

Mining Plan Modification REPORT

Nagpur regional office

Mine file No : MP/BGT/MN-66/NGP

Mine code : 40MPR01064

- (i) Name of the Inspecting : **C005**) **ROBERT SIMON C**
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : Shri Devendra Trivedi, Lessee Representative, Shri Ra
Official with
Designation
- (iv) Date of Inspection : 07-NOV-22
- (v) Prev.inspection date :

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **KATANGJHARI II (5.26 HA.**
- (b) **Registration NO.** : **IBM4371/2011**
- (c) Category : 'A'
- (d) Type of Working : Opencast
- (e) Postal address
State : MADHYA PRADESH
District : BALAGHAT
Village : KATANGHARI
Taluka : BALAGHAT
Post office : KATANGHARI
Pin Code : 481332
FAX No. : 07632-240516
E-mail : pradyuman@hotmail.com
Phone : 8435002150
- (f) Police Station : WARASEONI
- (g) First opening date : 01-MAR-10
- (h) Weekly day of rest : SAT
2. Address for :
correspondance
3. (a) Lease Number : MPR2556
(b) Lease area : 5.26
(c) Period of lease : 50
(d) Date of Expiry : 25-MAR-57
4. Mineral worked : MANGANESE ORE Main

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5. Name and Address of the

Lessee : M/S J. K. MINERALS
POST BOX NO. 1 MAIN
ROAD, BALAGHAT DISTT.
BALAGHAT (MP) BALAGHAT
MADHYA PRADESH
Phone:
FAX :

Owner : M/s J.K.Minerals
Main Road ,Balaghat Distt.
Balaghat (MP) BALAGHAT
MADHYA PRADESH
Phone:
FAX :

6. Date of approval of Mining : Fresh under rule 22 MCR1960 11-JAN-07
Plan/Scheme of Mining : Mining Scheme rule 12 MCDR1988 05-NOV-15

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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	No proposals	G2-1.44 ha as per the approved document	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not proposed	NA	
1d	Balance area to be explored to bring Geological axis in 1 or 2		5.26 ha yet to be explored under G1	
1e	Balance reserve as on 01/04/20	Not proposed	81414 Tonnes as per latest submitted plan	
1f	General remarks of inspecting officers on geology, exploration etc		5.26 HA Area to be explored in G1 and the lessee has proposed in the same in the latest draft document.	

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	In South East part of the lease area	Extension of pit/benches was extended beyond the 7.5-meter statutory barrier zone, near to the BP-07, BP-12, BP-13, BP-14, BP-15, BP-20 & BP-21 which was not proposed in the approved document.	Violation pointed out under Rule 11(1) of MCDR 2017.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches in topsoil overburden and mineral proposed	Not maintained. As per abovementioned approved document, separate benches of 2m to 1 m height shall be maintained in the mine during the proposal period. But, during inspection it was found that the benches have been merged in many places encircling the pit-1 resulting in highwall.	Violation pointed out under Rule 11(1) of MCDR 2017

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2c	Stripping ratio or ore to OB ratio	1:3.98	1:8.101	
2d	Quantity of topsoil generation in m3	Not proposed	2025	
2e	Quantity of overburden generation in m3	3822	8101	The mining development in the mine were not being not carried out in accordance with the approved document Mining Plan document and Violation pointed out for the same.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	01	01	
3b	Quantity of ROM mineral production proposed	956 tonnes	1000 tonnes	Violation pointed out under Rule 11(1) of MCDR 2017
3c	Recovery of sailable/usable mineral from ROM production	95% in ore zone	95% in ore zone	
3d	Quantity of mineral reject generation	Not proposed	Nil	
3e	Grade of mineral rejects generation and threshold value declared.	Not applicable	Not applicable	
3f	Quantity of sub grade mineral generation.	Not proposed	Nil	
3g	Grade of sub grade mineral generation	NA	NA	
3h	Manual / Mechanised method adopted for segregating from ROM	Manual	Mechanised	Violation pointed out under Rule 11(1) of MCDR 2017

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3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Not proposed	Nil	
3j	Provision of drilling and blasting in mineral benches	Proposed	ROCK DRILL (NONELEC.) 32 mm 2 nos	
3k	Provision of mining machineries in mineral benches	Not proposed	In Chapter 2.0 page 25 in the approved plan, it was proposed to carryout opencast method of mining with manual means using spade, chisel and pan on single shift basis thereby creating benches of not more than 2m height but the existing bench condition indicates mechanized means is being adopted for the same which goes against the proposal.	Violation pointed out under Rule 11(1) of MCDR 2017
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Benches of 2m to 1 m height was proposed.	During inspection it was found that the benches have been merged in many places encircling the pit-1 resulting in highwall.	Violation pointed out under Rule 11(1) of MCDR 2017
3m	Total area covered under excavation/pits	2.493 ha	2.493 ha	
3n	Ore to OB ratio for the pit/mine during the year.	1:3.98	1:8.101	
3o	Total area put in use under different heads at the end of year	4.66 HA	4.49 HA	
3p	Production of ROM mineral during the last five year period as applicable	2017-18 1041.6 T 2018-19 991.0 T 2019-20 991 T 2020-21 991 T 2021-22 956 T	2017-18 1001.23 T 2018-19 145.833 T 2019-20 931 T 2020-21 979 T 2021-22 1000 T	

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3q General remarks of inspecting officers on method of mining etc.

The mining operations in the mine were not being not carried out in accordance with the approved document Mining Plan document.

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 done	
4b	Location of topsoil, OB and mineral reject dumps	E/W 100/200 and N/S 200/400 in local grid at South west of the lease area.	E/W 100/200 and N/S 200/400 in local grid at South west of the lease area.	
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)	out of UPL	out of UPL	
4e	Number of active and alive dumps.	02	02	
4f	Number of dead dumps.	Not proposed	01	
4g	Number of dumps established.	Not proposed	NA	
4h	Whether Retaining wall or garland drain all along dumps are there.	Yes	Garland drain maintained.	
4i	Length of Retaining wall or garland drain all along dumps	Not proposed	100m (approx.)	
4j	Number of settling ponds	Not proposed	01	

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4k	Specific comments of inspecting officer on waste dump management	The dumps were proposed to be used for reclamation & rehabilitation of mined out pit.
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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.	Backfilling proposed after full extraction of mineral	Extension of pit/benches was extended beyond the 7.5-meter statutory barrier zone, near to the BP-07, BP-12, BP-13, BP-14, BP-15, BP-20 & BP-21 which was not proposed in the approved document. Hence, backfilling was not done in 7.5m barrier zone.	Violation pointed out under Rule 11(1) of MCDR 2017
5b	Area under backfilling of mined out area	Not proposed	0.154 ha	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Topsoil to be used for plantation	Topsoil used for plantation	
5d	Total area fully reclaimed and rehabilitated	Not proposed	0.154 ha	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			Backfilling was not done in 7.5m barrier zone.

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	

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6b	Area available for rehabilitation (ha) .	Not proposed	Nil
6c	afforestation done (ha).	0.05 HA	0.04 HA
6d	No. of saplings planted during the year	50	150
6e	Cumulative no .of plants	300	500 approx.
6f	Any other method of rehabilitation	Not proposed	NA
6g	Cost incurred on watch and care during the year	Not proposed	NA
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	Not proposed	NA
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Not proposed	NA
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area	Not proposed	NA
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Not proposed	NA
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	Not proposed	NA

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6m	Compliance of rehabilitation of waste land within lease (i)afforestation	Not proposed	Nil
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	Not proposed	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)	Proposed	carried out
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	ROM mineral dispatch	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual	Mechanical	

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7c	Different grade of mineral sorted out at mines.	Yes	Grade-wise production, Despatches, Stocks and Ex-mine prices of Processed ore(MANGANESE ORE) Grades (% of Mn content) 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) Below 25% Mn 26.530 40.500 64.695 2.335 4630.00 (b) 25% to below 35% Mn 23.905 594.500 552.620 65.785 7396.00 (c) 35% to below 46% Mn 146.190 319.500 432.270 33.420 12251.00 (d) 46% Mn and above 1.645 0.000 0.0	
7d	Any beneficiation process at mines	Not proposed	No beneficiation process at mines adopted.	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			No beneficiation process at mines adopted.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Not proposed	Utilised for plantation	

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8b	Concurrent use or storage of topsoil	Not proposed	Utilised for plantation	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate Stacking of OB	Separate Stacking of OB	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Yes	Not started	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Not proposed	NA	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Plantation is to be done at waste land	Plantation is being done.	
8g	Survival rate	80%	60%	
8h	Water sprinkling on roads to control airborne dust	Water sprinkling on roads to control airborne dust proposed	Water sprinkling on roads to control airborne dust adopted.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Aesthetic beauty in and around mine area is moderate and needs improvement.

Compliance of Rule 45:

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

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9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Given	Manager SHRI DILESH KUMAR TURKAR Mining Engineer in charge M. S. ANURAGI Geologist in charge Ku. BHAKTI TRIVEDI
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Given	<p>(i) Already exploited & abandoned by opencast (O/C) mining 0.000 0.000 0.000</p> <p>(ii) Covered under current (O/C) Workings 0.000 2.493 2.493</p> <p>(iii) Reclaimed/Rehabilitated 0.000 0.154 0.154</p> <p>(iv) Used for waste disposal 0.000 0.998 0.998</p> <p>(v) Occupied by plant, buildings, residential, welfare buildings & roads 0.000 0.194 0.194</p> <p>(vi) Other Purpose (Plantation) 0.000 0.041 0.041</p>
9d	Scrutiny of Annual return on afforestation	Given	Total 66 trees planted
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	Grade-wise production, Despatches, Stocks and Ex-mine prices of Processed ore(MANGANESE ORE) Grades (% of Mn content) 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) Below 25% Mn 26.530 40.500 64.695 2.335 4630.00 (b) 25% to below 35% Mn 23.905 594.500 552.620 65.785 7396.00 (c) 35% to below 46% Mn 146.190 319.500 432.270 33.420 12251.00 (d) 46% Mn and above 1.645 0.000 0.0
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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(MANGANESE ORE) Grades (% of Mn content) 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) Below 25% Mn 26.530 40.500 64.695 2.335 4630.00 (b) 25% to below 35% Mn 23.905 594.500 552.620 65.785 7396.00 (c) 35% to below 46% Mn 146.190 319.500 432.270 33.420 12251.00 (d) 46% Mn and above 1.645 0.000 0.0	
9h	Scrutiny of Annual return on fixed assets	NIL	Nil	Violation pointed out under rule 45(7)
9k	Scrutiny of Annual return on mining machineries	Given	In Part-V, Section 5, in the details 04 nos of tippers are mentioned but the excavator deployed is not furnished.	Violation pointed out under rule 45(7)

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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

Date :

(ROBERT SIMON C)

Indian Bureau of Mines