

**INDIAN BUREAU OF MINES
MINERALS DEVELOPMENT AND REGULATION DIVISION**

**MCDR inspection REPORT
Jabalpur regional office**

Mine file No : MP/KTN/LST-7

Mine code : 38MPR18013

- (i) Name of the Inspecting : **C004**) **ROBERT SIMON C**
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine :
Official with
Designation
- (iv) Date of Inspection : 19-MAR-21
- (v) Prev.inspection date : 16-JAN-20

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **BADARI (5.04 HECT.)**
- (b) **Registration NO.** :
- (c) Category : A Other than Fully Mech.
- (d) Type of Working : Opencast
- (e) Postal address
State : MADHYA PRADESH
District : KATNI
Village : BADARI
Taluka : VIJAYRAGHAVGARH
Post office : KAHANGAON
Pin Code : 483880
FAX No. : N. A.
E-mail : snsktm@bom6.vsnl.net.in
Phone : 07622- 221976, 222304
- (f) Police Station :
- (g) First opening date : 02-MAY-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 : MPR0262
(b) Lease area : 5.04
(c) Period of lease : 20
(d) Date of Expiry : 01-MAY-17
4. Mineral worked : LIMESTONE Main

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 : BALRAM SINGH,Part Time
Qualification : B.Sc.(Mining), A.I.S.M
Appointment/ :
Termination date

6. Date of approval of Mining	:	Renewal under rule 22 MCR1960	14-MAR-00
Plan/Scheme of Mining	:	Mining Scheme rule 12 MCDR1988	14-SEP-04
	:	Mining Scheme rule 12 MCDR1988	15-JUN-09
	:	Mining Scheme rule 12 MCDR1988	12-SEP-14
	:	MP modif under 17(3) MCR 2016	21-APR-17

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	not proposed	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	0.27 ha G2 area to be explored in G1	0.27 ha G2 area to be explored in G1	
1e	Balance reserve as on 01/04/20	0.8045 tonnes	0.8045 million tonnes	

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	central and western part of the quarry.	central and western part of the quarry.	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches in OB and minerals proposed	Separate benches in OB and minerals maintained	
2c	Stripping ratio or ore to OB ratio	1:0.12	1:0.13	
2d	Quantity of topsoil generation in m3	4938 m3	Details not submitted	
2e	Quantity of overburden generation in m3	29290 m3	29200 m3	

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	227511 tonnes	226030 tonnes	
3c	Recovery of sailable/usable mineral from ROM production	not proposed	entire ROM produced is sold	
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	NA	NA	
3h	Manual / Mechanised method adopted for segregating from ROM	not proposed	not done	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	not proposed	not done	

3j	Provision of drilling and blasting in mineral benches	proposed	as per proposal	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	proposed	In the southern part of lease, the benches have been found merged resulting in highwall between grid coordinates 2657630 N to 2657645 N & 455520 E to 455580 E.	violation pointed out
3m	Total area covered under excavation/pits	4.70 ha	4.70 ha	
3n	Ore to OB ratio for the pit/mine during the year.	1:0.12	1:0.13	
3o	Total area put in use under different heads at the end of year	4.75 ha	4.75 ha	
3p	Production of ROM mineral during the last five year period as applicable	2015-16-90660 2016-17-73560 2017-18-225600 2018-19-228960 2019-20-227511	2015-16 49112 2016-17 72240 2017-18 107260 2018-19 201659 2019-20 226030	
3q	General remarks of inspecting officers on method of mining etc.			

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Separate dumps of topsoil, OB & Mineral proposed	Separate dumps of topsoil, OB & Mineral maintained	
4b	Location of topsoil, OB and mineral reject dumps	01 OB dump in eastern part of the quarry.	01 OB dump in eastern part of the quarry.	

4c	Number of dumps within lease area and outside of lease area	01 temporary dump within lease area	01 temporary dump within lease area
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	outside UPL	outside UPL
4e	Number of active and alive dumps.	01	01
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.	not proposed	Garland drain 200 meters
4i	Length of Retaining wall or garland drain all along dumps	not proposed	Garland drain 200 meters
4j	Number of settling ponds	01	01
4k	Specific comments of inspecting officer on waste dump management		

Solid Waste Management - Backfilling:

Sl.No.	Item	Proposals	Actual work	Remarks
5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	backfilling in barrier as well as east part of quarry proposed	backfilling in barrier as well as east part of quarry adopted	
5b	Area under backfilling of mined out area	0.8 ha	0.8 ha	

5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	to be used in barrier plantation	used in barrier plantation
5d	Total area fully reclaimed and rehabilitated	0.8 ha	0.8 ha
5e	General remarks of inspecting officers on backfilling and reclamation etc.		

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	not submitted.	violation pointed out
6b	Area available for rehabilitation (ha) .	NA	NA	
6c	afforestation done (ha).	NA	NA	
6d	No. of saplings planted during the year	NA	NA	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	0.8 ha	0.8 ha	

6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	not proposed	waste toppled in 0.8 ha
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	125 nos of saplings	125 nos of saplings planted within lease
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	NA	NA
6p	Compliance of environmental monitoring (core zone and buffer zone)	proposed	as per proposal
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 carried out	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	not proposed	not done	

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

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	yes	Top soil is used for plantation	
8b	Concurrent use or storage of topsoil	proposed	Top soil is used for plantation	
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	OB will be used for backfilling	OB used for backfilling	

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	proposed	as per proposal
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	not proposed	125 nos of saplings planted within lease
8g	Survival rate	not proposed	75 %
8h	Water sprinkling on roads to control airborne dust	proposed	as per proposal
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area		

Compliance of Rule 45:

Sl.No.	Item	Proposals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	yes	A.R. Submitted upto 2019-20. M.R. Submitted upto Mar 2021.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	yes	Manager & Mining Engineer in charge -SH. R.K. TIWARI Geologist in charge- SHRI AJAY PANDEY	

9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	proposed	(i) Already exploited & abandoned by opencast (O/C) mining 0.800 (ii) Covered under current (O/C) Workings 3.900 (iii) Reclaimed/Rehabilitated 0.800 (iv) Used for waste disposal 0.650 (v) Occupied by plant, buildings, residential, welfare buildings & roads 0.050
9d	Scrutiny of Annual return on afforestation	proposed	125 nos of saplings within lease
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	nil	nil
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost		
9h	Scrutiny of Annual return on fixed assets		
9k	Scrutiny of Annual return on mining machineries		

Details of violations observed during current inspection and compliance position of violation pointed out

Violation observed			Show cause position		
Rule NO.	Issued on	Compliance on	Rule NO.	Issued on	Compliance on
MCDR17	Rule 11(1)	25-MAY-21			
	Rule 26(2)	25-MAY-21			
MCDR17	Rule 31(4)	25-MAY-21			

Date :

(ROBERT SIMON C)

Indian Bureau of Mines