

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

MCDR INSPECTION REPORT

Bhubaneshwar regional office

Mine file No : ORI/IRON-MN/SNG/MCDR-18/BBS

Mine code : 30ORI13024

- (i) Name of the Inspecting : **M007**) **SHRI HARKESH MEENA**
Officer and ID No.
- (ii) Designation : Regional Controller Mines
- (iii) Accompanying mine : **SHRI BIMLESH KUMAR SHRIVASTAVA, MINES MANAGER**
Official with
Designation
- (iv) Date of Inspection : 09/10/2021
- (v) Prev.inspection date : 18/10/2019

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **SAN INDPUR**
- (b) **Registration NO.** : **IBM/6072/2011**
- (c) Category : A Manual
- (d) Type of Working : Opencast
- (e) Postal address
- State : ORISSA
- District : SUNDARGARH
- Village : SAN INDPUR
- Taluka : BONAI
- Post office : PATMUNDA
- Pin Code :
- FAX No. : 06767-75631
- E-mail : gapl_sponge@yahoo.co.in
- Phone : 06767-75321
- (f) Police Station :
- (g) First opening date : 02/12/1980
- (h) Weekly day of rest : SAT
2. Address for : SAN INDPUR IRON-MN MINE
correspondance PO: PATMUNDA; DIST: SUNDERGARH
ORISSA
3. (a) Lease Number : ORI0137
- (b) Lease area : 70.92
- (c) Period of lease :
- (d) Date of Expiry : 09/09/2020
4. Mineral worked : MANGANESE ORE Associated
IRON ORE Main

5. Name and Address of the

Lessee : M/S NATIONAL ENTERPRISES
 PO.BOX 44 BARBIL- 758035
 KEONJHAR ORISSA
 Phone:06767-275686
 FAX :06767-275631

Owner : NATIONAL ENTERPRISES
 PO BOX :44 BARBIL KEONJHAR
 ORISSA
 Phone: 06767-275686
 FAX : 06767-275631

Mining Engineer

Name : SHRI RUDRA MOHAN NAYAK,Full Time
 Qualification : DEGREE MINING (AMIE)
 Appointment/ : 28/09/2021
 Termination date

Geologist

Name : SHRI RAJESH KUMAR SHARMA,Full Time
 Qualification : MSC GEOLOGY
 Appointment/ : 16/03/2021
 Termination date

Manager

Name : SHRI BIMALESH KUMAR SHRIVASTAVA
 Qualification : BE MINING
 Appointment/ : 08/04/2021
 Termination date

6. Date of approval of Mining	:	Renewal under rule 22 MCR1960	27/02/2001
Plan/Scheme of Mining		Mining Scheme rule 12 MCDR1988	20/12/2007
		FMCP under 23C(1)	20/12/2007
		Mining Scheme rule 12 MCDR1988	08/06/2010
		Mining Scheme rule 12 MCDR1988	15/05/2015
		MP review under 17(1) MCR 2016	14/11/2019

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	4 Nos. of Boreholes proposed during previous year i.e. 2019-20	Nil	The mining operation has not been carried out during the year as mining operation have been suspended by DDM, Koira since 26.08.2010 for want of statutory clearances.
1b	Exploration over lease area for geological axis 1 or 2	30 Nos. of Boreholes proposed during the year 2020-21	Nil	The mining operation has not been carried out during the year as mining operation have been suspended by DDM, Koira since 26.08.2010 for want of statutory clearances.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not specified	Nil	
1d	Balance area to be explored to bring Geological axis in 1 or 2	NA	As per Review of Mining Plan approved on 14.11.2019, the unexplored area is 45.191 ha	
1e	Balance reserve as on 01/04/20	NA	As per Review of Mining Plan approved on 14.11.2019, the reserve and resource as on 31.03.2021 is Reserve- 6.82 million tonne Resource-5.01 million tonne	

1f	General remarks of inspecting officers on geology, exploration etc	No exploration has been carried out during the year as mining operation have been suspended by DDM, Koira since 26.08.2010 for want of statutory clearances.
----	--	--

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Development was proposed in Pradhan Pit, Hutting Pit and Crusher Pit	Nil	The mining operation has not been carried out during the year as mining operation have been suspended by DDM, Koira since 26.08.2010 for want of statutory clearances.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	No generation of top soil. Separate Benches for overburden and mineral proposed.	Nil	The mining operation has not been carried out during the year as mining operation have been suspended by DDM, Koira since 26.08.2010 for want of statutory clearances.
2c	Stripping ratio or ore to OB ratio	1:0.986	Nil	The mining operation has not been carried out during the year as mining operation have been suspended by DDM, Koira since 26.08.2010 for want of statutory clearances.

2d	Quantity of topsoil generation in m3	Nil	Nil	
2e	Quantity of overburden generation in m3	157840 Cum	Nil	The mining operation has not been carried out during the year as mining operation have been suspended by DDM, Koira since 26.08.2010 for want of statutory clearances.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			The mining operation has not been carried out during the year as mining operation have been suspended by DDM, Koira since 26.08.2010 for want of statutory clearances.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Three pit	Nil	The mining operation has not been carried out during the year as mining operation have been suspended by DDM, Koira since 26.08.2010 for want of statutory clearances.

3b	Quantity of ROM mineral production proposed	413532 tonne	Nil	The mining operation has not been carried out during the year as mining operation have been suspended by DDM, Koira since 26.08.2010 for want of statutory clearances.
3c	Recovery of sailable/usable mineral from ROM production	145992 tonne	Nil	The mining operation has not been carried out during the year as mining operation have been suspended by DDM, Koira since 26.08.2010 for want of statutory clearances.
3d	Quantity of mineral reject generation	267540 tonne	nil	The mining operation has not been carried out during the year as mining operation have been suspended by DDM, Koira since 26.08.2010 for want of statutory clearances.
3e	Grade of mineral rejects generation and threshold value declared.	Below 55% and threshold value 45% Fe	Nil	The mining operation has not been carried out during the year as mining operation have been suspended by DDM, Koira since 26.08.2010 for want of statutory clearances.
3f	Quantity of sub grade mineral generation.	Same as mineral reject	Nil	
3g	Grade of sub grade mineral generation	Same as mineral reject	Nil	

3h	Manual / Mechanised method adopted for segregating from ROM	Mechanized	Nil	The mining operation has not been carried out during the year as mining operation have been suspended by DDM, Koira since 26.08.2010 for want of statutory clearances.
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	Provision of deep hole drilling and blasting	Nil	The mining operation has not been carried out during the year as mining operation have been suspended by DDM, Koira since 26.08.2010 for want of statutory clearances.
3k	Provision of mining machineries in mineral benches	Mechanized method of mining with dumper shovel combination, 2.5 Cum loader and 20 tonne dumper	Nil	The mining operation has not been carried out during the year as mining operation have been suspended by DDM, Koira since 26.08.2010 for want of statutory clearances.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Bench Height 6m, Bench width -12m	Bench Height 6m, Bench width -12m	

3m	Total area covered under excavation/pits	Total area proposed under excavation during plan period is 26.66 ha	As on 31.03.2021 , 19.160 ha	
3n	Ore to OB ratio for the pit/mine during the year.	1:0.986	Nil	
3o	Total area put in use under different heads at the end of year	During plan period 44.031 ha	As on 33.031 ha	
3p	Production of ROM mineral during the last five year period as applicable	2016-17:409983 tonne 2017-18:409979 tonne 2018-19:409979 tonne 2019-20:410001 tonne 2020-21:413532 tonne	2016-17: Nil 2017-18: Nil 2018-19: Nil 2019-20: Nil 2020-21: Nil	The mining operation has not been carried out during the year as mining operation have been suspended by DDM, Koira since 26.08.2010 for want of statutory clearances.
3q	General remarks of inspecting officers on method of mining etc.			The mining operation has not been carried out during the year as mining operation have been suspended by DDM, Koira since 26.08.2010 for want of statutory clearances.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
--------	------	-----------	-------------	---------

4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	No generation of top soil. Separate dumping of OB and mineral reject proposed	Nil	The mining operation has not been carried out during the year as mining operation have been suspended by DDM, Koira since 26.08.2010 for want of statutory clearances.
4b	Location of topsoil, OB and mineral reject dumps	Three OB dumps present on the lease. OB Dump-I South east side of lease OB Dump-II- East side of lease OB dump-III- south side of lease	Three OB dumps present on the lease. OB Dump-I South east side of lease OB Dump-II-East side of lease OB dump-III- south side of lease	
4c	Number of dumps within lease area and outside of lease area	Three OB dumps exists inside lease area	Three OB dumps exists inside lease area	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside UPL	Nil	
4e	Number of active and alive dumps.	3 Nos	3 Nos.	
4f	Number of dead dumps.	Nil	Nil	
4g	Number of dumps established.	Nil	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there.	Yes	Nil	
4i	Length of Retaining wall or garland drain all along dumps	NA	770 m retaining wall and garland drain exists around dump.	
4j	Number of settling ponds	Nil	Nil	Two settling ponds exists around subgrade stack.

4k	Specific comments of inspecting officer on waste dump management			The mining operation has not been carried out during the year as mining operation have been suspended by DDM, Koira since 26.08.2010 for want of statutory clearances.
----	--	--	--	--

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.	Nil	Nil	No area mature for back fillling
5b	Area under backfilling of mined out area	Nil	Nil	No area mature for back filling
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	No area mature for rehabilitation.
5e	General remarks of inspecting officers on backfilling and reclamation etc.			The mining operation has not been carried out during the year as mining operation have been suspended by DDM, Koira since 26.08.2010 for want of statutory clearances.

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 on or before 1st July	Not submitted	Violation pointed out to lessee
6b	Area available for rehabilitation (ha) .	Nil	Nil	
6c	afforestation done (ha).	0.5 ha	0.5 ha	
6d	No. of saplings planted during the year	800 Nos.	2000 Nos.	
6e	Cumulative no .of plants	NA	5000 Nos	
6f	Any other method of rehabilitation	Nil	Nil	
6g	Cost incurred on watch and care during the year	Rs. 50000	Rs. 50000	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	Nil	Nil	Area not matured
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Nil	Nil	Area not matured
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestati on on backfilled area	Nil	Nil	Area not matured for backfilling

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	No area matured
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	Nil	Nil	No waste land
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)	Monitoring proposed	Carried out	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			The mining operation has not been carried out during the year as mining operation have been suspended by DDM, Koira since 26.08.2010 for want of statutory clearances.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
--------	------	-----------	-------------	---------

7a	ROM Mineral dispatch or grade-wise sorting within lease area	Gradewise sorting within lease area	Nil	The mining operation has not been carried out during the year as mining operation have been suspended by DDM, Koira since 26.08.2010 for want of statutory clearances.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanical	Nil	The mining operation has not been carried out during the year as mining operation have been suspended by DDM, Koira since 26.08.2010 for want of statutory clearances.
7c	Different grade of mineral sorted out at mines.	Below 55% Fe 55% to 58% Fe 58% to 60% Fe 60% to 62% Fe 62% to 65% Fe above 65% Fe	Nil	The mining operation has not been carried out during the year as mining operation have been suspended by DDM, Koira since 26.08.2010 for want of statutory clearances.
7d	Any beneficiation process at mines .	No beneficiation plant	Nil	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			The mining operation has not been carried out during the year as mining operation have been suspended by DDM, Koira since 26.08.2010 for want of statutory clearances.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No generation of top soil proposed during the year	Nil	
8b	Concurrent use or storage of topsoil	Nil	Nil	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dumping of OB/waste and mineral reject proposed.	Nil	The mining operation has not been carried out during the year as mining operation have been suspended by DDM, Koira since 26.08.2010 for want of statutory clearances.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Nil	Nil	Area not matured
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Nil	Nil	Area not matured
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	NA	Additional 2000 Nos. sapling planted.	
8g	Survival rate	NA	60%	

8h	Water sprinkling on roads to control airborne dust	Proposed	Nil	The mining operation has not been carried out during the year as mining operation have been suspended by DDM, Koira since 26.08.2010 for want of statutory clearances.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			The mining operation has not been carried out during the year as mining operation have been suspended by DDM, Koira since 26.08.2010 for want of statutory clearances.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	NA	The annual return and monthly return submitted.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	The details of Mining Engineer, Geologist and manager filled in the anual return.	Mining Engineer, Geologist and manager appointed.	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	The area under pit-19.16 ha Reclaimed area- 0 ha Area under waste dump- 5.06 ha	Found to be in order.	
9d	Scrutiny of Annual return on afforestation	2000 Nos.	Plantation carried out.	

9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil	Nil	The mining operation has not been carried out during the year as mining operation have been suspended by DDM, Koira since 26.08.2010 for want of statutory clearances.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM Stock-	Nil Found to be in order	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Nil	Nil	The mining operation has not been carried out during the year as mining operation have been suspended by DDM, Koira since 26.08.2010 for want of statutory clearances.
9h	Scrutiny of Annual return on fixed assets	Rs. 158769490/-	Rs. 158769490/-	
9k	Scrutiny of Annual return on mining machineries	Nil	Nil	The mining operation has not been carried out during the year as mining operation have been suspended by DDM, Koira since 26.08.2010 for want of statutory clearances.

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)	09/10/2021	24/01/2022				
MCDR17	Rule 26(2)	09/10/2021	24/01/2022				
MCDR17	Rule 35(2)	09/10/2021	24/01/2022				
MCDR17	Rule 45(7)(a)	09/10/2021	24/01/2022				

Date :

(SHRI HARKESH MEENA)

Indian Bureau of Mines