surface area) utilisation are furnished incorrectly.	Violation pointed out under rule 45(7) of MCDR 2017.
9d	Scrutiny of Annual return on afforestation	Given	(i) Number of trees planted during the year 50 (ii) Survival rate in percentage 80	

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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	Closing Stock of Processed ore BF Grade(LIMESTONE)=26427.395 T
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Given	Grade-wise production, Despatches, Stocks and Ex-mine prices of Processed ore(LIMESTONE) Grades Opening stock at mine head (in tonne) Production (in tonne) Despatches 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 0.000 0.00 (c) Chemical 0.000 0.000 0.000 0.000 0.000 0.00 (d) BF 801.225 59678.000 34051.830 26427.395 376.00 (e) Cement 0.000 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.) 2021984

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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 1.200 CUM 1 Non Electrical Opencast DUMPER 20.000 TONNE 4 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 11(1)	20-APR-23			
MCDR17	Rule 33	20-APR-23			
	Rule 45(7)	20-APR-23			

Date :**(ROBERT SIMON C)**

Indian Bureau of Mines