

MCDR INSPECTION REPORT

General

S. N.	Particulars	Details
	Date of Inspection	18/06/2018
1	Name of the Mine	Kirnapur Manganese Mine
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	Reserve Forest –NIL Hect Private Land - 2.57 Hect. Govt Land 21.10 Hect Total -23.67 Hect
3	Mine code	40MSH14027
4	IBM Registration Number under rule 45 of MCDR, 1988	IBM/8864/2012
5	Name of the lessee, Address, phone, email and fax number	M/S VEET RAG HOMES PVT. LTD. 5. Name and Address of the Lessee : 267, Ganesh Phadanavis Bhavan, Near Trikoni Park Dharampeth, Nagpur NAGPUR MAHARASHTRA
6	Village	Kirnapur
7	Taluka/Mandal	Saoner
8	District	Nagpur
9	Pin code	-
10	State	Maharashtra
11	Post office	KOTURNA
12	Nearest police station	-
13	Nearest Railway station	-
14	Date of Grant of Mining Lease	08.04.2003
15	Date of Execution	
16	Date of opening of Mine	14/05/2003
17	Date of first Renewal, if applicable and its period & expiry	07/04/2033
18	Date of second Renewal, if applicable and its period & expiry	-
19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	-
20	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	SHRI SHAKTI KUMAR M.SANCHETI 267,GANESH PHADNAVIS BHAVAN, NEAR TRIKONI PARK, DHARAMPETH, NAGPUR -10 NAGPUR MAHARASHTRA
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	B.P Kaista , BE, From 14.2.2004 ,C/o M/S VEET RAG HOMES PVT. LTD.,
22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Ranjeet Singh C/o M/S VEET RAG HOMES PVT. LTD., From January 2015
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	B.P Kaista , BE, From 14.2.2004 ,C/o M/S VEET RAG HOMES PVT. LTD.,
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	Yes
25	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	Fresh under rule 22 MCR1960 20/03/2003 Modified .of approved Mining Plan04/03/2005
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	Mining Scheme rule 12 MCDR1988 03/03/2009 Scheme of Mining ,2012-13 to 2017-18 Approved vide letter no NGP/MN/MPLN-818/NGP dated 10/07/2013 (RMP has been submitted by the party for the period 2018-19 to 2022-23 and the same is under process)

27	Mineral(s) granted in lease and proved for mining	Manganese
28	Method of Mining(Open cast, Underground)	Open cast
29	Category (Fully Mechanised, Others or Manual)	OTFM , Category A
30	Captive/Non Captive	Non -Captive

Exploration

SN	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 Agency & 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	There is a hillock in the northern part of the main working pit which could not be explored due to approach problems as it is around 50m high, approximately 5-6ha area is balance for future exploration
1e	Balance reserves as on 01.04.2018	311291.79 T		
1f	General remarks of inspecting officer on geology, exploration etc.	. The existing ore bodies have been proved for strike length but for depth persistency future exploration is required		

Development

SN	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 lease between N2396400 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 mineral (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 m ³	nil	nil	
2e	Quantity of overburden generation in m ³	4500(cum)	nil	
2f	General remarks of inspecting officer 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

SN	Item	Proposals	Actual work	Remarks
3a	Number of pits proposed for production	Pit no 1 eastern side	nil	During the year

SN	Item	Proposals	Actual work	Remarks
				2017-18 there is no production ore , only pumping of water from pit, safe benching work, and cleanliness work in the mines.
3b	Quantity of ROM mineral production proposed	2430 T	nil	
3c	Recovery of salable/usable mineral from ROM production	90%	nil	
3d	Quantity of mineral reject generation	243T	nil	
3e	Grade of mineral reject 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 & carried out for sub-grade mineral and reject	nil	nil	
3j	Provision of drilling & blasting in mineral benches	Yes	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	Bench height is more or less same in the pits and there Are some collapses and merging of benches due to no working..
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	
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 last five-year period, as applicable	2013-14 25200 2014-15 30000 2015-16 5100 2016-17 5100 2017-18 2430	2013-14 3389 2014-15 7248 2015-16 247 2016-17 62 2017-18 0	

SN	Item	Proposals	Actual work	Remarks
3q	General remarks of inspecting officer on method of mining etc.	Method of mining adopted is 'A 'Semi-mechanized or OTFM. 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

SN	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	Yes	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.
4b	Location of topsoil, OB & mineral reject dumps	proposed in the eastern side between E295500 to E295900	nil	
4c	Number of dumps within lease area and outside 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 & alive dumps	5 active dumps- 1 for top soil 4for dumping OB/waste.(2013-14 to 2017-18)	Nil	
4f	Number of dead dumps	dumps:-5		
4g	Number of dumps stabilised	nil		
4h	Whether Retaining wall or garland drain all along dumps are there	No proposal	nil	
4i	Length of Retaining wall or garland drain all along dump	nil		
4j	Number of settling ponds	One for the purpose of jigging	pond available at mine site	
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

SN	Item	Proposals	Actual work	Remarks
5a	Status on 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 mined out area (Rule 32)		nil	
5d	Total area fully reclaimed & rehabilitated		nil	

5e	General remarks of inspecting officer on backfilling, 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

SN	Item	Proposals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly - Rule 23E(2). Details should be given in the format as given in Annexure-20.	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		
6b	Management of worked/mined out benches i) Area available for rehabilitation (ha) ii) Afforestation done (ha) iii) No. of saplings planted during the year iii) Cumulative no. of plants v) Any other specific method of rehabilitation vi) Cost incurred on watch & care during the year	0.3220 (2013-14 to 2017-18) 720sqm 100 Around 800 Trees No 161000 (as per earlier record)	During the year nil Nil 100 Around 540 trees due to lower survival rate No other method of rehabilitation	Survival rate 60%
6c	Compliance on reclamation and rehabilitation by backfilling i) Voids available for backfilling (L X B X D) ii) Void filled by waste/tailings iii) Afforestation on the backfilled area iv) Rehabilitation by making water reservoir v) Any other specific means	nil	nil	
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Methof of rehabilitation	nil	nil	
6e	Compliance of Environmental monitoring (core zone & buffer zone)	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.		
6f	General remarks of inspecting officer on PMCP compliance & progressive closure operations	No PMCP work has been done in the area as none of the mining pit has attain the maturity so far.		

Mineral Conservation

SN	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Grade-wise dispatch and recovery is 90%		
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	manual		
7c	Different grade of mineral sorted out at mines	Three grades are being dispatched: Below 25% ,25%-35% and35%-below 46%nil		As per annual return
7d	Any beneficiation process at mines	no		
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	The grades as and when available in the lease area are readily saleable.		

Environment

SN	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	yes	No top soil generated	no lateral developments done in themine.
8b	Concurrent use or storage of topsoil	yes	nil	no top soil generated
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	no	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)	no	nil	
8f	Baseline information on existence of plantation & additional plantation	Yes, done in the Environment Management plan of the approved SOM.		
8g	Survival rate	60%		
8h	Water sprinkling on roads to control airborne dust	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

SN	Item	Comments	Remarks
9a	Status of submission of Monthly and Annual returns	M.R. Submitted up to May2018 A.R. submitted not submitted	Advise letter send to State DGM to take action under rule 45(7)(a) of MCDR 2017

SN	Item	Details given in A.R.	Observation of I/Officer	Remarks
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	nil	nil	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	nil	nil	
9d	Scrutiny of Annual return on afforestation	nil	nil	
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	nil	nil	
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 & production cost	nil	nil	
9i	Scrutiny of Annual return on fixed assets	nil	nil	
9k	Scrutiny of Annual return on mining machineries	nil	nil	

Details of violations observed during current inspection and compliance position of earlier violation pointed out:-

A) Status of Violation of earlier inspection nil

B) violation observed during the inspection 45(5) (c)

Sr. Mining Geologist

(Name of inspecting officer with designation and date)