

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

MCDR INSPECTION REPORT

Nagpur regional office

Mine file No : MAH/YTL/LST-60/NGP

Mine code : 38MSH26036

- (i) Name of the Inspecting : **K02**) **Kalmata.M.K.**
Officer and ID No.
- (ii) Designation : Regional Mining Geologist
- (iii) Accompanying mine : Shri Surendra Bhartiya, Lessee.
Official with
Designation
- (iv) Date of Inspection : 20/03/2020
- (v) Prev.inspection date : 20/07/2011

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **HIWARDARA (13.14H)**
- (b) **Registration NO.** : **IBM/6027/2011**
- (c) Category : B Manual
- (d) Type of Working : Opencast
- (e) Postal address
- State : MAHARASHTRA
- District : YEOTMAL
- Village : HIWARDARA
- Taluka : WANI
- Post office : WANI
- Pin Code : 445304
- FAX No. :
- E-mail :
- Phone :
- (f) Police Station :
- (g) First opening date : 12/04/2005
- (h) Weekly day of rest : MON
2. Address for : 6/1 - B, BHARTIA WADI,
correspondance POST : PISGAON
TAH. : WANI, DISTT. : WANI
3. (a) Lease Number : MSH0382
- (b) Lease area : 13.14
- (c) Period of lease : 30
- (d) Date of Expiry : 10/01/2035
4. Mineral worked : DOLOMITE Associated
LIMESTONE Main

5. Name and Address of the

Lessee : SHRI SURENDRA BHARTIA
 6/1 - B, BHARTIA WADI, POST
 : PISGAON, TAH.: WANI,
 DISTT. : YAVATMAL NAGPUR
 MAHARASHTRA
 Phone:
 FAX :

Owner : SURENDRA BHARTIA
 6/1 - B, BHARTIA WADI, POST
 : PISGAON TAH. : WANI,
 DISTT. : WANI YEOTMAL
 MAHARASHTRA
 Phone:
 FAX :

Manager

Name : Shri Irfan Mohmmad Ali Saiyad
 Qualification : B. E. (MINING)
 Appointment/ : 12/04/2005
 Termination date

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	25/03/2003
Plan/Scheme of Mining		PMCP under 23B(1) for Fresh	30/06/2004
		Mining Scheme rule 12 MCDR1988	04/11/2010

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	There was a proposal to drill four exploratory boreholes in the year 2016-17 and two in 2019-20.	Lessee has not carried out any exploration in the present plan period.	Violation is pointed out for the same under Rule 11(1) of MCDR-2017.
1b	Exploration over lease area for geological axis 1 or 2	G-1, level.	Exploration is not carried out in the present plan period.	Lessee has explored about 3.5Ha, under G-1 level by drilling eight boreholes.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	By lessee.	Lessee has not carried out any exploration in the present plan period.	Violation is pointed out for the same under Rule 11(1) of MCDR-2017.
1d	Balance area to be explored to bring Geological axis in 1 or 2	2.5 Ha	Exploration has not carried out in the present pplan period.	Lessee has already explored 3.5Ha under G-1 level and proposal was given to explore remaining 2.5 ha. Total lease area is 13.14 Ha, out of which about 7.00 Ha is covered under Safety zones of Road and Seasonal nallah and 7.5mtr statutory barrier.

1e	Balance reserve as on 01/04/20	Reserves/resources of Limestone (As on 01.04.2015) as per approved document. Proved M Reserves (111) - 1727948 tonnes Probable M Reserves (122)- 336355 tonnes Total:- 20643030 tonnes	Reserves/resources as on 01. 04.2019 Proved M Reserves (111) - 1722070 tonnes Probable M Reserves (122)- 336355 tonnes Total:- 2058425 tonnes	Production form 2015-16 to 2018-19 is depleted from the reserves given in the approved document.
1f	General remarks of inspecting officers on geology, exploration etc		So far, lessee has drilled 09 bore holes, and depth ranges from 10.00 to 13.00 mtrs only. Lessee has advised to propose deep holes to know the continuity of the ore body. In the present plan period lessee has not carried out exploration as per the proposal and violation is pointed out for the same.	

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	In the year 2018-19, development was proposed between the co-ordinates N-230 to N-410 & E-200 to E-360.	Actual working has been carried out , between the Co-ordinates, N-330 to N-350 and E- 160 to E-215.	Working has been not carried out as per the proposal and violation is pointed out for the same.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Benches proposed in ore only.	One bench was made in ore .	No topsoil and OB was proposed in the present plan period.

2c	Stripping ratio or ore to OB ratio	Nil	Nil	No OB generation was proposed in the present plan period.
2d	Quantity of topsoil generation in m3	Nil	Nil	Topsoil removed earlier was utilized for plantation within the lease area.
2e	Quantity of overburden generation in m3	Nil	Nil	OB generation was not proposed in the present plan period.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc		In the year 2018-19, the working has been not carried out as per the proposal and violation is pointed out for the same under Rule 11(1) of MCDR-2017.	

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One in the year 2018-19.	One in the year 2018-19.	Total three pits are existing within the lease area. Dimesion of pits are as follows. Pit No-1:-51m(L) x 16m(B), Pit No-2:-52m(L) x 25m(B), PitNo-3:-30m(L) x 15m(B).
3b	Quantity of ROM mineral production proposed	55732 tonnes, in the year 2018-19.	1168 tonnes.	Production is very less due to lack of demand.
3c	Recovery of sailable/usable mineral from ROM production	60%	100%	
3d	Quantity of mineral reject generation	2786 tonnes in the year 2018-19.	Nil.	Lessee has produce only 3% of total proposed production and no mireal reject was generated in the year 2018-19.

3e	Grade of mineral rejects generation and threshold value declared.	Below 30% Cao	Nil	No mineral reject was produced in the year 2018-19.
3f	Quantity of sub grade mineral generation.	19506 tonnes	Nil	Lessee has produce only 3% of total proposed production and no Sub-grade was generated in the year 2018-19.
3g	Grade of sub grade mineral generation	32 to 35% Cao	Nil	No sub-grade was generated in the year 2018-19.
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.	Nil	Nil	
3j	Provision of drilling and blasting in mineral benches	Drilling is proposed using 32 mm dia Jackhammer drills.	As per the proposal.	
3k	Provision of mining machineries in mineral benches	Proposed JCB and dumpers (10 tonner)	Lessee is not using any machineries.	Mine is working manually.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	yes, 3.00 mtr bench height proposed.	Bench height is maintained at 3.00 to 3.5 mtr.	
3m	Total area covered under excavation/pits	0.9Ha in the year 2018-19.	0.084 Ha	only 3% production was made in the year 2018-19.
3n	Ore to OB ratio for the pit/mine during the year.	Nil	Nil	No OB generation was proposed in the present plan period.

3o	Total area put in use under different heads at the end of year	Area under mining:- 1.64Ha, For waste and subgrade/reject dumps:- 1.003Ha, Roads:-0.010Ha	Area under Mining:- 0.5Ha, area under dump- 0.064Ha, Roads-0.010Ha.	Due to less production area under mining is less than the proposal. Further No mineral reject or Subgrade was generated in the present plan period, so area under dump also less than the proposal.
3p	Production of ROM mineral during the last five year period as applicable	2018-19 55732 T 2017-18 55530T 2016-17 55737T 2015-16 33517T 2014-15 13333	2018-19 1168 T (As per Monthly returns) 2017-18 1620 T 2016-17 3090T 2015-16 Nil 2014-15 Nil	Due to lack of demand for limestone lessee is doing less production.
3q	General remarks of inspecting officers on method of mining etc.		The mine is working manually and in the present plan period lessee has done the production less than the proposal due to lack of demand. Only 3% production was done against the proposed quantity. The working has been not carried out as per the proposal and violation is pointed out for the same.	

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 reject dump was proposed in the present plan period.	No mineral reject was produced in the present plan period and No dumping was made.	Handling of Topsoil and OB was not proposed in the present plan period.

4b	Location of topsoil, OB and mineral reject dumps	Mineral reject dum was proposed between the co-ordinates, N-710 to N-800 and E-435 to E-470 and no OB domp was proposed.	No mineral reject was produced in the present plan period and no dump was made.	One old OB dump is existing between the co-ordinates, N-520 to N-535 and E-335 To E-360.
4c	Number of dumps within lease area and outside of lease area	One Mineral reject dump.	No dump was formed in the present plan period.	One Old OB dump is existing within the lease area.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside the UPL	No dumping was made in the present plan period.	One old dump is existing within the lease area and outside the UPL.
4e	Number of active and alive dumps.	One	No duming was made in the present plan period.	One old active OB dump is existing.
4f	Number of dead dumps.	Nil	Nil	
4g	Number of dumps established.	One	Nil in the present plan period	One old dump is existing within the lease area.
4h	Whether Retaining wall or garland drain all along dumps are there.	No retaing wall and garlan drain is proposed in the present plan period.	Nil	Lessee has advised to made retaining wall along the toe of the old waste dump.
4i	Length of Retaining wall or garland drain all along dumps	Nil	Nil	
4j	Number of settling ponds	Nil	Nil	
4k	Specific comments of inspecting officer on waste dump management		In the present plan period no OB generation was proposed and no dump was made. However one old OB dump is existing within the lease area and no retaining wall is observed, along the toe of the dump. Lessee has advised to made reating wall along the to of the waste dump to avoid wash off.	

Solid Waste Management - Backfilling:

Sl.No.	Item	Propasals	Actual work	Remarks
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5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	Not proposed	Nil.	No backfilling is proposed in the present plan period.
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)	Not proposed	Nil.	Topsoil removed in the previous plan period was utilised for making plantaion within the lease area.
5d	Total area fully reclaimed and rehabilitated	Not proposed.	Nil	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			Present working is not reached upto the proved depth and no proposals were made for reclamation and rehabilitation in the present plan period.

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).	Before 1st july of every year.	Lessee has not submitted a yearly report on protective and rehabilitative works carried out as envisaged in the approved mine closure plan, for the year 2016-17. 2017-18 & 2018-19.	Violation is pointed out for the same under Rule 26(2) of MCDR-2017.
6b	Area available for rehabilitation (ha) .	Nil	Nil	
6c	afforestation done (ha).	0.045 Ha in the year 2018-19.	0.09 Ha in the year 2018-19.	

6d	No. of saplings planted during the year	75	50	Lessee has made 209 plantation in the previous year against proposal of 75.
6e	Cumulative no .of plants	375 in the present plan period.	259 in the present plan period.	
6f	Any other method of rehabilitation	Nil	Nil	
6g	Cost incurred on watch and care during the year	Nil	Nil	
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 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.	Nil	Nil	
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	Nil	Nil	

6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	Nil	Nil
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Nil	Nil
6p	Compliance of environmental monitoring (core zone and buffer zone)	No proposal was given for environmental monitoring in the Core and buffer zone.	The mine is working manually and production achieved is less compared to proposal. So the impact of mining on environment is negligible and lessee has not carried out environmental monitoring in the present plan period.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.		In the progressive mine closure plan only plantation was proposed on waste dump. However, the waste dump was not matured for plantation and plantation was made in the waste land within the lease area. Lessee has not submitted yearly report on PMCP and violation is pointed out for the same under Rule 26(2) of MCDR-2017.

Mineral Conservation:

Sl.No.	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Gradewise sorting within the lease.	As per the proposal.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Lessee has installed electrical crusher of 200 T capacity within in the lease area.	Manual. Lessee is manually breaking and sorting ROM by engaging labours.	Electrical crusher is not working due to technical issues.

7c	Different grade of mineral sorted out at mines.	Only Cement Grade.	Only cement garde.	Only cement grade is available in the lease area.
7d	Any beneficiation process at mines	Nil	Nil	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues		Lessee is blending low garde ore for which direct market is not available with the high grade material as per the requirement of the buyers.	

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Not proposed.	Nil.	Topsoil removed earlier is utilised for plantation within the lease area.
8b	Concurrent use or storage of topsoil	Not proposed.	Nil	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dumping was proposed for Ore and Mineral reject.	No mineral reject was generated in the present plan period.	Recovery is 100%.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Not proposed.	Nil.	

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Not proposed.	Nil	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Baseline information was furnished in the mining plan. Additional plantation proposals are being given in the Mining Plan documents.	About 259 saplings are planted in the present plan period.	
8g	Survival rate	Not proposed.	60 to 70%.	Lessee has advised to do more plantation in the safety zone to develop green belt.
8h	Water sprinkling on roads to control airborne dust	Yes, proposed	Yes, being carried out through small hired tankers.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area		Three small pits are opened within the lease area and suitable bench height is maintained. Lessee has made the plantation in the waste land. No plantation was observed in the safety zone. Lessee has advised to do plantation in the safety zone to develop green belt.	

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
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9a	Status of submission of Monthly and Annual returns	A monthly return shall be submitted before the tenth day of every month in respect of the preceding month and an annual return shall be submitted before the 1st day of July each year for the preceding financial year.	Lessee has not submitted monthly returns from April 2019 onwards and Annual returns for the year 2018-19.	Violation is pointed out for the same under Rule 45(5) (b) & (C) of MCDR 2017.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Not submitted Annual returns for the year 2018-19.	Lessee has not appointed the Mining Engineer and Geologist.	Violation is pointed out for the same under Rule 55 (1)(C)(ii) of MCDR-2017.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Not submitted Annual returns for the year 2018-19.	Area under Mining:- 0.5Ha, area under dump- 0.064Ha, Roads-0.010Ha.	
9d	Scrutiny of Annual return on afforestation	Not submitted Annual returns for the year 2018-19.	50 plantation was made in the year 2018-19.	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Not submitted Annual returns for the year 2018-19.	Recovery is 100 percent and no mineral reject was generated in the year 2018-19.	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Not submitted Annual returns for the year 2018-19.	Only cement grade ore stock was observed in the pit.	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Not submitted Annual returns for the year 2018-19.	Lessee has not provided the details on the day of inspection.	Lessee has advised to submit the details.
9h	Scrutiny of Annual return on fixed assets	Not submitted Annual returns for the year 2018-19.	One electrical crusher of 200T capacity is observed in the field.	Lessee has advised to submit value of fixed assets to this office.

9k Scrutiny of Not submitted Mine is working manually
Annual return on Annual returns and lessee is not using
mining for the year any machineries.
machineries 2018-19.

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)	08/06/2020			
MCDR17	Rule 11(4)	08/06/2020			
MCDR17	Rule 26(2)	08/06/2020			
MCDR17	Rule 27(1)	08/06/2020			
MCDR17	Rule 27(2)	08/06/2020			
MCDR17	Rule 35(2)	08/06/2020			
MCDR17	Rule 45(5)(k)	08/06/2020			
MCDR17	Rule 45(5)(c)	08/06/2020			
MCDR17	Rule 55(1)(3)	08/06/2020			

Date :

(Kalmata.M.K.)

Indian Bureau of Mines