

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

MCDR inspection REPORT

Goa regional office

Mine file No : MAH/SDG/FE-42/GOA

Mine code : 30MSH28028

- (i) Name of the Inspecting : P01) PREM PRAKASH
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine :
Official with
Designation
- (iv) Date of Inspection : 29-NOV-19
- (v) Prev.inspection date : 03-JAN-19

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : TALAVANE
- (b) **Registration NO.** :
- (c) **Category** : A Fully Mechanised
- (d) **Type of Working** : Opencast
- (e) **Postal address**
- State : MAHARASHTRA
- District : SINDHUDURG
- Village : SATARDA
- Taluka : SAWANTWADI
- Post office : SATARDA
- Pin Code : 416514
- FAX No. :
- E-mail :
- Phone :
- (f) **Police Station** :
- (g) **First opening date** :
- (h) **Weekly day of rest** : SUN
2. **Address for correspondance** : NEW INDIA MINING CORPORATION PVT LTD
MINES OFFICE,AT & POST REDDI
TQ: VENGURLA,DIST: SINDHUDURG, M.S
3. (a) **Lease Number** : MSH0091
- (b) **Lease area** : 191.85
- (c) **Period of lease** : 10
- (d) **Date of Expiry** : 16-FEB-06
4. **Mineral worked** : IRON ORE Main

5. Name and Address of the

Lessee : MINERALS AND METALS
 32, ASHUTOSH, NEPEAN SEA
 ROAD, MUMBAI GREATER BOMBAY
 MAHARASHTRA
 Phone:
 FAX :

Owner : SANDEEP SRIVASTAVA
 NIRMAL, 16th Floor NARIMAN
 POINT GREATER BOMBAY
 MAHARASHTRA
 Phone: 022-22025893, 2
 FAX : 022-22854417

Agent : MANOJ THAKUR
 WSH 4,W BLOCK,SUNSET
 BOULVARD, ALTO DHULER,
 MAPUSA-GOA SINDHUDURG
 MAHARASHTRA
 Phone: 0832-2253864, 9769111533
 FAX : 832-2253863

Mining Engineer
 Name : MR. M.VENKATARAVANAPPA,Full Time
 Qualification : DIPLOMA IN MINING 1st class unrestricte
 Appointment/ : 30-SEP-13 31-JUL-16
 Termination date

6. Date of approval of Mining Plan/Scheme of Mining : Renewal under rule 24 MCR1960 22-JUN-07
 Mining Scheme rule 12 MCDR1988 10-MAR-14
 MP modif under 17(3) MCR 2016 17-FEB-17

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Backlog of 6 Holes of 2017-18	Backlog of 6 Holes of 2017-18 was reported carried out in 2018-19	
1b	Exploration over lease area for geological axis 1 or 2	As on end of 2018-19 it was proposed to drill 24 holes over an area of 33.74Ha for Geological Axis 1 or 2	As on end of October 2019 a total of 28 holes are drilled over an area of about 35Ha for Geological Axis 1 or 2	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	-	Ramesh Gaonkar (Core Drilling Contractor) Rs.727350 /-	Mentioned as reported during inspection by Mines Manager
1d	Balance area to be explored to bring Geological axis in 1 or 2	-	Balance Area as on October 2019 to bring geological axis 1 or 2 is about 36 Ha to be cover in by the end of 5 years plan period	
1e	Balance reserve as on 01/04/20	-	-	0.99 mill. Te as on 12.11.2016
1f	General remarks of inspecting officers on geology, exploration etc		Exploration has been carried out as mentioned above and continuing.	

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	In the area of x-section H-H' to D-D' as Shown over the development & production Plan	Location of development is almost as proposed in approved Plan	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	No top soil, Separate benches in overburden as well as in ore Proposed	No top soil, Separate benches are made in overburden as well as in ore	

2c	Stripping ratio or ore to OB ratio	1:9.47	1:7	Te : Te
2d	Quantity of topsoil generation in m3	Nil	Nil	
2e	Quantity of overburden generation in m3	753380 CU.MTS. (1506760 Ton)	581208 CU MTS. (1162415 Ton)	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc		Development/waste removal from pit observed lagging behind than proposed as less development work/ waste removal was carried out in year 2018-19. Violation pointed out in this regard.	

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	ONE	ONE	
3b	Quantity of ROM mineral production proposed	198750 M.T.	164595 M.T.	
3c	Recovery of sailable/usable mineral from ROM production	100 %	100 %	
3d	Quantity of mineral reject generation	Nil	Nil	
3e	Grade of mineral rejects generation and threshold value declared.	-	-	threshold value is declared as 45 % fe grade
3f	Quantity of sub grade mineral generation.	Nil	Nil	
3g	Grade of sub grade mineral generation	NA	NA	
3h	Manual / Mechanised method adopted for segregating from ROM	Machanised Crushing & screening	Machanised Crushing & screening	

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	NOT PROPOSED	NO DRILLING & BLASTING done	
3k	Provision of mining machineries in mineral benches	EXCAVATOR & DUMPER COMBINATION	EXCAVATOR & DUMPER COMBINATION	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	6X8m benches PROPOSED	However, regular pit benches of proposed height and width have not been maintained	Violation pointed out in this regard.
3m	Total area covered under excavation/pits	FOR FIVE YEARS IT IS PROPOSED TO EXCAVATE 9.18 Ha.	About 7.4 Ha	
3n	Ore to OB ratio for the pit/mine during the year.	1:9.47	1:7.0	
3o	Total area put in use under different heads at the end of year	For 5 year: Excavation-9.18 ha. Dumping -10.00 ha. Road-1.5 ha	Upto end of year 2018-19: Excavation-7.4 ha Dumping-3.65 ha Road -1.5 ha	
3p	Production of ROM mineral during the last five year period as applicable	Year ROM (Ton) 2015-16 200000 2016-17 200000 2017-18 199250 2018-19 198750	Year ROM (Ton) 2015-16 -- 2016-17 -- 2017-18 199200 2018-19 164595	
3q	General remarks of inspecting officers on method of mining etc.		Mechanized open cast mining being carried out with shovel & dumper combination	

Solid Waste Management - Dumping:

Sl.No.	Item	Proposals	Actual work	Remarks
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4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Yes; Only waste dump is proposed	waste dumping is carried out separately
4b	Location of topsoil, OB and mineral reject dumps	Disposal of waste proposed at northern part of ML area.	Waste dump was made at northern part of ML area.
4c	Number of dumps within lease area and outside of lease area	Lease area = ONE Non Lease area = N.A.	Lease area = ONE Non Lease area =N.A.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Non	Non
4e	Number of active and alive dumps.	One active dump	One active dump
4f	Number of dead dumps.	Nil	Nil
4g	Number of dumps established.	-	-
4h	Whether Retaining wall or garland drain all along dumps are there.	400*2*1 Retaining wall proposed for year 2018-19	200*2*1 made as per dump profile and further under progress
4i	Length of Retaining wall or garland drain all along dumps	400*1*1 mts. Garland drain along Dumps	made
4j	Number of settling ponds	1 settling tanks Proposed	1 settling pond maintained
4k	Specific comments of inspecting officer on waste dump management		Disposal of waste being carried out by making systematic surface dump in the northern part of ML area.

Solid Waste Management - Backfilling:

Sl.No.	Item	Propasals	Actual work	Remarks
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5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	Surface dumping is proposed for 2018-19	Dumping is in progress as per proposal.
5b	Area under backfilling of mined out area	Nil	Nil
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Nil	Nil
5d	Total area fully reclaimed and rehabilitated	Nil	Nil
5e	General remarks of inspecting officers on backfilling and reclamation etc.		Backfilling was not proposed in 2018-19

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).	-	Not submitted for 2018-19 till the date of inspection	Violation issued in this regard
6b	Area available for rehabilitation (ha) .	Nil	Nil	
6c	afforestation done (ha).	1.0 ha.	1.5Ha	
6d	No. of saplings planted during the year	1000 NO. OF SAPLING	About 2000 Nos. Planted during 2018-19	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	Nil	Nil	Surface Dumping

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	1000 NO. OF SAPLING	About 2000 Nos. Planted during 2018-19	
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	1Ha	1.5Ha	
6o	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	-	plantation	
6p	Compliance of environmental monitoring (core zone and buffer zone)	proposed	Regular environmental Monitoring has been carried out	By third party, M/s sadekar enviro engineers pvt. ltd.

6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	PMCP works i.e. construction of retaining wall/stone wall, drains, settling pond etc. along the periphery of dump and Plantations at dead waste dump slopes have been carried out.
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Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	grade wise sorting within lease area	grade wise sorting within lease area	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	MACHANICAL	MACHANICAL	
7c	Different grade of mineral sorted out at mines.	yes	yes	
7d	Any beneficiation process at mines	NOT PROPOSED	Only Dry Crushing and screening being done	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues		Grade wise sorting of ore has been carried out by crushing/screening.	

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	NIL	NIL	
8b	Concurrent use or storage of topsoil	NIL	NIL	

8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	-	-
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	NIL	NIL
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	-	About 2000 Nos. Planted during 2018-19
8g	Survival rate		70%
8h	Water sprinkling on roads to control airborne dust	PROPOSED	Water sprinkling on roads to control airborne dust being carried out by engaging Two water tankers/sprinklers.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns		MR Submitted up to = OCTOBER 2019 AR Submitted up to = 2018-2019	being submitted regularly
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer: Shri Ravi Kiran, Geologist: Shri Gulvani, Manager: Shri. Baburao Desai	Mining Engineer: Shri Ravi Kiran, Geologist: Shri Gulvani, Manager: Shri. Baburao Desai	

9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	(i) Already exploited & abandoned by opencast (O/C) mining 0.000 (ii) Covered under current (O/C) Workings 7.400 (iii) Reclaimed/Rehabilitated 0.200 (iv) Used for waste disposal 3.650 (v) Occupied by plant, buildings, residential, welfare buildings & roads 1.500 (vi) Other Purpos0.000 (vii) Work done under progressive mine closure plan during the year 0.050	(i) Already exploited & abandoned by opencast (O/C) mining 0.000 (ii) Covered under current (O/C) Workings 7.400 (iii) Reclaimed/Rehabilitated 0.200 (iv) Used for waste disposal 3.650 (v) Occupied by plant, buildings, residential, welfare buildings & roads 1.500 (vi) Other Purpos0.000 (vii) Work done under progressive mine closure plan during the year 0.050	in Ha.
9d	Scrutiny of Annual return on afforestation	2000 Nos.	2000 Nos.	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil	Nil	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM stock : 45095 te.	ROM stock : 45095 te.	
9h	Scrutiny of Annual return on fixed assets	Paid up Share Capital (Rs): 8340120	Paid up Share Capital (Rs): 8340120	

9k	Scrutiny of	BACK HOE 1.400	BACK HOE 1.400 CUM 3
	Annual return on	CUM 3 BACK HOE	BACK HOE 2.200 CUM 1
	mining	2.200 CUM 1	WHEEL LOADER 1.500 CUM 2
	machineries	WHEEL LOADER	DOZER 450.000 HP 2
		1.500 CUM 2	DUMPER 16.000 TONNE 14
		DOZER 450.000	Non CRUSHER 150.000 T/H
		HP 2 DUMPER	1
		16.000 TONNE	
		14 Non CRUSHER	
		150.000 T/H	1

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
MCDR17	Rule 11(1)	16-DEC-19	11-MAR-20			
MCDR17	Rule 26(2)	16-DEC-19	11-MAR-20			

Date :

(PREM PRAKASH)

Indian Bureau of Mines