

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

Review and updation of Mining Plan REPORT

Jabalpur regional office

Mine file No : MP/JBP/IRON-13

Mine code : 30MPR18010

- (i) Name of the Inspecting : **KQ06**) **NARESH KUMAR KATARIYA**
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : S/Sh Vinod Choudhary (Agent), G. P. Chaturvedi (Mine
Official with
Designation
- (iv) Date of Inspection : 21-JAN-21
- (v) Prev.inspection date :

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **JHITTI 27.05 HA.**
- (b) **Registration NO.** :
- (c) Category : A Fully Mechanised
- (d) Type of Working : Opencast
- (e) Postal address :
State : MADHYA PRADESH
District : JABALPUR
Village : JHITTI
Taluka : SIHORA
Post office : TIKARIYA
Pin Code : 483334
FAX No. :
E-mail :
Phone :
- (f) Police Station : MAJHGAWAN
- (g) First opening date : 17-SEP-10
- (h) Weekly day of rest :
2. Address for : PACIFIC EXPORTS
correspondance : 11- DUNN MARKET, BARGAWAN
KATNI (M.P.) 483501
3. (a) Lease Number : MPR2298
- (b) Lease area : 27.05
- (c) Period of lease : 50
- (d) Date of Expiry : 17-AUG-60
4. Mineral worked : LATERITE Associated
IRON ORE Main

5. Name and Address of the

Lessee : PACIFIC EXPORTS
11- DUNN MARKET, BARGAWAN
KATNI (M.P.) KATNI MADHYA
PRADESH
Phone:07622-224123, 9425153971
FAX :

Owner : PACIFIC EXPORTS
11,12- DUNNE MARKET
,JABALPUR ROAD BARGAWAN
,KATNI KATNI MADHYA
PRADESH
Phone: 07622-224123, 9
FAX :

6. Date of approval of Mining : Mining Scheme rule 12 MCDR1988 07-MAY-15
Plan/Scheme of Mining

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	09 Boreholes	NIL	Exploration was not done against the proposal of 09 nos. of exploratory bore holes for 2019-20. Violation pointed out under rule 11(1) of MCDR-2017 for the same.
1b	Exploration over lease area for geological axis 1 or 2	Exploration was proposed over lease area for geological axis G-1.	Exploration not done as per proposal.	Violation pointed out under rule 11(1) of MCDR-2017 for the same.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Expenditure - approx 12 Lakhs	Nil	Exploration not done as per proposal. Violation pointed out for the same.
1d	Balance area to be explored to bring Geological axis in 1 or 2	The complete area was proposed to bring Geological axis G-1.	Balance area to be explored 1.268 Ha	
1e	Balance reserve as on 01/04/20		Balance Reserve as on 01.04.2020: 16.59 Million Tonnes	
1f	General remarks of inspecting officers on geology, exploration etc			Local geology of Jitti Mine is belongs to Mahakaushal Group of rocks of lower to middle Proterozoic age. The major litho unit is Laterite as capping resting over Iron Ore fines within Phiyllite formation. The trend of rocks is NW-SE to ENE-WSW dipping southerly.

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Pit-A in (Eastern Side and Western Side of excavated area)	Pit-A in (Eastern Side and Western Side of excavated area)	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Eastern Side: (B1 to B17) and Western Side (B1 to B7)	Eastern Side: (B1 to B7) and Western Side (B1)	Development of the pit was lagging due to very less production in the proposal period. Letter of temp. discountinuanace was submitted by lessee w.e.f. 01.01.2020. The mine was suspended under rule 11(2) of MCDR-2017 on 20.07.2020 for non submission of Review of Mining Plan.
2c	Stripping ratio or ore to OB ratio	Nil	OB removal not proposed in the approved document.	
2d	Quantity of topsoil generation in m3	Nil	Nil	
2e	Quantity of overburden generation in m3	Nil	Nil	

2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Development of the pit was lagging due to very less production in the proposal period. Letter of temp. discountinuanace was submitted by lessee w.e.f. 01.01.2020. The mine was suspended under rule 11(2) of MCDR-2017 on 20.07.2020 for non submission of Review of Mining Plan.
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Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One Pit	One Pit	
3b	Quantity of ROM mineral production proposed	2660359 Tonnes	48500 Tonnes	Mine production is very less than the proposal of approved document. The mine was suspended under rule 11(2) of MCDR-2017 on 20.07.2020 for non submission of Review of Mining Plan.
3c	Recovery of sailable/usable mineral from ROM production	Not proposed	NA	
3d	Quantity of mineral reject generation	Not proposed	NA	
3e	Grade of mineral rejects generation and threshold value declared.	Not proposed	NA	

3f	Quantity of sub grade mineral generation.	NIL	NIL	
3g	Grade of sub grade mineral generation	Not proposed	NIL	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised Method proposed for segregation of different grades of ROM.	Mechanised Method adopted for segregation of different grades of ROM.	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Not proposed	NA	
3j	Provision of drilling and blasting in mineral benches	Not proposed	Nil	
3k	Provision of mining machineries in mineral benches	Yes	Yes	The mine was not working during the inspection. The mine was suspended under rule 11(2) of MCDR-2017 on 20.07.2020 for non submission of Review of Mining Plan.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	Yes	
3m	Total area covered under excavation/pits	17.25 Hect.	10.40 Hect.	
3n	Ore to OB ratio for the pit/mine during the year.	Not proposed	NA	OB removal not proposed in the approved document.

3o	Total area put in use under different heads at the end of year	22.57 Hect	15.72 Hect
3p	Production of ROM mineral during the last five year period as applicable	2015-16 - 1650621 2016-17 - 2404721 2017-18 - 2459626 2018-19 - 2553462 2019-20 - 2660359	2015-16 - 554226 2016-17 - 30828 2017-18 - 12283 2018-19 - 72471 2019-20 - 48500

3q	General remarks of inspecting officers on method of mining etc.		The mine was not working during the inspection. The mine was suspended under rule 11(2) of MCDR-2017 for non submission of Review of Mining Plan.
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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	Yes	
4b	Location of topsoil, OB and mineral reject dumps	Not proposed	NA	
4c	Number of dumps within lease area and outside of lease area	Nil	Nil	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Not proposed	NA	
4e	Number of active and alive dumps.	Nil	Nil	

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.	Not proposed	NA	
4i	Length of Retaining wall or garland drain all along dumps	Nil	Nil	
4j	Number of settling ponds	One	One	
4k	Specific comments of inspecting officer on waste dump management			No waste dump was proposed in the approved document.

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.	Full extraction of mineral	The mineral has not fully extracted. 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)	Yes	Yes	
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 and reclamation.
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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	Not submitted	The yearly report in respect of rule 26(2) of MCDR 2017 has not been submitted for the year 2019-20. Violation pointed out for the same.
6b	Area available for rehabilitation (ha) .	Nil	Nil	
6c	afforestation done (ha).	Nil	Nil	
6d	No. of saplings planted during the year	NIL	NIL	
6e	Cumulative no .of plants	NIL	NIL	
6f	Any other method of rehabilitation	Not proposed	NA	
6g	Cost incurred on watch and care during the year	Rs 25000	Rs 45000	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	Nil	Nil	

6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Nil	Nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	Nil	Nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Nil	Nil
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	Not proposed	Nil
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	50 Nos of plants	1000 Nos of plants
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	0.045 Hect.	0.50 Hect.
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 in respect of rule 26(2) of MCDR 2017 has not been submitted for 2019-20. Violation pointed out for the same.

Mineral Conservation:

Sl.No.	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM mineral to be dispatched from the mine.	ROM mineral dispatched from the mine directly.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanical Method	Mechanical Method	
7c	Different grade of mineral sorted out at mines.	Lumps and Fines	Lumps and Fines	
7d	Any beneficiation process at mines .	Not proposed	NA	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			As per provided records, complete mineral above threshold limit is being used for mineral conservation. No subgrade mineral generated as per records.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Yes	Yes	
8b	Concurrent use or storage of topsoil	Storage of topsoil for use in plantation.	Storage of topsoil for use in plantation.	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Nil	Nil	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Yes	Yes	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Yes	Yes	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Yes	Cumulative no. of plants in the lease area are approximately 22096. Approx. 1000 nos. of saplings plantated during the RY 2019-20 as per provided records.	
8g	Survival rate	Approx. 80%	Approx. 80%	
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			Plantation was found in the waste land and barrier zone of the lease area.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Monthly and Annual Returns are to be submitted for the RY 2019-20.	Monthly and Annual Returns submitted for the RY 2019-20.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Yes	Mining Engineer - Sh G. P. Chaturvedi Geologist - Kamlesh Mohare	
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 0.000 (ii) Covered under current (O/C) Workings 10.401 (iii) Reclaimed/Rehabilitated 0.000 (iv) Used for waste disposal 0.000 (v) Occupied by plant, buildings, residential, welfare buildings & roads 0.450 (vi) Other Purpose (mineral stock, green belt, garland drains etc) 6.049 (vii) Work done under progressive mine closure plan during the year 0.000	
9d	Scrutiny of Annual return on afforestation	Yes	1000 nos of saplings planted in the RY 2019-20 (300 inside lease area & 700 outside the lease area)	
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	Total ROM produciton in 2019-20 : 48500 Tonnes	

9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Yes	Ex-mine price - Rs 400/tonne Production Cost - Rs 867/tonne	
9h	Scrutiny of Annual return on fixed assets	Yes	5.90 Crores	
9k	Scrutiny of Annual return on mining machineries	Yes	BACK HOE 1.500 CUM 2 Non Electrical BACK HOE 0.900 CUM 7 Non Electrical TIPPER 6.000 CUM 18 Non Electrical WHEEL LOADER 1.750 CUM 7 Non Electrical CRUSHER 100.000 T/H 1 Electrical GENERATOR (DIESEL) 365.000 KWH 1 Non Electrical GENERATOR (DIESEL) 62.500 KWH 1 Non Electrical PUMPS (ELEC.) 1000.000 L/MN 3 Electrical WATER TANKER 8000.000 LITRE 1 Non Electrical WATER TANKER 4500.000 LITRE 2 Non Electrical	The mine was not working during inspection and the machineries were found in Workshop.

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)	27-MAY-21			
MCDR17	Rule 26(2)	27-MAY-21			
MCDR17	Rule 33	27-MAY-21			

Date :

(NARESH KUMAR KATARIYA)

Indian Bureau of Mines