

**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 : **SP01**) **SURESH PRASAD**
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : **SHRI. SAKHARAM G. KAVATHANKAR, AGENT**
Official with
Designation
- (iv) Date of Inspection : 07-JUL-21
- (v) Prev.inspection date : 18-DEC-20

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 : NEW INDIA MINING CORPORATION PVT LTD
correspondance : 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 unrestrictede
 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	11 BOREHOLES PROPOSED (550 MT.DRILLING PROPOSED)	11 NO. OF BOREHOLE DRILLED. (449 MT TOTAL DRILLING)	
1c	Exploration Agencies and Expenditure in lakh rupees during the year		Shri Ramesh Gaonkar (Core Drilling Agency) 449@1442=647,458 Rs.	As per the information submitted by mine management.
1d	Balance area to be explored to bring Geological axis in 1 or 2	Balance Area as per approved MMP 12.03.2021 geological axis 1 or 2 is 31.76 Ha to be cover in by end of 5 years	16 nos. of holes 800mtrs proposed in the year 2021-22	MMP also approved on 12.03.2021
1e	Balance reserve as on 01/04/20	As per approved MMP as on 28.02.2021 Reserve-0.66MT Remaining Resource:- 1.2MT	As per AR 2020-21(01.04.2021):- 0.611MT	Grade +45% Fe
1f	General remarks of inspecting officers on geology, exploration etc		Exploration of 16 nos. of holes are proposed in the current FY 2021-22 Further, Lease is divided into three non-contiguous blocks.	

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
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2a	Location of development w.r.t.lease area	Block2:N 1743850 - N1743430 & E 366330 - E366860 Block 1- N 1743470- N1743650 & E 366545 - E366880	Block 2: N 1743820 - N 1743600 & E 366340 - E 366880 Block 1- N 1743470- N1743650 & E 366545 - E366880	Two pits
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	No top soil benches. Seperate benches for OB &Ore	Yes	
2c	Stripping ratio or ore to OB ratio	1:5.04	1:5.59	Te : Te
2d	Quantity of topsoil generation in m3	NIL	NIL	
2e	Quantity of overburden generation in m3	1005156 te	1116600Te	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc		Development quantity achieved higher than the proposal quantity which may help better stabilization of mine faces.	

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	ONE	ONE	One pit at a time.
3b	Quantity of ROM mineral production proposed	2,00,000Tonnes	1,99,500 Tonnes	
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	
3g	Grade 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.	NIL	NIL	
3j	Provision of drilling and blasting in mineral benches	NOT PROPOSED	NO DRILLING & BLASTING	
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	6X8 PROPOSED	Deviation observed in some places.	Violation issued under rule11(1)
3m	Total area covered under excavation/pits	14.1743 Ha as per approved MMP.	11.33 Ha	Achieved as per AR 2020-21.
3n	Ore to OB ratio for the pit/mine during the year.	1:5.04	1:5.59	Te:te
3o	Total area put in use under different heads at the end of year	As per approved MMP Mining - 14.1743 ha. Dumping -6.74 ha. Mineral storage-1.17ha Road, Plants, buildings etc.-1.85 ha	Upto end of year 2020-21 Excavation-11.33 ha Dumping-3.91 ha Recl 7Reh 2.5ha Road, Plants, buildings etc.- -1.5 ha Others - 2.25 ha.	

3p	Production of ROM mineral during the last five year period as applicable	2016-17 200000 2017-18 199250 2018-19 198750 2019-20 199500 2020-21 200000T	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 opencast mining with deployment of shovel and tipper combinations. Violation issued on deviation observed on systematic and scientific mining as proposed in approved MMP.	

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	One waste dump is proposed in block1	Dumping activity not carried out in the proposed area. Violation issued	Top soil dumping - Nil& Mineral reject - Nil
4b	Location of topsoil, OB and mineral reject dumps	No top soil &MR	No Top Soil &MR	Deviation observed w r t location of dumping area in block 1.Hence, violation issued.
4c	Number of dumps within lease area and outside of lease area	Lease area = Two Non Lease area = N.A.	Lease area = Two Non Lease area =N.A.	One each block 1&2.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	No dumping is proposed within ultimate pit limit for year 2020-21	Dumping is in progress as per proposal in outside the UPL	Backfilling only in pit 2 and pit 1 for dumping.
4e	Number of active and alive dumps.	One active dump	One active dump	At block 1 is alive.
4g	Number of dumps established.	One	One	
4h	Whether Retaining wall or garland drain all along dumps are there.	No proposal	Nil	Fencing of 1150m. Existing are maintained. Proposal in the current year 2021-22.

4i	Length of Retaining wall or garland drain all along dumps	No proposal	NIL
4j	Number of settling ponds	1 settling tanks Proposed	1 settling pond maintained
4k	Specific comments of inspecting officer on waste dump management		Waste dump formation observed not as per the earmarked area. Further, Protective measures of dump formation in the new pit block 1 were not found in place. Violation issued.

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 in block 2 & Surface dumping in Block 1 is proposed for 2020-21	Deviation observed in backfilling and surface dumping area.	Violation issued.
5b	Area under backfilling of mined out area	2.647 Ha	reported 2.5 ha.Backfilling for Reclamation & rehabilitation activities as proposed were observed to be lagging in block II	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No proposal	Nil	No top soil.
5d	Total area fully reclaimed and rehabilitated	10Ha planatation	Reclamation & rehabilitation activities in block II were not achieved.	Violation issued
5e	General remarks of inspecting officers on backfilling and reclamation etc.		Backfilling for Reclamation & rehabilitation activities in block II were not achieved.	Violation issued

Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
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6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	PMCP work proposed in mining plan	NO	Violation issued
6b	Area available for rehabilitation (ha) .	2.67Ha	Reported 2.5Ha. However, not done properly.	VL issued.
6c	afforestation done (ha).	10Ha	2000 nos. as per the AR 2020-21	Violation issued
6d	No. of saplings planted during the year	20,000 nos. sapling	2000 nos. as per the AR 2020-21	Violation issued
6f	Any other method of rehabilitation	Planatation of backfilling area and water reservior	Rehabilitation work not yet done in mined out area.	Progression observed. violation issued.
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	2.67ha	2.5ha	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	2.67ha	2.5ha	
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	10ha with 20000 nos of sapling	2000saplings reported	violation issued.
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	remaining worked out pit of blockII	Not maintaned so far	violation issued.
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	20000 sapling	2000sapling	

6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	NIL	NIL	
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	NIL	NIL	
6p	Compliance of environmental monitoring (core zone and buffer zone)		ENVIRONMENTAL MONITORING IS CARRIED OUT.	Within the limit
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.		Reclamation & rehabilitation activities on mined out benches of block II were not achieved so far.	Violation issued.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	GRADEWISE	Grade wise Sorting	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	MACHANICAL	MACHANICAL	
7c	Different grade of mineral sorted out at mines.	YES	QUALITY MAINTAINED BELOW 55% Fe & 55-58 Fe %	
7d	Any beneficiation process at mines	NOT PROPOSED	Dry Crushing and screening is done	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues		Mineral conservation are observed to be in the line of sustainable exploitaion of mineral resources.	

 Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	NIL	NIL	No top soil
8b	Concurrent use or storage of topsoil	NIL	NIL	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	SEPARATE DUMP FOR OVERBURDEN & FINES stacks	SEPARATE DUMP FOR OVERBURDEN & FINES stacks	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Block II for R&R Block I for Dumping	Observed deviation in Block II for R&R Block I for Dumping	Violation issued.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Block II for R&R	Observed deviation	Violation issued.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	2020-21 :- 20,000 nos.	2000 nos saplings	In the year 2020-21 Violation issued.
8g	Survival rate	70%	70%	
8h	Water sprinkling on roads to control airborne dust	WATER SPRINKLING PROPOSED BY TWO WATER TANKERS	ONE WATER TANKERS ARE DEPLOYED FOR DUST SUPPRESSION	

8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Plantations on dump terraces are observed in block II. Further, Observed deviation in Block II for R&R and Block I for Dumping. Hence, Violation issued
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Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns		AR not submitted as per the stipulated time frame.	Violation issued.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Furnished	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.	Upto end of year 2020-21 Excavation- 11.33 ha Dumping-3.91 ha Road, Plants, buildings Recl/Reh- 2.5 Ha etc.- -1.5 ha Others - 2.25 ha.	R& R work observed to be not achieved in Block II	Violation issued
9d	Scrutiny of Annual return on afforestation	2000No's within lease area	Not achieved as desired for R&R	Violation issued
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	Limestone ROM stock- 67120te Lumps:- Below 55% Fe- 21843.10 te 55-58% Fe- 658.41 te Fines:- Below 55% Fe- 9212.46 te 55-58% Fe - 58983 te	Limestone ROM stock- 67120te Lumps:- Below 55% Fe- 21843.10 te 55-58% Fe-658.41 te Fines:- Below 55% Fe-9212.46 te 55-58% Fe - 58983 te	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex-mine price : Below 55% Fe- 2081.98Rs/te 55-58% Fe-2700 Rs/te Fines:- Below 55% Fe- 884 Rs/ te 55-58% Fe - 1445 Rs/ te Production Cost : Rs 700.48/- Per ton	Sample invoice checked	DMF &NMET were not furnished in part VII.
9k	Scrutiny of Annual return on mining machineries		Back hoe 1.4 CUM - 3 nos. Back hoe 2.2 CUM - 2 nos. Wheel loader 02nos. Dozer 02 nos. Tipper-16 nos,. Mobile crusher 01 no. Water tanker(10000Ltrs) 2 nos.	

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)	14-JUL-21			
MCDR17	Rule 26(2)	14-JUL-21			
MCDR17	Rule 35(2)	14-JUL-21			
MCDR17	Rule 45(5)(c	14-JUL-21			

Date :

(SURESH PRASAD)

Indian Bureau of Mines