

**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 : **C004** ) **ROBERT SIMON C**  
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine :  
Official with  
Designation
- (iv) Date of Inspection : 17-DEC-21
- (v) Prev.inspection date : 07-MAR-21

**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	Nil	Nil	
1b	Exploration over lease area for geological axis 1 or 2	Nil	Nil	
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	8.068 ha area needs to be explored upto G1	8.068 ha area required to be explored upto G1	
1e	Balance reserve as on 01/04/20	122-1250271 222-1261125	122-1995961 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	working was proposed in the central part of the lease area in the eastern direction	Central & Western of lease area EW-100-300 NS-100-300	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Proposed	RL-402-394 Soil-Nil OB-1 (3m) Mineral-2 Nos.	
2c	Stripping ratio or ore to OB ratio	1:0.46	1:0.34	

2d	Quantity of topsoil generation in m3	23157 M3	23608 M3	
2e	Quantity of overburden generation in m3	51507 M3	52510 M3	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			working was by and large as per proposed location.

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#### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	01	01	
3b	Quantity of ROM mineral production proposed	155463 MT	154310 MT	
3c	Recovery of sailable/usable mineral from ROM production	80%	90%	
3d	Quantity of mineral reject generation	Not Proposed	Nil	
3e	Grade of mineral rejects generation and threshold value declared.	NA	NA	
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	Not proposed	Screening done	

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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	As per proposal
3k	Provision of mining machineries in mineral benches	proposed	BACK HOE 0.090 CUM 2 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 (ELEC.) 320.000 L/MN 1 Electrical Opencast
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	suitable	(i) Number of Benches 2(ore) 2(OB) (ii) Average height (meters) Mechanised 6(ore) 4(OB)
3m	Total area covered under excavation/pits	4.5272	3.0112
3n	Ore to OB ratio for the pit/mine during the year.	1:0.46	1:0.34
3o	Total area put in use under different heads at the end of year	5.7447	3.492 ht
3p	Production of ROM mineral during the last five year period as applicable	2016-17 140256 2017-18 167160 2018-19 Nil 2019-20 154312 2020-21 155463	2016-17 1442 2017-18 1475 2018-19 - 2019-20 59829 2020-21 154310

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

HEMM is being used for excavation and transportation of mineral, screening is being under use for segregation.

#### 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	Top Soil and OB dumped separately.	
4b	Location of topsoil, OB and mineral reject dumps	Topsoil - 7.5 m barrier zone O.B.- Backfilling	Top soil-Along barrier zone O.B.- Backfilling	
4c	Number of dumps within lease area and outside of lease area	Within Lease-2	WL-South-01 no North-01 no	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	outside UPL	outside UPL	
4e	Number of active and alive dumps.	02	02	
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.	proposed	300m approx. garland drain	
4i	Length of Retaining wall or garland drain all along dumps	Not proposed	300m approx. garland drain	
4j	Number of settling ponds	Nil	Nil	

4k	Specific comments of inspecting officer on waste dump management	waste management is being done by and large by the lessee
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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 from mined out area before starting backfilling proposed	full extraction of mineral from mined out area is under process, UPL not reached yet.	
5b	Area under backfilling of mined out area	Not proposed	0.045 ha	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Stacking within 7.5m barrier zone	Stacking within 7.5m barrier zone	
5d	Total area fully reclaimed and rehabilitated	Not proposed	0.045 Ha	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			backfilling of old barrier excavation is being done in the reporting year to maintain the 7.5 meter barrier zone.

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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).	Proposed	PMCP data for 2020-21 is submitted a copy of the same is enclosed	

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6b	Area available for rehabilitation (ha) .	Not proposed	Nil
6c	afforestation done (ha).	Not proposed	0.125
6d	No. of saplings planted during the year	Not proposed	150 nos
6e	Cumulative no .of plants	Not proposed	300 nos. approx
6f	Any other method of rehabilitation	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)Afforestation on backfilled area	NA	NA
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	NA	NA



6l	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	NA	NA	
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	NA	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)	Monitoring proposed	Yearly monitoring of air, water & noise carried out	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			PMCP compliance & progressive closer operations is carried by and large as per approved proposals

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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	

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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	NA	
7d	Any beneficiation process at mines	Not Proposed	Not done	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			No beneficiation process at mines is carried out

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**Environment:**

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Proposed	Top soil removed and stacked along 7.5m barrier zone N,E,W lease. 670 M3 utilized for Plantation & backfilled	
8b	Concurrent use or storage of topsoil	Plantation along barrier zone	Plantation along barrier zone	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate OB/waste dump proposed. No mineral Reject and fines proposed.	Waste stacked at south of the lease	

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8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Backfilling in central west and 7.5m barrier zone for plantation	7.5m barrier zone in central west & backfilling and rest waste rock stacked in south of lease (Temporarily basis)	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Phased restoration, reclamation and rehabilitation of lands affected by mining operations proposed	Phased restoration, reclamation and rehabilitation of lands affected by mining operations adopted by means of backfilling	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Baseline information on existence of plantation & additional plantation done available	150 Nos. Plantation this year. Total 300 nos.(approx.) along lease boundary and backfilled area	
8g	Survival rate	Not proposed	80 %	
8h	Water sprinkling on roads to control airborne dust	Water sprinkling on roads to control airborne dust is proposed	Water sprinkling on roads to control airborne dust done by water tanker.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			aesthetic beauty in and around mine area needs improvement

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Compliance of Rule 45:

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

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9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	given	Manager Lalji Tiwari Mining Engineer in charge K. N. Ojha Geologist in charge Nikhil Gadikar
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	given	<p>(i) Already exploited &amp; abandoned by opencast (O/C) mining 0.000 0.000 0.000</p> <p>(ii) Covered under current (O/C) Workings 0.000 2.160 2.160</p> <p>(iii) Reclaimed/Rehabilitated 0.000 0.045 0.045</p> <p>(iv) Used for waste disposal 0.000 0.619 0.619</p> <p>(v) Occupied by plant, buildings, residential, welfare buildings &amp; roads 0.000 0.037 0.037</p> <p>(vi) Other Purpose (Mineral stock, soil stock.) 0.000 0.631 0.631</p>
9d	Scrutiny of Annual return on afforestation	given	Plantation 150 Nos.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Not proposed	Nil

9f	Scrutiny of Annual return on ROM stock and/or graded ore	given	<p>Grade-wise production, Despatches, Stocks and Ex-mine prices of Processed ore( LIMESTONE )</p> <p>Grades</p> <p>Opening stock at mine head (in tonne)</p> <p>Production (in tonne)</p> <p>Despatches 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 8890.660 154310.000 151774.900 11425.760 321.00</p>
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	given	<p>Sale Value -Rs.321/MT</p> <p>Ex-Mine- Rs. 321/MT</p>
9h	Scrutiny of Annual return on fixed assets	given	<p>Value of Fixed Assets (in Rs) 964916</p>
9k	Scrutiny of Annual return on mining machineries	given	<p>BACK HOE 0.090 CUM 2 Non Electrical Opencast</p> <p>DUMPER 15.000 TONNE 3 Non Electrical Opencast</p> <p>AIR COMPRESSOR 250.000 CUM/MN 1 Non Electrical Opencast</p> <p>ROCK DRILL (NONELEC.) 32.000 MM 2 Non Electrical Opencast</p> <p>PUMPS (ELEC.) 320.000 L/MN 1 Electrical Opencast</p>

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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 :**

**(ROBERT SIMON C)**

Indian Bureau of Mines