

MCDR INSPECTION REPORT

For the Inspection of Kachurwahi Wadegaon Manganese Mine (78.50 ha) carried out by the undersigned on 08/12/2018 in the presence of Shri C. M. Singh, Nominated Owner (for disposal of Modifications in the Approved Mining Plan)

Exploration

SN	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	8 Boreholes were proposed in last approved SOM	Nil	Mining Operations haven't started in the mine for want of EC and acquisition of land.
1b	Exploration over lease area for Geological axis 1 or 2.	G-1 & G-2	G-1 & G-2	As per the approved Mining Plan document.
1c	Exploration Agency & Expenditure in lakh Rupees during the year	Lessee himself.	Nil	
1d	Balance area to be explored to bring Geological axis in 1 or 2	72.80 ha area is still unexplored out of total lease area of 78.50 ha	No exploration work carried out during the year	
1e	Balance reserves as on 01.04.20...	As on 01.04.2018, Reserves are: 111- 150101 T 222- 298028 T Total: 448129 T		
1f	General remarks of inspecting officer on geology, exploration etc.	As per the sample analysis done for the surface samples collected during the inspection, the area also has di-oxide grade of Manganese occurring in the lease area. Exploration has been carried out for only 5.70 ha area out of the total lease area. Hence the area needs to be explored in detail for identification of mineralized zone as well as for systematic and scientific development of the deposit.		

Development

SN	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area	Development was proposed in Kachurwahi Section mainly for expansion of existing pit.	Nil	
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	Yes	Nil	
2c	Stripping ratio or ore to OB ratio	1:0.25	Nil	
2d	Quantity of topsoil generation in m ³	Nil	Nil	
2e	Quantity of overburden generation in m ³	2017-18: 41028 cum	Nil	
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	No comments on development as mining operations are not yet commenced in the lease area.		

Exploitation

SN	Item	Proposals	Actual work	Remarks
3a	Number of pits proposed for production	One Pit	Nil	
3b	Quantity of ROM mineral production proposed	For 2017-18: 12440 T ROM and 1000 T from Dumps	Nil	
3c	Recovery of salable/usable mineral from ROM production	95% from Opencast and 50% from	Nil	

SN	Item	Proposals	Actual work	Remarks
		Underground (Production during development/Winning)		
3d	Quantity of mineral reject generation	5% of the ROM shall be Mineral rejects	Nil	
3e	Grade of mineral reject generation and threshold value declared	+10% -25% Mn	Nil	
3f	Quantity of sub-grade mineral generation	Not Applicable	Nil	
3g	Grade of sub-grade mineral generation	Not Applicable	Nil	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanized screening and Jigging	Nil	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	No such proposals	Nil	
3j	Provision of drilling & blasting in mineral benches	Yes, Drilling by 105-110 dia Crawler Mounted Wagon Drills, Blasting through Large dia Slurry/Emulsion.	Nil	
3k	Provision of mining machineries in mineral benches	Yes	Nil	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Bench height of 6.0 m is proposed which is as per Category 'A' OTFM	Nil	
3m	Total area covered under excavation/pits	3.38 ha of old opencast pit with additional requirement of 0.723 ha during 2016-17 and 2017-18. Thus, total area under excavation till 2017-18 is proposed as 4.103 ha	3.38 ha as working hasn't yet started.	
3n	Ore to OB ratio for the pit/mine during the year	1:0.25	Nil	
3o	Total area put in use under different heads at the end of year	Area under: Excavation- 4.103 ha Mineral Storage- 0.02 ha Infrastructure- 0.02 ha Roads-0.01 ha Greenbelt- 0.02 ha Others (Settling tank etc)- 0.015 ha Total- 4.188 ha	Area under: Excavation- 3.38 ha Total- 3.38 ha	
3p	Production of ROM mineral during last five-year period, as applicable	2016-17- 12000 T and 1000 T from Dumps 2015-16- 1260 T and 1000 T from Dumps 2014-15- No proposals 2013-14- No proposals 2012-13- No proposals	2016-17- Nil 2015-16- Nil 2014-15- Nil 2013-14- Nil 2012-13- Nil	
3q	General remarks of inspecting officer on method of mining etc.	No comments on development as mining operations are not yet commenced in the lease area.		

Solid Waste Management-Dumping

SN	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	No such proposals	Nil	
4b	Location of topsoil, OB & mineral reject dumps	No Top soil dump is proposed as no top soil available in the proposed working area. OB/Waste generated shall be backfilled in already exploited Old pit and Mineral rejects are proposed for extraction of mineralized content through mechanical means.	Nil	
4c	Number of dumps within lease area and outside lease area	Old mineralized dumps available within lease area alongside the old pit. Apart from that no fresh dumps proposed.	Nil	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Not applicable	Nil	
4e	Number of active & alive dumps	One mineralized dump available shall be alive for extraction of mineralized content. Apart from that no dumps proposed.	Nil	
4f	Number of dead dumps	Nil	Nil	
4g	Number of dumps stabilised	Not applicable	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there	No such proposals	Nil	
4i	Length of Retaining wall or garland drain all along dump	Nil	Nil	
4j	Number of settling ponds	Three small settling tanks in the western part of the lease area.	Nil	
4k	Specific comments of inspecting officer on waste dump management	No comments on development as mining operations are not yet commenced in the lease area.		

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	Full extraction. Already exploited and mined out Old worked out area shall be backfilled through generated waste in the proposal period. Also, part backfilling is proposed around Winzes.	Nil	

5b	Area under backfilling of mined out area	2.0 ha	Nil	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	No top soil available in the proposed working area.	Nil	
5d	Total area fully reclaimed & rehabilitated	Nil	Nil	
5e	General remarks of inspecting officer on backfilling, reclamation etc	No comments on development as mining operations are not yet commenced in the lease area.		

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.	Yes	No	Mining operations are not yet commenced in the lease area and the area is recommended to the state government for determination.
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 iv) Cumulative no. of plants v) Any other specific method of rehabilitation vi) Cost incurred on watch & care during the year	(i) Nil (ii) 0.02 ha (iii) 200 saplings (iv) 1000 Saplings (v) No such proposals (vi) Rs 10000 per annum	Nil	
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	(i) 2.0 ha (ii) 2.0 ha (iii) No such proposals (iv) No such proposals (v) No such proposals	Nil	
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	(i) No such proposals (ii) No such proposals (iii) No such proposals	Nil	
6e	Compliance of Environmental monitoring (core zone & buffer zone)	No such proposals till the grant of EC	Nil	
6f	General remarks of inspecting officer on PMCP compliance & progressive closure operations	No comments on development as mining operations are not yet commenced in the lease area.		

Mineral Conservation

SN	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Grade-wise mineral dispatch	Nil	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Mechanical screening and jigging	Nil	

7c	Different grade of mineral sorted out at mines	+10% Mn to Di-oxide grade	Nil	
7d	Any beneficiation process at mines	Jigging	Nil	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	No comments on development as mining operations are not yet commenced in the lease area.		

Environment

SN	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No top soil available in the proposed working area	Nil	
8b	Concurrent use or storage of topsoil	Not applicable	Nil	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No Top soil dump is proposed as no top soil available in the proposed working area. OB/Waste generated shall be backfilled in already exploited Old pit and Mineral rejects are proposed for extraction of mineralized content through mechanical means.	Nil	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Yes	Nil	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Exploited pit is proposed for restoration and reclamation	Nil	
8f	Baseline information on existence of plantation & additional plantation	Furnished in the Mining Plan	Furnished in the Mining Plan	
8g	Survival rate	-	Nil	
8h	Water sprinkling on roads to control airborne dust	Yes	Nil	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	No comments on development as mining operations are not yet commenced in the lease area.		

Compliance of Rule 45

SN	Item	Comments	Remarks
9a	Status of submission of Monthly and Annual returns	M.R. Submitted Online upto Dec'18 A.R. submitted Online upto 2017-18	

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	Mining Engineer: Shri Arun Deoras Geologist: Shri Gupte Manager: Nil	Shri Arun Deoras is appointed Mining Engineer for the company and has been reported here as it is. Further, appointment of statutory persons shall	Mining operations are not yet commenced in the lease area and the area is

			be made upon opening of the mine.	recommended to the state government for determination.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Nil	Already existing old pit has not been mentioned in the returns which was advised to furnish as per the Mining Plan.	
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:-

Mining operations are not yet commenced in the lease area and the area is recommended to the state government for determination.

(Ashish Mishra)
Sr. ACOM

Date: 06.02.2019