

MCDR INSPECTION REPORT

General

SN	Particulars	Details
	Date of Inspection	19.03.2016
1	Name of the Mine	Bhandarbodi Manganese Mine
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	17.51 Hector Non-forest
3	Minecode	40MSH14046
4	IBM Registration Number under rule 45 of MCDR, 1988	IBM/17993/2014
5	Name of the lessee, Address, phone, email and fax number	M/s Tirupati Minerals, Pro.Manish Kumar Agrawal
6	Village	A-48, OMAXE, RPS Green Valley
7	Taluka/Mandal	Faridabad
8	District	Faridabad
9	Pincode	121001
10	State	Haryana
11	Post office	Sector 41/42
12	Nearest police station	Faridabad
13	Nearest Railway station	Faridabad
14	Date of Grant of Mining Lease	31.01.2011
15	Date of execution of Mining Lease	09.10.2012
16	Date of opening of Mine	27.02.2014
17	Date of first Renewal, if applicable and its period & expiry	Not Applicable
18	Date of second Renewal, if applicable and its period & expiry	Not Applicable
19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	Not Applicable
20	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Manish Kumar Agrawal
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	None
22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Shri S.R. Nair, 135, Friends Colony, Katol Road, Nagpur-13, Mo:9325334591, Mail : raman1941.2009@gmail.com
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	None
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	Not Appointed
25	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	NGP/MN/MPLN-991/NGP-28, dated 28.07.2008 Modified Mining Plan Submitted on 23.05.2014 which returned to the party to submit document under Minerals (Other than Atomic and Hydrocarbon Energy Minerals) Concession Rules-2016
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	NotApplicable
27	Mineral(s) granted in lease and proved for mining	Manganese Ore
28	Method of Mining(Opencast, Underground)	Opencast
29	Category (Fully Mechanised, Others or Manual)	Semi-Mechanized
30	Captive/Non Captive	Non Captive

Scientific Mining: Compliance of proposals of approved mining plan/scheme of mining. (Duplication of information in existing TMIS data sheets and draft write up has been avoided.)

Exploration

SN	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	-	-	
1b	Exploration over lease area for Geological axis 1 or 2.	-	-	
1c	Exploration Agency & Expenditure in lakh Rupees during the year	-	-	
1d	Balance area to be explored to bring Geological axis in 1 or 2	-	-	
1e	Balance reserves as on 01.03.2016	81404	25667	MT
1f	General remarks of inspecting officer on geology, exploration etc.			

Development

SN	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area			
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	-	-	
2c	Stripping ratio or ore to OB ratio	1:7	1:18	
2d	Quantity of topsoil generation in m ³	21585 m ³	2160 ³	
2e	Quantity of overburden generation in m ³	271435m ³	492273m ³	
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	Nil	Nil	

Exploitation

SN	Item	Proposals	Actual work	Remarks
3a	Number of pits proposed for production	2	2	
3b	Quantity of ROM mineral production proposed	51930 MT	51267 MT	
3c	Recovery of salable/usable mineral from ROM production	40000 MT	25667 MT	
3d	Quantity of mineral reject generation	2595	1340	
3e	Grade of mineral reject generation and threshold value declared	Nil	Nil	
3f	Quantity of sub-grade mineral generation	7791	3291	
3g	Grade of sub-grade mineral generation	7% Mn	6.5 % Mn	
3h	Manual / Mechanised method adopted for segregating from ROM	Manual	Manual	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	Nil	Only jigging and screening adopted	
3j	Provision of drilling & blasting in mineral benches	yes	yes	
3k	Provision of mining machineries in mineral benches	Yes	yes	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes		
3m	Total area covered under excavation/pits	17595 m ²	17595 m ²	
3n	Ore to OB ratio for the pit/mine during the	1:7	1:19	

SN	Item	Proposals	Actual work	Remarks
	year			
3o	Total area put in use under different heads at the end of year	6.88 Hect	3.95	Hect
3p	Production of ROM mineral during last five-year period, as applicable	51930	51267	MT
3q	General remarks of inspecting officer on method of mining etc.	Nil		

Solid Waste Management-Dumping

SN	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	North west	North west	
4b	Location of topsoil, OB & mineral reject dumps	North west	North west	
4c	Number of dumps within lease area and outside lease area	3	3	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	North-west and South east	As per proposal	
4e	Number of active & alive dumps	Nil	2+ 1 Mineral Reject	
4f	Number of dead dumps	Nil	1	
4g	Number of dumps stabilised	Nil	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there	Nil	Garland drain	
4i	Length of Retaining wall or garland drain all along dump	Nil	650 m	
4j	Number of settling ponds	Nil	2 Nos	
4k	Specific comments of inspecting officer on waste dump management	Nil		

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	Nil	
5d	Total area fully reclaimed & rehabilitated	Nil	Nil	
5e	General remarks of inspecting officer on backfilling, reclamation etc	No backfilling start at present		

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.	Nil	Nil	
6b	Management of worked/mined out benches			
	i) Area available for rehabilitation (ha)	None	None	
	ii) Afforestation done (ha)	0.50	0.50	
	iii) No. of saplings planted during the year	100	100	

SN	Item	Proposals	Actual work	Remarks
	iv) Cumulative no. of plants v) Any other specific method of rehabilitation vi) Cost incurred on watch & care during the year	100 None 5 lakh	100 None 5 lakh	
6c	Compliance on reclamation and rehabilitation by backfilling i) Voids available for backfilling (LxBxD) ii) Void filled by waste/tailings iii) Afforestation on the backfilled area iv) Rehabilitation by making water reservoir v) Any other specific means	Not Applicable	Not Applicable	
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	None	None	
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Given	Work is in progress	
6f	General remarks of inspecting officer on PMCP compliance & progressive closure operations	Nil	Nil	

Mineral Conservation

SN	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Gradewise Sorting	Gradewise Sorting	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Manual	Manual	
7c	Different grade of mineral sorted out at mines	Manual	Manual	
7d	Any beneficiation process at mines	Screening and jigging	Screening and jigging	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	Nil		

Environment

SN	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Kept separately	As per proposal	
8b	Concurrent use or storage of topsoil	Will be used at the time of reclamation	NA	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Kept Separately		
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	After full extraction of minerals		
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	After full extraction of minerals		
8f	Baseline information on existence of plantation & additional plantation		100 plants already planted	
8g	Survival rate			
8h	Water sprinkling on roads to control airborne dust			
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			

Compliance of Rule 45

SN	Item	Comments	Remarks
9a	Status of submission of Monthly and Annual returns	M.R. Submitted upto Dec 2015 A.R. submitted upto -----	

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	Annual return not submitted for the year 2012-13, 2013-14, 2015-16		
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.			
9d	Scrutiny of Annual return on afforestation			
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)			
9f	Scrutiny of Annual return on ROM stock and/or graded ore			
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost			
9i	Scrutiny of Annual return on fixed assets			
9k	Scrutiny of Annual return on mining machineries			

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

Violation of rule 45(5)(a) of MCDR 1988 for non-submission of monthly return for the year 2012-13, 2013-14 and 2014-15 violation of rule 45(5)(b) of MCDR 1988 for non-submission of annual return for the year 2012-13, 2013-14, 2015-16 and violation of rule 23(E2) for non-submission report pertaining to the year 2014-15 found violated and communicated to the party vide letter no. MAH/NAG/MN-319/NGP Nagpur, dt. 12.07.2016.

Nagpur

Dated 21.07.2016

(S.M.Dorle)
Asst. Mining Engineer
(Name of inspecting officer
with designation and date)