

MCDR INSPECTION REPORT

1) Name of Inspecting officer:	Sri Jitendriya Pradhan
2) Designation	Asst. Mining Engineer
3) Accompanying mine official with designation	Sri Badri Narayan Das Mines Manager
4) Date of Inspection	14.02.2025

S.N.	Particulars	Details
1	Name of the Mine	Kaliapani Chromite Mines, Kaliapani.
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	Forest – 24.24 Ha & Non-forest – 64.76 Ha (as per HAL settlement) The entire ML area of 89 Ha. Was declared as Forest as per Sabik records during the year 2015.
3	Mine code	11ORI19015
4	IBM Registration Number under rule 45 of MCDR, 1988	IBM/1129/2011
5	Name of the lessee, Address, phone, email and fax number	M/s Jindal Stainless Limited. Kaliapani Chromite Mines At-Po-Ps- Kaliapani,Jajpur.Odisha. Email-jindal_mines@yahoo.com Fax No- 06726268315
6	Village	Kaliapani
7	Taluka/Mandal	Sukinda
8	District	Jajpur
9	Pin code	755047
10	State	Odisha
11	Post office	Kaliapani
12	Nearest police station	Kaliapani
13	Nearest Railway station	Tomaka
14	Date of Grant of Mining Lease	04.01.2002
15	Date of Execution	04.01.2002
16	Date of opening of Mine	28.01.2002
17	Date of first Renewal, if applicable and its period & expiry	08.06.2022. Extension of Validity Period up to 03.01.2052 from 04.01.2022 of Mining Lease Under Section 8A (3) of MMDR Amendment Act,2015.

18	Date of second Renewal, if applicable and its period &	N/A
19	Date of submission of renewal application if Mining Operations are continuing	N/A
20	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Mr. Jagmohan Sood Whole Time Directors, Jindal Stainless Limited. Jindal Center, 12-Bhikaji cama place, Dist- South West Delhi Pin- 110066 Mob- 9896095028 <u>Email-jindal_mines@yahoo.com</u>

21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Mr.Basant Kumar Mohapatra Associate Vice President M/s Jindal Stainless Limited. Kalinganagar Industrial Complex,Danagadi,Jajpur,Odisha. Mob No- 9938250029 D.O.A.-08.01.2025 Mail- basant.mohapatra@jindalstainless.com
22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Mr.Badri Narayan Das M/s Jindal Stainless Limited. Kaliapani Chromite Mines At-Po-Ps- Kaliapani,Jajpur.Odisha Mob No - 9777588639 D.O.A.-06.06.2022
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Mr. Badri Narayan Das (Degree in Mining Engineering), 1st Class Manager's Certificate of Competency(U/R) . Total Experience : 15 Years Address : Kaliapani Chromite Mines At-Po-Ps- Kaliapani,Jajpur.Odisha. Mob No -9777588639 D.O.A.-06.06.2022
24	Name of the Geologist, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Mr.Sanjiw Kumar Vaidya (M Tech – Applied Geology) Total Experience : 24 Years Address : Jindal Chromite Mines At-Po-Ps- Kaliapani,Jajpur.Odisha. Mob No - 9938250389 D.O.A.-26.11.2008
25	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and	Modification of Mining Plan(Open Cast & Underground) 2021-22 To 2025-26 :

	specific condition in approval letter, if any.	BBS/JJP/CR/2174/MPM/2022-23, Date: 17.08.2022.
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	Modification of Mining Plan(Open Cast & Underground) 2021-22 To 2025-26 : BBS/JJP/CR/2174/MPM/2022-23, Date: 17.08.2022.
27	Mineral(s) granted in lease and proved for mining	Chromite

28	Method of Mining(Open cast, Underground)	Open cast
29	Category (Fully Mechanized, Others or Manual)	Fully Mechanized
30	Captive/Non Captive	Captive

Details about Mining Plan / Mining Scheme

a) Letter No. and date of approval of mining plan:	314(3)/99/MCCM(CZ) /MP-7, 29.12.2000 Modified Mining Plan(Open Cast & Underground) 2022-23 To 2025-26 : BBS/JJP/CR/2174/MPM/2022-23/450 ,Date: 17.08.2022
b) Letter No. and date of approval of Review of Mining Plan :	Modified Mining Plan(Open Cast & Underground) 2022-23 To 2025-26 : BBS/JJP/CR/2174/MPM/2022-23/450 ,Date: 17.08.2022
c) Period of mining plan/ mining scheme in force :	From 2022-23 to 2025-26 financial year. (01.04.2022 to 31.03.2026)

Scientific Mining: Compliance of proposals of approved mining plan/scheme of mining. (Duplication of information in existing TMIS data sheets and draft write up has been avoided.)

PART II-

1. Scientific Mining:

Exploration:

S.N.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	5 B.H.- 1503M 4DTH- 120M	Nil	Mines was closed from 22 nd Feb'2018 to till 25.04.2023. Due to 5 years of non-operation

1b	Exploration over lease area for Geological axis 1 or 2.	15 DTH- 450 M	Nil	the quarry road and benches were not in good condition for immediate operation. After received clearance from statutory body, we had started the finalisation contractor for opencast operation. Actual mining operation started on 26.04.2023.
1c	Exploration Agency & Expenditure in lakh Rupees during the year	NA	NA	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	Nil	
1e	Balance reserves as on 01.04.2024	38.15 Lakh tonnes	840 tonnes	
1f	General remarks of inspecting officer on geology, exploration etc.	Mines was closed from 22 nd Feb'2018 to till 25.04.2023. Due to 5 years of non-operation the quarry road and benches were not in good condition for immediate operation. After received clearance from statutory body, we had started the finalisation contractor for opencast operation. Actual mining operation started on 26.04.2023.		

2. Development:

S.N.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area	Bench-11 to Bench – 17 NW direction	NIL	Mines was closed from 22 nd Feb'2018 to till 25.04.2023. Due to 5 years of non-operation the quarry road
2b	Separate benches in	Top soil –Nil	NIL	

	topsoil, overburden and mineral (Rule 15)	Over burden – 07 Ore - 01		and benches were not in good condition for immediate operation. After received clearance from statutory body, we had started the finalisation contractor for opencast operation. Actual mining operation started on 26.04.2023.
2c	Stripping ratio or ore to OB ratio	Q-1-1:12.92 Q-2- NA	Q-1- Nil Q-2-NA	
2d	Quantity of topsoil generation in m ³	Q-1- Nil Q-2- Nil	Nil Nil	
2e	Quantity of overburden generation in m ³	Q-1- 2778474 Q-2-13194	Q-1- Nil Q-2-Nil	
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc	Less development as the mine was not full-fledged operative.		

3. Exploitation

S. N.	Item	Proposals	Actual work	
3a	Number of pits proposed for production	02 Nos (Band-I-Quarry-01 Band-VI-Quarry-02)	02 Nos (Band-I-Quarry-01 Band-VI-Quarry-02)	Mines was closed from 22 nd Feb'2018 to till 25.04.2023. Due to 5 years of non-operation the quarry road and benches were not in good condition for immediate operation. After received clearance from statutory body, we had started the finalisation contractor for opencast operation. Actual mining operation started on 26.04.2023.
3b	Quantity of ROM mineral production proposed	Q-1- 215000MT Q-2- Nil	Q1- Nil Q-2- 840 MT	
3c	Recovery of salable/usable mineral from ROM production	Q-1- 150500 MT Q-2-Nil	Q1- Nil Q-2- 840 MT	
3d	Quantity of mineral reject generation	Q-1- 64500MT Q-2- NIL	Q-1-Nil Q-2- Nil	
3e	Grade of mineral reject generation and threshold value declared	MR-10-40% of Cr ₂ O ₃ (Fines) TV=>10% Cr ₂ O ₃	MR-10-40% of Cr ₂ O ₃ (Fines) TV=>10% Cr ₂ O ₃	
3f	Quantity of sub-grade mineral generation	Nil	Nil	
3g	Grade of sub-grade	N/A	N/A	

	mineral generation			
3h	Manual / Mechanized method adopted for segregating from ROM	Both Manual & Mechanized	Both Manual & Mechanized	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	No Proposal	For beneficiating SG/ Tailings JSL has done a comprehensive study report by IMMT (Prev. RRL).	
3j	Provision of drilling & blasting in mineral benches	As per Modification of Mining Scheme	Nil	
3k	Provision of mining machineries in mineral benches	As per Modification of Mining Scheme	NIL	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Q-1-8 m Q-2-8 m	Q-1-Nil Q-2-Nil	
3m	Total area covered under excavation/pits	Q-1= Nil Q-2= 1.49Ha	Q-1-Nil Q-2-Nil	
3n	Ore to OB ratio for the pit/mine during the year	Q-1= Nil Q-2= 1:4.85	Q-1-Nil Q-2-Nil	

3o	Total area put in use under different heads at the end of year	Attached as Annexure – II	NA	Mines was closed from 22 nd Feb'2018 to till 25.04.2023. Due to 5 years of non-operation the quarry road and benches were not in good condition for immediate operation. After received clearance from statutory body,
3p	Production of ROM mineral during the last five year period as applicable.			
	2019-2020	Q-1- 148794MT Q-2- Nil	Q-1- Nil Q-2- Nil	
	2020-2021	Q-1- 98370	Q-1- Nil	

		MT Q-2- Nil	Q-2- Nil	we had started the finalisation contractor for opencast operation. Actual mining operation started on 26.04.2023.
	2021-2022	Q-1- 215000 Q-2- Nil	Q-1- Nil Q-2- Nil	
	2022-2023	Q-1- 31816 Q-2- 10972	Q-1- Nil Q-2- Nil	
	2023-2024	Q-1- 215000 Q-2- Nil	Q-1- Nil Q-2- 840	
3q	General remarks of inspecting officer on method of	Less development as the mine was not full-fledged operative.		

4. Solid Waste Management-Dumping:

S.N.	Item	Proposals	Actual work	
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	No top soil generation. Separate dumping of OB and Mineral reject is being carried out.	Nil	Mines was closed from 22 nd Feb'2018 to till 25.04.2023. Due to 5 years of non-operation the quarry road and benches were not in good condition for immediate operation. After received clearance from statutory body, we had started the finalisation contractor for opencast operation. Actual mining operation started on 26.04.2023.
4b	Location of topsoil, OB & mineral reject dumps	Shown in Surface Plan.		
4c	Number of dumps within lease area and outside lease area	02(Inside)	Nil	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Dump-1 (In between quarry-1 & 2) Dump-2 (North west of lease area.	Dump-1 (In between quarry-1 & 2) Dump-2 (North west of lease area.	

4e	Number of active & alive dumps	01	Nil	
4f	Number of dead dumps	01	Nil	
4g	Number of dumps stabilized	01	Nil	
4h	Whether Retaining wall or garland drain all along dumps are	Yes	Yes made.	

	there			
4i	Length of Retaining wall or garland drain all along dump	Maintained	Maintained	
4j	Number of settling ponds	01	Nil	
4 k	Specific comments of inspecting officer on waste dump management	Less development as the mine was not full-fledged operative.		

5. 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	Nil	Nil	Mines was closed from 22 nd Feb'2018 to till 25.04.2023. Due to 5 years of non-operation the quarry road and benches were not in good condition for immediate operation. After received clearance from statutory body, we had started the finalisation contractor for opencast operation. Actual mining operation started on 26.04.2023.
5b	Area under backfilling of mined out area	Nil	Nil	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	Nil	Nil	
5d	Total area fully reclaimed & rehabilitated	Nil	Nil	
5e	General remarks of inspecting officer on backfilling, reclamation etc	Less development as the mine was not full-fledged operative.		

6. Progressive Mine Closure Plan:

S.N.	Item	Proposals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly - Rule 23E (2). Details should be given in the format as given in Annexure-20.		Submitted on 29.06.2024	Yes Submitted Timely. Attached as Annexure-20
6b	Area available for rehabilitation (ha)	Nil	Nil	Back Filled Area.
6c	Afforestation done (ha)	Nil	2.5	
6d	No. of saplings planted during the year	Nil	8500	
6e	Cumulative no. of plants	Nil	145250 (Cumulative from 2002 to till date)	
6f	Any other specific method of rehabilitation	No		
6g	Cost incurred on watch & care during the year	442500	309750	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (L X B X D).	Nil	Nil	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Void filled by waste/tailings.	Nil	Nil	

6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on the backfilled area.	Nil	0.8	
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir.	N/A	N/A	
6l	Compliance on reclamation and rehabilitation by backfilling (v) Any other specific means	Backfilling by retreat method.	Backfilling by retreat method.	
6m	Compliance of Rehabilitation of waste land within lease (i) Afforestation	Nil	Nil	
6n	Compliance of Rehabilitation of waste land within lease (ii) Area rehabilitated (ha) Method of rehabilitation	Nil	Nil	
6o	Compliance of Rehabilitation of waste land within lease (iii) Method of rehabilitation	Nil	Nil	
6p	Compliance of Environmental monitoring (core zone & buffer zone)	Quarterly environmental monitoring in core zone & buffer zone.	Complied as per statute.	
6f	General remarks of inspecting officer on PMCP compliance & progressive closure	Less development as the mine was not full-		

	operations	fledged operative.		
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7. Mineral Conservation:

S.N.	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	For the year 2023-24 Q-1- 1,50,500 Q-2- Nil	Q-1 – 2046.470 MT Q-2- 2426.240 MT	Mines was closed from 22 nd Feb'2018 to till 25.04.2023. Due to 5 years of non-operation the quarry road and benches were not in good condition for immediate operation. After received clearance from statutory body, we had started the finalisation contractor for opencast operation. Actual mining operation started on 26.04.2023.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Manual/ Mechanized	Nil	
7c	Different grade of mineral sorted out at mines	Fines- Below- 40 to 52 % Cr2O3 and Lump –Above 10% Cr2O3 is sorted out.	Q-1 – 2046.470 MT Q-2- 2426.240 MT	
7d	Any beneficiation process at mines	COBP I & II	COBP I & II	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	Less development as the mine was not full-fledged operative.		

8. Environment:

S.N.	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	NIL	NIL	Mines was closed from 22 nd Feb'2018 to till 25.04.2023. Due to 5 years of non-operation the quarry road and benches were not in good condition for immediate operation. After received clearance from statutory body, we had started the finalisation contractor
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 and Mineral reject is being carried out.	Nil	
8d	Use of overburden, waste rock, rejects	NIL	NIL	

	and fines dumps for restoring the land to its original use			for opencast operation. Actual mining operation started on 26.04.2023.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	NIL	NIL	

8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	NIL	8500	
8g	Survival rate	NIL	68%	
8h	Water sprinkling on roads to control airborne dust	Being carried out	Being carried out	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Less development as the mine was not full-fledged operative.		

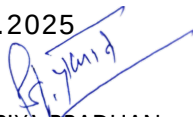
9. Compliance of Rule 45 :

S.N.	Item	Proposals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Monthly returns – On or before 10 th of next month	Submitted in due Time.	
		Annual Return – On or before 1 st July 2022	Submitted in due Time.	
		H-4 -2021-2022	Submitted in due	
		PMCP 2021-2022	Time.	
		Self Appraisal on Approved	Submitted in due	

		Scheme of		
		Mining Machinery Statement	Time.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager		Submitted in Form-I .	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.		Submitted & Accepted	

9d	Scrutiny of Annual return on Afforestation		Submitted & Accepted	
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)		Submitted & Accepted	
9f	Scrutiny of Annual return on ROM stock and/or graded ore		Submitted & Accepted	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost etc.		Submitted & Accepted	
9h	Scrutiny of Annual return on fixed assets		Submitted & Accepted	
9i	Scrutiny of Annual return on mining machineries		Submitted & Accepted	

Date: 24.03.2025

A handwritten signature in blue ink, appearing to be 'Jitendra Pradhan', written over a diagonal line.

NAME- JITENDRIYA PRADHAN