

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

MCDR INSPECTION REPORT

Nagpur regional office

Mine file No : MAH/NAG/MN- 305/NGP

Mine code : 40MSH14027

- (i) Name of the Inspecting : **D025**) **S. M. DORLE**
Officer and ID No.
- (ii) Designation : Assistant Mining Engineer
- (iii) Accompanying mine : Shri Kayastha, Agent
Official with
Designation
- (iv) Date of Inspection : 10/10/2018
- (v) Prev.inspection date : 02/03/2017

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **KIRANAPUR (23.67)HECT.**
- (b) **Registration NO.** : **IBM/8864/2012**
- (c) Category : B Manual
- (d) Type of Working : Opencast
- (e) Postal address
- State : MAHARASHTRA
- District : NAGPUR
- Village : KIRANAPUR
- Taluka : SAONER
- Post office : KOTURNA
- Pin Code : 441101
- FAX No. :
- E-mail :
- Phone :
- (f) Police Station :
- (g) First opening date : 14/05/2003
- (h) Weekly day of rest : SUN
2. Address for : M/S VEET RAG HOMES PVT.LTD.
correspondance : 267,GANESH PHADNAVIS BHAVAN,DHARAMPETH,
NAGPUR
3. (a) Lease Number : MSH0294
- (b) Lease area : 23.67
- (c) Period of lease : 50
- (d) Date of Expiry : 07/04/2053
4. Mineral worked : MANGANESE ORE Main

5. Name and Address of the

Lessee : M/S VEET RAG HOMES PVT. LTD.
 267, Ganesh Phadanavis
 Bhavan, Near Trikoni Park
 Dharampeth, Nagpur NAGPUR
 MAHARASHTRA
 Phone:
 FAX :

Owner : SHRI SHAKTI KUMAR M.SANCHETI
 267,GANESH PHADNAVIS
 BHAVAN, NEAR TRIKONI PARK,
 DHARAMPETH, NAGPUR -10
 NAGPUR MAHARASHTRA
 Phone:
 FAX :

Mining Engineer

Name : SHRI S.K. SINGH,Full Time
 Qualification : BE(MINING)
 Appointment/ : 10/04/2004
 Termination date

Mining Engineer

Name : SHRI SHAHID K. BAIG,Full Time
 Qualification : DIPLOMA IN MINING AND MINE SURVEYING
 Appointment/ : 13/05/2004
 Termination date

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	20/03/2003
Plan/Scheme of Mining	:	Modif.of approved Mining Plan	04/03/2005
	:	Mining Scheme rule 12 MCDR1988	03/03/2009
	:	Mining Scheme rule 12 MCDR1988	10/07/2013
	:	MP review under 17(1) MCR 2016	18/07/2018

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	Proposed boreholes have been already drilled in the earlier year
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Nil	Nil	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	Nil	
1e	Balance reserve as on 01/04/20	350055 T	350055 T	
1f	General remarks of inspecting officers on geology, exploration etc			.The existing ore bodies have been proved for strike length but for depth persistency future exploration is required

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Development was proposed in the main pit located in the southern part of the leasebetweenN2 396400 to N2396425 and E295400 to E295435	Nil	During the year 2017-18 there is no production ore , only pumping of water from pit, safe benching work, and cleanliness work in the mines.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Yes	As per the proposals, there are 3 benches in overburden/topsoil and 2 benches in ore each of 6 m height.	
2c	Stripping ratio or ore to OB ratio	1:5 to 1:7	Nil	

2d	Quantity of topsoil generation in m3	Nil	Nil	
2e	Quantity of overburden generation in m3	4500 cum	Nil	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			There are three pits in the area and overall 4 ore bodies have been proved. Main working pit lies in the southern part and other two pits are in the NW and SW part of the lease area. Pit no 1 and pit no 3 should be joined in future for better mining.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Pit no 1 eastern side	Nil	
3b	Quantity of ROM mineral production proposed	2430 MT	Nil	
3c	Recovery of sailable/usable mineral from ROM production	90%	Nil	
3d	Quantity of mineral reject generation	243 MT	Nil	
3e	Grade of mineral rejects generation and threshold value declared.	Mn below 10%	Nil	
3f	Quantity of sub grade mineral generation.	Nil	Nil	
3g	Grade of sub grade mineral generation	Nil	Nil	

3h	Manual / Mechanised method adopted for segregating from ROM	Manual sorting for ROM.	Nil
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	Proposed	Nil
3k	Provision of mining machineries in mineral benches	Excavator /Shovel of 2 cuM bucket capacity for excavation and loading. For transportation , 25 T dumpers / tippers. Except these, Hydraulic Rock Breaker for breaking oversized boulders, Dozer, Water tanker etc. auxilliary machineries for maintenace and housekeeping	Nil
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	6.0 m bench height for overburden benches as well as for mineral benches	As per proposal
3m	Total area covered under excavation/pits	3.7070 ha area was covered under pit. For 2013-14 to 2017-18.	No additional area has been used.
3n	Ore to OB ratio for the pit/mine during the year.	1:4.5	Nil

3o	Total area put in use under different heads at the end of year	10.3248 Hect	9.9208 Hect	
3p	Production of ROM mineral during the last five year period as applicable	2013-14 25200 MT 2014-15 30000 MT 2015-16 5100 MT 2016-17 5100 MT 2017-18 2430 MT	2013-14 2014-15 2015-16 2016-17 2017-18	3389 MT 7248 MT 247 MT 62 MT 0 MT
3q	General remarks of inspecting officers on method of mining etc.	Method of mining adopted is 'A' . The lease has multiple ore bodies. Exploitation has been intermittent and on a lower side in the past due to market Conditions.		

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Proposed	Nil	
4b	Location of topsoil, OB and mineral reject dumps	Proposed in the eastern side between E295500 to E295900	Nil	
4c	Number of dumps within lease area and outside of lease area	At the start of 2013-14 to 2017-18 ,5 top soil and OB/ Waste. dumping was proposed	Nil	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	All dumps are proposed outside the pit limit	As per proposal	

4e	Number of active and alive dumps.	5 active dumps- 1 for top soil, 4 for dumping OB/waste.(2013-14 to 2017-18)	Nil	
4f	Number of dead dumps.	Dumps 5	Dumps 5	
4g	Number of dumps established.	Nil	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there.	Not Proposed	Nil	
4i	Length of Retaining wall or garland drain all along dumps	Nil	Nil	
4j	Number of settling ponds	One for purpose of jigging	Pond available	
4k	Specific comments of inspecting officer on waste dump management			Waste is proposed to be backfilled in the pits after exploitation upto economic depth.

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.	Nil	Nil	
5b	Area under backfilling of mined out area	Nil	Nil	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Nil	Nil	
5d	Total area fully reclaimed and rehabilitated	Nil	Nil	

5e	General remarks of inspecting officers on backfilling and reclamation etc.	Mining pits yet to attained the maturity limit, hence no backfilling/reclamation is carried out.
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Progressive Mine Closure Plan:

Sl.No.	Item	Proposals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	PMCP submitted along with Modified Mining Plan for the period 2013-14 to 2017-18 and has been approved by Indian Bureau of Mines vide letter no. NGP/MN`/MPLN-818/NGP dt 10/07/2013	Submitted as per proposal	
6b	Area available for rehabilitation (ha) .	Nil	Nil	
6c	afforestation done (ha).	720 Sqm	Nil	
6d	No. of saplings planted during the year	100 Nos	As per proposal	
6e	Cumulative no .of plants	Around 800 nos of trees	Around 540 trees due to lower survival rate	
6f	Any other method of rehabilitation	Nil	Nil	
6g	Cost incurred on watch and care during the year	Rs 161000 (As per earlier record)	-----	
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)	Proposed	Yes, being done and proposed to be done quarterly for air, water and noise, but during the last year the same is not being carried out because of no production/development.

6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	No PMCP work has been done in the area as none of the mining pit has attained the maturity so far.
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Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	proposed Grade-wise dispatch and recovery is 90%	Nil	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual	As per proposal	
7c	Different grade of mineral sorted out at mines.	Three grades are being dispatched: Below 25% , 25%-35% and 35%-below 46%	nil	
7d	Any beneficiation process at mines .	None	Nil	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			The grades as and when available in the lease area are readily saleable.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Yes	presently no top soil generated	
8b	Concurrent use or storage of topsoil	Yes	Nil	

8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Nil	Nil	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	In the conceptual stage, backfilling of waste is proposed to restore the land	As per the proposals, it is to be done at conceptual stage	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Nil	Nil	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Yes, done in the Environment Management plan of the approved SOM.	Given	
8g	Survival rate	60%	60%	
8h	Water sprinkling on roads to control airborne dust	Yes	Yes	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			.To keep the aesthetic beauty intact of the area, suppression of dust on the mine is being done by sprinkling of water however the same was not done during the time of inspection..

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
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9a	Status of submission of Monthly and Annual returns	Annual Return for 2017-18 submitted Monthly return received upto October 2018	-----
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Name of Mining Engineer is Shri B.B.Kaistha	-----
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Information Given	-----
9d	Scrutiny of Annual return on afforestation	Information provided 40 Nos. of Plant with 50% survival rate	-----
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Not generated	-----
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Nil	Nil
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Below 25% Rs 1500/-	
9h	Scrutiny of Annual return on fixed assets	Information given under fixed asset for plant and machinery	
9k	Scrutiny of Annual return on mining machineries	Shown under machinery only dumper	

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 26(2)	30/10/2018				
MCDR17 Rule 28(1)	30/10/2018				
MCDR17 Rule 55(1)(3)	30/10/2018				

Date :
(S. M. DORLE)

Indian Bureau of Mines