MCDR-MiFLOMn/15/2023-JBP-IBM_RO_JBP INDIAN BUREAU OF MINES

MINERALS DEVELOPMENT AND REGULATION DIVISION

Review and updation of Mining Plan REPORT

Nagpur regional office

Mine file No : MP/BGT/MN-138/NGP Mine code : 40MPR01032

(i) Name of the Inspecting : CQOS) ROBERT SIMON C

Officer and ID No.

1/12685/2023

(ii) Designation : Assistant Controller Mine

(iii) Accompaning mine

Official with Ram Tade (Mine Manager), Himanshu Churhe (Geologist)

Designation

(iv) Date of Inspection : 09-NOV-22

(v) Prev.inspection date :

PART-I : GENERAL INFORMATION

1. (a) Mine Name : PANDHARWANI (14.900H)

(b) Registration NO: :

(c) Category : A

(d) Type of Working : Underground

(e) Postal address

State : MADHYA PRADESH

District : BALAGHAT

Village : PANDHARWANI

Taluka : KATANGI

Post office : MIRAGPUR

Pin Code :
FAX No. :
E-mail :
Phone :

(f) Police Station

(g) First opening date : 07-APR-87

(h) Weekly day of rest : SAT

2. Address for :

correspondance

(a) Lease Number : MPR1799(b) Lease area : 14.90(c) Period of lease : 50

(d) Date of Expiry : 20-JUN-29

4. Mineral worked : MANGANESE ORE Main

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31-MAR-00

16-MAR-06

27-OCT-11

07-MAY-14

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5. Name and Address of the

Lessee : M/s D.P.Rai

10,East High Court Road Ramdaspeth, Nagpur Nagpur (MS) NAGPUR MAHARASHTRA

Phone: FAX :

Owner : M/s D.P.Rai & Co.

10, East High Court Road, New Ramdaspeth, Nagpur Distt. Nagpur (MS) NAGPUR

MAHARASHTRA

Phone: FAX :

6. Date of approval of Mining: Plan/Scheme of Mining Modif.of approved Mining Plan
Mining Scheme rule 12 MCDR1988
Mining Scheme rule 12 MCDR1988
Mining Scheme rule 12 MCDR1988

Mining PLAN rule 23 MCDR 2017

26-APR-18

Mining PLAN rule 23 MCDR 2017

02-MAR-20

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	G1-13.34 ha already explored.	
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	Not specified	G-3-1.5587 ha.	
1e	Balance reserve as on 01/04/20	Not specified	122- 403819 Т	
1f	General remarks of inspecting officers on geology, exploration etc			The ore body is plunging from NE to SE-SW direction. Strike length of each Lenses of deposits vary 100-150m on an average. The general trend of this formation in the area ENE-WSW and at places NNE-SSW and the same is also the trend of manganese ore body. Manganese ore horizon mainly comprising of mostly manganese ore and manganiferrous quartzite of Mansar formation.

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	No opencast proposals. Only UG	Nil	

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I/12685	2b 5 /2023	Separate benches in topsoil, overburden and minerals (Rule 15)	NA	NA	
	2c	Stripping ratio or ore to OB ratio	NA	NA	UG OPERATIONS
	2d	Quantity of topsoil generation in m3	NA	NA	UG OPERATIONS
	2e	Quantity of overburden generation in m3	NA	NA	UG OPERATIONS
	2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			It is UG mine serviced by shafts. Stopes are being developed for mining. Decline is main access in the ore body developed in ore body.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit	No pit	Production through	
Ja	proposed for production	proposed	Due stoping done.	
3b	Quantity of ROM mineral production proposed	58935 T		As per Page 41 of approved plan dt.02.03.20 it was mentioned that the proposed production was subject to stoping approval by DGMS/IBM and it was observed that the lessee have been lagging behind the timely stoping approvals.
3с	Recovery of sailable/usable mineral from ROM production	Yes	90%	
3d	Quantity of mineral reject generation	1447 Т	450 T	Overall production is less.
3e	Grade of mineral rejects generation and threshold value declared.	below 10% mn,below threshhold	8.68 % below threshho	ld
3f	Quantity of sub grade mineral generation.	1447 Т	Nil	Overall production is less.
3g	Grade of sub grade mineral generation	Not specified	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.	no	no
3j	Provision of drilling and blasting in mineral benches	Not proposed	UG method
3k	Provision of mining machineries in mineral benches	NA	UG method
31	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	NA	NA.
3m	Total area covered under excavation/pits	Not proposed	4.970 ha
3n	Ore to OB ratio for the pit/mine during the year.	NA	NA
30	Total area put in use under different heads at the end of year	Not specified	6.07 ha
3p	Production of ROM mineral during the last five year period as applicable	18:6757,18- 19:15655,19-	16-17:3128.851,17- 18:2156,18-19:9992,19- 20:12410,20-21:8169. 21- 22: 18423.

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

Horizontal Flat Back Cut & Fill is the existing Method of Mining. Given drive size=3x2.4.It is widened to full width of the ore body from FW to HW. 2. Height of the Back(roof) of drive is increased to 3m by stripping over full width of the ore body. Rock bolts are fixed at a grid interval of 2x2m with 4 bolts at each corner.At the Centre of each grid, a Cable bolt of 12m lengthx29mm dia. is driven in the roof. Hand held Jack hammers drill 2m long hole with spacing of 1m and a \max . burden of .8 m

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 mineral reject	Separate dumping of mineral reject done	
4b	Location of topsoil, OB and mineral reject dumps		In northwest portion of the lease area in surface	
4c	Number of dumps within lease area and outside of lease area	01	01	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	N1000- 1100,E900-980	N1000-1100,E900-980	
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.	Nil	Nil	
4i	Length of Retaining wall or garland drain all along dumps	NA	NA	
4 j	Number of settling ponds	Nil	Nil	
4k	Specific comments of inspecting officer on waste dump management			UG method with stoping being done. Reject generated are kept in surface.

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.	NA	NA	UG method is carried out.
5b	Area under backfilling of mined out area	NA	NA	UG method is carried out.
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	NA	NA	UG method is carried out.
5d	Total area fully reclaimed and rehabilitated	NA	NA	UG method is carried out.
5e	General remarks of inspecting officers on backfilling and reclamation etc.			UG method is carried out & no proposals on backfilling, reclamation .

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) .	NA	NA
6c	afforestation done (ha).	NA	NA
6d	No. of saplings planted during the year	NA	NA
6e	Cumulative no .of plants	NA	NA
6f	Any other method of rehabilitation	NA	NA
6g	Cost incurred on watch and care during the year	NA	NA
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	NA	NA
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	NA	NA
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestati on on backfilled area	NA	NA
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	NA	NA

61	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	NA	NA	
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	AN	NA	
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	NA	NA	
60	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	NA	NA	
бр	Compliance of environmental monitoring (core zone and buffer zone)	Yes	Carried out.	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			UG method is being carried out. PMCP proposals revised in the latest approved document.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area		ROM mineral dispatch after grade wise sorting within lease area adopted	
7b	Method of grade- wise mineral sorting i.e. manual or mechanical.	MANUAL	MANUAL	

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7c	Different grade of mineral sorted out at mines.	Not specified.	Despatches, Stocks and Ex-mine prices of Processed ore (MANGANESE ORE) Grades (% of Mn content) Openingstock at mine head(in tonne) Production (intonne) Dispatchesfrom minehead(in tonne) Closingstock atmine head(in tonne) Ex-mineprice(in? PerTonne) (a) Below 25% Mn 47.660 10285.000 9750.420 582.240 5031.00 (b) 25% to below 35% Mn 121.490 6601.000 6666.790 55.700 11137.00 (c) 35% to below 46% Mn 262.515 71.000 60.240 273.275 12082.00
7d	Any beneficiation process at mines .	Not proposed	Nil
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)	Nil	Nil	
8b	Concurrent use or storage of topsoil	Not proposed	NA	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Reject dump proposed.	Reject dump maintained.	

8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Reject dump proposed.	Reject dump maintained.	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Not specified	The void so created after blasting and removal of ore is backfilled with sand by hydraulic sand stowing method.	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Not specified	NA	
8g	Survival rate	Not specified	NA	
8h	Water sprinkling on roads to control airborne dust	Not specified	Water sprinkling on roads in surface carried out.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Aesthetic beauty in and around mine area is needs improvement.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	MR and AR submitted online.	MR and AR submitted online.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Given	Manager Ram Narayan Tade Mining Engineer in charge Ram Tade Geologist in charge Himanshu Churhe	

9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Given	Lease area (surface area) utilisation as at the end of year (hectares) Underforest Outsideforest Total (i) Already exploited & abandoned byopencast (O/C) mining 0.000 0.000 0.000 (ii) Covered under current (O/C) Workings 0.000 4.970 4.970 (iii) Reclaimed/Rehabilitated 0.000 0.000 0.000 (iv) Used for waste disposal 0.000 0.239 0.239 (v) Occupied by plant, buildings, residential, welfare buildings & roads 0.000 0.200 0.200 (vi) Other Purpose 0.000 1.810 1.810
9d	Scrutiny of Annual return on afforestation	Given	(a) Within lease area(b) Outside leasearea(i) Number of treesplanted during the year150 565(ii) Survival rate inpercentage 0.00 60
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Given	Mineral Rejects generated with grades (tonnes) a. Quantity 450 b. Grade 8.68
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Yes	Closing stock atmine head(in tonne) (a) Below 25% Mn 582.240 (b) 25% to below 35% Mn 55.700 (c) 35% to below 46% Mn 273.275

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9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Yes	Grade-wise production, Despatches, Stocks and Ex-mine prices of Processed ore (MANGANESE ORE) Grades (% of Mn content) Openingstock at mine head (in tonne) Production (intonne) Dispatchesfrom minehead (in tonne) Closingstock atmine head (in tonne) Ex-mineprice (in ? PerTonne) (a) Below 25% Mn 47.660 10285.000 9750.420 582.240 5031.00 (b) 25% to below 35% Mn 121.490 6601.000 6666.790 55.700 11137.00 (c) 35% to below 46% Mn 262.515 71.000 60.240 273.275 12082.00
9h	Scrutiny of Annual return on fixed assets	Given	Value of Fixed Assets (in Rs.) 8034968.
9k	Scrutiny of Annual return on mining machineries	Given	Type ofmachinery Capacity ofeach unit No.ofunits Electrical/Non- Electrical(specify) Used in opencast/underground(spe cify) OTHERS (NON-ELEC.) 0.000 2 Non Electrical Opencast OTHER HEM MACHINERY 0.000 1 Non Electrical Opencast HAULAGE (ELEC.) 0.000 HP 6 Electrical Underground OTHER HEM MACHINERY 0.000 1 Non Electrical Underground OTHER HEM

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Details of violations observed during current inspection and compliance position of violation pointed out				
Viola	tion observed	Show couse position		
Rule NO.	Issued on Compliance on	Rule NO.	Issued on Compliance on	

Date : (ROBERT SIMON C)

Indian Bureau of Mines