

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

Review and updation of Mining Plan REPORT

Nagpur regional office

Mine file No : MP/MND/LST-2/NGP

Mine code : 38MPR51003

- (i) Name of the Inspecting : **G005**) **SANJAY M. GIRHE**
Officer and ID No.
- (ii) Designation : Regional Mining Geologist
- (iii) Accompanying mine :
Official with
Designation
- (iv) Date of Inspection : 20-JAN-21
- (v) Prev.inspection date :

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **MORKA (14.733 H.A)**
- (b) **Registration NO.** :
- (c) Category : A Mechanised
- (d) Type of Working : Opencast
- (e) Postal address :
State : MADHYA PRADESH
District : NIMACH
Village : MORKA
Taluka : JAWAD
Post office :
Pin Code :
FAX No. :
E-mail :
Phone :
- (f) Police Station :
- (g) First opening date :
- (h) Weekly day of rest : SUN
2. Address for :
correspondance
3. (a) Lease Number : MPR1516
(b) Lease area : 14.73
(c) Period of lease : 50
(d) Date of Expiry : 28-NOV-45
4. Mineral worked : LIMESTONE Main

5. Name and Address of the
Lessee : m/S VEER DURGADAS MINERALS PVT. LTD.
RATHORE HOUSE NEAR FCI
GODOWN CHANDERIYA DISTRICT-
CHITTORGARH CHITTORGARH
RAJASTHAN
Phone:01472256939
FAX :
6. Date of approval of Mining :
Plan/Scheme of Mining

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No exploration was proposed during approved plan period	Nil	Lessee had drilled 14 boreholes in lease area previously & entire area explored in G-1 level
1b	Exploration over lease area for geological axis 1 or 2	No exploration was proposed during approved plan period	Lessee had drilled 14 boreholes in lease area previously & entire area explored in G-1 level	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not Proposed during the year 2019-20	Nil	Exploration was carried out by outsourced agency M/s Maa Karmi Kripa
1d	Balance area to be explored to bring Geological axis in 1 or 2	Not Proposed	Entire lease area explored in G-1 previously.	No area is remaining for exploration in G-1 level
1e	Balance reserve as on 01/04/20	Reserves in Tonnes Probable (121)- 11,400,602 Resources in tonnes Pre-Feasibility(21/222) : 69,09,896 Reserves/reso urces position as per MMP approved on 13.10.2016	Reserves in Tonnes Probable (121)- 11,400,174 Resources in tonnes Pre-Feasibility(221/222) : 69,09,896 Reserves/resources position as per Annual return as on 01.04.2020	

1f	General remarks of inspecting officers on geology, exploration etc	NA	NA	Detailed exploration done upto G1 axis up to depth of 50mts in the mineralized area as per the provisions of Rule 12(4) of MCDR 2017 and reserves/resources were estimated as per MEMC Rules 2015.
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Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	It was proposed to work in between 177N to 510N &95W to 105E with bench mRLs from 479 to 455mRL as earmarked in 3D Plate for the year 2019-20	During the year 2019-20 very meager limestone production of 218 tonnes carried out.	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Benches in Top soil - Nil (Thin layer of top soil), Overburden Benches - Nil, Mineral Limestone - 3 Benches (Height 7 to 8 m)	During the year 2019-20 very meager limestone production of 218 tonnes carried out.	
2c	Stripping ratio or ore to OB ratio	Not Proposed	Nil	Lease area neither having OB nor inter-burden.
2d	Quantity of topsoil generation in m3	During the year 2019-20 total 968CuM proposed	No top soil generated during the year.	Very less production of limestone carried out

2e	Quantity of overburden generation in m3	Not Proposed	Nil	Lease area neither having OB nor inter-burden.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	NA	NA	There are 3 small working pits Its dismension as per approved MMP Pit No-1 : 35mx19mx2.6m, Pit No-2 : 68m x 18m x 2.0m and Pit No-3 : 79m x 11m x 2.4. Limestone mineralisation very well seen in all the pits.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Excavation was proposed in Pit-2 & 3 from 479mRL to 455mRL as marked in Plate-3D	During the year 2019-20 very meager limestone production of 218 tonnes carried out from proposed location.	
3b	Quantity of ROM mineral production proposed	5,00,42 MT proposed in 2019-20	During the year 2019-20 very meager limestone production of 218 tonnes carried out.	As reported, low production due to poor market demand.
3c	Recovery of sailable/usable mineral from ROM production	Total 85% recovery of limestone from ROM proposed	During the year 2019-20 very meagre limestone production of 218 tonnes carried out.	Losses 15% as mining losses & availability of voids in limestone formation are considered.
3d	Quantity of mineral reject generation	Not Proposed	Nil	
3e	Grade of mineral rejects generation and threshold value declared.	Not Proposed	Nil	

3f	Quantity of sub grade mineral generation.	Not Proposed	Nil	
3g	Grade of sub grade mineral generation	Not Proposed	Nil	
3h	Manual / Mechanised method adopted for segregating from ROM	Not proposed	Nil	Entire recoverable limestone is suitable for cement manufacturing plants.
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	Drilling & blasting of 100 to 115 dia by wagon drill proposed	Not done as during the year 2019-20 limestone production of 218 tonnes carried out.	
3k	Provision of mining machineries in mineral benches	L & T Komatsu PC 200-6 excavator fo 2.10 Cum capacity Rock drill wagon, Atlas Copco-232 HP TATA Dumper model 2515, 20 T capacity Komatsu Dozer D65 E-8- 165HP Wate tanker - 9KL capacity Road roller - 82.50HP Water pump with Diesel engine	& T Komatsu PC 200-6 excavator fo 2.10 Cum capacity Rock drill wagon, Atlas Copco-232 HP TATA Dumper model 2515, 20 T capacity Komatsu Dozer D65 E-8- 165HP Wate tanker - 9KL capacity Road roller - 82.50HP Water pump with Diesel engine	

3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Bench height of 7 to 8mts proposed in mineral/limestone	Proposed height is suitable as per the nature of deposit	No overburden encountered in the lease area.
3m	Total area covered under excavation/pits	7.85 Ha area was proposed in approved MP period i.e. 2016-17 to 2020-21	0.225Ha as on 01.04.2020, less excavated area due very low production during the year 2019-20	
3n	Ore to OB ratio for the pit/mine during the year.	Not Proposed	Nil	No overburden encountered in mining lease area.
3o	Total area put in use under different heads at the end of year	As per the previous approved MP Pits-0.225 Ha Infrastructure -0.010 Ha	As per the previous approved MP Pits-0.225 Ha Infrastructure-0.210 Ha	No change in the area due very less production of limestone during the year
3p	Production of ROM mineral during the last five year period as applicable	2015-16-: NA MT 2016-17-: 4,50,008 MT 2017-18-: 5,00,011 MT 2018-19-: 5,00,032 MT 2019-20-: 5,00,042 MT	2015-16-: NA MT 2016-17-: 4,50,008 MT 2017-18-: 5,00,011 MT 2018-19-: 5,00,032 MT 2019-20-: 5,00,042 MT	
3q	General remarks of inspecting officers on method of mining etc.	NA	NA	Mechanised open cast working proposed by using Excavator /JCB & dumper combination with deep drilling & blasting using wagon drilling.

Solid Waste Management - Dumping:

Sl.No.	Item	Proposals	Actual work	Remarks
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4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Not proposed	Thin layer of soil encountered which concurrently proposed for plantation purpose	Overburden not encountered in lease area
4b	Location of topsoil, OB and mineral reject dumps	Not Proposed	NA	
4c	Number of dumps within lease area and outside of lease area	No overburden dumps available in lease area	No overburden encountered in lease area	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Not Proposed	NA	
4e	Number of active and alive dumps.	Not Proposed	Neither active nor dead dumps available in lease area	
4f	Number of dead dumps.	No dead dumps available in lease area	No dead dumps available in lease area	
4g	Number of dumps established.	Not Proposed	NA	
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	Not Proposed	NA	
4j	Number of settling ponds	Not Proposed	NA	No overburden encountered in mining lease area
4k	Specific comments of inspecting officer on waste dump management	NA	NAnn	Mining lease area is completely devoid of any OB/waste. Therefore, scope of reclamation by backfilling in mineral exhausted pits shall not be arise.

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.	Limestone not exhausted in any of the pits. Further, ML area is devoid of OB/Waste hence backfilling is not proposed	Nil	
5b	Area under backfilling of mined out area	Not Proposed	Backfilling not carried out so far	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Thin layer of top soil excavation & its concurrent use for plantation proposed.	No top soil generated due very less production acheived during the year 2019-20	
5d	Total area fully reclaimed and rehabilitated	Not Proposed	None of the area reclaimed & rehabilitated so far	
5e	General remarks of inspecting officers on backfilling and reclamation etc.	NA	NA	Mining lease area is devoid of any overburden therefore the scope of reclamation by backfilling doesnot exists.

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).	To be submitted before 1st July of every year	Submitted within time limit	
6b	Area available for rehabilitation (ha) .	Not Proposed	None of the area is available rehabilatation as confirmed by detailed exploration	

6c	afforestation done (ha).	200 saplings were proposed to be planted along lease boundary & road	50 saplings planted along lease boundary & road	
6d	No. of saplings planted during the year	200 saplings were proposed to be planted along lease boundary & road	50 saplings planted along lease boundary & road	
6e	Cumulative no .of plants	NA	NA	Details on cumulative plantation not furnished in approved docuement.
6f	Any other method of rehabilitation	Not Proposed	Nil	
6g	Cost incurred on watch and care during the year	NA	NA	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	Not Proposed	Nil	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Not Proposed	Nil	
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area	Not Proposed	Nil	

6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Not Proposed	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	Not Proposed	Nil
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	Not Proposed	Nil
6o	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	Not Proposed	Nil
6p	Compliance of environmental monitoring (core zone and buffer zone)	Periodical Air, Water, Noise monitoring Proposed	Carried out as per the proposals

6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	NA	NA	Area is devoid of OB/Waste, hence scope of backfilling/reclamation & rehabilitation doesn't exist and no proposals are given. Periodic monitoring is being carried out by outsourced consultant M/s. Rahul Engineering Laboratory.
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Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	500042 MT proposed as total ROM production for despatch. Grade wise sorting not proposed.	102.090 MT dispatched as Cement grade limestone	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Not Proposed	Nil	Grade wise sorting not required as entire recovered limestone shall be utilized for cement manufacturing
7c	Different grade of mineral sorted out at mines.	Not Proposed	Nil	
7d	Any beneficiation process at mines	Not Proposed	Nil	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	NA	NA	Entire recovered limestone being utilized/being sold to the cement manufacturing plant.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Not Proposed	Thin layer of top soil working & its concurrent use for plantation purpose proposed.	
8b	Concurrent use or storage of topsoil	Concurrent use of top soil proposed	No top soil generated during the year due to very low i.e. 218 tonnes limestone production	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Not Proposed	Nil	No overburden/waste generated during the year
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 during the year 2019-20	Nil	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	200 saplings proposed for plantation	50 saplings planted	
8g	Survival rate	Proposed 80%	Acheived 60%	
8h	Water sprinkling on roads to control airborne dust	Water sprinkling is proposed by water tanker	Regular water sprinkling is done by water tanker	

8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	NA	NA	Aesthetic beauty in and around mine area is not much satisfactory as plantation not done up to that extent. Mine operations not started in full fledged manner due poor market demand.
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Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	M.R. submitted upto-December-2020 A.R. submitted upto-2019-20	Annual Return for the year 2019-20 was submitted within time limit & monthly returns were also submitted online till the date of inspection.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Not Given	Mining operations were not started in full fledge due poor market demand. Only production of 218 tonnes reported during the year 2019-20.	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Given	Oepn cast working/Pit area-0.225Ha Infrastructure-0.010Ha	
9d	Scrutiny of Annual return on afforestation	Given	During the year only 50 saplings were planted with 80% survival rate	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Not Given	Mineral rejects not generated in lease area	

9f	Scrutiny of Annual return on ROM stock and/or graded ore	Given	Cement Grade limestone: O/S-210 MT Production -218 tonnes Despatch-102 tonnes C/S-325.91MT
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Given	Ex-mine price: Cement Grade -Rs 299/MT
9h	Scrutiny of Annual return on fixed assets	Given	Nil
9k	Scrutiny of Annual return on mining machineries	Given	Nil

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 :

(SANJAY M. GIRHE)

Indian Bureau of Mines