INDIAN BUREAU OF MINES MINERALS DEVELOPMENT AND REGULATION DIVISION

Check up inspection REPORT

Nagpur regional office

Mine	file No : MP/BGT/MN-6/	NG	P Mine code : 40MPR01002
(i)	Name of the Inspecting Officer and ID No.	:	PQ31) RAJNEESH PUROHIT
(ii)	Designation	:	Regional Controller Mines
(iii)	Accompaning mine Official with Designation	:	Shri V.R. Parida (Agent & DGM Mines),Shri U.S. Bhati
(iv)	Date of Inspection	:	30-AUG-19
(v)	Prev.inspection date	:	
	PAI	RT-	I : GENERAL INFORMATION
(a)	Mine Name	:	BALAGHAT
(b)	Registration NO.	:	IBM/5711/2011
(C)	Category	:	A Mechanised
(d)	Type of Working	:	Underground
(e)	Postal address		0114019204114
	State	:	MADHYA PRADESH
	District	:	BALAGHAT
	Village		BHARWELI
	Taluka		BALAGHAT
	Post office		BHARWELI
	Pin Code	:	
	FAX No. E-mail	:	www.weil.mic.in/www.ba0weil
	Phone	:	www.moil.nic.in/mm.bg@mail 07122890050 0712245185
		•	
(f)	Police Station	:	
(g)	First opening date	:	30-JUN-03
(h)	Weekly day of rest	:	SAT
	ess for espondance	:	
(a)	Lease Number	:	MPR0579
(b)	Lease area	:	.79
(C)	Period of lease	:	20

(d) Date of Expiry : 30-JUN-22

1.

2.

3.

MPR0574 182.3 20 30-JUN-22

Main

4. Mineral worked : MANGANESE ORE

5. Name and Address of the Lessee : M/S MANGANESE ORE (INDIA) LTD. 3, MOUNT ROAD EXTENSION POST BOX NO. 34, NAGPUR (MP) NAGPUR MAHARASHTRA Phone: FAX : : SH.G.P.KUNDARGI Owner M/S MANGANESE ORE INDIA LTD. MOIL BHAVAN, 1A, KATOL ROAD, NAGPUR-440013 NAGPUR MAHARASHTRA Phone: 0712-2532252 FAX : 0712-252499 Agent : M P PATEL BALAGHAT MINE PO BALAGHAT BALAGHAT MADHYA PRADESH Phone: 245187 FAX : 245184 Mining Engineer Name : Shri B.S.KARPE, Part Time Qualification : B.E. (MINING) Appointment/ : 01-OCT-07 Termination date Geologist : S. K. SARKAR, Full Time Name Oualification : M TECH(APPLIED GEOLOGY) Appointment/ : 06-SEP-06 Termination date : Renewal under rule 22 MCR1960 6. Date of approval of Mining 15-OCT-03 Plan/Scheme of Mining Modif.of approved Mining Plan 28-JAN-06 Renewal under rule 24 MCR1960 28-AUG-06 Mining Scheme rule 12 MCDR1988 18-JAN-08 Mining Scheme rule 12 MCDR1988 22-MAY-08 03-MAR-11 Modif.approved Mining Scheme

Mining Scheme rule 12 MCDR1988 03-OCT-13

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Total 5 Nos. With 3356 Mtrs. (Bore Hole proposed in SOM from year 2017-18 to 2021-22)	7 Nos. Bore hole Completed with 3370 Mtrs. (during SOM Period, From 2017-18 to 2018-19)	
1b	Exploration over lease area for geological axis 1 or 2	Total 5 Nos. With 3356 Mtrs. (Bore Hole proposed in SOM from year 2017-18 to 2021-22)	7 Nos. Bore hole Completed with 3370 Mtrs. (during SOM Period, From 2017-18 to 2018-19)	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	MOIL LIMITED	MOIL LIMITED	
ld	Balance area to be explored to bring Geological axis in 1 or 2	NA	NA	
le	Balance reserve as on 01/04/20		111=10.90 Mllion T. 211=2.5 Mllion T. & 332=10.5Mllion T.	AS ON 01/04/2019
1f	General remarks of inspecting officers on geology, exploration etc			The proposed drilling has been done.

Development :

Sl.No. Item

Propasals

Actual work

Remarks

Location of Mine is worked by 2a Mine is Underground Cut and fill worked by development w.r.t.lease area Underground method. Proposed & Cut and fill actual development is enclosed as Ann I method. Proposed & actual development is enclosed as Ann I 2b Separate benches Mine is Mine is worked by Underground Cut and fill in topsoil, worked by method. Proposed & Underground overburden and minerals (Rule Cut and fill actual development is 15) method. enclosed as Ann I Proposed & actual development is enclosed as Ann I U/G MINE. 2c Stripping ratio 1:43 1:34 or ore to OB ratio 2d Quantity of U/G MINE. NA NA topsoil generation in m3 Quantity of 10606 M3 9943M3 U/G MINE. 2e overburden generation in m3 2f General remarks The mine is run by of inspecting shaft. Waste rock officers on are mica schist, development of Quartz shist pit w.r.t. type etc.Development in mtr is proposed of deposit etc 2450 mtr. but actually done is only 853 mtr. violation is given.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks	

3a	Number of pit proposed for production	Under ground Mine.	Under ground Mine.	Working with shafts.
3b	Quantity of ROM mineral production proposed	0.455 Million T.	0.328 Million T.	
3с	Recovery of sailable/usable mineral from ROM production	70%	70%	
3d	Quantity of mineral reject generation			Subgrade.
3е	Grade of mineral rejects generation and threshold value declared.			Subgrade.
3f	Quantity of sub grade mineral generation.	91179 m3	12791 m3	
Зg	Grade of sub grade mineral generation	10-20% Mn.	10-20% Mn.	For future use.
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised.	Mechanised.	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	NA	NA	

Drilling in the drivage Зi Provision of Drilling in drilling and the drivage for haulage road, cross blasting in cut and ore drive will for haulage mineral benches road, cross be done by pneumatically cut and ore operated jack hammer of drive will be 33 mm dia of the length of 1.5 m. done by pneumatically operated jack hammer of 33 mm dia of the length of 1.5 m. Provision of Drilling in 3k Drilling in the drivage mining the drivage for haulage road, cross for haulage machineries in cut and ore drive will mineral benches road, cross be done by pneumatically cut and ore operated jack hammer of drive will be 33 mm dia of the length done by of 1.5 m. pneumatically operated jack hammer of 33 mm dia of the length of 1.5 m. Whether height SDL -65 HP SDL -65 HP with 0.66 M3, 31 of benches in with 0.66 M3, LHD- 4 T in U/G workings LHD-4 T in overburden and mineral suitable U/G workings for method of mining proposed in MP/SOM Total area 2.633 ha. 2.633 ha. road, 13.5 ha. 3m covered under road, 13.5 ha. mining, 6.435 ha. dumps. excavation/pits mining, 6.435 5.64 ha. mineral. & ha. dumps. 14.977 infrastracture. 5.64 ha. mineral. & 14.977 infrastracture 1:43 Ore to OB ratio 1:34 3n for the pit/mine during the year.

30	Total area put in use under different heads at the end of year	mining, 6.435	2.633 ha. road, 13.5 ha. mining, 6.435 ha. dumps. 5.64 ha. mineral. & 14.977 infrastracture.
3р	ROM mineral	MT. 2015-16 =0.538 MT.	17=0.297MT. 2017- 18=0.326MT.2018-

Зq	General remarks	It is well	It is well developed
	of inspecting	developed mine	mine worked with shafts,
	officers on	worked with	Cut & fill mining is
	method of mining	shafts, Cut &	practised by stoping.
	etc.	fill minig is	
		practised by	
		stoping.	

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	NA	NA	
4b	Location of topsoil, OB and mineral reject dumps	NA	NA	
4 c	Number of dumps within lease area and outside of lease area	4 no.	ACTIVE DUMP= 1 ,Inactive dumps=3	old dumps.

4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	NA	NA	
4e	Number of active and alive dumps.	NA	NA	
4f	Number of dead dumps.	NA	NA	
4g	Number of dumps established.	NA	NA	
4h	Whether Retaining wall or garland drain all along dumps are there.	NA	NA	
4i	Length of Retaining wall or garland drain all along dumps	NA	NA	
4 j	Number of settling ponds	NA	NA	
4 k	Specific comments of inspecting officer on waste dump management		37 (2): The protective measures to prevent flow of material from reject dump near south west of FM plant were not in place.	37 (2): The protective measures to prevent flow of material from reject dump near south west of FM plant were not in place.

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.	Extraction by developing stops.	Extraction by developing stops. recovery around 70%.	IN U/G Backfilling by Waste (Genrated During Development) and Hydraulic Sand stowing

5b	Area under backfilling of mined out area	NA	NA	IN U/G Backfilling by Waste (Genrated During Development) and Sand .
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	NA	NA	U/G MINING.
5d	Total area fully reclaimed and rehabilitated	NA	NA	U/G MINING.
5e	General remarks of inspecting officers on backfilling and reclamation etc.	NA	NA	It is U/G mine cut & fill stoping practised sand filling is done.

Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
ба	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).			
6b	Area available for rehabilitation (ha) .	NA	NA	
6c	afforestation done (ha).		planation done in previos SOM period	143.375 На.
6d	No. of saplings planted during the year	NA	NA	
бе	Cumulative no .of plants			400883 Nos.
6f	Any other method of rehabilitation	NIL	NIL	

бg	Cost incurred on watch and care during the year	1000M3/Yrs.	9943 m3	U/G mines.
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	NA	NA	U/G MINING.
Gi	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	NA	NA	U/G MINING.
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestati on on backfilled area	NA	NA	U/G MINING.
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	NA	NA	U/G MINING.
61	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	NA	NA	U/G MINING.
бm	Compliance of rehabilitation of waste land within lease (i)afforestation	NA	NA	

6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	NA.	NA.	
60	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	NA	NA	
бр	Compliance of environmental monitoring (core zone and buffer zone)	yes.	DONE.	
бq	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			It is U/G mine. Cut & fill is practised.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	grade wise sorting.	1. Below 25% Mn 2. 25% to 35% Mn. And 46% and above Mn. grade wise sorting.	
7b	Method of grade- wise mineral sorting i.e. manual or mechanical.	Mechanised	Mechanised	
7c	Different grade of mineral sorted out at mines.	NA	1. Below 25% Mn 2. 25% to 35% Mn. And 46% and above Mn	
7d	Any beneficiation process at mines	NA	Yes washing and jigging plant is there.	

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7e General remarks NA of inspecting officer on Mineral conservation and beneficiation issues

The ore is sorted in various grades and then sold.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	NA	NA	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	For subgrade	yes maintained.	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	NA	NA	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	NA	NA	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	2000 trees / YEAR. as land available.	planted 1000 trees with 80% survival.	
8g	Survival rate	80%	80%	

8h	Water sprinkling NA on roads to control airborne dust	NA	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Mine is a developed U/G Mine.	Mine is a developed U/G Mine.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	is submitted From H2 on 17/07/2019 and	Annual return is submitted From H2 on 17/07/2019 and Monthly return is submitted From F2 on 09/08/2019	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	yes.	Given, Manager; Mr. Bhati. Geologist : Mr. Rangdale. ME : N.V. Khedekar.	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.		No , 35.453 ha. in infrastructure.	U/G MINES.
9d	Scrutiny of Annual return on afforestation		1000 plants , 98 % survival.	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)		No rejects generated.	

9f Scrutiny of Yes , graded ore stocks Discrepance was Annual return on totalling 19723 T. observed in ROM stock and/or production of ore graded ore figures in return violation was given.It was defferent at three places. 9g Scrutiny of NA. Ex mine -n grade 25-Annual return on 2200 Rs/T. 25-35% mn. sale value, Ex. 4477 Rs/T. CoP-5960.96, Mine price and 46-35% mn. 20835 Rs./T production cost 9h Scrutiny of NA. Fixed Asscts: Rs. Annual return on 772741446/fixed assets Scrutiny of NA 9k yes the list is Annual return on given.Fan,FE loader mining pumps etc. Fixed Asscts: machineries Value of FA Rs.772741446/-Discrepance was observed in production of ore figures in return violation was given . It was defferent at three places.

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 :

(RAJNEESH PUROHIT)

Indian Bureau of Mines