

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

MCDR INSPECTION REPORT

Bhubaneshwar regional office

Mine file No : ORI/CR/JJP/MCDR-14/BBS

Mine code : 11ORI19015

- (i) Name of the Inspecting : **SKM**) **SANJAY KUMAR MAHAPATRA**
Officer and ID No.
- (ii) Designation : Assistant Mining Engineer
- (iii) Accompanying mine : Mr.Badri Narayan Das, Mines Manager
Official with
Designation
- (iv) Date of Inspection : 20/07/2022
- (v) Prev.inspection date : 25/09/2021

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **JINDAL KALIAPANI**
- (b) **Registration NO.** : **IBM/1129/2011**
- (c) Category : A Mechanised
- (d) Type of Working : Opencast
- (e) Postal address
- State : ORISSA
- District : JAJPUR
- Village : KALIAPANI
- Taluka : JAJPUR ROAD
- Post office : KALIAPANI
- Pin Code :
- FAX No. : 06726-268315
- E-mail : jindal_mines@yahoo.com
- Phone : 06726 -268315,268449
- (f) Police Station : Kaliapani
- (g) First opening date : 28/01/2002
- (h) Weekly day of rest : SUN
2. Address for : POST&VIL: KALIAPANI
correspondance DIST:JAJPUR
P.S:TOMKA,ORISSA,PIN:755 047
3. (a) Lease Number : ORI0760
- (b) Lease area : 89
- (c) Period of lease : 20
- (d) Date of Expiry : 03/01/2022
4. Mineral worked : CHROMITE Main

5. Name and Address of the

Lessee : M/S JINDAL STAINLESS LTD.
KALINGA NAGAR JAJPUR
JAJPUR ORISSA
Phone:
FAX :

Owner : SHRI TARUN KUMAR KHULBE
JAJPUR ORISSA
Phone: 07042533440
FAX : NA

Agent : SHRI BACHCHAN KUMAR
JAJPUR ORISSA
Phone: 9777451265
FAX : NA

Geologist

Name : S.K.VAIDYA, Full Time
Qualification : MSC APPLIED GEOLOGY
Appointment/ : 12/05/2008
Termination date

Manager

Name : BADRI NARAYAN DAS
Qualification : BE MINING
Appointment/ : 06/06/2022
Termination date

Manager

Name : SHRI S P BISWAL
Qualification : DIPLOMA MINING
Appointment/ : 01/05/2020 11/08/2021
Termination date

6. Date of approval of Mining	:	Modif.of approved Mining Plan	29/01/2005
Plan/Scheme of Mining		Mining Scheme rule 12 MCDR1988	14/06/2007
		Modif.approved Mining Scheme	24/06/2010
		Mining Scheme rule 12 MCDR1988	02/05/2012
		Modif.approved Mining Scheme	13/06/2016
		MP review under 17(1) MCR 2016	29/12/2016
		MP modif under 17(3) MCR 2016	18/03/2021
		MP modif under 17(3) MCR 2016	08/11/2021

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	NIL	NIL	Mines has been closed By MOEF CC, New Delhi since 22nd Feb. 2018
1b	Exploration over lease area for geological axis 1 or 2	NIL	NIL	Mines has been closed By MOEF CC, New Delhi since 22nd Feb. 2018
1c	Exploration Agencies and Expenditure in lakh rupees during the year	NOT APPLICABLE	NOT APPLICABLE	Mines has been closed By MOEF CC, New Delhi since 22nd Feb. 2018
1d	Balance area to be explored to bring Geological axis in 1 or 2	NIL	NIL	
1e	Balance reserve as on 01/04/20	30.35 Lakh tons	Balance reserves as on 01.04.2022:- 30.35 LAKH TONNE	Mines has been closed By MOEF CC, New Delhi since 22nd Feb. 2018
1f	General remarks of inspecting officers on geology, exploration etc	NO EXPLORATION PROPOSAL	NIL	Mines has been closed By MOEF CC, New Delhi since 22nd Feb. 2018

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Quarry-1-S180/S585 to E538/E1055	NIL	Mines has been closed By MOEF CC, New Delhi since 22nd Feb. 2018
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches proposed for over burden and minerals. No topsoil generation proposed.	Nil. The mine was non-working since 22.02.2018 due to suspension of mining operation by MOEF and CC, New Delhi.	The mine was non-working since 22.02.2018 due to suspension of mining operation by MOEF and CC, New Delhi.

2c	Stripping ratio or ore to OB ratio	1 : 4.85	NIL	
2d	Quantity of topsoil generation in m3	NIL	NIL	
2e	Quantity of overburden generation in m3	53240 CUM	NIL	Mines has been closed By MOEF CC, New Delhi since 22nd Feb. 2018
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc		Mines has been closed By MOEF CC, New Delhi since 22nd Feb. 2018	NON WORKING MINES AS IT WAS CLOSED SINCE 22.02.2018. HENCE NO WORK CARRIED.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	01 NOS BAND - 06, QUARRY NO -02	NIL	Mines has been closed By MOEF CC, New Delhi since 22nd Feb. 2018
3b	Quantity of ROM mineral production proposed	10972.5 METRIC TONNE	NIL	Mines has been closed By MOEF CC, New Delhi since 22nd Feb. 2018
3c	Recovery of sailable/usable mineral from ROM production	8778 TONNE	NIL	Mines has been closed By MOEF CC, New Delhi since 22nd Feb. 2018
3d	Quantity of mineral reject generation	2194.5 TONNE	NIL	Mines has been closed By MOEF CC, New Delhi since 22nd Feb. 2018
3e	Grade of mineral rejects generation and threshold value declared.	MR-10-40% CR203, TV = >10%	NIL	Mines has been closed By MOEF & CC, New Delhi since 22nd Feb. 2018
3f	Quantity of sub grade mineral generation.	NIL	NIL	NO PROPOSAL
3g	Grade of sub grade mineral generation	NOT APPLICABLE	NOT APPLIVABLE	NO SUBGRADE GENERATION

3h	Manual / Mechanised method adopted for segregating from ROM	MECHANISED AND MANNUAL	MECHANISED AND MANNUAL	Mines has been closed By MOEF & CC, New Delhi since 22nd Feb. 2018. NO WORK CARRIED.
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	NIL	For beneficiating SG/ Tailings a comprehensive study report by IMMTcarried.	
3j	Provision of drilling and blasting in mineral benches	PROPOSAL OF DRILLING BLASTING IN THE APPROVED MINING PLAN	NIL. AS MINE WAS CLOSED FROM 22.02.2018	Mines has been closed By MOEF & CC, New Delhi since 22nd Feb. 2018
3k	Provision of mining machineries in mineral benches	PROVISION WAS THERE	NIL	Mines has been closed By MOEF & CC, New Delhi since 22nd Feb. 2018
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	HT- 8 METER, WIDTH- 08 METER	HT- 8 METER, WIDTH- 08 METER	Mines has been closed By MOEF & CC, New Delhi since 22nd Feb. 2018. NOT IN OPERATION DURING PREVIOUS YEAR.
3m	Total area covered under excavation/pits	Q-1= Nil Q-2= 1.49Ha	NIL	Mines has been closed By MOEF & CC, New Delhi since 22nd Feb. 2018
3n	Ore to OB ratio for the pit/mine during the year.	Q-1= Nil Q-2= 1:4.85	NIL	Mines has been closed By MOEF & CC, New Delhi since 22nd Feb. 2018

30 Total area put in use under different heads at the end of year	Sl. No. Particular Area put to use at Start of Year (ha) (A)*	Sl. No. Particular Area put to use at Start of Year (ha) (A)*	Mines has been closed By MOEF & CC, New Delhi since 22nd Feb. 2018.
	1 Area under Mining 36.572	1 Area under Mining 36.572	
	2 Topsoil stacking 0	2 Topsoil stacking 0	
	3 Overburden/Waste Dumping 28.475	3 Overburden/Waste Dumping 28.475	
	4 Mineral Storage 4.5507	4 Mineral Storage 4.5507	
	5 Infrastructure (Workshop, Administrative Building etc.) 1.56	5 Infrastructure (Workshop, Administrative Building etc.) 1.56	
	6 Roads 2.668	6 Roads 2.668	
	7 Railways 0	7 Railways 0	
	8 Tailing Pond 0.7	8 Tailing Pond 0.7	
	9 Effluent Treatment Plant 0.6	9 Effluent Treatment Plant 0.6	
	10 Mineral Separation Plant 1.47	10 Mineral Separation Plant 1.47	
	11 Township Area 0	11 Township Area 0	
	12 Others to Specify (Green belt) 5.04	12 Others to Specify (Green belt) 5.04	
	Total 81.6357	Total 81.6357	

3p	Production of ROM mineral during the last five year period as applicable	2017-2018 Q-1- 99928 MT Q-2- 48500 MT 2018-2019 Q-1- 214355 MT Q-2- Nil 2019-2020 Q-1- 148794MT Q-2- Nil 2020-2021 Q-1- 98370 MT Q-2- Nil 2021-2022 Q-1- 73740.000 Q-2- Nil	2017-2018: 33600MT 2018-19:-NIL 2019-20:-NIL 2020-21:- NIL 2021-22:- NIL	Q-2 -	Mines has been closed By MOEF & CC, New Delhi since 22nd Feb. 2018
3q	General remarks of inspecting officers on method of mining etc.		NO WORK CARRIED AS MINE WAS CLOSED SINCE 22.02.2018		Mines has been closed By MOEF & CC, New Delhi since 22nd Feb. 2018

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	No top soil generation. Separate dumping of OB and Mineral reject.	NIL	MINE WAS CLOSED SINCE 22.02.2018
4b	Location of topsoil, OB and mineral reject dumps	DUMP-01: E371912- E372102 ,N2325498- N2325710 N2324895N23254 89, E372205- E372301 DUMP-02 :368938E- 369045E 2327042N- 2327256N	NIL	MINE WAS CLOSED FROM 18.02.2022 BY MOEF

4c	Number of dumps within lease area and outside of lease area	02 DUMPS INSIDE LEASE AREA	02 DUMPS INSIDE LEASE AREA PRESENT BUT NO WORK DURING PREVIOUS YEAR.	MINE WAS CLOSED SINCE 18.02.2022
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Dump-1 (In between quarry-1 & 2) in between coordinates (S 537 / S 870 to E 800 / E 1128) Dump-2 (North west of lease area) in between coordinates (S 200 / S 680 to W 290 / E 350)	Dump-1 (In between quarry-1 & 2) in between coordinates (S 537 / S 870 to E 800 / E 1128) Dump-2 (North west of lease area) in between coordinates (S 200 / S 680 to W 290 / E 350) NO WORK DURING PREVIOUS YEAR AS MINE WAS CLOSED FROM 18.02.2022	MINES CLOSED BY MOEF FROM 18.02.2022
4e	Number of active and alive dumps.	01	NIL	
4f	Number of dead dumps.	01	NIL	
4g	Number of dumps established.	01	NIL	
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	PROSAL FOR MAINTAINANCE.	Total 1087 m of Garland Drain and Retaining walls exist around the dumps.	
4j	Number of settling ponds	NO PROPOSAL OF NEW POND	01 POND EXISTS.	
4k	Specific comments of inspecting officer on waste dump management		Mines has been closed By MOEF & CC, New Delhi since 22nd Feb. 2018	Mines has been closed By MOEF & CC, New Delhi since 22nd Feb. 2018

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.	NIL	NIL	
5b	Area under backfilling of mined out area	NIL	NIL	
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.		PITS ARE NOT MATURED FOR BACK FILLING AND FOR RECLAMATION AND REHABILITATION.	MINE WAS NOT WORKING SINCE 22.02.2018. CLOSED BY MOEF.

Progressive Mine Closure Plan:

Sl.No.	Item	Proposals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	YES	SUBMITTED ON 19.04.2022	
6b	Area available for rehabilitation (ha) .	NIL	NIL	
6c	afforestation done (ha).	NIL	1.5 HA	Mines has been closed By MOEF & CC, New Delhi since 22nd Feb. 2018

6d	No. of saplings planted during the year	NIL	PLANTED 3500 PLANTS	Mines has been closed By MOEF & CC, New Delhi since 22nd Feb. 2018
6e	Cumulative no .of plants	NIL	130500 PLANTS	Mines has been closed By MOEF & CC, New Delhi since 22nd Feb. 2018
6f	Any other method of rehabilitation	NOT APPLICABLE	NOT MATURED FOR REHABILITATION.	
6g	Cost incurred on watch and care during the year	NIL	RS 192000/-	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	NIL	NOT APPLICABLE AS NO AREA IS MATURED.	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	NIL	NIL	
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area	NIL	NIL	Mines has been closed By MOEF & CC, New Delhi since 22nd Feb. 2018. AREA IS NOT MATURED FOR RECLAMATION AND REHABILITATION.
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	NOT APPLICABLE	NOT APPLICABLE	

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)	Quarterly environmental monitoring in core zone & buffer zone.	Quarterly environmental monitoring in core zone & buffer zone being carried.	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.		NOT MATURED FOR RECLAMATION AND REHABILITATION.	Quarterly environmental monitoring in core zone & buffer zone.

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	NIL	The mine was non-working since 22.02.2018 due to suspension of mining operation by MOEF and CC, New Delhi.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual as well as mechanical	NIL	The mine was non-working since 22.02.2018 due to suspension of mining operation by MOEF and CC, New Delhi.

7c	Different grade of mineral sorted out at mines.	10 to 40 % Cr2O3	NIL	The mine was non-working since 22.02.2018 due to suspension of mining operation by MOEF and CC, New Delhi.
7d	Any beneficiation process at mines .	Two beneficiation plants are installed within lease area i.e. COB plant I & II	NO BENEFICIATION PROCESS CARRIED	NO BENEFICIATION PROCESS CARRIED DURING PREVIOUS YEAR AS The mine was non-working since 22.02.2018 due to suspension of mining operation by MOEF and CC, New Delhi.
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			NO WORK CARRIED DURING PREVIOUS YEAR AS The mine was non-working since 22.02.2018 due to suspension of mining operation by MOEF and CC, New Delhi.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No proposal for removal of top soil	NIL	NIL
8b	Concurrent use or storage of topsoil	NIL	NIL	NIL
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Sepparate dumps proposed	NIL	NIL

8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	NIL	NIL	NIL
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	NIL	NIL	NOT MATURED
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	NIL	3500 PLANTATION CARRIED	NIL
8g	Survival rate	NIL	70%	NIL
8h	Water sprinkling on roads to control airborne dust	PROPOSED	NIL	The mine was non-working since 22.02.2018 due to suspension of mining operation by MOEF and CC, New Delhi.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			The mine was non-working since 22.02.2018 due to suspension of mining operation by MOEF and CC, New Delhi.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
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9a	Status of submission of Monthly and Annual returns	SUBMITTED	NIL	MINE IS CLOSED SINCE 22.02.2018. HENCE ALL INFORMATION REGARDING PRODUCTION, DISPATCH ETC ARE NIL
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	GEOLOGIST : Mr.Sanjiw Kumar Vaidya (M Tech - Applied Geology) Total Experience : 22 Years MINING ENGG: NIL	GEOLOGIST : Mr.Sanjiw Kumar Vaidya (Applied Geology) Mr. Badri Narayan Das (Degree in Mining Engineering), 1st Class Manager's Certificate of Competency(U/R) . Total Experience : 13 Years Mob No -9777588639 DATE OF .APPOINTMENT.- 06.06.2022	NO VIOLATION POINTED AS GEOLOGIST AND MINING ENGG EMPLOYED AND PRESENT DURING INSPECTION ON 20.07.2022
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	1 Area under Open cast working 28.332 2 Overburden/Waste Dumping 28.475 3 Infrastructure (Workshop, Administrative Building etc.) 4.228	Area under Open cast working 28.332 2 Overburden/Waste Dumping 28.475 3 Infrastructure (Workshop, Administrative Building etc.) 4.228	Mine was not in operation since 22.02.2018
9d	Scrutiny of Annual return on afforestation	3500 plants	3500 plants	Survival rate 70%
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	ROM; 174.807 Tonne Lump below 40% Cr2O3 1902.857 Tonne Fines below 40% Cr2O3 7601.07 Tonne Fines 40 % to below 52% Cr2O3 2113.295 Tonne Concentrate 9386.69 Tonne	ROM; 174.807 Tonne Lump below 40% Cr2O3 1902.857 Tonne Fines below 40% Cr2O3 7601.07 Tonne Fines 40 % to below 52% Cr2O3 2113.295 Tonne Concentrate 9386.69 Tonne	No change observed during inspection as the mine is non working since 22.02.2018.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	NIL	NIL	Mine is non working since 22.02.2018
9h	Scrutiny of Annual return on fixed assets	Value of fixed asset at the begining of the year Rs 24121589/- Depriciation Rs 9776674/- Net value Rs 14344915/-		Nil
9k	Scrutiny of Annual return on mining machineries	Mine is closed since 22.02.2018.		Mine is closed since 22.02.2018.

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

Date :

(SANJAY KUMAR MAHAPATRA)

Indian Bureau of Mines