

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

Mining Plan Modification REPORT

Nagpur regional office

Mine file No : MP/BGT/MN-138/NGP

Mine code : 40MPR01032

- (i) Name of the Inspecting : **SQ32**) **SANDEEP KUMAR SINGH**
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine :
Official with
Designation
- (iv) Date of Inspection : 12-DEC-19
- (v) Prev.inspection date :

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **PANDHARWANI (14.900H)**
- (b) **Registration NO.** :
- (c) Category : B Manual
- (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 :
3. (a) Lease Number : MPR1799
- (b) Lease area : 14.91
- (c) Period of lease : 30
- (d) Date of Expiry : 20-JUN-29
4. Mineral worked : MANGANESE ORE Main

5. Name and Address of the

Lessee : M/s D.P.Rai
 10, East High Court Road
 Ramdaspath, Nagpur Nagpur
 (MS) NAGPUR MAHARASHTRA
 Phone:
 FAX :

Owner : M/s D.P.Rai & Co.
 10, East High Court Road,
 New Ramdaspath, Nagpur
 Distt. Nagpur (MS) NAGPUR
 MAHARASHTRA
 Phone:
 FAX :

6. Date of approval of Mining	:	Modif.of approved Mining Plan	31-MAR-00
Plan/Scheme of Mining		Mining Scheme rule 12 MCDR1988	16-MAR-06
		Mining Scheme rule 12 MCDR1988	27-OCT-11
		Mining Scheme rule 12 MCDR1988	07-MAY-14

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	---	---	
1b	Exploration over lease area for geological axis 1 or 2	06 bH PROPOSED.	ONE CORE AND ONE DTH DRILLED IN 19-20	REVISED PLAN GIVEN.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	13.47,000	2 LAKH	MODIFIED PLAN SUBMITTED.
1d	Balance area to be explored to bring Geological axis in 1 or 2	---	1.5587 HECT	BALANCE TO BE EXPLORED.
1e	Balance reserve as on 01/04/20	RESERVES AS ON 01.04.2019	121-403272,211-229950,333-110250	
1f	General remarks of inspecting officers on geology, exploration etc			THERE IS ORE BODY WHICH WAS WORKED WITH OPENCAST.NOW IT IS WORKED BY UNDERGROUND WITH DICLINE.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	IN UG	IN UG	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	NA	NA	
2c	Stripping ratio or ore to OB ratio	---	---	
2d	Quantity of topsoil generation in m3	NA	NA	UG OPERATIONS

2e	Quantity of overburden generation in m3	NA	NA	UG MINE
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 proposed for production	UG WORKING ONE PIT	UG WORKING IN ONE PIT AFTER OPENCAST	
3b	Quantity of ROM mineral production proposed	15655 t	9992	
3c	Recovery of sailable/usable mineral from ROM production	yes	done	
3d	Quantity of mineral reject generation	528m3	---	
3e	Grade of mineral rejects generation and threshold value declared.	below 10% mn,below threshold	below threshold	
3f	Quantity of sub grade mineral generation.	18500	--	
3g	Grade of sub grade mineral generation	10-20 % mn	10-20% mn	
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	in ug	in ug	
3k	Provision of mining machineries in mineral benches	na	na	
3l	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	4.97 hect	4.97 hect	this is old oc working
3n	Ore to OB ratio for the pit/mine during the year.	1:.172	1:.18	
3o	Total area put in use under different heads at the end of year	total: 7.095,pit- 4.97,dump- .2850,mine store- .2950,road-1.3 h3ct	total: 7.095,pit- 4.97,dump-.2850,mine store-.2950,road-1.3 h3ct	present is ug mine with in old opencast working.there is only extraction from old dump in oc working.
3p	Production of ROM mineral during the last five year period as applicable	16-17:5060,17- 18:6757,18- 19:15655	16-17:3128.851,17- 18:2156,18-19:9992	

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

ug mine is developed by decline as access. vertical shafts are made for ventilation.more shafts are planned.stoping is planned and is being developed.haulage is installed in decline.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	only mineral rejects.	yes	
4b	Location of topsoil, OB and mineral reject dumps	na	na	backfiled in oc working/ug working
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)	BP6 and 7,N1000-1100,E900-980	BP6 and 7,N1000-1100,E900-980	old dump,now u/g mine
4e	Number of active and alive dumps.	01	01	
4f	Number of dead dumps.	0	0	
4g	Number of dumps established.	01	01	
4h	Whether Retaining wall or garland drain all along dumps are there.	np	na	

4i	Length of Retaining wall or garland drain all along dumps	NP	NA	
4j	Number of settling ponds	--	--	VERY SMALL QUANTITY OF WASTE IS GENERATED IN ug WORKING AS MOST WORK IS IN ORE.DUMP RECECOVERY WASTE IS STACKED BACK WHERE IT IS EXCAVATED. SOME PROVISISON HAS BEEN MADE ALONG EXISTING DUMP TO DISPOSE WASTE. WASTE IN UG IS TO BE BACKFILLED IN UG WORKINGS.

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	
5b	Area under backfilling of mined out area	NA	NA	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	NO TOP SOIL EXCAVATED	NA	
5d	Total area fully reclaimed and rehabilitated	NIL	NA	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			SOME TOP BENCHES ARE PLANNED TO BE BACKFILLED WITH WASTE AND PLANTATION DONE.

 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).		NOT SUBMITTED.VIOLATION ISUED.	
6b	Area available for rehabilitation (ha) .	NA	NA	
6c	afforestation done (ha).	NA	NA	
6d	No. of saplings planted during the year	--	50	
6e	Cumulative no .of plants		NA	
6f	Any other method of rehabilitation	NO	NO	
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			AVAILABLE VOID- AROUND 4 HECT,BUT UG MINE IS IN PROGRESS
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	NP	NA	

6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	NP	NA	
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	YES	WATER RESERVOIR IS MADE IN MINES	
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	NP	NA	
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	NP	NA	
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	NP	NA	
6p	Compliance of environmental monitoring (core zone and buffer zone)	YES	DONE	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			PLANTATATION IS SEEN ON OLD DUMPS AND OLD BENCHES.WATER RESERVOIR IS MADE IN WORKED OUT PIT.

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	GRADEWISE SORTING	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	MANUAL	MANUAL	
7c	Different grade of mineral sorted out at mines.	AS PER VARYING GRADE OF mN CONTENT.	MN 25%, 25-35%, 35-45%, GREATER THAN 45%	
7d	Any beneficiation process at mines .	NP	NA	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			MANGNESE SORTED IN VARIOUS GRADES FOR MARKETIBILITY.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	NP	NA	UG MINE
8b	Concurrent use or storage of topsoil	NP	NA	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	SEPERATE DUMP FOR WASTE AND REJECT	YES	ONLY REJECTS ARE DISCARDED AND BACKFILLED.

8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	NO	NO	PLANNED IN FUTURE
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)			PLANNED IN FUTURE
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	NO	50	
8g	Survival rate		20%	
8h	Water sprinkling on roads to control airborne dust	YES	DONE	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			PLANTATATION SEEN IN OLD DUMPS AND WORKED OUT BENCHES.WATER RESERVOIR MADE.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns		YES SUBMITTED.	

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	APPOINTMENT NOT SUBMITTED.VIOLATION GIVEN
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	
9d	Scrutiny of Annual return on afforestation	100 PLANTS,20% SURVIVAL
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	0,0
9f	Scrutiny of Annual return on ROM stock and/or graded ore	1882.880 STOCK, LESS THAN 25% MN,867.320-25%-355MN,784.665 -MN 35%-46%, rom-3488.149.EXMIN E PRICE-3880,6045,1762 1
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	(a) Below 25% Mn- (b) 25% to below 35% Mn (c) 35% to below 46% Mn (d) 46% Mn and above EXMINE PRICE-3880,6045,1762 1 FOR VARIOUS GRADES IN ORDER.
9h	Scrutiny of Annual return on fixed assets	fa=51,06,726 AS CLOSING VALUE AT YEAR END.

9k	Scrutiny of Annual return on mining machineries	TRUCK, OTHERS NON ELECT- 1, ELECTRICAL- 1, OTHERS ELECTRICAL 1
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Details of violations observed during current inspection and compliance position of violation pointed out

Violation observed				Show couse position			
Rule NO.		Issued on	Compliance on	Rule NO.		Issued on	Compliance on
MCDR17	Rule 11(1)	13-JAN-20	09-MAR-20				
	Rule 28(1)	13-JAN-20	09-MAR-20				
	Rule 26(1)	13-JAN-20	09-MAR-20				
	Rule 46	13-JAN-20	09-MAR-20				

Date :

(SANDEEP KUMAR SINGH)

Indian Bureau of Mines