INDIAN BUREAU OF MINES MINERALS DEVELOPMENT AND REGULATION DIVISION

MCDR INSPECTION REPORT

Nagpur regional office

	Mine	file No : MAH/NAG/MN-	308,	NGP Mine code : 40MSH14030
	(i)	Name of the Inspecting Officer and ID No.	J :	2Q4) SNEHANKIT H. CHATTE
	(ii)	Designation	:	Assistant Mining Engineer
	(iii)	Accompaning mine Official with Designation	:	Shri Deependra Nath, Legal Heir of Late Ravindra Nath
	(iv)	Date of Inspection	:	18-Nov-21
	(v)	Prev.inspection date	:	05-Mar-20
		PA	RT-	I : GENERAL INFORMATION
1.	(a)	Mine Name	:	KIRNAPUR (2.88H)
	(b)	Registration NO.	:	IBM/5535/2011
	(c) (d) (e) (f) (g) (h)	Category Type of Working Postal address State District Village Taluka Post office Pin Code FAX No. E-mail Phone Police Station First opening date Weekly day of rest		
2.		ess for espondance		58, THE MALL, CANTONMENT KAMPTEE
3.	(c)	Lease area	:	
4.	Mine	ral worked	:	MANGANESE ORE Main

5.	Name and Address of the		
	Lessee :	RAVINDRA NATH NAGPUR MAHARASHTRA Phone:	
		FAX :	
	Owner :	RAVINDRA NATH NAGPUR MAHARASHTRA	
		Phone:	
		FAX :	
	Mining Engineer		
	Name :	RAVISHANKAR GHANGARE,Full Time	
	Qualification :	DIP. IN MINING & MINE SURVEYING	
	Appointment/ : Termination date	20-Nov-05	
6.	Date of approval of Mir Plan/Scheme of Mining	Mining Scheme rule 12 MCDR1988 Mining Scheme rule 12 MCDR1988 MP modif under 17(3) MCR 2016	27-Jan-05 30-Aug-11 14-Jul-16 12-Jul-18
		MP review under 17(1) MCR 2016	13-Aug-20

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
la	Backlog of previous year	Five exploratory boreholes were proposed in the year 2020-21	Lessee has not carriedout any exploration in the present plan period	Violation is pointed out for the same under Rule 11(1) of MCDR-2017
1b	Exploration over lease area for geological axis 1 or 2	Exploration was proposed for G-1 level	Lessee has not carried out the exploration in the present plan period. However, total area explored unde G-1 level is 1.89 Ha	Violation is pointed out for the same under Rule 11(1) of MCDR-2017
1c	Exploration Agencies and Expenditure in lakh rupees during the year	By lessee	Lessee has not carried out the exploration in the present plan period.	Violation is pointed out for the same under Rule 11(1) of MCDR-2017
1d	Balance area to be explored to bring Geological axis in 1 or 2	0.98Ha	Lessee has not carried out the exploration in the present plan period.	Violation is pointed out for the same under Rule 11(1) of MCDR-2017
1e	Balance reserve as on 01/04/20	Mineral Reserves as on 01.04.2020 (111)-108059 Tonnes Feasibility M Resources (211)-36307 Tonnes Total- 144366 tonnes	Mineral Reserves as on 01.04.2020 (111)-108059 Tonnes Feasibility M Resources (211)-36307 Tonnes Total- 144366 tonnes	Same as per approved mining plan dated 13.08.2020

1f General remarks of inspecting officers on geology, exploration etc The Kirnapur deposit occurs, nearer the contact of Sitasaongi and Munsar formation. The manganese ore formation is associated with quartzite & mica schist. In the present plan period lessee has proposed 5 boreholes to explore entire area under G-1 level and also to know the depth continuity of the ore body, the exploration is not carried out as per the proposal and violation is pointed out for the same. Mine was suspended on 12.03.2021 hence no further development have been done by the lessee

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	In the year 2020-21, Development was proposed in the existing pit only. The proposed Co- ordinates are N-2369300to N-2369490&E- 294900toE- 295015	Working has been carried out, between the co- ordinates N-2369326 to N-2369460 and E-294908 to E-294990	The working has been carried out within the proposed co- ordinates only. Mine was suspended on 12.03.2021. During inspection no working found at mine site

2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Yes, separate benches are made in Ore and OB. The working was proposed in the existing pit only, so top soil bench was not proposed	Separate benches are made in Ore and OB	Total 6 benches are made in the lease area, three are in OB and three are in ore
2c	Stripping ratio or ore to OB ratio	1:2.25 for the plan period	nil	production was carried out in already broken area
2d	Quantity of topsoil generation in m3	Not proposed	Nil	Working has been carried out in the broken up area only
2e	Quantity of overburden generation in m3	77418 CUM	Nil	Working has been carried out in the broken up area only
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			In the year 2020- 21,the working was carried out within the proposed co- ordinates only but the Mine was suspended on 12.03.2021. During inspection no working found at mine site.

Exploitation:

l.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	one	one	
3b	Quantity of ROM mineral production proposed	7450 T	3530 t	Lessee has produced 3530T tones from insitu working
3с	Recovery of sailable/usable mineral from ROM production	90%	90%	

3d Quantity of 5% 5% mineral reject generation 3e Grade of mineral LESS THAT 10% LESS THAT 10% OF MN OF MN rejects generation and threshold value declared. 3f Quantity of sub 5% nil used for blending grade mineral generation. Grade of sub 10-20%Mn 10-20%Mn Зq grade mineral generation 3h Manual / manual manual Mechanised method adopted for segregating from ROM 3i Any analysis or nil nil beneficiation study proposed and carried out for sub grade mineral and rejects. 3j Provision of Drilling as per the proposal the Mine was drilling and proposed using suspended on blasting in 32 mm dia Jack 12.03.2021. During mineral benches hammer drills. inspection no Blasting working found at through mine site. Ammonium nitrate in small dia cartridged form 3k Provision of Proposed as per the proposal the Mine was mining combination of suspended on machineries in Hydraulic 12.03.2021. During mineral benches Excavator and inspection no working found at tipper mine site.

31	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	6.0 mtr bench height was proposed	Bench height is maintained at 3.00 to4.00 mtr	
3m	Total area covered under excavation/pits	1.213 Ha,in the present plan period	Total area covered under excavation is 1.2Ha	
3n	Ore to OB ratio for the pit/mine during the year.	1:2.25	nil	working was carried out in already broken up area/ pit
30	Total area put in use under different heads at the end of year	mining- 1.213Ha, waste disposal- 0.48Ha, Infrasture- 0.066Ha	Area under Mining-1.2Ha, Waste dump-0.350, Infrastructure-0.066	
3р	Production of ROM mineral during the last five year period as applicable	Tonnes 2019-20=	2020-21 = 3530 tonnes 2019-20 = 1680 tonnes 2018-19 = 4742 tonnes. 2017-18 = 883 tonnes 2016-17 = 1011 tonnes	
Зq	General remarks of inspecting officers on method of mining etc.			Lessee has adopted category A-open cast mining. Mine was closed due to suspension of mining activity issued vide office order letter dated 12.03.2021. During inspection no working found at mine site

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks

4a Separate dumping Only OB dump nil, as working is of topsoil, OB is proposed in carried out in already and mineral the present excavated pit rejects (Rule plan period. 32,33) No top soil and mineral reject is proposed in the present plan period 4b Location of Waste dump was Generation of OB is nil, topsoil, OB and proposed however the location of mineral reject between the dumping having coco-ordinates dumps ordinates are co-N-2369490 to ordinates, N-2369510 to N-2369525 and N-2369520 and E-294920 E-294900 to E- toE-294965 294970 4c Number of dumps Two old dumps Two dumps are exist within the lease area. within lease are existing area and outside within the Dumping was made as per of lease area the proposal lease area, waste dump in the Northern side of the lease area and Ore stock in the North-Eastern part of the lease area. In the present plan period waste dumping was proposed in the old dump existing in the northern side of the lease area 4d Outside the Location of Outside the UPL dumps w.r.t. UPL ultimate pit limit (Rule 16) 4e Number of active Two Two and alive dumps. 4f Number of dead not proposed nil dumps.

4g	Number of dumps established.	Тwo	Two
4h	Whether Retaining wall or garland drain all along dumps are there.	and garland	nil
4i	Length of Retaining wall or garland drain all along dumps	not applicable	nil
4j	Number of settling ponds	not proposed	nil
4 k	Specific comments of inspecting officer on waste dump management		

no OB was generated during the proposal period as working was carried out in already broken pit, Lessee has adopted category A-open cast mining. Mine was closed due to suspension of mining activity issued vide office order letter dated 12.03.2021. During inspection no working found at mine site

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.	Not proposed	nil	
5b	Area under backfilling of mined out area	not proposed	nil	

5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	not	poposed	nil
5d	Total area fully reclaimed and rehabilitated	not	proposed	nil
5e	General remarks of inspecting officers on backfilling and reclamation etc.			

Present working is not reached upto the proved depth and no proposals were made for reclamation and rehabilitation in the present plan period. Lessee has adopted category A-open cast mining. Mine was closed due to suspension of mining activity issued vide office order letter dated 12.03.2021. During inspection no working found at mine site

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).	Before 1st july of every year	not submitted	violation for the said violation dated was already pointed out/ issued by previous inspecting officer and Mine was closed due to suspension of mining activity issued vide office order letter dated 12.03.2021

6b	Area available for rehabilitation (ha) .	NIL	NIL	
6c	afforestation done (ha).	No proposal	nil	
6d	No. of saplings planted during the year	70 nos	nil	violation for the said deviation was pointed out by issuing Violation
бе	Cumulative no .of plants	620 nos saplings in the present plan period	No plantation was made in the present plan period	violation issued
6f	Any other method of rehabilitation	no proposal	nil	
6g	Cost incurred on watch and care during the year	NIL	NIL	
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)Afforestati on on backfilled area		NIL	

6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	NIL	NIL
61	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
60	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	NIL	NIL
6р	Compliance of environmental monitoring (core zone and buffer zone)	Yes, Air, Water and Noise monitoring was proposed in Core and Buffer zone	NIL

Violation was already pointed out for the same by previous I/O 6q General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.

The progressive Mine Closure plan is not implemented as per the proposals. Plantation was not made as per the proposal. Lessee has not carried out environmental monitoring in core and buffer zones and also not submitted yearly report on implementation of PMCP for the year 2020-21. Violation is pointed out Under rule 11(1)& for, 26(2) & 43V1 was already issued by prev. I/O. Mine was closed due to suspension of mining activity issued vide office order letter dated 12.03.2021

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Manual grade wise sorting within the lease area	Manual	
7b	Method of grade- wise mineral sorting i.e. manual or mechanical.	Manual	Manual	
7c	Different grade of mineral sorted out at mines.	sorting into	Three grades are sorting within the lease area. Below 25%Mn ore, 25 to below 35%Mn ore and 35 to below 46% Mn ore.	The quantity of 35to below 46% ore is very less compare to other available grades

7d Any NIL NIL beneficiation process at mines . 7e General remarks Lessee blended low of inspecting grade ore for officer on which direct Mineral market is not conservation and available with the beneficiation high grade issues material as per the requirement of the buyers

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No proposal	nil	
8b	Concurrent use or storage of topsoil	No proposal	nil	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	yes	found correct	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal	nil	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	proposed on	not carried out	Violation issued

8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	in the mining plan. Additional plantation proposals are	Most of the lease area is broken up and lessee has made very less plantation within the lease area. In the present plan period no plantation was made within the lease area and violation was also pointed out for the same	
8g	Survival rate	NIL	NIL	
8h	Water sprinkling on roads to control airborne dust	YES, PROPOSED	through small hired tankers	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Most of the lease area was degraded by the mining activities. The mine was closed due to suspension order dated 12.03.2021. No plantation was made in the present plan period to develop green belt and violation is pointed out for the same

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks

9a Status of A monthly The lessee has submitted submission of return shall Monthly returns up to be submitted October, 2021 & Annual Monthly and Annual returns before the return for the year tenth day of 2020-21 every month in respect of the preceding month and an annual return shall be submitted before the 1stday of July each year for the preceding financial year 9b Scrutiny of Mining Mining Engineer and Violation was Annual return Manager-Shri Mirza Bang, Engineer and already pointed for information Manager-Shri Geologist-Nil out by previous on Mining Mirza Bang, inspecting officer Engineer, Geologist-Nil under Geologist and Rule55(1)(C)(i)of MCDR-2017 Manager 9c Scrutiny of Area covered Area under Miningtotal area Annual return on under working- 1.70Ha, utilized under land use pattern 2.88Ha, Waste dump-0.350, different heads Infrastructure-0.066 for area under Waste dump-, is given more pits, reclaimed 0.35 Ha, than the total area, dumps etc. Infrastructure lease area. -0.006Ha Violation was already pointed out by previous inspecting officer under Rule45(7)of MCDR-2017. However the mine got suspended on 12.03.2021

9d Scrutiny of NIL NIL Annual return on afforestation Scrutiny of NIL 9e NIL Annual return on mineral reject generation (Grade and quantity)

9f ROM-Scrutiny of Figures are mismatching Violation for the Annual return on openingstock-0 similar instances ROM stock and/or T, Productionwas already issued graded ore 3530 T, by previous Closing -Inspecting 2331.294 T Officer. The mine Gradede was already under Below25% Mn suspension vide ore, OS-361.964 order dated T, Production-12.03.2021. 3530 T, dispatch-3201.55 T and CS-690.414 T, 35 to below 46% Mn ore, OS-35.54 T, Production & Dispatch-NIL, CS-35.54T 9q Scrutiny of Average, sale appreas incorrect Violation for the Annual return on value of below similar instances sale value, Ex. 25% Mn ore is was already issued Mine price and given as, Exby previous production cost mine price is Inspecting Officer. The mine shown as Rs-1270.00/T and was already under cost of suspension vide Productionorder dated 280.31/T 12.03.2021. 9h Scrutiny of Value of Fixed Shown One back hoe Violation for the Annual return on assets is excavator and 02 dumpers similar instances fixed assets shown as zero in the annual returns, was already issued but under capital by previous structure value of Inspecting Machinery including Officer. The mine transport is shown as was already under zero suspension vide order dated 12.03.2021. 9k Scrutiny of Back seems correct Annual return on Hoeexcavator-01, Dumpers-2 mining machineries

Details of violations observed during current inspection and compliance position of violation pointed out					
	Violatior	n observed		Show o	couse position
Rule N	NO.	Issued on	Compliance or	n Rule NO.	Issued on Compliance on
MCDR17	Rule 11(1)	06-Dec-21			
MCDR17	Rule 27(1)	06-Dec-21			
MCDR17	Rule 35(2)	06-Dec-21	17-Feb-22		

Date :

(SNEHANKIT H. CHATTE)

Indian Bureau of Mines