

**INDIAN BUREAU OF MINES**  
**MINERALS DEVELOPMENT AND REGULATION DIVISION**  
**MCDR INSPECTION REPORT**  
**BHUBANESHWAR REGIONAL OFFICE**

File No-ORI/CR/JJP/MCDR-9/BBS/VOL-II

Mine Code- 11ORI19009

**General**

<b>S N</b>	<b>Particulars</b>	<b>Details</b>
1	Name of the Mine	Talangi Chromite Mine
2	Date of Inspection	26.10.2022
3	Name of Inspecting Officer	Shri Ashok Kumar Pany, Assistant Mining Engineer
4	Name of official accompanying inspection	Shri S N Mohanty, Mines Manager
5	Last date of Inspection & Officer	19.06.2021, Shri S K Mohapatra, Senior Mining Geologist
6	Total Lease Area (Ha) with breakup of Non-forest and forest land	Forest Land- 39.741 ha Non Forest Land- 25.942 ha Total Lease area- 65.683 ha
7	Mine code	11ORI19009
8	IBM Registration Number under rule 45 of MCDR, 2017	IBM/4421/2011
9	Name of the lessee, Address, phone, email and fax number	M/s IDC OF ODISHA LTD. IDCOL House, Ashok Nagar, Unit-II, PB no 73, Bhubaneswar Phone No.- 0674-2530898 Email- idcmining@yahoo.in
10	Village	Talangi
11	Taluka/Mandal	Sukinda
12	District	Jajpur
13	Pin code	755028
14	State	Odisha
15	Post office	Kansa
16	Nearest police station	Kaliapani
17	Nearest Railway station	Tomka
18	Date of Grant of Mining Lease	04.06.2003
19	Date of Execution	16.09.2003
20	Date of Expiry	15.09.2053
21	Date of opening of Mine	16.09.2003
22	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Sri Balwant Singh , IAS Managing Director IDC of Odisha Ltd.,IDCOL HOUSE, Ashok Nagar, Unit-II, PB.No.78, Bhubaneswar-1 Phone:0674-2530898 Email: idc@idcorissa.com Fax: 0674-2530518 Date of Appointment- 06.07.2021

23	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Sri B.K Sahoo, IDCOL Ferro Chrome & Alloys Ltd. & Agent- Talangi Chromite Mine Phone: 06726-220212 Fax:06726-225524 Mob no.9937442217. Email- ifcal@nic.in Date of Appointment- 29/06/2021.
24	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Shri S.N Mohanty, B.Tech (Mining) Talangi Chromite Mine, At-Talangi, Po-Kansa, Ps-Kaliapani, Odisha-755028. Mob. 9437187972, Email- tcminesidcol@gmail.com Date of appointment: -26.12.2020
25	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Shri S.N Mohanty, B.Tech (Mining) Talangi Chromite Mine, At-Talangi, Po-Kansa, Ps-Kaliapani, Odisha-755028. Mob. 9437187972, Email- tcminesidcol@gmail.com Date of appointment: -26.12.2020
26	Name of the Geologist, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Mr Sumanta Sahu, M.Sc. in Geology Talangi Chromite Mine, At-Talangi, Po-Kansa, Ps-Kaliapani- Odisha- 755028. Mob. 9437086404, Email- tcminesidcol@gmail.com Date of appointment: -20.06.2013
27	Date of Approval of Review of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	Review of Mining Plan approved vide letter No. RMP/A/28-ORI/BHU/2021-22 Dated 26.11.2021 for the period 2022-23 to 2026-27.
28	Mineral(s) granted in lease and proved for mining	Chromite
29	Method of Mining(Open cast, Underground)	Open cast
30	Category (Fully Mechanised, Others or Manual)	Category-A, Fully Mechanized
31	Captive/Non Captive	Non-Captive
32	Present EC Capacity	140000 Tonnes

Scientific Mining: Compliance of proposals of approved Mining Plan/Review of mining.

**Exploration**

S.N.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No proposal	Nil	
1b	Exploration over lease area during the for Geological axis 1 or 2.	No proposal	Nil	
1c	Exploration Agency & Expenditure in lakh Rupees during the year	Not specified	Not applicable	
1d	Balance area to be explored to bring Geological axis in 1 or 2	The balance area to be explored is 38.313 ha		
1e	Balance reserves as on 01.04.2022	Reserve- : 220258 Tonne Resource : 88848 Tonne Total : 309106 Tonne		
1f	General remarks of inspecting officer on geology, exploration etc.	The potential mineralised area of 27.37 ha has been explored under G1 level.		

**Development**

S.N.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area	Quarry No.2	Nil	
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	Separate Benches Proposed	Nil	
2c	Stripping ratio or ore to OB ratio	1:6	Nil	
2d	Quantity of topsoil generation in m <sup>3</sup>	984	Nil	
2e	Quantity of overburden/waste generation in m <sup>3</sup>	240050	Nil	
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	The mining operation is under temporary discontinuance since 20.06.2020.		

**Exploitation**

S.N.	Item	Proposals	Actual work	Remarks
3a	Number of pits proposed for production	One	Nil	
3b	Quantity of ROM production proposed	60018 tonne	Nil	
3c	Recovery of salable/usable mineral from ROM production	39618	Nil	
3d	Quantity of mineral reject generation	20400	Nil	
3e	Grade of mineral reject generation and threshold value declared	Mineral reject-10 % to 15 % Cr <sub>2</sub> O <sub>3</sub> Threshold Value- 10 % Cr <sub>2</sub> O <sub>3</sub>	Nil	
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 / Mechanized method adopted for segregating from ROM	Mechanized	Nil	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	No beneficiation study proposed	Nil	
3j	Provision of drilling & blasting in mineral benches	Provision of drilling & blasting proposed in mineral benches	Nil	
3k	Provision of mining machineries in mineral benches	Excavator and Dumper combination proposed	Nil	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Bench Height- 6m, Width- 12m	Nil	
3m	Total area covered under excavation/pits	26.957 ha	Nil	

3n	Ore to OB ratio for the pit/mine during the year	1:6	Nil	
3o	Total area put in use under different heads at the end of year	1.Area Under Excavation-26.957 ha 2.O.B Dump-12.995 ha 3.Mineral storage- 7.980 ha 4.Infrastructure-4.733 ha 5.Road- 1.543 ha 6.Tailing Pond-0.100 ha 7.ETP- 0.150 ha 8.COB Plants-0.650 ha 9.Magazine- 0.230 ha	Nil	
3p	Production of ROM mineral during last five-year period, as applicable	2017-18 : 59520 MT 2018-19 : 59641 MT 2019-20: 59690 MT 2020-21 : 59921 MT 2021-22: 60018 MT	2017-18: 59469 MT 2018-19: 35581 MT 2019-20: Nil 2020-21: Nil 2021-22: Nil	
3q	General remarks of inspecting officer on method of mining etc.	The mining operation is under temporary discontinuance since 20.06.2020.		

#### **Solid Waste Management-Dumping**

S.N	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	O.B -Back filling in Quarry No.1 Topsoil - Stacking	Nil	
4b	Location of topsoil, OB & mineral reject dumps	Waste Dump on the Eastern side of Lease	Nil	
4c	Number of dumps within lease area and outside lease area	02	Nil	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Dump-1 N3070 to N3110 W1790 to W1840 (180 m towards south of Quarry 2 UPL) Dump -2 N3250 to 3650 W2020 to 2410 (80 m towards west of Quarry 2 UPL)	Nil	
4e	Number of active & alive dumps	Nil	Nil	
4f	Number of dead dumps	01	Nil	
4g	Number of dumps stabilised	01	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 dump	No proposal	Nil	

4j	Number of settling ponds	No proposal	Nil	
4k	Specific comments of inspecting officer on waste dump management	The mining operation is under temporary discontinuance since 20.06.2020.		

### **Solid Waste Management-Backfilling**

S.N.	Item	Proposals	Actual work	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	Quarry-1 already exhausted and proposed for backfilling	Nil	
5b	Area under backfilling of mined out area	0.686 Ha	Nil	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	No proposal	Nil	
5d	Total area fully reclaimed & rehabilitated	No proposal	Nil	
5e	General remarks of inspecting officer on backfilling, reclamation etc.	The mining operation is under temporary discontinuance since 20.06.2020.		

### **Progressive Mine Closure Plan**

S.N.	Item	Proposals (Yr.2021-22)	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly - Rule 26.	YES	YES	
6b	Area available for rehabilitation (ha)	0.25 ha	NIL	
6c	Afforestation done (ha)	0.85 ha	NIL	
6d	No. of saplings planted during the year	2125	NIL	
6e	Cumulative no. of plants	80800 Nos.		-
6f	Any other specific method of rehabilitation	-	-	-
6g	Cost incurred on watch & care during the year	Nil	Nil	-
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (L X B X D).	0.686 ha	Nil	-
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Void filled by waste/tailings.	0.686 ha	Nil	-

6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on the backfilled area.	Nil	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	0.25 ha	Nil	-
6n	Compliance of Rehabilitation of waste land within lease (ii) Area rehabilitated (ha) Method of rehabilitation	Area- 025 ha.	Nil	-
6o	Compliance of Rehabilitation of waste land within lease (iii) Method of rehabilitation	Method- Plantation	Nil	-
6p	Compliance of Environmental monitoring (core zone & buffer zone)	Quarterly monitoring of Air and Ground water quality proposed	Carried out	-
6q	General remark of inspecting officer on PMCP compliance and progressive closure operation etc.	The mining operation is under temporary discontinuance since 20.06.2020.		

### **Mineral Conservation**

S.N.	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Grade wise sorting within lease area	Nil	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Mechanized	Nil	
7c	Different grade of mineral sorted out at mines	10 % to 15 % Cr <sub>2</sub> O <sub>3</sub> and above 15% Cr <sub>2</sub> O <sub>3</sub>	Nil	
7d	Any beneficiation process at mines	COBP1-5tph COBP2-10tph	Nil	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	Beneficiation process proposed within lease area .		

## Environment

S.N.	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Separate removal and utilization of topsoil proposed	Nil	
8b	Concurrent use or storage of topsoil	No proposal	Nil	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No proposal	Nil	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal	Nil	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal	Nil	
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	No proposal	Nil	80800 Nos. Of cumulative plantation up to 31/03/2022
8g	Survival rate	Not specified	Nil	
8h	Water sprinkling on roads to control airborne dust	Water sprinkling on haul roads proposed to suppress the dust	Nil	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	The aesthetic beauty in & around the mine area maintained.		

## Compliance of Rule 45

S.N.	Item	COMMENTS		Remarks
9a	Status of submission of Monthly and Annual returns	Submitted		
S.N.	Item	Details Given in AR.	Observation of I/Officer	Remarks
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Information on Mine manager and Geologist furnished	Appointed	The mining operation is under temporary discontinuance since 20.06.2020.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Pit: 25.065 ha , Reclaimed area- 2.458 ha, Area under Dump- 12.995 ha	Appears to be correct	



9d	Scrutiny of Annual return on afforestation	Nil		
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Nil		
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM stock- Nil, Grade wise stock-631 tonne	Appears to be correct.	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Nil		
9i	Scrutiny of Annual return on fixed assets	Value of Fixed assets -Rs. 66407574 /-	Appears to be correct.	
9k	Scrutiny of Annual return on mining machineries	Nil		

**Violation observed during current inspection and compliance position of earlier violation pointed out:**

- (a) Compliance position of earlier violation pointed out: - No violations pointed out during earlier inspection.
- (b) The mine was non-working since 20.06.2020 and no violations observed during current inspection.

Date-09.11.2022

Ashok Kumar Pany  
Assistant Mining Engineer