

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

**MCDR inspection REPORT
Jabalpur regional office**

Mine file No : MP/STN/LST-289

Mine code : 38MPR35275

- (i) Name of the Inspecting : **SQ05**) **DEEPAK SHARMA**
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine :
Official with
Designation
- (iv) Date of Inspection : 12-FEB-20
- (v) Prev.inspection date : 22-FEB-18

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **PIPRAHAT (8.093 HA)**
- (b) **Registration NO.** :
- (c) Category : B Manual
- (d) Type of Working : Opencast
- (e) Postal address :
State : MADHYA PRADESH
District : SATNA
Village : PIPRAHAT
Taluka : MAIHAR
Post office : BHADANPURA
Pin Code :
FAX No. : N. A.
E-mail : N. A.
Phone : N. A.
- (f) Police Station :
- (g) First opening date : 01-JUN-04
- (h) Weekly day of rest :
2. Address for : PRESENJEET SINGH
correspondance : 501, HAWAI PACIPICK ENCLAVE,
NEAR MAN GATE IIT, PAWAI, MUMBAI 400079 (MSH)
3. (a) Lease Number : MPR2356
- (b) Lease area : 8.07
- (c) Period of lease : 20
- (d) Date of Expiry : 30-MAR-23
4. Mineral worked : LIMESTONE Main

5. Name and Address of the

Lessee : PRESENJEET SINGH
 501, HAWAI PACIPICK
 ENCLAVE, NEAR MAN GATE
 IIT, PAWAI, MUMBAI 400079
 MUMBAI (SUBURBAN)
 MAHARASHTRA
 Phone:NA
 FAX :NA

Owner : PRESENJEET SINGH
 501, HAWAI PACIPICK
 ENCLAVE, NEAR MAN GATE
 IIT, PAWAI, MUMBAI 400079
 MUMBAI (SUBURBAN)
 MAHARASHTRA
 Phone:
 FAX :

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	22-NOV-02
Plan/Scheme of Mining		Mining Scheme rule 12 MCDR1988	20-OCT-11
		Mining Scheme rule 12 MCDR1988	27-JAN-16
		MP review under 17(1) MCR 2016	10-MAY-19

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	it was proposed to drill 04 core bore hole in the year 2019-20	till the date of inspection drilling of 4 boreholes were not done	violation under rule 11(1) was issued for the same
1b	Exploration over lease area for geological axis 1 or 2	area explored upto the G2 level	ML area is explored upto G2 level	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not Proposed	Nil	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Entier lease area needs to explore upto G1 level i.e. 8.068 hect	8.068 hect area required to be explored upto G1 level	
1e	Balance reserve as on 01/04/20	as on 01.04.2019 122-2210100 222-1261125	as on 01.04.2020 122-2142800 222-1261125	units are in tonnes
1f	General remarks of inspecting officers on geology, exploration etc			ML area belongs to vindhyan super group of rocks of rohtas formation

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	workign was proposed in the central part of the lease area in the eastern direction	workign was as per proposal and advancement was in eastern direction	

2b	Separate benches proposed in topsoil, overburden and minerals (Rule 15)		Separate removal of soil and mineral is being done
2c	Stripping ratio or ore to OB ratio	1:0.12	1:0.10
2d	Quantity of topsoil generation in m3	6306 cu m	6000 cu m
2e	Quantity of overburden generation in m3	19623 tonnes	18319 tonnes
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc		workign was as per proposed location, backlog of exploreation pointed out and violation issued for the same

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Single Pit No 1	Single Pit No 1	
3b	Quantity of ROM mineral production proposed	154312 tonnes	67300 tonnes	
3c	Recovery of sailable/usable mineral from ROM production	85 to 90 %	90% recovery	
3d	Quantity of mineral reject generation	Not Proposed	No mineral reject produced	
3e	Grade of mineral rejects generation and threshold value declared.	Not Specified	NIL	

3f	Quantity of sub grade mineral generation.	Not Specified	Nil	
3g	Grade of sub grade mineral generation	Not Specified	Nil	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanical Method proposed	Screening is being done	
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	as per proposed	
3k	Provision of mining machineries in mineral benches	Proposed	HEmm is being used in mineral benches for excavation and transportation	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Suitable	Suitable as per approved mining plan and lithology	
3m	Total area covered under excavation/pits	4.5272 hect	3.0112 hect	
3n	Ore to OB ratio for the pit/mine during the year.	1:0.31	1:0.30	
3o	Total area put in use under different heads at the end of year	5.7447 hect	3.0587 hect	
3p	Production of ROM mineral during the last five year period as applicable	2015-16=50748 2016-17=140256 2017-18=167160 2018-19=00 2019-20=154312	2015-16=0 2016-17=1442 2017-18=1475 2018-19=0 2019-20=67300	units are in tonnes

3q	General remarks of inspecting officers on method of mining etc.	working is desired location slower rate , HEmm is being used for excavation and transportation of mineral, screening is being under use for segregation
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Solid Waste Management - Dumping:

Sl.No.	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Proposed	separate dumping is being done of generated soil and waste / OB/IB	
4b	Location of topsoil, OB and mineral reject dumps	in the northern portion of the lease area	dumping of soil is in northern portion of the ML area and waste is adjacent	
4c	Number of dumps within lease area and outside of lease area	2-nos within the lease area	2-nos within the lease area	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	outside the UPL	outside the UPL	
4e	Number of active and alive dumps.	2-nos active dumps	2- active dumps	
4f	Number of dead dumps.	Nil	Nil	
4g	Number of dumps established.	Not Proposed	None	
4h	Whether Retaining wall or garland drain all along dumps are there.	proposed	around 250 meter length garland drain prepared along the dumps	
4i	Length of Retaining wall or garland drain all along dumps	not proposed	Nil	
4j	Number of settling ponds	Not Proposed	None	

4k	Specific comments of inspecting officer on waste dump management	garland drain prepared fo around 250 meter length X1-1.5 meter
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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.	full extraction of mineral proposed	full extrcation of the mineral is under process, UPD not toched yet	
5b	Area under backfilling of mined out area	Not Proposed	Nil	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Proposed	in plantation	
5d	Total area fully reclaimed and rehabilitated	Not Proposed	No area fully excavated therefore no backfilling done	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			backfilling of old barrier zone excavtaion done in the reporting year to maintain the 7.5 meter 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).	Proposed	not submitted	violation issued

6b	Area available for rehabilitation (ha) .	not proposed	no area fully excavated yet
6c	afforestation done (ha).	over the 7.5 meter barrier zone	over the 7.5 meter barrier zone plantation done
6d	No. of saplings planted during the year	100 nos	100 nos
6f	Any other method of rehabilitation	not proposed	nil

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM dispatch proposed	ROM is being dispatched after screening	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanical method	Screening used for segregation	
7c	Different grade of mineral sorted out at mines.	not proposed	Nil	
7d	Any beneficiation process at mines .	Not Proposed	Nil only screening process under used	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			ROM is being screened before dispatch

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
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8a	Separate removal and utilization of topsoil (Rule 32)	proposed	top soil is being removed separately and use in plantation over the barrier zone
8b	Concurrent use or storage of topsoil	proposed	generated soil is being used in spreading over the plantation area
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	proposed	separate dumping of soil and OB is in the ML area
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	proposed	used in the barrier zone maintenance
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	proposed	as per proposal in approved mining plan
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	proposed	as per approved mining plan
8g	Survival rate	80%	70-75 %
8h	Water sprinkling on roads to control airborne dust	proposed	with the used of water tanker
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area		needs improvements and maintenance of planted samplings

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	submitted	MR submitted upto Oct 2021 AR submitted upto 2020-21	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	submitted	Manager NP TIWARI Mining Engineer in charge VINIT PANDEY	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	submitted	Lease area (surface area) utilisation as at the end of year (hectares) Under forest Outside forest Total (i) Already exploited & abandoned by opencast (O/C) mining 0.000 0.000 0.000 (ii) Covered under current (O/C) Workings 0.000 1.866 1.866 (iii) Reclaimed/Rehabilitated 0.000 0.045 0.045 (iv) Used for waste disposal 0.000 0.865 0.865 (v) Occupied by plant, buildings, residential, welfare buildings & roads 0.000 0.020 0.020 (vi) Other Purpose (MINERAL STORAGE.) 0.000 0.056 0.056 (vii) Work do	
9d	Scrutiny of Annual return on afforestation	submitted	Number of trees planted during the year 100 (ii) Survival rate in percentage 70.00	

9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	submitted	<p>Grade-wise production, Despatches, Stocks and Ex-mine prices of Processed ore(LIMESTONE)</p> <p>Grades Opening stock at mine head (in tonne)</p> <p>Production (in tonne)</p> <p>Dispatches from mine head (in tonne)</p> <p>Closing stock at mine head (in tonne)</p> <p>Ex-mine price (in ? Per Tonne)</p> <p>(a) LD 0.000 0.000 0.000 0.000 0.00</p> <p>(b) SMS 1420.060 67300.000 59829.400 8890.660 288.98</p> <p>(c) Chemical 0.000 0.000 0.000 0.000 0.00</p> <p>(d) BF 0.000 0.000 0.000 0.000 0.00</p> <p>(e) Cement 0.000 0.000 0.000 0.000 0.00</p>
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9f	Scrutiny of submitted Annual return on ROM stock and/or graded ore	Grade-wise production, Despatches, Stocks and Ex-mine prices of Processed ore(LIMESTONE) Grades 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) LD 0.000 0.000 0.000 0.000 0.00 (b) SMS 1420.060 67300.000 59829.400 8890.660 288.98 (c) Chemical 0.000 0.000 0.000 0.000 0.00 (d) BF 0.000 0.000 0.000 0.000 0.00 (e) Cement 0.000 0.000 0.000 0.000 0.00
9g	Scrutiny of furnished Annual return on sale value, Ex. Mine price and production cost	ex mine price 288.90 INR cost of production 277.91 INR
9h	Scrutiny of furnished Annual return on fixed assets	Value of Fixed Assets (INR) 956944

9k	Scrutiny of Annual return on mining machineries	submitted	Type of machinery Capacity of each unit No.of units Electrical/ Non-Electrical (specify) Used in opencast/ underground (specify) BACK HOE 0.900 CUM 1 Non Electrical Opencast DUMPER 15.000 TONNE 3 Non Electrical Opencast AIR COMPRESSOR 250.000 CUM/MN 1 Non Electrical Opencast ROCK DRILL (NONELEC.) 32.000 MM 2 Non Electrical Opencast PUMPS (NON-ELEC.) 320.000 L/MN 1 Non Electrical Opencast
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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

Date :

(DEEPAK SHARMA)

Indian Bureau of Mines