

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

MCDR inspection REPORT

Nagpur regional office

Mine file No : MP/CNW/MN- 34/NGP

Mine code : 40MPR08006

- (i) Name of the Inspecting : **G005**) **SANJAY M. GIRHE**
Officer and ID No.
- (ii) Designation : Regional Mining Geologist
- (iii) Accompanying mine :
Official with
Designation
- (iv) Date of Inspection : 11-AUG-21
- (v) Prev.inspection date : 10-AUG-21

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **GOWARI WADONA**
- (b) **Registration NO.** :
- (c) Category : B Manual
- (d) Type of Working : Opencast
- (e) Postal address :
State : MADHYA PRADESH
District : CHHINDWARA
Village : GOWARI WADONA
Taluka : SAUSAR
Post office : SAUSAR
Pin Code : 480108
FAX No. :
E-mail :
Phone :
- (f) Police Station :
- (g) First opening date : 05-APR-10
- (h) Weekly day of rest :
2. Address for :
correspondance
3. (a) Lease Number : MPR2205
- (b) Lease area : 6.61
- (c) Period of lease : 50
- (d) Date of Expiry : 10-MAY-57
4. Mineral worked : MANGANESE ORE Main

5. Name and Address of the

Lessee : M/S SHAKAMBHARI MINES & MINERALS.
CHHINDWARA MADHYA
PRADESH
Phone:
FAX :

6. Date of approval of Mining : Fresh under rule 22 MCR1960 11-APR-07
Plan/Scheme of Mining Mining Scheme rule 12 MCDR1988 10-OCT-14

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No exploration was proposed during the year 2020-21	Nil	
1b	Exploration over lease area for geological axis 1 or 2	No exploration proposed	Nil	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No exploration proposed	NA	
1d	Balance area to be explored to bring Geological axis in 1 or 2	No Proposals	Area explored under G2 level- 3.12Ha	Entire ML area of 6.607Ha needs to be proposed for G1 level exploration
1e	Balance reserve as on 01/04/20	Reserves in Tonnes Probable (122) - 192109 MT Resources in tonnes Pre-Feasibility(22): 78786 MT As per MMP approved on 21.06.2017	Reserves in Tonnes Probable (122) - 155258 MT Resources in tonnes Pre-Feasibility(22): 78786 MT As per Annual Return for the year 2020-21	No additional reserves/resources have been re-estimated
1f	General remarks of inspecting officers on geology, exploration etc	No Proposals of exploration given during the year 2020-21	Most of lease area explored by working pits only.	Litho-formation of ML area belongs to the Sausar group. Mn ore deposit associated with host rock mica-schist and meta sedimentary beds of dolomite.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
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2a	Location of development w.r.t.lease area	During the year 2020-21 underground working proposed from 292 to 267mRL	Working not carried out as per the proposals	Violation under Rule 11(1) of MCDR, 2017 issued for this deviations
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	No top soil generation proposed. Generation of OB proposed for concurrent backfilling	Working not carried out as per the proposals	Violation under Rule 11(1) of MCDR, 2017 issued for this deviations
2c	Stripping ratio or ore to OB ratio	1:0.88 Tonne/CuM	No overburden generated during the year	
2d	Quantity of topsoil generation in m3	Not Proposed	Nil	
2e	Quantity of overburden generation in m3	3288 CuM OB generation proposed	No overburden generated during the year 2020-21	Violation under Rule 11(1) of MCDR, 2017 issued for this deviations
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	NA	NA	There is single working pit having dimension 3.32 Ha x 18-20m depth. Working not carried out in accordance with approved proposals, hence violation was issued u/r 11(1) of MCDR, 2017

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Underground working below Pit-1	Working not carried out as proposed	Violation under Rule 11(1) of MCDR, 2017 issued for this deviations

3b	Quantity of ROM mineral production proposed	7750 MT proposed in 2020-21 by underground working	No production carried out from underground working	Violation under Rule 11(1) of MCDR, 2017 issued for this deviations
3c	Recovery of sailable/usable mineral from ROM production	90 % recovery from ROM	Not acheived	No production carried out from underground working
3d	Quantity of mineral reject generation	Not Proposed	Nil	No mineral reject generation proposed
3e	Grade of mineral rejects generation and threshold value declared.	No Proposals	Nil	Nil
3f	Quantity of sub grade mineral generation.	Not Proposed	Nil	Nil
3g	Grade of sub grade mineral generation	Not Proposed	Nil	
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.	No Proposals	Nil	
3j	Provision of drilling and blasting in mineral benches	Undergorund drlling was proposed	Nil	No undergorund working carried out during the year
3k	Provision of mining machineries in mineral benches	Houlage with skip, Winder hoisting, etc for underground working proposed	No undergorund working carried out during the year	Violation under Rule 11(1) of MCDR, 2017 issued for this deviations

3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Undergorund working proposed	Not carried out as proposed	Violation under Rule 11(1) of MCDR, 2017 issued for this deviations
3m	Total area covered under excavation/pits	4.36 Ha proposed as per approved MMP dtd 27.06.2017	3.97 Ha as per annual return 2020-21	Underground working not carried out as proposed
3n	Ore to OB ratio for the pit/mine during the year.	1:0.88 Tonne/CuM	No overburden generated during the year	Underground working not carried out as proposed
3o	Total area put in use under different heads at the end of year	As per the previous approved MMP Pits-3.32 Ha Waste dumping-0.18Ha Infrastructure -0.001Ha Road-0.10 Ha	As per the previous approved MMP Pits-3.979 Ha Reclaimed/Rehabilitated -0.527Ha Waste dumping-0.72Ha Other purpose-0.838 Ha Road-0.10 Ha	Details of land use as per annual return 2020-21
3p	Production of ROM mineral during the last five year period as applicable	2016-17-: NA 2017-18-: 46358 MT 2018-19-: 34891MT 2019-20-: 7484 MT 2020-21-: 7750 MT	2016-17-: 1800 MT 2017-18-: 10187 MT 2018-19-: 16895MT 2019-20-: 36769 MT 2020-21-: Nil	Production details as per the annual return for the 2020-21
3q	General remarks of inspecting officers on method of mining etc.	NA	NA	Underground method of mining proposed by access by single incline, one verticle shaft, haulage drive, cross cuts, ore drive, winzes/raises, etc.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
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4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Not Proposed	Nil	Concurrent use of OB for backfilling proposed
4b	Location of topsoil, OB and mineral reject dumps	Not Proposed	Nil, no production/development carried out in the year	Concurrent use of OB for backfilling proposed
4c	Number of dumps within lease area and outside of lease area	No Proposals	Two nos. of OB dumps towards eastern & western side of ML	One dump outside dump for which violation U/R 11(1) of MCDR, 2017 was issued
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Existing 02 nos. of OB dumps outside UPL	Existing 02 nos. of OB dumps outside UPL	During the year 2020-21 no OB dumping was proposed
4e	Number of active and alive dumps.	Two nos. of active dumps in ML area	Two nos. of active dumps in ML area	
4f	Number of dead dumps.	No dead dumps in ML area	No dead dumps in ML area	
4g	Number of dumps established.	No Proposals	Nil	No dumps have been stabilized
4h	Whether Retaining wall or garland drain all along dumps are there.	No Proposals	Nil	Underground working was proposed during the year
4i	Length of Retaining wall or garland drain all along dumps	No Proposals	Nil	
4j	Number of settling ponds	No Proposals	Nil	
4k	Specific comments of inspecting officer on waste dump management	NA	NA	During the reporting year underground working was proposed & concurrent use of OB for backfilling was also proposed.

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.	In most of opencast working pit area ore is exhausted & proposed for backfilling	Backfilling not done as no production/development carried out durin the year	Violation under Rule 11(1) of MCDR, 2017 issued for this deviations
5b	Area under backfilling of mined out area	3500 M2 area proposed for backfilling	Nil. No ore production/development carried out durin the year	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Not Proposed	Nil	Underground working proposed
5d	Total area fully reclaimed and rehabilitated	NA	NA	Details not furnished in approved document
5e	General remarks of inspecting officers on backfilling and reclamation etc.	NA	NA	Most of the opencast working pit area is mineral/ore exhausted and significant area has been matured for backfilling purpose in future.

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).	To be submitted before 1st July of every year	Not submitted	Violation under Rule 26(2) pointed out & issued
6b	Area available for rehabilitation (ha) .	During the year 3500 M2 area proposed	Nil, no ore production/development carried out during the year	
6c	afforestation done (ha) .	NA	NA	

6d	No. of saplings planted during the year	200 Saplings proposed	100 saplings within ML & 430 nos outside ML planted	
6e	Cumulative no .of plants	NA	NA	
6f	Any other method of rehabilitation	No Proposals	Nil	
6g	Cost incurred on watch and care during the year	No Proposal	Nil	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	3500 M2 area proposed for reclamation & rehabilitation	Nil, no ore production/development carried out during the year	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No Proposals	Nil	No ore production/development carried out during the year
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	No Proposals	Nil	No ore production/development carried out during the year
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No Proposals	Nil	No ore production/development carried out during the year
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	
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)	Periodical Air, Water, Noise monitoring Proposed	Nil	No ore production/development carried out during the year
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	NA	NA	Undergorund mine working as proposed not carried hence PMCP compliance not done for which violation U/R 26(2) of MCDR,2017 issued.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	7750 MT proposed as total ROM production for despatch. Grade wise sizing & sorting proposed within lease area	No ROM production carried out from opencast working. Grade wise sorting & sizing from ROM stacks	No underground ore production/development carried out during the year as proposed. Violation U/R 11(1) of MCDR,2017 pointed out & issued

7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual method	Sizing & sorting carried out manually	Sizing & sorting carried of ROM stacks during the year
7c	Different grade of mineral sorted out at mines.	Mn Ore%- 40-48%, Mn Ore%- 30-40%, Mn Ore%- 25-30%, etc	Grade wise sizing & sorting carried out as proposed	Mostly grade wise sorted ore being dispatched to Ferro Alloy Industries
7d	Any beneficiation process at mines	No mechanical benficiation proposed	Only manual sizing & sorting being practised	Sizing & sorting being carried out in ML area only
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	Mineral conservation proposed by systematic sorting & sizing of ore	Manual sizing & sorting being parctised	Systematic mineral conservation being practised by adopting manual sizing & sorting. Grade wise sorting & sizing being practised.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Not Proposed	Nil	No top soil generation during the year
8b	Concurrent use or storage of topsoil	Not Proposed	Nil	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Not Proposed	Nil, as no underground development/excavation carried out	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Not Proposed	Nil.	OB was proposed for backfilling purposed but no undergorund working carried out during the year

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Not Proposed	Nil	Nil
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	NA	100 saplings in ML & 430 saplings outside ML area planted	
8g	Survival rate	80%	Acheived as about 65%	
8h	Water sprinkling on roads to control airborne dust	Water sprinkling is proposed by water tanker	No development/excavation carried out during the year	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	NA	NA	Aesthetic beauty in and around mine area is not much satisfactory as plantation not done up to that extent.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	M.R. submitted upto- July-2021 A.R. submitted upto- 2020-21	Online monthly & annual returns submitted within stipulated time	Online submitted returns were produced during inspection
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Given	Shri Pramod Barve appointed as Geologist & Shri Kishore Magare as mining eng.	During inspection geologist was present

9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Given	Opencast working- 3.979Ha, Waste Dumps- 0.723Ha, Other Purpose- 0.838Ha, PMCP works- 0.527 Ha, etc	
9d	Scrutiny of Annual return on afforestation	Given	100 saplings planted in ML area & 430 nos. outside ML area	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Not Given	Not generated during the year	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Given	Mn Ore (Above 25%): O/S-293.50 MT Despatch-270.83 MT C/S-623.12 MT Mn Ore (25 to <35%): O/S-1299.50 MT Despatch-1606.56 MT C/S-242.940 MT Mn Ore (35% to <46%): O/S-176.59 MT Despatch-176.200 MT C/S-700.39 MT Mn Ore (46% & Above): O/S-119.58 MT Despatch-117.52 MT C/S-352.00 MT	Violation under Rule 45(7) of MCDR,2017 was pointed out for some deviation
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Given	Mn Ore (Above 25%) : Rs-3000/Tonne Mn Ore (25 to <35%) : Rs-4517/Tonne Mn Ore (35% to <46%): Rs-12000/Tonne Mn Ore (46% & Above): Rs-17500/Tonne	
9h	Scrutiny of Annual return on fixed assets	Given	Given as Rs-15868262 including various expenses related to the mining operations	

9k	Scrutiny of Annual return on mining machineries	Given	Nil	Underground working was proposed during the year
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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)	04-SEP-21	03-NOV-21				
MCDR17	Rule 26(2)	04-SEP-21	03-NOV-21				
MCDR17	Rule 45(7) (a)	04-SEP-21	03-NOV-21				

Date :

(SANJAY M. GIRHE)

Indian Bureau of Mines