

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

**MCDR inspection REPORT
Jabalpur regional office**

Mine file No : MP/STN/LST-176

Mine code : 38MPR35222

- (i) Name of the Inspecting : **P014**) **JAY KUMAR PANDEY**
Officer and ID No.
- (ii) Designation : Assistant Mining Engineer
- (iii) Accompanying mine : SH. P.D.AWASTHI, LESSEE
Official with
Designation
- (iv) Date of Inspection : 08-OCT-21
- (v) Prev.inspection date : 26-DEC-19

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **BHATURA**
- (b) **Registration NO.** : **IBM/1126/2011**
- (c) Category : A Mechanised
- (d) Type of Working : Opencast
- (e) Postal address :
State : MADHYA PRADESH
District : SATNA
Village : BHATURA
Taluka : MAIHAR
Post office :
Pin Code :
FAX No. : NA
E-mail : pd_awasthi@rediffmail.com
Phone : 08458989480
- (f) Police Station : BADERA
- (g) First opening date : 01-FEB-84
- (h) Weekly day of rest : SUN
2. Address for : Prabhu Dayal Awasthi
correspondance : Kymore Jhukehi road,village Nanhwara
Distt Katni, MP 483775
3. (a) Lease Number : MPR0048
- (b) Lease area : 2.74
- (c) Period of lease : 20
- (d) Date of Expiry : 31-JAN-14
4. Mineral worked : LIMESTONE Main

5. Name and Address of the

Lessee : PRABHU DAYAL AWASTHI
 VILL. MOHANTOLA TEHSIL
 VIJAYRAGHOGARH DISTT.
 KATNI,MP KATNI MADHYA
 PRADESH
 Phone:
 FAX :

Owner : Prabhu Dayal Awasthi
 VILLAGE
 MOHANTOLA,VIJAYRAGHOGARH
 DISTT KATNI ,MP SATNA
 MADHYA PRADESH
 Phone:
 FAX :

6. Date of approval of Mining	:	Renewal under rule 24 MCR1960	31-OCT-07
Plan/Scheme of Mining		Mining Scheme rule 12 MCDR1988	06-SEP-12
		Renewal under rule 24 MCR1960	25-JUN-14
		MP review under 17(1) MCR 2016	05-JAN-18

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Not Proposed	Not Applicable.	
1b	Exploration over lease area for geological axis 1 or 2	Not Proposed	Already lease area is explored in geological axis 1.	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not Proposed	Not applicable	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Not Proposed	Already lease area 2.748ha. is explored in geological axis 1.	
1e	Balance reserve as on 01/04/20	Not Proposed	Resereves as on 01/04/2021 under 111 cat.- .24million tonnes & Resources under 211 cat. - .94 million tonnes	
1f	General remarks of inspecting officers on geology, exploration etc	Not Proposed	Not applicable	The limestone of lease area is of rohtas limestone in semri group of vindhyan super group with dipping towards north.

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Advancing towards west side of lease area & existing pit.	Towards west side as proposed but development as proposed removal of 4944cum. of soil but no such developement was done during 2020-21.	Hence violation of rule 11(1) pointed out.

2b	Separate benches in topsoil, overburden and minerals (Rule 15)	One bench in soil of 4m. high and 3 benches in mineral limestone of 6m. high.	In proposed site one bench in soil of 3- 4m. high and 1 bench in mineral limestone of 5- 6m. high observed.	
2c	Stripping ratio or ore to OB ratio	1:0.28	Not applicable as no development done during 2020-21.	
2d	Quantity of topsoil generation in m3	4944cu.m.	Nil as no development done during 2020-21.	
2e	Quantity of overburden generation in m3	1005 cu.m. as inter burden.	1152 cum.	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Not proposed	Not applicable	The development and production was done in proposed site but development as proposed not done also production is 25% of proposals during 2020-21 .hence violation of rule 11(1) pointed out.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One	One	
3b	Quantity of ROM mineral production proposed	50233 tonnes	10753 tonnes	The actual production is 25% of proposals during 2020-21 .
3c	Recovery of sailable/usable mineral from ROM production	95%	95%	
3d	Quantity of mineral reject generation	Not proposed	Not applicable	

3e	Grade of mineral rejects generation and threshold value declared.	Not proposed	Not applicable
3f	Quantity of sub grade mineral generation.	Not proposed	Not applicable
3g	Grade of sub grade mineral generation	Not proposed	Not applicable
3h	Manual / Mechanised method adopted for segregating from ROM	Not proposed	Not applicable
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Not proposed	Not applicable
3j	Provision of drilling and blasting in mineral benches	Drilling & blasting in mineral benches proposed	Drilling & blasting done as proposed in mineral benches.
3k	Provision of mining machineries in mineral benches	One backhoe of 1.2cu.m. capacity & 10 dumpers of 10 t. capacity	One backhoe of 1.2cu.m. capacity & 10 dumpers of 10 t. capacity deployed in mine.
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	.2ha.	Actual during the year about .1ha. & cumulative about 2ha.
3n	Ore to OB ratio for the pit/mine during the year.	1:0.28	Not applicable as no developement done during 2020-21.

3o	Total area put in use under different heads at the end of year	.2ha. in pits	Actual during the year about .1ha. & cumulative about 2ha. (about .4ha. backfilled and rehabilitated by plantation) in pits, .1ha. in dumps , mineral stock .4ha. & .1ha. in roads	
3p	Production of ROM mineral during the last five year period as applicable	2016-17 50260t, 2017-18 39069t, 2018-19 50065t, 2019-20 50233t & 2020-21 50233t	2016-17 24926 t 2017-18 38930 t 2018-19 18750 t 2019-20 7950 t 2020-21 10753 t	
3q	General remarks of inspecting officers on method of mining etc.	Not proposed	The mechanised mining as proposed carried out.	The development and production was done in proposed site but development as proposed not done also production is 25% of proposals during 2020-21 .hence violation of rule 11(1) pointed out.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	backfilling proposed	Not applicable as no developement/soil removal done during the year.	
4b	Location of topsoil, OB and mineral reject dumps	Not proposed	Not applicable .	

4c	Number of dumps within lease area and outside of lease area	Not proposed during the year only backfilling proposed.	Not applicable as no developement/soil removal done during the year the interburden/waste generated about 1000 cum. during the year was utilised for backfilling in remaining backfilled area in excavated part of pit.	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Not proposed	Only backfilling done. One old waste dump of 40x30x3m. size present in the lease area.	
4e	Number of active and alive dumps.	Not proposed	None.	
4f	Number of dead dumps.	Not proposed	One old waste dump of 40x30x3m. size present in the lease area as per proposal it should be rehandeled for backfilling.	
4g	Number of dumps established.	Not proposed	None	
4h	Whether Retaining wall or garland drain all along dumps are there.	Not proposed	Not applicable	
4i	Length of Retaining wall or garland drain all along dumps	Not proposed	Not applicable	
4j	Number of settling ponds	Not proposed	Not applicable	
4k	Specific comments of inspecting officer on waste dump management	Not proposed	Not applicable	There is no proposal for dumping only backfilling proposed & one old waste dump of 40x30x3m. size present in the lease area should be rehandeled for backfilling as proposed.

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.	Backfilling proposed in eastern side of high wall faces to reduce hight of benches.	The proposed backfilling was not done in actual the generated waste utilised for backfilling in old backfilled area.	Violation of rule 11(1) pointed out for not done backfilling in proposed site.
5b	Area under backfilling of mined out area	300 sq.m.	In actual the .4ha. mined out area backfilled so for during the year the backfilling was done over this remaining part of area.	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Proposed	Not applicable as no developement done during 2020-21.	
5d	Total area fully reclaimed and rehabilitated	Not proposed	In actual the .4ha. mined out area backfilled & rehabilitated by plantation so for during the year the backfilling was done over this remaining part of this area and also new plantation about 250 trees done in between old big trees in this backfilled area.	
5e	General remarks of inspecting officers on backfilling and reclamation etc.	Not proposed	.4 ha. area fully backfilled & rehabilitated so for.	The .4 ha. fully mined out pits area fully backfilled & rehabilitated by about 1000 plantation so for.

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).	PMCP report to be submitted	Annual report of PMCP not submitted.	Violation of rule 26(2) pointed out.

6b	Area available for rehabilitation (ha) .	Not proposed	The .4 ha. fully mined out pits area fully backfilled & rehabilitated by about 1000 plantation so for.
6c	afforestation done (ha).	Not proposed	About 250 new plantation done over backfilled area. Also plantation about 500 trees outside of lessees own land done in vicinity of lease area.
6d	No. of saplings planted during the year	Not proposed	About 250
6e	Cumulative no .of plants	Not proposed	Within lease area about 1000 plantation so for over backfilled area & about 500 trees outside of lessees own land done in vicinity of lease area.
6f	Any other method of rehabilitation	Not proposed	Not applicable
6g	Cost incurred on watch and care during the year	Not proposed	About 2 lakhs
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	Yes	The .4 ha. fully mined out pits area fully backfilled & rehabilitated by about 1000 plantation so for.
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	yes	The .4 ha. fully mined out pits area fully backfilled & rehabilitated by about 1000 plantation so for.

6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area	yes	The .4 ha. fully mined out pits area fully backfilled & rehabilitated by about 1000 plantation so for.
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Not proposed	Not applicable
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	Not proposed	Not applicable
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	Not proposed	Not applicable
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	Not proposed	Not applicable
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Not proposed	Not applicable
6p	Compliance of environmental monitoring (core zone and buffer zone)	yes	Monitoring of air,water,soil & noise done.

6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	Not proposed	Not applicable	The .4 ha. fully mined out pits area fully backfilled & rehabilitated by about 1000 plantation so for. During the year backfilling was not done in proposed site & PMCP report not submitted hence violation pointed out.
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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 Mineral	As proposed ROM mineral dispatched.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Not proposed	Not applicable	
7c	Different grade of mineral sorted out at mines.	Not proposed	Not applicable	
7d	Any beneficiation process at mines	Not proposed	Not applicable	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	Not proposed	Not applicable	Grading/benificiations of mineral not proposed only manual sizing proposed the ROM mineral is directly dispatched.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Proposed	Not applicable as no developement done during 2020-21. Earlier the top soil was utilised for spreading over backfilled area.	
8b	Concurrent use or storage of topsoil	Spreading over backfilled area.	Not applicable as no developement done during 2020-21. Earlier the top soil was utilised for spreading over backfilled area.	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Not proposed	Not applicable as no developement/soil removal done during the year the interburden/waste generated about 1000 cum. during the year was utilised for backfilling in remaining backfilled area in excavated part of pit.	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Backfilling proposed	.4 ha. area fully backfilled & rehabilitated so for.	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Backfilling proposed	.4 ha. area fully backfilled & rehabilitated so for.	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Plantation proposed	About 1000 planted big/small trees over backfilled area present in the lease area.	
8g	Survival rate	Not proposed	80%	

8h	Water sprinkling on roads to control airborne dust	Proposed	Water sprinkling on haul roads done as per requirement.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Not proposed	Not applicable	The lessee has planted about 1000 trees over backfilled area and out side lease area looks aesthetic beauty in and around mine area.

Compliance of Rule 45:

Sl.No.	Item	Proposals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Lessee submitted Monthly & annual returns	Lessee submitted Monthly & annual returns in due date.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Not given	Mining Engineer & Geologist not appointed.	Violation of rule 55 pointed out.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Details are given 2.1 hect in mining .4 hect for backfilling, .	About 2ha.(about .4ha. backfilled and rehabilitated by plantation) in pits, .1ha. in dumps , mineral stock .4ha. & .1ha. in roads. Lessee has not submitted upto date plans and section as required under rule 33 of MCDR 2017.	Hence violation of rule 33 pointed out.
9d	Scrutiny of Annual return on afforestation	240 trees plantation	About 200 new planted trees observed with 80% survival rate.	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Not given	Not applicable	

9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM Stock- nil, Graded mineral- 10293.21 tonnes	Actual ROM stock -nil graded ore stock about - 3000 tonnes (dispatched from april 21 to august 21) & as per closing stock of graded ore in august 2021 monthly return.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex mine 370Rs cost of production 321 Rs sale value given	Mentioned in the annual return.
9h	Scrutiny of Annual return on fixed assets	Not provided	Not provided
9k	Scrutiny of Annual return on mining machineries	One backhoe of 1.2cu.m. capacity & 10 dumpers of 10 t. capacity	One backhoe of 1.2cu.m. capacity & 10 dumpers of 10 t. capacity deployed in mine.

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)	14-OCT-21			
MCDR17	Rule 26(2)	14-OCT-21			
MCDR17	Rule 33	14-OCT-21			
MCDR17	Rule 55(1) (3)	14-OCT-21			

Date :

(JAY KUMAR PANDEY)

Indian Bureau of Mines