

**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 : SHRI. VINIT BANDIVDEKAR, G.M. (ADMIN)  
Official with  
Designation
- (iv) Date of Inspection : 01-FEB-22
- (v) Prev.inspection date : 07-JUL-21

**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	Nil	Nil	
1b	Exploration over lease area for geological axis 1 or 2	2017-18 to 2020-21 proposed to drill 47 Boreholes (2350 m)	2017-18 to 2020-21 drilling carried out Boreholes (2076.5m)	48 As reported in modification of Mining Plan (MMP) approved on 12.03.2021
1d	Balance area to be explored to bring Geological axis in 1 or 2	--	Ramesh Gaonkar (Core Drilling Contractor) Rs.8543675 /-	As reported in MMP approved on 12.03.2021
1e	Balance reserve as on 01/04/20		Balance area to be explored = 22.6787 Ha.	
1f	General remarks of inspecting officers on geology, exploration etc		As reported in MMP approved on 12.03.2021, Balance reserves is 0.66 mill. Te (111) as on 28.02.2021, Powdery ore of grade +45% fe	Exploration has been carried out so far as mentioned above and also proposed further in Balance area to be explored of 22.6787 Ha.

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	In the area of x-section lines M-M' to P-P' in Block-II as Shown over the development & production Plan of MMP approved on 12.03.2021	Location of development was almost as proposed in approved MMP; However, Mines is non-working at present	Mining operations in the mine is suspended vide this office letter dated 28.10.2021 for non-compliance of Rules 11 (1), 26(2) & 35(2) of MCDR, 2017
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 : 5.03	1 : 5.59	Te : Te

2d	Quantity of topsoil generation in m3	Nil	Nil
2e	Quantity of overburden generation in m3	1005156 te proposed in year 2020-21	1116600 te achieved in 2020-21
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc		Development/waste removal quantity is higher than the proposed, as reported to makeup the back-log of previous years ; which is in the interest of mineral development.

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**Exploitation:**

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	ONE	ONE	
3b	Quantity of ROM mineral production proposed	2,00,000 te proposed in year 2020-21	199500 te achieved in 2020-21	
3c	Recovery of sailable/usable mineral from ROM production	100 %	100 %	
3d	Quantity of mineral reject generation	NIL	NIL	
3f	Quantity of sub grade mineral generation.	NIL	NIL	
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.	NOT PROPOSED	NA	
3j	Provision of drilling and blasting in mineral benches	NOT PROPOSED	NO DRILLING & BLASTING	

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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	Mining operations in the mine has been suspended vide this office letter dated 28.10.2021
3m	Total area covered under excavation/pits	14.173 Ha. Upto 31.03.2022	About 11.33 Ha. Upto 31.03.2021	As per AR submitted for 2020-21
3n	Ore to OB ratio for the pit/mine during the year.	1 : 5.03	1: 5.59	Te : Te
3o	Total area put in use under different heads at the end of year	23.9783 Ha. Upto 31.03.2022	About 19.6 Ha. Upto 31.03.2021	As per AR submitted for 2020-21
3p	Production of ROM mineral during the last five year period as applicable	Year ROM (Ton) 2016-17 200000 2017-18 199250 2018-19 198750 2019-20 199500 2020-21 200000	Year ROM (Ton) 2016-17 -- 2017-18 199200 2018-19 164595 2019-20 199500 2020-21 199500	
3q	General remarks of inspecting officers on method of mining etc.		Mechanized open cast mining being carried out with shovel & dumper combination	

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#### Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Only waste dump is proposed	waste dumping is carried out separately	

4b	Location of topsoil, OB and mineral reject dumps	No proposal Topsoil and Mineral Rejects Dumps. Disposal of waste proposed for storage and back-filling/reclamation in Block-II for year 2020-21	Reclamation was lagging in in Block-II	Violation was already pointed out in this regard and Mining operations in the mine is suspended vide this office order dated 28.10.2021
4c	Number of dumps within lease area and outside of lease area	Lease area = ONE In 2020-21	Lease area = ONE In 2020-21	In Block-II
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.	01	01	
4h	Whether Retaining wall or garland drain all along dumps are there.	yes	yes	
4i	Length of Retaining wall or garland drain all along dumps	Not proposed in year 2020-21, to be maintained as made in previous years	Being maintained	
4j	Number of settling ponds	Not proposed in year 2020-21, to be maintained as made in previous years	02 settling pond maintained	
4k	Specific comments of inspecting officer on waste dump management		Disposal of waste proposed by storage and back-filling/reclamation in Block-II for year 2020-21. one waste is proposed in Block-I in year 2021-22, that was not made at earmarked place. Violation already pointed out in this regard and Mining operations in the mine is suspended vide this office order dated 28.10.2021	

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## 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.	Back-filling/reclamation proposed in Block-II in year 2020-21, and surface waste dumping is proposed in Block-I in year 2021-22	Deviation observed in Back-filling/reclamation proposed in Block-II and surface waste dumping in Block-I	Violation was already pointed out in this regard and Mining operations in the mine is suspended vide this office order dated 28.10.2021
5b	Area under backfilling of mined out area	2.6471 ha. In year 2020-21	About 2.5 ha.	
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/Reclamation and rehabilitation works observed lagging than envisaged in Block-II. Violation was already pointed out in this regard and Mining operations in the mine is suspended vide this office order dated 28.10.2021	

## 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).	to be submitted	Not submitted for 2020-21	Violation was already pointed out in this regard and Mining operations in the mine is suspended vide this office order dated 28.10.2021
6b	Area available for rehabilitation (ha) .	At worked/mined out benches	Nil	
6d	No. of saplings planted during the year	1000 saplings	2000 saplings as reported in AR-2020-21	

6e	Cumulative no .of plants	Not specified	NA
6f	Any other method of rehabilitation	None	NA
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	2.65 Ha.	About 2.5 ha., however, not done properly
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestati on on backfilled area	3000 saplings	2000 saplings as reported in AR-2020-21
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	1 Ha.	about 1 Ha.
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	None	NA
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	Not proposed	NA
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	Not proposed	NA
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Not proposed	NA

6p	Compliance of environmental monitoring (core zone and buffer zone)	proposed	Periodic environmental Monitoring has been carried out and parameters were within the permissible limit.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.		PMCP works i.e. Backfilling/Reclamation and rehabilitation works observed lagging than envisaged in Block-II. Violation was already pointed out in this regard and Mining operations in the mine is suspended vide this office order dated 28.10.2021

#### 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. However, Mining operations in the mine is suspended vide this office letter dated 28.10.2021	

#### Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
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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)	Separate dumps for overburden/waste and fines	Separate dumps for overburden/waste and fines maintained
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Disposal of waste proposed for storage and back-filling/reclamation in Block-II	Back-filling/reclamation being carried out in Block-II
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Back-filling/reclamation proposed in Block-II	Back-filling/reclamation being carried out in Block-II
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	-	About 2000 Nos. saplings reported Planted during 2020-21
8g	Survival rate	-	About 65%
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area		Aesthetic beauty in and around mines area is good. However, Reclamation and rehabilitation works observed lagging than envisaged in Block-II. Violation was already pointed out in this regard and Mining operations in the mine is suspended vide this office order dated 28.10.2021

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## Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns		MR being Submitted; AR Submitted for 2020-21	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Manager -Shri Jillela Nagraju, Mining Engineer -Shri Abhijeet Thakre, Geologist - Shri. Viraj Kale	Manager -Shri Jillela Nagraju, Mining Engineer -Shri Abhijeet Thakre, Geologist - Shri. Viraj Kale	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	area under pits-11.33 ha., reclaimed area-205 Ha., dumps-3.9 ha. etc.	area under pits-11.33 ha., reclaimed area-205 Ha., dumps-3.9 ha. etc.	
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	Closing stock : ROM= 67120 te.; Lumps : Below 55% = 21843.1 te, 55% to below 58%= 658.41 te; Fines: Below 55% = 9212.46, te, 55% to below 58%= 58983 te;	Closing stock : ROM= 67120 te.; Lumps : Below 55% = 21843.1 te, 55% to below 58%= 658.41 te; Fines: Below 55% = 9212.46, te, 55% to below 58%= 58983 te;	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex. Mine price (Rs. /Te) : Lumps : Below 55% = 2081, 55% to below 58%= 2700 ; Fines: Below 55% = 884, 55% to below 58%= 1445; production cost : 700 Rs. Per te	Ex. Mine price (Rs. /Te) : Lumps : Below 55% = 2081, 55% to below 58%= 2700 ; Fines: Below 55% = 884, 55% to below 58%= 1445; production cost : 700 Rs. Per te	

9k Scrutiny of Annual return on mining machineries

BACK HOE 1.400 CUM -3 ,	BACK HOE 1.400 CUM -3 ,
BACK HOE 2.200 CUM- 2,	BACK HOE 2.200 CUM- 2,
WHEEL LOADER 1.500 CUM- 2,	WHEEL LOADER 1.500 CUM- 2,
DOZER 450.000 HP- 2,	DOZER 450.000 HP- 2,
DUMPER 16.000 TONNE -17,	DUMPER 16.000 TONNE -17,
CRUSHER 150.000 T/H- 1	CRUSHER 150.000 T/H- 1
450.000 HP- 2, Nos.	450.000 HP- 2, Nos.
DUMPER 16.000 TONNE -17,	DUMPER 16.000 TONNE -17,
CRUSHER 150.000 T/H- 1	CRUSHER 150.000 T/H- 1
Nos.	Nos.

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**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(4)	08-FEB-22	MCDR17	Rule 11(4)	08-FEB-22
MCDR17	Rule 27(1)	08-FEB-22	MCDR17	Rule 27(1)	08-FEB-22
MCDR17	Rule 27(2)	08-FEB-22	MCDR17	Rule 27(2)	08-FEB-22

**Date :**

**(PREM PRAKASH)**

Indian Bureau of Mines