

**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 : **RAM** ) **RAMKISHAN R**  
Officer and ID No.
- (ii) Designation : Sr. Asst. Contrl. Mines
- (iii) Accompanying mine : Shri Kailash Pradhan, Lessee's representative  
Official with  
Designation
- (iv) Date of Inspection : 18/10/2019
- (v) Prev.inspection date : 16/07/2016

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **SAN INDPUR**
- (b) **Registration NO.** :
- (c) **Category** : A ~~Manual~~ (OTFM)
- (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 :
- Phone : 06767-75321
- (f) **Police Station** :
- (g) **First opening date** : 02/12/1980
- (h) **Weekly day of rest** : SAT
2. **Address for correspondance** : SAN INDPUR IRON-MN MINE  
PO: PATMUNDA; DIST: SUNDERGARH  
ORISSA
3. (a) **Lease Number** : ORI0137
- (b) **Lease area** : 70.92
- (c) **Period of lease** : 20
- (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:75321  
 FAX :75631

Owner : NATIONAL ENTERPRISES  
 PO BOX :44 BARBIL KEONJHAR  
 ORISSA  
 Phone: 06767-75321  
 FAX : 06767-75631

## Mining Engineer

Name : SANJEEV KUMAR, Full Time  
 Qualification : B.E. (MINING)  
 Appointment/ :  
 Termination date

## Mining Engineer

Name : B.K. CHOWDHURY, Full Time  
 Qualification : DEGREE IN MINING ENGINEERING  
 Appointment/ : 01/11/2001  
 Termination date

## Manager

Name : N.A.KHAN  
 Qualification : B.Sc PERMIT MANAGER  
 Appointment/ :  
 Termination date

## Manager

Name : P. NAYAK  
 Qualification : MATRICULATION WITH PERMIT CERTIFICATE HC  
 Appointment/ : 01/11/2001  
 Termination date

6. Date of approval of Mining Plan/Scheme of Mining	:	Renewal under rule 22 MCR1960	27/02/2001
		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

## PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No such specific proposal.	13 nos of boreholes were proposed during the year 2018-19.	Nil
1b	Exploration over lease area for geological axis 1 or 2	13 nos of boreholes were proposed during the year 2018-19 to brought area under G1/G2 level.	Exploration could not be carried out as Mine operations have been suspended by DDM, koira, Govt. of Odisha since 26.08.2010 for want of Statutory clearances.	Nil
1c	Exploration Agencies and Expenditure in lakh rupees during the year		Exploration could not be carried out as Mine operations have been suspended by DDM, koira, Govt. of Odisha since 26.08.2010 for want of Statutory clearances.	
1d	Balance area to be explored to bring Geological axis in 1 or 2	60 nos of boreholes were proposed during plan period from 2015-16 to 2019-20 to brought area under G1/G2 level.	Exploration could not be carried out as Mine operations have been suspended by DDM, koira, Govt. of Odisha since 26.08.2010 for want of Statutory clearances.	
1e	Balance reserve as on 01/04/20	As per the approved document on 15.05.2015 the iron ore reserves are 14.754 mil.t. and resources are 14.694 mil.t. manganese resources are 0.1175 milt.	As no mine operations were carried out. the iron ore reserves as on 01.04.2019 are 14.754 mil.t. and resources are 14.694 mil.t. manganese resources are 0.1175 milt.	Nil

1f	General remarks of inspecting officers on geology, exploration etc	Exploration could not be carried out as Mine operations have been suspended by DDM, koira, Govt. of Odisha since 26.08.2010 for want of Statutory clearances.	Nil
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## Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	2 pits were proposed during the year 2018-19 for development called as pradhan pit & hutting pit (merged), crusher pit	Mine development could not be carried out as Mine operations have been suspended by DDM, koira, Govt. of Odisha since 26.08.2010 for want of Statutory clearances.	Nil.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	No top soil generation is proposed and seperate benches in waste and mineral are proposed.	Nil	Mine development could not be carried out as Mine operations have been suspended by DDM, koira, Govt. of Odisha since 26.08.2010 for want of Statutory clearances.
2c	Stripping ratio or ore to OB ratio	1:0.505 cu.m/cu.m.	Mine development could not be carried out during the year 2018-19 as Mine operations have been suspended by DDM, koira, Govt. of Odisha since 26.08.2010 for want of Statutory clearances.	Nil
2d	Quantity of topsoil generation in m3	Not applicable	Nil	Nil

2e	Quantity of overburden generation in m3	53090 cu.m.	Mine development could not be carried out during the year 2018-19 as Mine operations have been suspended by DDM, koira, Govt. of Odisha since 26.08.2010 for want of Statutory clearances.	Nil
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc		Mine development could not be carried out during the year 2018-19 as Mine operations have been suspended by DDM, koira, Govt. of Odisha since 26.08.2010 for want of Statutory clearances.	Nil

#### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	2 nos of pits propsoed for production during the year 2018-19.	Production could not be carried out during the year 2018-19 as Mine operations have been suspended by DDM, koira, Govt. of Odisha since 26.08.2010 for want of Statutory clearances.	Nil
3b	Quantity of ROM mineral production proposed	0.4 mil.t.	Production could not be carried out during the year 2018-19 as Mine operations have been suspended by DDM, koira, Govt. of Odisha since 26.08.2010 for want of Statutory clearances.	Nil
3c	Recovery of sailable/usable mineral from ROM production	salable ore 0.31 mil.t. and mineral reject 0.065 mil.t.	Production could not be carried out during the year 2018-19 as Mine operations have been suspended by DDM, koira, Govt. of Odisha since 26.08.2010 for want of Statutory clearances.	Nil

3d	Quantity of mineral reject generation	0.065 mil.t.	Production could not be carried out during the year 2018-19 as Mine operations have been suspended by DDM, koira, Govt. of Odisha since 26.08.2010 for want of Statutory clearances.	Nil
3e	Grade of mineral rejects generation and threshold value declared.	+45-57% Fe	Production could not be carried out during the year 2018-19 as Mine operations have been suspended by DDM, koira, Govt. of Odisha since 26.08.2010 for want of Statutory clearances.	Nil
3f	Quantity of sub grade mineral generation.	Not applicable	Nil	Nil
3g	Grade of sub grade mineral generation	Not applicable	Nil	Nil
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised.	Production could not be carried out during the year 2018-19 as Mine operations have been suspended by DDM, koira, Govt. of Odisha 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.	Not applicable	Nil	
3j	Provision of drilling and blasting in mineral benches	drilling and blasting has been proposed.	Nil	Nil
3k	Provision of mining machineries in mineral benches	shovel and dumper combination is proposed for excavation.	Nil	Nil

3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	6 m bench height is proposed.	Production could not be carried out during the year 2018-19 as Mine operations have been suspended by DDM, koira, Govt. of Odisha since 26.08.2010 for want of Statutory clearances.	
3m	Total area covered under excavation/pits	26.66 ha put to use during the plan period 2015-16 to 2019-20.	Production could not be carried out during the year 2018-19 as Mine operations have been suspended by DDM, koira, Govt. of Odisha since 26.08.2010 for want of Statutory clearances.	Nil
3n	Ore to OB ratio for the pit/mine during the year.	1:0.505 cu.m/cu.m.	Nil	
3o	Total area put in use under different heads at the end of year	Total area put to use during the plan period is 44.031 ha during the plan period i.e. 2015-16 to 2019-20.	Production could not be carried out during the year 2018-19 as Mine operations have been suspended by DDM, koira, Govt. of Odisha since 26.08.2010 for want of Statutory clearances.	
3p	Production of ROM mineral during the last five year period as applicable	2014-15: 0.4 mil.t. 2015-16: 0.4 mil.t. 2016-17: 0.4 mil.t. 2017-18: 0.4 mil.t. 2018-19: 0.4 mil.t.	Production could not be carried out during the year from 2015-16 to 2018-19 as Mine operations have been suspended by DDM, koira, Govt. of Odisha since 26.08.2010 for want of Statutory clearances.	Nil
3q	General remarks of inspecting officers on method of mining etc.		Production could not be carried out during the year 2018-19 as Mine operations have been suspended by DDM, koira, Govt. of Odisha since 26.08.2010 for want of Statutory clearances.	Nil

#### 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)	no top soil generation is proposed. waste generated is proposed to be dumped in waste dump. mineral rejects are proposed to be blended if possible or stored in mineral rejects stacks.	Mine operations not be carried out during the year 2018-19 as Mine operations have been suspended by DDM, koira, Govt. of Odisha since 26.08.2010 for want of Statutory clearances.	Nil
4b	Location of topsoil, OB and mineral reject dumps	waste dump-3 and subgrade stack-1 and subgrade stack-2	Mine operations not be carried out during the year 2018-19 as Mine operations have been suspended by DDM, koira, Govt. of Odisha since 26.08.2010 for want of Statutory clearances.	
4c	Number of dumps within lease area and outside of lease area	1 no of waste dump is proposed.	Nil	Mine operations not be carried out during the year 2018-19 as Mine operations have been suspended by DDM, koira, Govt. of Odisha since 26.08.2010 for want of Statutory clearances.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	outside UPL	Mine operations not be carried out during the year 2018-19 as Mine operations have been suspended by DDM, koira, Govt. of Odisha since 26.08.2010 for want of Statutory clearances.	
4e	Number of active and alive dumps.	one no fo waste dump	Nil	
4f	Number of dead dumps.	Not applicable	Nil	
4g	Number of dumps established.	Not applicable	Nil	



4h	Whether Retaining wall or garland drain all along dumps are there.	proposed.	Mine operations not be carried out during the year 2018-19 as Mine operations have been suspended by DDM, koira, Govt. of Odisha since 26.08.2010 for want of Statutory clearances.
4i	Length of Retaining wall or garland drain all along dumps	Not applicable	Mine operations not be carried out during the year 2018-19 as Mine operations have been suspended by DDM, koira, Govt. of Odisha since 26.08.2010 for want of Statutory clearances.
4j	Number of settling ponds	Not applicable	Nil
4k	Specific comments of inspecting officer on waste dump management		Mine operations not be carried out during the year 2018-19 as Mine operations have been suspended by DDM, koira, Govt. of Odisha 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.	Not applicable	Nil	Mine operations not be carried out during the year 2018-19 as Mine operations have been suspended by DDM, koira, Govt. of Odisha since 26.08.2010 for want of Statutory clearances.
5b	Area under backfilling of mined out area	Not applicable	Nil	

5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Not applicable Nil	
5d	Total area fully reclaimed and rehabilitated	Not applicable Nil	
5e	General remarks of inspecting officers on backfilling and reclamation etc.		Mine operations not be carried out during the year 2018-19 as Mine operations have been suspended by DDM, koira, Govt. of Odisha 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).	yeraly report has to be submitted	Mine operations not be carried out during the year 2018-19 as Mine operations have been suspended by DDM, koira, Govt. of Odisha since 26.08.2010 for want of Statutory clearances.	Nil
6b	Area available for rehabilitation (ha) .	Not applicable	Nil	
6c	afforestation done (ha).	0.5 ha	Mine operations not be carried out during the year 2018-19 as Mine operations have been suspended by DDM, koira, Govt. of Odisha since 26.08.2010 for want of Statutory clearances.	

6d	No. of saplings planted during the year	800 nos	Mine operations not be carried out during the year 2018-19 as Mine operations have been suspended by DDM, koirra, Govt. of Odisha since 26.08.2010 for want of Statutory clearances.
6e	Cumulative no .of plants	Not applicable	
6f	Any other method of rehabilitation	Not applicable	Nil
6g	Cost incurred on watch and care during the year	Not applicable	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( L x B x D	Not applicable	Nil
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Not applicable	Nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on on backfilled area	Not applicable	Nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Not applicable	Nil

6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	Not applicable	Nil	
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	0.5 ha		Mine operations not be carried out during the year 2018-19 as Mine operations have been suspended by DDM, koira, Govt. of Odisha since 26.08.2010 for want of Statutory clearances.
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	800 nos		Mine operations not be carried out during the year 2018-19 as Mine operations have been suspended by DDM, koira, Govt. of Odisha since 26.08.2010 for want of Statutory clearances.
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	plantation		Mine operations not be carried out during the year 2018-19 as Mine operations have been suspended by DDM, koira, Govt. of Odisha since 26.08.2010 for want of Statutory clearances.
6p	Compliance of environmental monitoring (core zone and buffer zone)	periodical monitoring of environmental monitoring is propsoed.		Mine operations not be carried out during the year 2018-19 as Mine operations have been suspended by DDM, koira, Govt. of Odisha since 26.08.2010 for want of Statutory clearances.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			Nil

## Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
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7a	ROM Mineral dispatch or grade-wise sorting within lease area	grade-wise sorting of mineral is proposed.	Mine operations not be carried out during the year 2018-19 as Mine operations have been suspended by DDM, koira, Govt. of Odisha since 26.08.2010 for want of Statutory clearances.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanical	Mine operations not be carried out during the year 2018-19 as Mine operations have been suspended by DDM, koira, Govt. of Odisha since 26.08.2010 for want of Statutory clearances.
7c	Different grade of mineral sorted out at mines.	+45%-57% Fe and +57%	Mine operations not be carried out during the year 2018-19 as Mine operations have been suspended by DDM, koira, Govt. of Odisha since 26.08.2010 for want of Statutory clearances.
7d	Any beneficiation process at mines	Not applicable	Nil
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues		Mine operations not be carried out during the year 2018-19 as Mine operations have been suspended by DDM, koira, Govt. of Odisha since 26.08.2010 for want of Statutory clearances.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
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8a	Separate removal and utilization of topsoil (Rule 32)	Not applicable Nil	Mine operations not be carried out during the year 2018-19 as Mine operations have been suspended by DDM, koira, Govt. of Odisha since 26.08.2010 for want of Statutory clearances.
8b	Concurrent use or storage of topsoil	Not applicable Nil	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	for waste and mineral rejects propsoed.	Mine operations not be carried out during the year 2018-19 as Mine operations have been suspended by DDM, koira, Govt. of Odisha 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	Not applicable Nil	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Not applicable Nil	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	800 nos	Mine operations not be carried out during the year 2018-19 as Mine operations have been suspended by DDM, koira, Govt. of Odisha since 26.08.2010 for want of Statutory clearances.

8g	Survival rate	Mine operations not be carried out during the year 2018-19 as Mine operations have been suspended by DDM, koira, Govt. of Odisha since 26.08.2010 for want of Statutory clearances.
8h	Water sprinkling water on roads to control airborne dust sprinling is proposed.	Mine operations not be carried out during the year 2018-19 as Mine operations have been suspended by DDM, koira, Govt. of Odisha since 26.08.2010 for want of Statutory clearances.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Mine operations not be carried out during the year 2018-19 as Mine operations have been suspended by DDM, koira, Govt. of Odisha since 26.08.2010 for want of Statutory clearances.

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Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	monthly and annual returns to be submitted.	submitted.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Graduate Mining Engineer: 1	Graduate Mining Engineer: 1	Mine operations not be carried out during the year 2018-19 as Mine operations have been suspended by DDM, koira, Govt. of Odisha since 26.08.2010 for want of Statutory clearances.

9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	under current (O/C) Workings 19.160 ha, waste disposal 5.060 ha, occupied by plant, buildings, residential, welfare buildings & roads 3.030 ha	under current (O/C) Workings 19.160 ha, waste disposal 5.060 ha, occupied by plant, buildings, residential, welfare buildings & roads 3.030 ha	Mine operations not be carried out during the year 2018-19 as Mine operations have been suspended by DDM, koira, Govt. of Odisha since 26.08.2010 for want of Statutory clearances.
9d	Scrutiny of Annual return on afforestation	500 nos	500 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	Lumps Iron ore closing stock is 60% to below 62% 45.943 t and 62% to below 65% 10490.396 t	Lumps Iron ore closing stock is 60% to below 62% 45.943 t and 62% to below 65% 10490.396 t	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	production cost is Nil		Mine operations not be carried out during the year 2018-19 as Mine operations have been suspended by DDM, koira, Govt. of Odisha since 26.08.2010 for want of Statutory clearances.
9h	Scrutiny of Annual return on fixed assets	Rs 146014204	Rs 146014204	Nil



9k	Scrutiny of Annual return on mining machineries	SHOVEL (HYDRAULIC) 0.900 CUM 1, BACK HOE 1.100 CUM 3 nos.	SHOVEL (HYDRAULIC) 0.900 CUM 1, BACK HOE 1.100 CUM 3 nos.	Mine operations not be carried out during the year 2018-19 as Mine operations have been suspended by DDM, koirra, Govt. of Odisha since 26.08.2010 for want of Statutory clearances.
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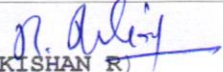
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Details of violations observed during current inspection and compliance position of violation pointed out

Violation observed		Show cause position	
Rule NO.	Issued on Compliance on	Rule NO.	Issued on Compliance on

No violation.

Date : 31/12/19

  
(RAMKISHAN R)

Indian Bureau of Mines