

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

Mining Plan Modification REPORT

Jabalpur regional office

Mine file No : MP/BGT./MN.25

Mine code : 40MPR01082

- (i) Name of the Inspecting : **K006**) **NARESH KUMAR KATARIYA**
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : Smt. Gunjan Goenka (Agent), Sh. Nagendra Pathak (Mine
Official with
Designation
- (iv) Date of Inspection : 09-JUN-21
- (v) Prev.inspection date :

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **PAUNIYA MN. 8.00 HA.**
- (b) **Registration NO.** :
- (c) Category : A Fully Mechanised
- (d) Type of Working : Opencast
- (e) Postal address
State : MADHYA PRADESH
District : BALAGHAT
Village : PAUNIYA
Taluka : TIRODI
Post office : PAUNIYA
Pin Code : 481449
FAX No. : 07622-404937
E-mail : spgkatni@gmail.com
Phone : 07622-404937, 9425157590, !
- (f) Police Station : TRIRODI
- (g) First opening date :
- (h) Weekly day of rest : SUN
2. Address for :
correspondance
3. (a) Lease Number :
(b) Lease area :
(c) Period of lease :
(d) Date of Expiry :
4. Mineral worked : MANGANESE ORE Main

5. Name and Address of the

Lessee : SUKHDEO PRASAD GOENKA
GOENKA BHAWAN STATION ROAD
KATNI MADHYA PRADESH
Phone:N. A.
FAX :N. A.

Owner : SUKHDEO PRASAD GOENKA
GOENKA BHAWAN STATION ROAD
KATNI MADHYA PRADESH
Phone: N. A.
FAX : N. A.

6. Date of approval of Mining :
Plan/Scheme of Mining

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	Exploration was proposed by core drilling of 04 nos Bore holes (02 vertical & 02 inclined)	NIL	It has been observed that the exploratory drilling as proposed has not been done at the location as per proposal of approved document. Violation is pointed out for the same.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Departmental	Departmental	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Exploration in G-1 catagory.	Exploration has been done under G-2 catagory.	It has been observed that the exploratory drilling as proposed has not been done at the location as per proposal of approved document. Violation is pointed out for the same.
1e	Balance reserve as on 01/04/20		Balance reserve as on 01.04.2021 is under 122 catagory- 23987 tonss	

1f	General remarks of inspecting officers on geology, exploration etc	As per local geology, the deposit is bedded stratified tabular deposit of irregular habit with pocket type deposit. It has been observed that the exploratory drilling as proposed has not been done at the location as per proposal of approved document. Violation is pointed out for the same.
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Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Pit no. 01	Pit no. 01	Excavation was observed within the 7.5m barrier zone in the southern part of the mine. Violation is pointed out for the same.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Yes	Separate benches in topsoil overburden and mineral were not maintained in the pits as per approved document.	Violation pointed out for the same.
2c	Stripping ratio or ore to OB ratio	1:1.0	1:0.7	
2d	Quantity of topsoil generation in m3	NIL	NIL	
2e	Quantity of overburden generation in m3	2430 m3	3898 m3	

2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Separate benches in topsoil overburden and mineral not maintained in the pits as per approved document. Violation pointed out for the same.
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Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Two pits	Two pits	
3b	Quantity of ROM mineral production proposed	2430 Tonnes	2710 Tonnes	
3c	Recovery of sailable/usable mineral from ROM production	90%	90%	
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.	NA	NA	
3g	Grade of sub grade mineral generation	NA	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.	Not proposed	Not done	
3j	Provision of drilling and blasting in mineral benches	Not proposed	Blasting not done as per provided records. No use of explosive shown in the Annual Return of year 2020-21	
3k	Provision of mining machineries in mineral benches	No	No	Catagory B Mine
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	Excavation was observed within the 7.5m barrier zone in the southern part of the mine.	Violation pointed out under rule 11(1) of MCDR 2017.
3m	Total area covered under excavation/pits	5.099 Hect	4.21 Hect	
3n	Ore to OB ratio for the pit/mine during the year.	1:1.0	1:0.7	
3o	Total area put in use under different heads at the end of year	(i) opencast (O/C) mining 1.92 Hect (iv) Used for waste disposal 3.9 Hect (v) Occupied by buildings & roads 0.01Hect (vi) Other Purpose 0.3 Hect	Mining - 2.286 Hect Mineral Storage - .099 Hect Roads - 0.1 Hect Infrastructure - 0.05 Hect OB/ Waste Dump - 1.545 Other - 0.14 (Bund in Road side)	

3p	Production of ROM mineral during the last five year period as applicable	2016-17 - 648 T 2017-18 - 1215 T 2018-19 - 1620 T 2019-20 - 1620 T 2020-21 - 2430 T	2016-17 - 0 T 2017-18 - 0 T 2018-19 - 1605 T 2019-20 - 1630 T 2020-21 - 2714 T
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3q	General remarks of inspecting officers on method of mining etc.	Opencast mining method was proposed under B category. Excavation was observed within the 7.5m barrier zone in the southern part of the mine. Separate benches in topsoil overburden and mineral not maintained in the pits as per approved document. Violation pointed out for the same.
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Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Yes	Separate dumping observed during the inspection.	
4b	Location of topsoil, OB and mineral reject dumps	OB - West side the lease area near road for bunding. Top soil - No proposal Mineral Reject - No proposal	OB dump was observed in West side the lease area near road for bunding. Old dumps observed in Eastern part of lease area.	

4c	Number of dumps within lease area and outside of lease area	07 dumps	Total 07 dumps	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	the dump area is within the UPL	temporary dump within the UPL	06 dumps observed in the lease area and one dump is out side the lease area in the additional grante area by State Govt.
4e	Number of active and alive dumps.	07 dumps	07 dumps	
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 observed during the inspection	
4i	Length of Retaining wall or garland drain all along dumps	Not specified	Approx. 600 m graland drain was observed	
4j	Number of settling ponds	Not proposed	NIL	
4k	Specific comments of inspecting officer on waste dump management			06 dumps observed in the lease area and one dump is out side the lease area in the additional grante area by State Govt. Garland drain observed around two dumps near road side.

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.	NIL	Area not matured for backfilling	
5b	Area under backfilling of mined out area	NIL	NIL	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Not proposed	NIL	No top soil in the proposed area.
5d	Total area fully reclaimed and rehabilitated	NIL	NIL	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			Area not matured for backfilling. Reclamation was not proposed in the RY.

Progressive Mine Closure Plan:

Sl.No.	Item	Proposals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	Yes	Not submitted	The yearly report of PMCP has not been submitted for the previous approved plan period. Violation under rule 26(2) of MCDR 2017 is issued for the same.
6b	Area available for rehabilitation (ha) .	NIL	NIL	

6c	afforestation done (ha).	90 sq meter area in the 7.5 m barrier zone (10 plants proposed for RY)	10 sapling observed in the barrier zone.
6d	No. of saplings planted during the year	10 nos	10 nos
6e	Cumulative no .of plants	Not specified	approx. 60 plants
6f	Any other method of rehabilitation	Not proposed	Not done
6g	Cost incurred on watch and care during the year	Not specified	No record found
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	Not proposed	NIL
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Not proposed	NIL
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area	Not proposed	NIL
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Not proposed	Not done

6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	Not proposed	Not done	
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	Not specified	some plants observed in the waste land	
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	Not proposed	NIL	
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Plantation	Plantation	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Yes	Yes	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			The yearly report of PMCP has not been submitted for the previous approved plan period. Violation pointed out for the same. Plantation observed in the 7.5 m barrier zone. Garland drain observed around the dump in road side area.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
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7a	ROM Mineral dispatch or grade-wise sorting within lease area	Grade wise sorting within lease area	Grade wise sorting within lease area	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual	Manual	Grade wise sorting of the Mn ore was observed within lease area at stack yard.
7c	Different grade of mineral sorted out at mines.	Below 25% Mn 25% to below 35% Mn 35% to below 46% Mn	Below 25% Mn 25% to below 35% Mn 35% to below 46% Mn	
7d	Any beneficiation process at mines .	Not proposed	Not done	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			Grade wise sorting of the Mn ore was observed within lease area at stack yard. Manual sorting of the ore was adopted as per records.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Not proposed	NIL	No topsoil in the proposed working area.
8b	Concurrent use or storage of topsoil	NA	NA	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Yes	Separate dumps was observed during inspection.	

8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Not proposed in the RY	NIL	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Not proposed in the Ry	Not done	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Not specified	approx 60 plants observed in the lease area.	
8g	Survival rate	70%	approx. 70 %	
8h	Water sprinkling on roads to control airborne dust	Yes	Yes	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			approx 60 plants observed in the lease area. No proposal in the RY for reclamation of the area degraded by mining activities as area is not matured for backfilling. Exploration is not completed under G1 level.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
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9a	Status of submission of Monthly and Annual returns	Yes	Annual Return submitted on 30-06-2021.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Yes	Mining Engineer in charge - Mr. Nagendra Pathak Geologist in charge - Mr. Vinod Kushwaha
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Yes	(i) Already exploited & abandoned by opencast (O/C) mining 3.000 (ii) Covered under current (O/C) Workings 1.000 (iii) Reclaimed/Rehabilitated 0.240 (iv) Used for waste disposal 1.000 (v) Occupied by plant, buildings, residential, welfare buildings & roads 0.500 (vi) Other Purpose (0) 0.000 (vii) Work done under progressive mine closure plan during the year 0.000
9d	Scrutiny of Annual return on afforestation	Yes	10 saplings observed during the inspection.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Yes	NIL
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Yes	(a) Below 25% Mn 45.110 (b) 25% to below 35% Mn 187.680 (c) 35% to below 46% Mn 50.630 (d) 46% Mn and above 23.140

9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Yes	Ex mine price 1935.45 for Mn ore Cost of Production - 1683.00
9h	Scrutiny of Annual return on fixed assets	Yes	NIL
9k	Scrutiny of Annual return on mining machineries	Yes	NIL

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)	24-JUN-21	05-OCT-21				
MCDR17	Rule 26 (2)	24-JUN-21	05-OCT-21				
MCDR17	Rule 28 (1)	24-JUN-21	05-OCT-21				
MCDR17	Rule 33	24-JUN-21	05-OCT-21				
MCDR17	Rule 45 (5) (e)	24-JUN-21					
MCDR17	Rule 45 (5) (k)	24-JUN-21					
MCDR17	Rule 45 (5) (c)	24-JUN-21					
MCDR17	Rule 55 (1) (1)	24-JUN-21					
MCDR17	Rule 55 (1) (2)	24-JUN-21					
MCDR17	Rule 55 (1) (3)	24-JUN-21					

Date :

(NARESH KUMAR KATARIYA)

Indian Bureau of Mines