

MCDR INSPECTION REPORT**General:**

SL. No.	Particulars	Details
1	Name of the Mine	Ostapal Chromite Mine
	Name of Inspecting Officer & Designation	Shri Sujit Kumar Jena, JMG
	Date of Inspection	09.01.2025
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	72.843 Ha, Non-Forest: 4.419 Ha, Forest: 68.424 Ha.
3	Mine code	11ORI19005
4	IBM Registration Number under rule 45 of MCDR, 2017	IBM/173/2011
5	Name of the lessee, Address, phone, email and fax number	M/s. Ferro Alloys Corporation Ltd., Ostapal Chromite Mines, PO:Kaliapani, Dist – Jajpur, Ph. No. 06726 - 201009
6	Village	Gurujang
7	Taluka/Mandal	Sukinda
8	District	Jajpur
9	Pincode	755028
10	State	Odisha
11	Post office	Kaliapani
12	Nearest police station	Kaliapani
13	Nearest Railway station	Jajpur – Keonjhar Road.
14	Date of Grant of Mining Lease	13.08.1985
15	Date of Execution	13.08.1985
16	Date of opening of Mine	03.12.1985
17	Date of expiry	Validity of the lease period: 13/08/1985 to 12/08/2035 (Fifty years)
18	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Sri. Pankaj Kumar Sharma(Nominated Owner and Director) M/S FACOR LTD Chrome Ore Mining Division, D.P. Nagar Bhadrak-756135(ODISHA) 06784-242170
19	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Mr. Muthumari M. (Agent and Head O&M Mines) FACOR D.P. Nagar Randia

		Post- Bhadrak, Odisha Mail ID- facor.mined@vedanta.co.in Ph. No. 9673221359
20	Name of the Mines Manager with Address, mobile no, email, fax number and date of appointment in mine	Mr. Ajay Kumar Patra (BE Mining) 25 Years of experience, Ostapal Chromite mine , M/S FACOR, Post- Kaliapani, Dist-Jajpur, Pin- 755028, Ph no.- 943706935, Mail- ajaya.patra@vedanta.co.in , Date of appointment- 05.04.2013
21	Name of the Mining Engineer, Qualification and total experience with Address, mobile no, email, fax/phone number and date of appointment in mine	Mr. Ajay Kumar Patra (BE Mining) 25 Years of experience, Ostapal Chromite mine , M/S FACOR, Post- Kaliapani, Dist-Jajpur, Pin- 755028, Ph no.- 943706935, Mail- ajaya.patra@vedanta.co.in , Date of appointment- 05.04.2013
22	Name of the Geologist, Qualification and total experience with Address, mobile no, email, fax number and date of appointment in mine	Sri I. Rama Rao, M.Sc. (Geology) 25 years' experience. Ostapal Chromite Mines, M/s Facor Ltd Post. Kaliapani, Dist.Jajpur-755028 Ph.no.9437528823 Email: imandirama.rao@vedanta.co.in Date of appointment- 14.12.2009
23	Date of Approval of Mining Plan/Review of Mining Plan/ their modifications with five-year period and specific condition in approval letter, if any.	Modified mining plan Vide letter no. MCDR-MiFLOCR/6/2023-BBS Dtd. 14.06.2023
24	Mineral (s) granted in lease and proved for mining	Chromite
25	Method of Mining(Opencast, Underground)	Opencast
26	Category (Fully Mechanised, Others or Manual)	Fully Mechanized
27	Captive/Non Captive	Non-captive
28	Present EC Capacity	2,40,000 MT

Exploration:

SL.No.	Item	Proposals (FY 2023-24)	Actual work	Remarks
1a	Backlog of previous year	0	Nil	The entire lease area has already been covered under G1 category.
1b	Exploration over lease area for Geological axis 1 or 2.	72.843	72.843	
1c	Exploration Agency & Expenditure in lakh Rupees during the year	Maheshwari mining private limited	Maheshwari mining private limited	
1d	Balance area to be explored to bring Geological axis in 1 or 2	0	0	

1e	Balance reserves as on (in tonne)01.04.2024	19,468983.43	As per AR
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Development:

SL.No.	Item	Proposals (FY 2023-24)	Actual work	Remarks
2a	Location of development w.r.t. lease area	E/W 2329190.0000 232976.0000 N/S 373750.0000 374556.0000	E/W 2329190.0000 232976.0000 N/S 373750.0000 374556.0000	The underground production has not started yet and V/L issued in this regard.
2b	Separate benches in topsoil, overburden and mineral	Topsoil-1 OB&Mineral-11	Topsoil- 0 OB&Mineral-8	No top soil within the existing pit.
2c	Stripping ratio or ore to OB ratio	1:2.08	1:1.74	1:1.74
2d	Quantity of topsoil generation in m3	0	0	No top soil within the existing pit.
2e	Quantity of overburden generation in m3	5,00,000	417615	

Exploitation:

SL.No.	Item	Proposals (FY 2023-24)	Actual work	Remarks
3a	Number of pits proposed for production	1	1	As per proposal
3b	Quantity of ROM mineral production proposed	240000 MT	239831 MT	
3c	Recovery of salable/usable mineral from ROM production	45%	38%	
3d	Quantity of mineral reject generation	152000 MT	129177 MT	
3e	Grade of mineral reject generation and threshold value declared	26.90%	27.09%	
3f	Quantity of sub-grade mineral generation	152000 MT	129177 MT	
3g	Grade of sub-grade mineral generation	26.90%	27.09%	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanized	Mechanized	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	124000 MT	123476.320 MT	
3j	Provision of drilling &	Drilling and	Drilling and blasting	

	blasting in mineral benches	blasting proposed	carried out as proposed	
3k	Provision of mining machineries in mineral benches	Volvo 2.4 M ³ 1 no Back Hoe= 1.1 M ³ 2 nos Front End loader 1.5M ³ 1 no Tata Prima 9M ³ 25 tons, 21 nos	Volvo 2.4 M ³ 1 no Back Hoe= 1.1 M ³ 2 nos Front End loader 1.5M ³ 1 no Tata Prima 9M ³ 25 tons, 21 nos	As per proposal
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes Ore- 7-8 meter Waste- 8-9 meter	Yes Ore- 7-8 meter Waste- 8-9 meter	As per proposal
3m	Total area covered under excavation/pits	33.890 ha	33.875 ha	
3n	Ore to OB ratio for the pit/mine during the year	1: 2.08	1: 1.74	
3o	Total area put in use under different heads at the end of year	33.890 ha(pit) 28.723 ha(Dump) 13.862 ha (others)	33.875 ha(pit) 28.723 ha(dump) 13.862 ha (others)	
3p	Production of ROM mineral during last five-years period, as applicable (in lakh MT)	2018-19- 1.351 2019-20- 1.046 2020-21- 0.976 2021-22- 2.400 2022-23- 2.400 2023-24- 2.400	2018-19- 1.059 2019-20- 1.044 2020-21- 0.975 2021-22- 1.999 2022-23- 2.399 2023-24- 2.398	

Solid Waste Management-Dumping:

SL.No.	Item	Proposals (FY 2023-24)	Actual work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	Separate dumping of OB & mineral reject	As per proposal	
4b	Location of topsoil, OB & mineral reject dumps	OB 373775E to 374581E 2329556N to 2330024N Mineral Reject 373775E to 374581E 2329556N to 2330024N	OB 373775E to 374581E 2329556N to 2330024N Mineral Reject 373775E to 374581E 2329556N to 2330024N	
4c	Number of dumps within lease area and outside lease area	2 within Lease area	2 within Lease area	
4d	Location of dumps w.r.t. ultimate pit limit	373775E to 374581E	373775E to 374581E 2329556N to	

		2329556N to 2330024N	2330024N	
4e	Number of active & alive dumps	2	2	
4f	Number of dead dumps	0	0	
4g	Number of dumps stabilised	2	2	
4h	Whether Retaining wall or garland drain all along dumps are there	Yes	Yes	
4i	Length of Retaining wall or garland drain all along dump	0	270 m	270 m
4j	Number of settling ponds	1	1	

Solid Waste Management-Backfilling:

SL.No.	Item	Proposals (FY 2023-24)	Actual work	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	0	Nil	
5b	Area under backfilling of mined out area	5.05 ha	2 ha	2 ha
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area	0	Nil	
5d	Total area fully reclaimed & rehabilitated	0	Nil	

Progressive Mine Closure Plan:

SL.No.	Item	Proposals (FY 2023-24)	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly - Rule 26(2). (Hard copy same provided)	As per Rule 26(2) Annual PMCP report to be submitted before 1st day of July of Every Year.	Submitted	
6b	Management of worked/mined out benches i) Area available for rehabilitation (ha) ii) Afforestation done (ha) iii) No. of saplings planted during the year	NIL ii) 0.404 ha iii) 1010 iv) 152435 v) No	NIL ii) 1.101 ha iii) 277 iv) 156174 v) No	

	iv) Cumulative no. of plants v) Any other specific method of rehabilitation vi) Cost incurred on watch & care during the year			
6c	Compliance on reclamation and rehabilitation by backfilling i) Voids available for backfilling (L X B X D) ii) Void filled by waste/tailings iii) Afforestation on the backfilled area iv) Rehabilitation by making water reservoir v) Any other specific means	NIL	NIL	
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	NIL	NIL	
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Air, Noise and Water quality monitoring will be done during the year within the lease area.	Air, Noise and Water quality monitoring is being carried out as per the proposal during the reporting year till the date of inspection.	

Mineral Conservation:

SL.No.	Item	Proposals ((FY 2023-24)	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Grade wise mineral sorting within lease area	Grade wise mineral sorting within lease area	
7b	Method of grade-wise	Mechanical	Mechanical	

	mineral sorting i.e. manual or mechanical			
7c	Different grade of mineral sorted out at mines	10% to 40% +40% above	10% to 40% +40% above	10% to -40% used for upgradation through chrome ore beneficiation plant. +40% to above – direct dispatch.
7d	Any beneficiation process at mines	Yes, proposed	Yes, carried out	

Environment:

SL.No.	Item	Proposals ((FY 2023-24)	Actual work	Remarks
8a	Separate removal and utilization of topsoil	Nil	No top soil generation	
8b	Concurrent use or storage of topsoil	Nil	No top soil generation	
8c	Separate dumps for overburden, waste rock, rejects and fines	Yes, proposed	Yes, carried out	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Using the waste rock outside of lease area as per requirement for any other community work or manufacturing or any other industrial/construction work purpose	The waste rock is sent outside of the lease area for community work.	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	NA	NA	
8f	Baseline information on existence of plantation & additional plantation done	Proposal has been given.	Plantation has been carried out in safety zone and waste dump area and outside of the lease area as per proposal	
8g	Survival rate	95 %	85 %	
8h	Water sprinkling on roads to control airborne dust	Water Sprinkling on haul roads were proposed	Water sprinkling by water tanker over haul roads has been carried out	

Compliance of Rule 45:

SL.No.	Item	COMMENTS		Remarks.
9a	Status of submission of Monthly and Annual returns	M.R. Submitted up to Nov-24 A.R. submitted up to 2023-24		
S.N.	Item	Details GIVEN in A.R.	Actual in field	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mine Engineer- 1 Geologist- 1 Manager-1	Mine Engineer- 1 Geologist- 1 Manager-1	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Pit- 33.890 ha Waste- 28.580 ha	Appears to be correct	
9d	Scrutiny of Annual return on afforestation	1010 no Area- 0.404 ha	Appears to be correct	
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	152436 MT Cr2O3- 10% TO 40%	Appears to be correct	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	29095.185 MT	Appears to be correct	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Cost of production- 7811.87 INR	Appears to be correct	
9i	Scrutiny of Annual return on fixed assets	Value of the fixed assets- 5209728908.00	Appears to be correct	
9k	Scrutiny of Annual return on mining machineries	As per modification of review of mining plan.	Appears to be correct	

Date:28.02.2025

Sujit Kumar Jena
Junior Mining Geologist