

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

FMCP Inspection REPORT

Goa regional office

Mine file No : MAH/SDG/FE-28/GOA

Mine code : 30MSH28002

- (i) Name of the Inspecting : **K02**) **KALMATA M.K.**
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : Shri Victor T. Fernandes, Qualified Person.
Official with
Designation
- (iv) Date of Inspection : 03-OCT-18
- (v) Prev.inspection date :

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **MAULI**
- (b) **Registration NO.** :
- (c) Category : A Fully Mechanised
- (d) Type of Working : Opencast
- (e) Postal address
- State : MAHARASHTRA
- District : SINDHUDURG
- Village : REDI
- Taluka : VENGURLA
- Post office : REDI
- Pin Code : 416517
- FAX No. : 91-22-2854417
- E-mail : srivasta@bom5.vsnl.net.in
- Phone : 2025893
- (f) Police Station : REDI
- (g) First opening date : 01-JAN-54
- (h) Weekly day of rest : SUN
2. Address for : NEW INDIA MINING CORPN. (P) LTD.
correspondance : Nirmal, 16th Floor, Nariman Point
Mumbai 400021
3. (a) Lease Number : MSH0055
- (b) Lease area : 32.83
- (c) Period of lease : 20
- (d) Date of Expiry : 22-APR-20
4. Mineral worked : IRON ORE Main

5. Name and Address of the

Lessee : NEW INDIA MINING CORPN. (P) LTD.
 "NIRMAL", 16TH FLOOR,
 NARIMAN POINT, MUMBAI.
 GREATER BOMBAY MAHARASHTRA
 Phone:EPABX 2025893
 FAX :022-2854417

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

Mining Engineer

Name : RAJNI KANT SAHOO, Full Time
 Qualification : AMIE with FCC
 Appointment/ : 10-FEB-14 15-SEP-16
 Termination date

Manager

Name : Kush A Shirodkar
 Qualification : Second class Managers Certificate
 Appointment/ : 15-APR-15 30-APR-16
 Termination date

Manager

Name : SUSHIL CHARPE
 Qualification : B.E. (Mining) with FCC
 Appointment/ : 01-APR-13 31-AUG-16
 Termination date

6. Date of approval of Mining	:	Mining Scheme rule 12 MCDR1988	30-APR-04
Plan/Scheme of Mining	:	Modif.approved Mining Scheme	25-JAN-07
	:	Renewal under rule 24 MCR1960	18-APR-07
	:	Mining Scheme rule 12 MCDR1988	23-APR-10
	:	Modif.approved Mining Scheme	07-FEB-14
	:	Mining Scheme rule 12 MCDR1988	07-MAY-14

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Total 15 boreholes were proposed in the scheme period.	Lessee has drilled only 11 boreholes.	Violation is pointed out for not carrying out exploration as per the proposal.
1b	Exploration over lease area for geological axis 1 or 2	8.00ha	5.00ha	
1c	Exploration Agencies and Expenditure in lakh rupees during the year		Exploration was carried out by lessee himself.	
1d	Balance area to be explored to bring Geological axis in 1 or 2	8.00 Ha	5.00 Ha	
1e	Balance reserve as on 01/04/20		Reserves as on 01.04.2018	
			Reserves- 779567 tons Remaining Resources- 2270500 tons	
1f	General remarks of inspecting officers on geology, exploration etc		Most of the boreholes are ended in the ore only, so lessee has advised to do some deep holes up to discontinuity of the ore body and to explore entire mineralized area under G-1 level. Violation is pointed out for not carrying out the exploration as per the proposal.	

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	During the year 2017-18, there was a proposal to work b/w co-ordinates N-267 to N-474 and E-434 to E-826.	No working has been carried out in the year 2017-18.	

2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate removal and Ore and OB was proposed.	Mine was not working in the year 2017-18 and no OB and Ore was removed.	
2c	Stripping ratio or ore to OB ratio	1:1.34	Nil	Mine was not working during 2017-18.
2d	Quantity of topsoil generation in m3	Nil	Nil	
2e	Quantity of overburden generation in m3	157680	Nil	Mine was not working during 2017-18.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc		Mine was not working during 2017-18, due to non availability of place for dumping waste.	

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One	Nil	No working has been carriedout during the year 2017-18.
3b	Quantity of ROM mineral production proposed	248450 tons	Nil	Mine was not working due to non availability of place for dump.
3c	Recovery of sailable/usable mineral from ROM production	90%	Nil	
3d	Quantity of mineral reject generation	Nil	Nil	
3e	Grade of mineral rejects generation and threshold value declared.	NA	NA	
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	Mechanized	Nil	
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	Nil	Nil	
3k	Provision of mining machineries in mineral benches	Yes	No	Mine was not working
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	Nil	Mine was not working.
3m	Total area covered under excavation/pits		23.90ha	
3n	Ore to OB ratio for the pit/mine during the year.	1:1.34	Nil	Mine was not working.
3o	Total area put in use under different heads at the end of year		Area under Mining- 23.90Ha, waste disposal- 3.25Ha, Infrastructure- 2.63Ha	
3p	Production of ROM mineral during the last five year period as applicable	2017-18 248450 tons 2016-17 125775 tons 2015-16 235375 tons 2014-15 267425 tons 2013-14 267303 tons	2017-18 Nil 2016-17 4000 tons 2015-16 99136 tons 2014-15 54357 tons 2013-14 201334 tons	
3q	General remarks of inspecting officers on method of mining etc.			Mine is not working from may 2016 onwards.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Separate dumping of OB was proposed.	Mine was not working and no dumping was made in the year 2017-18.	
4b	Location of topsoil, OB and mineral reject dumps	Dumping was proposed between the sections 38P to 36P	Mine was not working and no dumping was made in the year 2017-18.	However dumping was not made as per the proposals during 2015-16 and 2016-17 and violation is pointed out for the same.
4c	Number of dumps within lease area and outside of lease area	One	No dumping was made in the year 2017-18.	Two dumps are exist within the lease area.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	within UPL	No dumping is made in the year 2017-18.	Earlier duming is made within the UPL.
4e	Number of active and alive dumps.	Two	Two	
4f	Number of dead dumps.	Nil	Nil	
4g	Number of dumps established.	Two	Two	
4h	Whether Retaining wall or garland drain all along dumps are there.	Yes	Yes retaining wall is constructed around the dump.	
4i	Length of Retaining wall or garland drain all along dumps		150m x 2m x 1.5m	
4j	Number of settling ponds	One	One	
4k	Specific comments of inspecting officer on waste dump management		Mine is not working from may 2016 onwards and no waste was generated and dumped in the year 2017-18. However in the year 2015-16 and 2016-17 dumping was not made as per the proposal and violation is pointed out for the same.	

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.	Yes	Mineral was not extracted as per the proposal and back filling was not done.
5b	Area under backfilling of mined out area	1.73 ha in the year 2017-18.	Mine was not working and no backfilling is done.
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Nil	Nil
5d	Total area fully reclaimed and rehabilitated	1.73 ha was proposed for backfilling in the year 2017-18.	Mine was not working and backfilling is not made as per the proposal.
5e	General remarks of inspecting officers on backfilling and reclamation etc.		It was proposed to backfill mined out area in the year 2016-17 and 2017-18. However mine was not working from may 2016 onwards and mineral is not extracted fully in the proposed backfilling area. So no backfilling was done in the present scheme 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.	Yearly report on PMCP is not submitted.	Violation is pointed out for the same.
6b	Area available for rehabilitation (ha) .	0.5ha (Plantation)	Nil	No backfilling was done in the year 2017-18.
6c	afforestation done (ha).	0.5Ha	0.5ha	
6d	No. of saplings planted during the year	2000	2100	

6e	Cumulative no .of plants		Approximately 60,000	
6f	Any other method of rehabilitation	Nil	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	1.73ha	No backfilling was done.	Mine is not working.
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	About 344340 tons of OB.	Nil	Mine is not working.
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestati on on backfilled area	1000	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	Nil	Nil	
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)		Lessee is regularly monitoring all the parameters of air, water and noise and all the parameters are within permissible limit.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.		Mine is not working from may 2016 onwards and mineral was not extracted fully in the proposed backfilling area. so backfilling was not carried out in the year 2016-17 and 2017-18.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area		Mine is not working and no grade wise sorting was done.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanical.	Mine was not working and no sorting was done in the year 2017-18.	
7c	Different grade of mineral sorted out at mines.		Nil	Mine is not working
7d	Any beneficiation process at mines	Nil	Nil	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues		Nil	Mine is not working.

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)	Yes	Mine was not working from may 2016 onwards and no OB was handled.	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Backfilling was proposed in the year 2017-18.	Mine was not working and no backfilling was carried out in the year 2017-18.	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Backfilling was proposed in the year 2017-18.	Mine was not working and no backfilling was carried out in the year 2017-18.	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)		About 60000 plantation is made as on date.	
8g	Survival rate		70-80%	
8h	Water sprinkling on roads to control airborne dust		Mine is not working.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area		Most of the area is degraded by mining and Plantation is made on the dumps.	

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
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9a	Status of submission of Monthly and Annual returns		Lessee is regularly submitting monthly and annula returns.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining engineer is shown as Mr. Nishanth Natiye.	Mr. Nishanth Natiye was terminated on 30.04.2018. And no Mining Engineer and Geologist are appointed by the lessee.	Violation is pointed out for not appointing Mining enginner and Geologist.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area under mining- 23.90Ha, waste disposal- 3.25Ha, Infrastructure -2.63Ha.	Almost matching.	
9d	Scrutiny of Annual return on afforestation	2100	Record of plantation was verified and details were found correct.	
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	No ROM stock was shown in the annual returns.	No ROM stock was observed.	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Nil	Nil	Mine is not working.
9h	Scrutiny of Annual return on fixed assets	Rs-11121059		
9k	Scrutiny of Annual return on mining machineries	One wheel loader and one pump.	No wheel loader was observed during inspection.	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)	09-OCT-18			
MCDR17	Rule 11(4)	09-OCT-18			
MCDR17	Rule 26(2)	09-OCT-18			
MCDR17	Rule 28(1)	09-OCT-18			
MCDR17	Rule 55(1)(3)	09-OCT-18			

Date :

(KALMATA M.K.)

Indian Bureau of Mines