

**INDIAN BUREAU OF MINES  
MINERALS DEVELOPEMMENT AND REGULATION DIVISION**

**MCDR INSPECTION REPORT**

**Nagpur regional office**

**Mine file No :** MAH/NAG/MN-316/NGP

**Mine code :** 40MSH14043

- (i) Name of the Inspecting : **K02** ) **Kalmata.M.K.**  
Officer and ID No.
- (ii) Designation : Regional Mining Geologist
- (iii) Accompanying mine : Shri. Paramhans Singh, Lessee.  
Official with  
Designation
- (iv) Date of Inspection : 05/03/2020
- (v) Prev.inspection date : 01/03/2017

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **TEKADI (3.47 HECT)**
- (b) **Registration NO.** : **IBM/5059/2011**
- (c) Category : B Manual
- (d) Type of Working : Opencast
- (e) Postal address :  
State : MAHARASHTRA  
District : NAGPUR  
Village : TEKADI  
Taluka : SAONER  
Post office : TEKADI  
Pin Code :  
FAX No. :  
E-mail :  
Phone : 9371140177
- (f) Police Station :
- (g) First opening date : 01/01/2011
- (h) Weekly day of rest :
2. Address for : WCL Chankpur Colony  
correspondance : Saoner  
Nagpur
3. (a) Lease Number : MSH0387
- (b) Lease area : 3.47
- (c) Period of lease : 50
- (d) Date of Expiry : 15/11/2060
4. Mineral worked : MANGANESE ORE Main

## 5. Name and Address of the

Lessee : SHRI PARAMHANS SINGH  
QUATER NO. 7/2, B TYPE, NEW  
CHANKAPUR COLONY TAH.  
SAONER, DISTT. NAGPUR  
NAGPUR MAHARASHTRA  
Phone:  
FAX :

Owner : SHRI PARAMHANS SINGH  
QTR. NO. 7/2. B TYPE  
CHANKAPUR COLONY, TAH  
SAONER DISTT. NAGPUR NAGPUR  
MAHARASHTRA  
Phone:  
FAX :

Agent : SHRI PARAMHANS SINGH  
NAGPUR MAHARASHTRA  
Phone:  
FAX :

6. Date of approval of Mining : Modif.of approved Mining Plan 10/08/2016  
Plan/Scheme of Mining

## PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	There was a proposal to drill two exploratory bore holes in the year 2017-18, and two in the year 2018-19.	The exploration was not carried out as per the proposal.	Violation is pointed out for the same, under Rule 11(1) of MCDR-2017. In the last plan period lessee has drilled one core borehole and two DTH holes to prove the thickness of the ore body. Additionally two trenches were made along the strike direction to expose the ore body.
1b	Exploration over lease area for geological axis 1 or 2	G-1 level.	No exploration has been carried out in the present plan period.	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	Not proposed.	No exploration has been carried out in the present plan period.	
1d	Balance area to be explored to bring Geological axis in 1 or 2	0.5Ha	Nil	Violation is pointed out for the same, under Rule 11(1) of MCDR-2017.
1e	Balance reserve as on 01/04/20	Reserves as on 01.04.2015 ( as per approved document) Probable Mineral Reserves (121) - 3500 tonnes.	Reserves as on 01.04.2019 Probable Mineral Reserves (121) -2260 tonnes.	Actual position of the reserves/resources may be came to know after proper exploration only. So, lessee has advised to explore entire mineralized area in the grid pattern suitable to nature of the deposit.

1f	General remarks of inspecting officers on geology, exploration etc	In the last plan period lessee has drilled one core borehole and two DTH holes to prove the thickness of the ore body. Additionally two trenches were made along the strike direction to expose the ore body. Actual position of the reserves/resources may be came to know after proper exploration only. So, lessee has advised to explore entire mineralized area in the grid pattern suitable to nature of the deposit.
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Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	In the year 2018-19, development was proposed between the co-ordinates N-2386355 to N-2386380 and E-287235 TO E-287300.	The mine was not working in the year 2018-19. In the present plan period working has been carried out between the co-ordinates N-2386316 to N-2386340 and E-287250 to E-287314.	In the present plan period, working has been carried out within the proposed co-ordinates.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Yes, separate benches were proposed in Ore and Overburden.	Separate benches were made in ore and OB.	Two benches in Ore and one bench in OB, Height of the benches is maintained at 2.5 to 3.00 mtr.
2c	Stripping ratio or ore to OB ratio	1:4.34 in the year 2018-19.	Nil	The mine is not working.
2d	Quantity of topsoil generation in m3	5 CUM	Nil	In the present plan period woking has been carried out in the already broken up area only. So no topsoil is generated.
2e	Quantity of overburden generation in m3	2160 CUM	Nil in the year 2018-19.	Mine is not working.

2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	The mine is not working from 2018-19 onwards due to lack of demand.
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**Exploitation:**

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One	One	Existing old pit is extended laterally.
3b	Quantity of ROM mineral production proposed	500 tonnes, in the year 2018-19	Nil	The mine is not working due to lack of demand.
3c	Recovery of sailable/usable mineral from ROM production	90%	Nil	The mine is not working due to lack of demand.
3d	Quantity of mineral reject generation	50 tonnes	Nil	Mine is not working.
3e	Grade of mineral rejects generation and threshold value declared.	Mn% below 15.	Nil	The mine is not working.
3f	Quantity of sub grade mineral generation.	Not proposed.	Nil	
3g	Grade of sub grade mineral generation	Not Applicable.	Not applicable.	
3h	Manual / Mechanised method adopted for segregating from ROM	Manual	Manual	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Nil	Nil	

3j	Provision of drilling and blasting in mineral benches	Yes proposed, Wagon drill in OB and jackhammer in Ore is proposed. Spacing and burden was proposed 1.0m x 0.75m in OB and 3m x 2.5 m in ore.	Drilling and blasting has been carried out as per the proposal.	
3k	Provision of mining machineries in mineral benches	Not proposed.	Mine is working, manually.	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	3.00 mtr bench height was proposed.	Bench height is maintained at 2.5 to 3.00 mtrs, for both Ore and OB.	Height of the bench, maintained for OB and Ore is suitable for manual method of mining.
3m	Total area covered under excavation/pits	0.03 Ha in the year 2018-19.	Nil. The mine was not working in the year 2018-19	Total area covered under pit is 0.158Ha, In the present plan period only lateral extension of the existing pit was proposed.
3n	Ore to OB ratio for the pit/mine during the year.	1:4.34	Nil	The mine is not working.
3o	Total area put in use under different heads at the end of year	Total area proposed in the present plan period under different heads is as follows. Area under excavation- 0.248, Area under OB dump- 0.137Ha, Mineral storage- 0.106Ha, Roads-0.066Ha, Others (Green belt, Infrastructure, etc.)- 0.300Ha.	Area under Mining- 0.158Ha, Waste dump- 0.30Ha, Infrastructure and green belt -0.10Ha,	The proposed production and development was not achieved in the present plan period, due to lack of demand. So total area put in use under different heads is less, compared to that projected in the plan.

3p	Production of ROM mineral during the last five year period as applicable	2018-19 500 tonnes 2017-18 500 tonnes 2016-17 500 tonnes 2015-16  500 tonnes 2014-15 315 tonnes	2018-19 Nil 2017-18 550 tonnes 2016-17 590 tonnes 2015-16 100 tonnes 2014-15 420 tonnes.	In the year 2016-17 and 2017-18, ROM production, is more than the proposal, so violation is pointed out under Rule 11(1) of MCDR-2017.
3q	General remarks of inspecting officers on method of mining etc.		The working has been carried out in the existing pit only and bench height was maintained as per the proposal. In the year 2016-17 and 2017-18, lessee has made the production (ROM) more than the proposal and violation is pointed out for the same.	

## Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Yes, Separate dumping is proposed for OB and Mineral reject.	Separate dumping was made for OB and mineral reject.	No topsoil was proposed and handled in the year 2018-19.
4b	Location of topsoil, OB and mineral reject dumps	Proposed location of OB dump- N-2386450 to N-2386470 and E-287335 to E-287370. Proposed location of Mineral reject-N-2386430 to N-2386440 and E-287290 to 287310.	Waste dumping was made between, Co-ordinates N-2386240 to N-2386290 & E-287200 to E-287250.	Overburden dump was not stacked at the site as per the proposal, and violation is pointed out for the same, under Rule 11(1) of MCDR-2017.

4c	Number of dumps within lease area and outside of lease area	Two dumps were proposed in the present plan period. One for Ore and other for mineral reject.	One OB dump was made in the present plan period. Additional to new dump one old dumps is present within the lease area,	Overburden dump was not stacked at the site as per the proposal, and violation is pointed out for the same, under Rule 11(1) of MCDR-2017.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside the UPL.	Outside the UPL.	
4e	Number of active and alive dumps.	Two (One OB dump and one Mineral reject dump)	Two OB dumps are active (one new dump and one old dump)	
4f	Number of dead dumps.	Not proposed.	Nil	No dump is matured.
4g	Number of dumps established.	Two	Two	
4h	Whether Retaining wall or garland drain all along dumps are there.	Retaining wall and Garland drain was proposed along the periphery of dump toe in the present plan period.	The said retaining wall and garland drain was not made in the present plan period.	Violation is pointed out for the same under Rule 11(1) of MCDR-2017.
4i	Length of Retaining wall or garland drain all along dumps	50M	No retaining wall and garland drain was made in the present plan period.	Violation is pointed out for the same under Rule 11(1) of MCDR-2017.
4j	Number of settling ponds	Not proposed.	Nil.	
4k	Specific comments of inspecting officer on waste dump management		In the present plan period, waste dump was proposed in the Northern part of the lease area, near BP-6, however, dumping was made near the working pit in the South-western part of the lease area near, BP-11. Further, lessee has not made reating wall and garland drain as per the proposal and violation is pointed out for the same under Rule 11(1) of MCDR-2017.	

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	No backfilling is proposed in the present plan period.
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 proposed.	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 proposals are not given, for reclamation and rehabilitation in the present plan period.	

Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	Before 1st july of every year.	Lessee has not submitted a yearly report on protective and rehabilitative works carried out as envisaged in the approved mine closure plan, for the year 2016-17, 2017-18 & 2018-19.	Violation is pointed out for the same under Rule 26(2) of MCDR-2017.
6b	Area available for rehabilitation (ha) .	Nil	Nil	

6c	afforestation done (ha).	0.024 Ha in the present plan period.	0.15Ha in the present plan period.	Plantation was proposed on waste dumps only. However, since the dump was not matured, lessee has made plantation in the waste land within the lease area.
6d	No. of saplings planted during the year	100 in the plan period.	500 in the present plan period.	
6e	Cumulative no .of plants	100 in the plan period.	500 in the present plan period.	
6f	Any other method of rehabilitation	Nil	Nil	
6g	Cost incurred on watch and care during the year	Not proposed.	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) Afforestation on backfilled area	Nil	Nil	
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Nil	Nil	

6l	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	Not proposed.	Lessee has made plantation in the waste land area with in the mining lease.	
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	Not proposed.	0.15Ha	
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Not proposed.	Lessee has made plantation in the 0.15Ha waste land within the lease area.	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Not proposed environmental monitoring.	The mine is not doing production from 2018-19 onwards due to lack of demand. Since the mine is not working lessee has not carried out environment monitoring ln the year 2018-19.	Lessee has suggested to carry out environmental monitoring quarterly, after resumption of work.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.		Lessee has not made the plantation on dump as per the proposal given in the PMCP, but plantation was made in the waste land within the lease area. The proposed reataing wall and garland drains were not made and violation is pointed for the same under Rule 11(1) of MCDR-2017.	

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Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Gradewise sorting with in the lease area.	Lessee is doing gradewise sorting within the lease area.	

7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual	Manual	
7c	Different grade of mineral sorted out at mines.	15 to below 25% Mn ore and Below 15% Mn ore.	As per the proposal.	
7d	Any beneficiation process at mines .	Nil	Nil	Lessee is doing only manual sorting.
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues		Lessee is blending lowgrade ore with high grade ore as per the requirement of the buyer.	

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Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Yes, 5 CUM proposed.	Working has been carried out in the already broken up area only, so no top soil was removed in the year 2018-19.	Topsoil removed earlier was utilized for plantation within the lease area.
8b	Concurrent use or storage of topsoil	Proposed for utilization for plantation.	No topsoil was removed in the year 2018-19.	Working has been carried out in the broken up area only.
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Yes proposed.	Separate dumping was made for OB, Rejects and ore.	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Not proposed.	Nil	

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Plantation was proposed on waste dump.	The dump was not matured and no plantation was done.	The plantation was made in the waste land within the leases area.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Baseline information was furnished in the mining plan. Additional plantation proposals are being given in the Mining Plan documents.	Lessee has done 500 plantation in the present plan period.	
8g	Survival rate	Not proposed.	50 to 60%.	Lessee has advised to take care of the plantation by regular monitoring.
8h	Water sprinkling on roads to control airborne dust	Yes, proposed.	The mine is not working and no water sprinkling is doing at present.	Water sprinkling ,is being done when mine starts working.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area		In the present plan period, lessee has done 500 plantaion in the waste land and developed green belt. The mine is not working at present and no imapct was observed on environment.	

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Compliance of Rule 45:

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Sl.No.	Item	Propasals	Actual work	Remarks
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9a	Status of submission of Monthly and Annual returns	A monthly return, shall be submitted before the tenth day of every month ,in respect of the preceding month, and an annual return shall be submitted, before the 1st day of July each year, for the preceding financial year.	Lessee has submitted monthly returns, upto Feb-2020, and annual returns for the year 2018-19	Lessee has not submitted the Annual returns for the year 2016-17 and violation is pointed out for the same under Rule 45(5)( C) of MCDR-2017.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining engineer-MD Abbu Wassay and Geologist-Hemant S. Hinge	Lessee has not appointed Mining Engineer and Geologist.	Violation is pointed out for the same under Rule 55( C)(ii) of MCDR-2017.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area under mining- 0.158Ha, Waste dump-0.580Ha, Infrastructure - 0.101	The land use details, given in the annual returns, are almost found correct, except dump area. In the annual returns it is mentioned that area covered under waste dump is 0.58Ha, but as per the field observation area covered under waste dump may be around 0.3Ha.	Little variation was observed in the waste dump area. Lessee has advised to re-check and correct the same based on latest survey.
9d	Scrutiny of Annual return on afforestation	Nil	Nil	No plantation was made in the year 2018-19. However in the present plan period 500 saplings were planted within the lease area.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil	Nil	The mine is not working and no mineral reject is generated in the year 2018-19.

9f	Scrutiny of Annual return on ROM stock and/or graded ore	In the annual returns submitted for the year 2018-19, opening Stock, Production and Closing stock of ROM is shown as "NIL". Under graded ore stock position of Below 25% Mn Ore is shown as follows. Opening stock- 157.020 tonnes, Production- 125.000 tonnes, Dispatch- 71.490 tonnes and Closing stock - 210.530 tonnes.	About 50 to 60 tonnes of graded ore was observed in the field. The details given in the annual returns are found correct.	Lessee has dispatched about 149 tonnes of below 25%Mn ore in the year 2019-20(July-2019).
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Sale value and Ex-mine price is shown as Rs-1900/ tonnee and cost of Production- 1900/tonnee.	Details of sale value and ex-mine price were found correct. The cost of production which is given as Rs-1900/tonne logically not correct. as no production was carried out in the year 2018-19 and only 71.490 tonnes despatch was done. Lessee has not carried out any exploration in the year 2018-19. However cost of exploration is shown as Rs-358/tonne.	Violation is pointed out for the same under Rule 45(7) of MCDR-2017.
9h	Scrutiny of Annual return on fixed assets	Value of Fixed Assets is shown as zero in the annual returns submitted for the year 2018-19.	The land granted for Mining Lease is Government land and lessee is not having any Machinery and plant. So value of fixed asset is shown as zero.	
9k	Scrutiny of Annual return on mining machineries	Nil	Nil	Lessee has proposed manual method of mining and present mine is not working.

**Details of violations observed during current inspection and compliance position of violation pointed out**

Violation observed			Show cause position		
Rule NO.	Issued on	Compliance on	Rule NO.	Issued on	Compliance on
MCDR17	Rule 11(1)	05/06/2020			
MCDR17	Rule 11(4)	05/06/2020			
MCDR17	Rule 26(2)	05/06/2020			
MCDR17	Rule 28(1)	05/06/2020			
MCDR17	Rule 35(2)	05/06/2020			
MCDR17	Rule 45(5)(c)	05/06/2020			
MCDR17	Rule 45(7)(a)	05/06/2020			
MCDR17	Rule 55(1)(3)	05/06/2020			

**Date :**

**(Kalmata.M.K.)**

Indian Bureau of Mines