TSL/FAMD/KAR/FY26/3099
Date: 25-09-2025

To,
The Member Secretary,
Odisha State Pollution Control Board,
Paribesh Bhawan,
A/118, Nilakantha Nagar,
Bhubaneswar, Pin-751012

Subject: Submission of Environmental statement in FORM-V for the year ending 31st March 2025 in respect of Kamarda Chromite Block of M/S Tata Steel Ltd.

Reference: Rule-14 under Environmental (Protection) Amendment Rule, 1993 (G.S.R 386, 22.04.1993)

Dear Sir,
We are hereby submitting the Annual Environmental Statement in "FORM-V" prescribed under the provisions of above referenced statute, in respect of Kamarda Chromite Block of M/s Tata Steel Ltd., At – Kamarda, Po- Kalarangiatta, Dist- Jajpur, Odisha, for the year ending 31st March 2025. A copy of the annual return (annual return submitted to IBM, Govt. of India/Directorate of Mines, Govt. of Odisha) is also attached as Annexure-I.

This is for your kind information and perusal please. Receipt of the same may please be acknowledged.

Thanking You.
Yours faithfully,
f: Tata Steel Limited

Mine Manager
Kamarda Chromite Block
Tata Steel Limited

Enclosures: As above (Annexure-I)
Copy to: Regional Officer, SPCB, Odisha, At-Dhabalagiri, Po- F.C Project, Jajpur Road, Dist – Jajpur – 755020

Environmental Statement

Form – V (FY 2024 – 25)

For

Kamarda Chromite Block

Submitted By:

Kamarda Chromite Block

M/s. Tata Steel Limited

At: Kamarda, Po: Kalarangiatta, Block-Sukinda
District- Jajpur, Odisha -755028

FORM-V

(See Rule 14)

ENVIRONMENTAL STATEMENT FOR THE FINANCIAL YEAR ENDING THE 31st MARCH 2025

KAMARDA CHROMITE BLOCK, M/s. TATA STEEL LIMITED.

Part A

i.	**Name and address of the owner / occupier of the industry operation or process.**	**:**	Shri T V Narendran (Managing Director) M/s. Tata Steel Limited, Plot No. N3/24, IRC Village, Nayapalli, Bhubaneswar, Odisha – 751 015
ii.	**Industry category Primary – (STC code) Secondary – (SIC Code)**	**:**	Primary (SIC): 1000 (Metal Mining) Secondary (SIC): 1060 (Ferro Alloy Ore)
iii.	**Production capacity – Units.**	**:**	0.088 MTPA (Chromite Ore)
iv.	**Year of establishment.**	**:**	2020
v.	**Date of the last Environmental Statement submitted.**	**:**	26.09.2024

PART-B

Water and Raw Material Consumption

A. Water Consumption for FY 2023-24 (April'2024 to March'2025)

Process	Cooling	Domestic
44.65 m3/day	NA	40.51 m3/day

**Note: In case of mining operation, the water requirement is for dust suppression, plantation & washing of vehicle which has been taken as process consumption of water, which was consumed from ETP treated water.*

B. Specific Water Consumption – (April'2024 to March 2025)

(i) Process water consumption per unit of product output

Name of the Product	Production (MT)	Water consumption per unit of production*
Chrome Ore (ROM)	77340	0.21 KL/MT

(ii) Raw Material Consumption

The materials consumed during the previous and current financial year are in consumable and supportive ads in nature. The materials which are required to produce Chrome ore from mine quarry are given below:

Name of material	Name of products	Consumption of material per unit of output	
		During previous financial year (2023-24)	During present financial year (2024-25)
Diesel	Chrome Ore (ROM)	9.1 Ltrs./ MT	4.55 Ltrs./ MT
Gas (LPG)		Nil	Nil
Lubricant oil		0.1 Ltrs./ MT	0.024 Ltrs./ MT
Grease		0.004 Kg/ MT	0.0018 Kg/ MT
Electricity		34.72 KWH/ MT	25.44 KWH/ MT
Explosives		1.38 Kg/MT	0.43 Kg/MT

PART-C

{POLLUTION DISCHARGED TO ENVIRONMENT/UNIT OF OUTPUT}

(Parameters as specified in the consent issued)

a. Water

Sl. No.	Parameters	Unit	Result Average	Maximum Permissible Standard	Variation from the prescribed standard (%)	Quantity (Kg/Day)	Remarks for the deviations if any
1.	Suspended Solids	mg/ltr	2.422	100	-97.57	5.70	Within the prescribed limit
2.	Oil & Grease	mg/ltr	2.28	10	-77.2	5.80	Not Detected in any of the samples.
3.	BOD (3) days at 27°C	mg/ltr	ND	30	BDL	Nil	Below detection limit.
4.	COD	mg/ltr	ND	250	BDL	Nil	Below detection limit
5.	Hexavalent Chromium as Cr +6	mg/ltr	BDL	0.05	BDL	Nil	Below detection limit
6.	Total Chromium as Cr	mg/ltr	BDL	2.0	BDL	Nil	Below detection limit
7.	Nickel as Ni	mg/ltr	BDL	3	BDL	Nil	Below detection limit
8.	Iron as Fe	mg/ltr	0.29	3	-90.33	0.73	Below detection limit

BDL: Below Detection Limit

b. Air:

As in mines, there is no point source for emission, mostly we have fugitive dust generated from haul road or blasting so it is not possible to quantify in mass/day.

PART-D

HAZARDOUS WASTAGES

(As specified under Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016)

Hazardous Waste	Total Quantity	
	During the previous financial year (2023-24)	During the current financial year (2024-25)
(a) From process		
Used/Waste Oil	5.43 Ton	0.241 Ton
Residual waste containing oil	0.0493 Ton	0.014 Ton
Discarded Containers/Barrels/Liners contaminated with Hazardous Wastes/Chemicals	Nil	Nil
ETP Sludge	13.19 Ton	46.85 Ton
(b) From pollution control facilities	Nil	Nil

PART-E

Solid Waste

	Solid Waste	Total Quantity (MT)	
		During the current financial year (2023-24)	During the current financial year (2024-25)
(a)	From process (Overburden)	804185.8	322846
(b)	From pollution control facility	Nil	Nil
(c)	(1) Quantity recycled or re-utilized within the unit	Nil	Nil
	(2) Sold	Nil	Nil
	(3) Disposed	Nil	Nil

PART-F

[Please specify the characterization (in terms of composition and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both the categories of wastes.]

The details composition and characteristics of solid and hazardous waste are given below

Sl. No.	Waste Description	Nature of Waste	Composition/ Characteristics	Quantity (2024-25)	Management (Methods of collection and Disposal)
1	Overburden Material	Non-Hazardous (Solid waste)	Quartzite, Laterites, Lateritic soil, Talc schist and serpentine, Nickeliferous limonite	804185.8 Tones	The waste material is dumped in non-mineralized area approved by IBM with all environmental protection measures
2	Used /Waste oil	Hazardous Waste (HW-5.1)	Lead, Arsenic, Cadmium, Chromium, Nickel, PAHs etc.	0.241 Ton	Collected and securely stored inside 200Ltr MS Barrels and stored above concrete flooring. Sold to M/s Swaraj Lubricants, authorized by SPCB.
3	Residual waste containing oil	Hazardous waste (HW-5.2)	Consists of oil contaminated cotton, Jute, soaked sand etc.	0.014 Ton	Collected and stored in MS Barrels above concrete flooring for large quantity disposal to authorized agency
4	Discarded Containers/Barrels/Liners contaminated with Hazardous Wastes/ Chemicals	Hazardous waste (HW-35.3)	Consist of oil contaminated barrels	Nil	Collected and stored above concrete flooring for large quantity disposal to authorized agency

5	ETP sludge	Hazardous Waste (HW-34.3)	Composition of Cr, Fe, Al, Si etc.	46.85	ETP sludge will be disposed through Ramky Enviro Engineers Limited Jajpur (known as CHWTSDF)

PART-G

[Impact of the pollution measures taken on conservation of natural resources and on the cost production]

a) Dust Suppression

- Regular water spraying is being carried out on mine haul road, working site, waste dump yard, ore stack yard loading and unloading points by water tankers to reduce the dust levels.
- 500 mtrs of fixed water sprinkler is installed in main haul road.
- Regular water sprinkling on mineral transportation roads passing through the habitation area as well as other strategic point is being done regularly.
- Wet drilling is a common practice during drilling operation to reduce air pollution.
- Pre- wetting of blasting site and controlled blasting is being practiced reducing dust generation.
- The mineral transportation is being carried out by trucks covered with tarpaulin and properly sealed.
- No trucks are being overloaded at any point of time to avoid spillage Ore and OB in the haul road.

b) Management of surface run - off & mine discharge water

- All the surface run-off water from one side of the quarry during rainy seasons is allowed to channelize through well maintained garland drains having sedimentation pits. Finally, the surface run-off accumulated at Quarry "1&2" for ground water recharge. Effluent Treatment Plant is constructed for the treatment of excess surface run-off from Quarry 1&2.
- Further, at the other side of the quarry the surface run-off has been properly channelized to a big sump from where the whole water has been diverted to Quarry 3&4.
- From the quarry, water is pumped to an effluent treatment plant for detoxification of Cr^{+6} and reduces the Total Suspended Solids (TSS) before any use or discharge.

c) Solid waste management

- Overburden/waste rock is being dumped in the earmarked dump area approved by IBM with suitable terracing. The terraces are stabilized and rehabilitated by massive plantation.
- Retaining walls have been constructed at the toe of various OB dumps to arrest the

flow solid material. Garland drains are constructed in and around the OB dumps for drainage of surface run-off.

- Settling pits and check dams inside the garland drain have been constructed to arrest the slit/ soil particles in the water. Yearly twice, the settling pits and garland drains have been desilted.

d) Environmental monitoring.

- Regular monitoring of ambient air quality is being carried out at four appropriate locations in core zone and in four locations in buffer zone as per statue.
- Regular monitoring of Ground water level is being carried out by the installed Piezometric bore wells inside mine lease area.

e) Afforestation

About 470 local samplings are planted in dump.

f) Noise reduction

- Heavy vehicles operating in mines have good noise control system. Silencers are maintained in good conditions.
- Regular maintenance of the vehicles/ machines is carried out to reduce the noise pollution.
- Controlled blasting is generally practiced minimizing the noise.
- Regular noise level monitoring is being done on monthly basis and the results are found below permissible limit.

g) Medical facilities and health monitoring

- All the employees undergo periodical medical checkup like IME & PME.
- M/s. Utkal polytechnic an occupational checkup health center at Bhubaneswar is periodically conducting initial and periodical examination of the persons working in the project regularly which is recognized by DGMS, Dhanbad.
- A dispensary facility is established at Saruabil Mines to carter for local community and employee of Saruabil & Kamarda mines.

h) <u>ENVIRONMENTAL EXPENDITURE MADE DURING April - 2024 TO March- 2025</u>

Sl. No.	Category	Amount Expensed in FY 25
1	Air Pollution Control Equipment	₹ 1,61,61,658.65
2	Water Pollution Control Equipment	₹ 1,47,77,018.53
3	Environment Monitoring	₹ 27,53,493.00
4	Safety & Disaster Management Plan	₹ 2,95,154.63

	Total	₹ 3,39,87,324.81

PART-H

[Additional measures/investment proposal for environmental protecting including abatement of pollution, preservation of pollution]

1. Regular maintenance of retaining wall around the foot of the dumps will be provided.
2. More garland drain shall be constructed and maintained all along the dump to channelize the water in a single point of storage as per approved mining plan.
3. One CETP(@1200KL/hr) has been constructed at Saruabil mines to treat the both mines seepage water and surface run-off water.
4. For the stability of the dumps regular slope monitoring is done by précised Total Station Equipment.

PART-I

Any other particular for improving the quality of the environment:

The management of Tata Steel is committed for prevention of the pollution inside and surrounding the lease hold area. Environmental monitoring is being done in core & buffer zones of the lease area to ascertain & to take preventive measure to keep the parameters within stipulated norms.

Environmental Management Practices

Waste dump management with Retaining wall and Garland drain construction

Waste dump plantation in FY 2022-23

Water sprinkling through movable water tanker & Fixed Sprinkler

Vehicle washing with Oil & Grease separation pit

Hazardous storage area

Roof top Rainwater Harvesting Structures constructed for Ground Water Recharge

TSL/FAMD/KAR/FY26/ 2709
Date: 27-06-2025

To,
The Regional Controller of Mines,
Indian Bureau of Mines,
Bhubaneswar Region
Plot No. 149, Pokhariput
Bhubaneswar- 751020.

Sub: Submission of Annual Return in Form – G1 along with Surface Plan and Geological Plan & Sections for the Financial Year 2024-25 in respect of Kamarda Chromite Mine, M/s Tata Steel Limited.

Dear Sir,

We are submitting herewith the Annual Return in Form – G1 along with Surface Plan and Geological Plan & Sections for the Financial Year 2024-25 in respect of Kamarda Chromite Mine, M/s Tata Steel Limited.

This is for your kind information & needful Please.

Thanking you,
Yours Sincerely,

Mine Manager
Kamarda Chromite Mine
M/s Tata Steel Limited

Encl: As above.

FORM G-1

[See rule 45(5)(c)(i)]

For the financial Year 1st April, 2024 to 31st March, 2025

ANNUAL RETURN

[To be used for minerals other than Copper, Gold, Lead, Pyrites, Tin, Tungsten, Zinc and precious and semi-precious stones]

To

(i) The Regional Controller of Mines
Indian Bureau of Mines
Bhubaneshwar Region,
PIN:
(Please address to Regional Controller of Mines in whose territorial jurisdiction the mines falls as notified from time to time by the Controller General, Indian Bureau of Mines under rule 66 of the Mineral Conservation and Development Rules, 2017)

(ii) The State Government of Odisha

PART - I (General)

1. Details of Mine:	
(a) Registration number allotted by Indian Bureau of Mines *(to give registration number of the Lessee-Owner)*	IBM/4376/2011
(b) Mine Code (allotted by Indian Bureau of Mines)	11ORI19029
(c) Name of the Mineral	CHROMITE
(d) Name of Mine	KAMARDA CHROMITE MINE
(e) Name(s) of other mineral(s), if any, produced from the same mine	
2. Location of the Mine :	
Village	KAMARDA
Post Office	KALARANGIATTA
Tahsil-Taluk	KALIAPANI
District	JAJAPUR
State	ODISHA
PIN Code	755028
Fax No. :	00000000000
Phone No. :	8093038829
E-mail:	priyadarsisuvakanta.padhi@tatasteel.com
Mobile:	8093038829

3. Name and address of Lessee-Owner (along with fax no. and e-mail):	
Name of Lessee-Owner	M/s. Tata Steel Limited
Address	Bombay House,24 Homi Modystreet Fort,, Mumbai
District	MUMBAI SUBURBAN
State	MAHARASHTRA
PIN Code	400001
Fax No. :	00000000000
Phone No. :	06742551045
E-mail:	gm.office@tatasteel.com
Mobile:	8092084533
4. Registered Office of the Lessee:	M/s Tata Steel Limited, Bombay House, 24 Homi Mody Street Fort, Mumbai
5. Director in charge :	Mr. T V Narendran (CEO & Managing Director)
6. Agent :	Mr. Naveen Shrivastava
7. Manager :	Mr. Priyadarsi Suvakant Padhi
8. Mining Engineer in charge:	Mr. Priyadarsi Suvakant Padhi
9. Geologist in charge :	Mr. Deepak Acharya
10. Transferor (previous owner), if any, and date of transfer:	

Uploaded Document	
Upload PMCP Table in Excel:	PMCP_Data_of_Kamarda_Chromite_Block_for_2024-25.xlsx
Upload UAV Survey (KML/KMZ File) :	Surface_Plan_as_on_01.04.2025.kmz

11. Particulars of area operated-Lease

(Furnish information on items (i) to (vi) lease-wise in case mine workings cover more than one lease)

Lease - 1	
(i) Lease number allotted by the State Government	061304569302
(ii) Area under lease (hectares):	
Under Forest	105.780 hectares
Outside Forest	1.460 hectares
Total	107.240 hectares
(iii) Date of execution of mining lease deed	26/06/2020
(iv) Period of lease	50
(v) Area for which surface rights are held (hectares)	
Under Forest	88.068 hectares
Outside Forest	0.000 hectares
Total	88.068 hectares
(vi) Date and period of renewal (if applicable)	0

(vii) In case there is more than one mine in the same lease area, indicate name of mine and mineral produced	Mine Name	Mine Code	Mineral Name
	--	--	--

12. Lease area (surface area) utilisation as at the end of year (hectares):	Under forest	Outside forest	Total
(i) Already exploited and abandoned by opencast (O-C) mining	0.000	0.000	0.000
(ii) Covered under current (O-C) Workings	36.574	0.000	36.574
(iii) Reclaimed-rehabilitated	0.000	0.000	0.000
(iv) Used for waste disposal	35.528	0.016	35.544
(v) Occupied by plant, buildings, residential, welfare buildings and roads	6.440	0.003	6.443
(vi) Used for any other purpose (specify) Green Belt, Nala, Safety zone, etc.	27.238	1.441	28.679
(vii) Work done under progressive mine closure plan during the year	0.000	0.000	0.000
13. Ownership-exploiting Agency of the mine: (Public Sector-Private Sector-Joint Sector)	Private Sector		

PART-II (Employment and Wages)

1.Number of supervisory staff employed at the mine		
Description	Wholly employed	Partly employed
(i) Graduate Mining Engineer	5	0
(ii) Diploma Mining Engineer	6	0
(iii) Geologist	1	0
(iv) Surveyor	1	0
(v) Other administrative and technical supervisory staff	13	0
Total:	26	0
2. (i) Number of days the mine worked:	311	
(ii) No. of shifts per day:	3	
(iii) Indicate reasons for work stoppage in the mine during the year (due to strike, lockout, heavy rain, non-availability of labour, transport bottleneck, lack of demand, uneconomic operations, etc.) and the number of days of work stoppage for each of the factors separately .	Reasons: Weekly off — No. of days: 51 Reasons: Holidays — No. of days: 3	

3. Employment and salary-wages paid #:

Maximum number of persons employed on any one day during the year:
(i) In workings below ground on *(date)* (a) *(number)* 0
(ii) In all in the mine on *(date)* 17/04/2024 (a) *(number)* 242

Classification	Total number of man days worked during the year			No. of days worked during the year	Average daily number of persons employed			Total Wages - Salary for the year (₹)
	Direct	Contract	Total		Male	Female	Total	
(1)	2(A)	2(B)	2(C)	(3)	4(A)	4(B)	4(C)	(5)
Below Ground	0	0	0	0	0	0	0	0.00
Opencast	7801	35039	42840	311	136	2	138	37325291.00
Above Ground	492	4147	4639	311	9	6	15	2689650.00
Total:	8293.0	39186.0	47479.0	311.000	145.0	8.0	153.0	40014941.00

To include all employees exclusive to the mine and attached factory, workshop or mineral dressing plant at the mine site

PART-II A (Capital Structure)

1. Value of Fixed Assets* (₹ 197697475)

(in respect of the mine, beneficiation plant, mine work-shop, power and water installation)

In case this information is furnished as combined information in another mine's return please specify Mine Code-Mine Name:

Mine Name	Mine Code	Mineral Name
--	--	--

Description	At the beginning of the year (₹)	Additions during the Year (₹)	Sold or discarded during the year (₹)	Depreciation during the year (₹)	Net closing Balance (₹) (2+3)-(4+5)	Estimated market value** (₹)
1	2	3	4	5	6	7
(i) Land***	0	0	0	0	0	0
(ii) Building:						
Industrial	12479511	0	0	0	12479511	0
Residential	5163115	0	0	0	5163115	0
(iii) Plant and Machinery including transport equipment	18591817	0	6545406	1022881	11023530	0
(iv) Capitalised Expenditure such as pre-production exploration, development, major overhaul and repair to machinery etc. (As prescribed under Income Tax Act)	172773710	0	0	3742391	169031319	0
Total:	209008153	0	6545406	4765272	197697475	0

* In case the fixed assets are common to more than one mine, furnish combined information for all such mines together in any one of the mine's return. In the returns for other mines, give only a cross reference to the particular mine's return where-in the information is included.

** Optional and may be furnished in respect of items (i), (ii) and (iii) if the mine owner desires.

*** Including any non-recurring expenditure incurred on the acquisition of land.

2. Source of Finance (at the end of the year) :	
(i) Paid up Share Capital (₹)	0
(ii)Own Capital (₹)	0
(iii)Reserve and Surplus (All Types)(₹)	0
(iv)Long Term loans outstanding (#)(₹)	0

Name of the Institution-Source	Amount of Loan (₹)	Rate of Interest
Nil	0	0

(#) Indicate the names of the lending institutions such as State Finance Corporation, Industrial Development and other Public Corporations, Co-operative Banks, Nationalised Banks and other sources along with the amount of loan from each source and the rate of interest at which loan has been taken.

3. Interest and Rent (₹)	
(i) Interest paid during the year	0
(ii) Rents (excluding surface rent) paid during the year	0

PART-III (Consumption of Materials)

1. Quantity and cost of material consumed during the year			
Description	Unit	Quantity	Value (₹)
(i) Fuel			
(a) Coal	Tonnes	0	0
(b) Diesel Oil	Ltrs.	352146	27961346
(c) Petrol	Ltrs.	0	0
(d) Kerosene	Ltrs.	0	0
(e) Gas	Cu.M	0	0
(ii) Lubricant			
(a) Lubricant oil	Ltrs.	1888	835243
(b) Grease	Kgs.	145	34075
(iii) Electricity			
(a) Consumed	Kwh	1968213	14847971
(b) Generated	Kwh	21080	632400
(c) Sold	Kwh	0	0
(iv) Explosives (furnish full details in Part IV)			1797405
(v) Tyres	Nos.	52	2121670
(vi) Timber and Supports			0
(vii) Drill rods and kits	Nos.	0	0
(viii) Other spares and stores			0

2. Royalty, Rents and Payments made to DMF and NMET (₹):		
	Paid for current year	Paid towards past arrears
(a) Royalty	113626744	0
(b) Dead rent	212717	0
(c) Surface rent	629497	0
(d) Payment made to DMF	11532392	0
(e) Payment made to NMET	2306452	0
3. Compensation paid for felling trees during the year (₹)		0
4. Depreciation on fixed assets (₹)		4765272

5. Taxes and cesses		
	Amount in Rupees paid during the year to:	
	Central Govt.	State Govt.
(i) Sales Tax	42833933	31051008
(ii) Welfare cess	0	0
(iii) Other taxes and cesses:-		
(a) Mineral cess	0	0
(b) Cess on dead rent	0	0
(c) Others (please specify) Electricity Duty, User Fees, Application Fees, Vehicle taxes, Weighment Charges, Surface rent, Etc.	0	1313330

6. Other expenses (₹):	
(i) Overheads	5503392
(ii) Maintenance	0
(iii) Money value of other benefits paid to workmen	0
(iv) Payment made to professional agencies	0

PART-IV (Consumption of Explosives)

Licensed capacity of magazine: (specify unit separately in kg-tonne, numbers, metres)	**Item**	**Unit**	**Capacity**
	Explosives	Kg.	0
	Detonators	No.s	0
	Fuses	Mts	0

Classification of Explosives	Unit	Quantity consumed during the year		Estimated requirement during the next year	
		Small dia. (upto 32 mm)	Large dia. (above 32 mm)	Small dia. (upto 32 mm)	Large dia. (above 32 mm)
1. Gun Powder	Kg.	0		0	
2. Nitrate Mixture					
a. Loose ammonium nitrate	Kg.	0	0	0	0
b. Ammonium nitrate in cartridged form	Kg.	0	0	0	0
3. Nitro compound	Kg.	50	0	0	0
4. Liquid Oxygen soaked cartridges	Kg.	0	0	0	0
5. Slurry explosives (Mention different trade names)	Kg.	0	33830	0	238757
6. Detonators					
i) Ordinary	No.s	0		0	
ii) Electrical					
(a) Ordinary	No.s	126		517	
(b) Delay	No.s	0		0	
7. Fuse					
(a) Safety Fuse	Mts	0		0	
(b) Detonating Fuse	Mts	0		0	
8. Plastic ignition cord	Mts	0		0	
9. Others (specify) Nonel	Meters	28584		111781	

Different sizes of soaked liquid oxygen cartridges to be reported in equivalent kg. as per manufacturer's instruction.

PART-V (General Geology & Mining)

(Items 2 and 3 to be submitted separately for each mineral)

1. Exploration

1(i) Exploration activities during the year:

		At the beginning of the year	During the year	Cumulative	Grid spacing-Dimension
Drilling	No of holes	185	0	185	50X50and100X100
	Metrage	16971	0	16971	0
Pitting	No of pits	0	0	0	0
	Excavation (in m^3)	0	0	0	0
Trenching	No of trenches	0	0	0	0
	Excavation (in m^3)	0	0	0	0
	Length covered (in metre)	0	0	0	0
Expenditure on exploration (₹)		20448732	0	20448732	0

1(ii). Any other exploration activity during the year: 0

2. Reserves and Resources estimated (in tonnes) (CHROMITE).

Classification	Code	At the beginning of the year 1.4.2024 as per latest approved mining plan- scheme	Assessed during the year	Depletion of reserves during the year	Balance resources as on 31.3.2025
(1)	(2)	(3)	(4)	(5)	(6)= (3+4-5)
A. Mineral Reserve					
1. Proved Mineral Reserve	111	1272550	0	77340	1195210
2. Probable mineral Reserve	121	0	0	0	0
	122	0	0	0	0
3. Total Reserves		1,272,550.00	0.00	77,340.00	1,195,210.00
B. Remaining Resources					
1. Feasibility mineral Resource	211	578610	3246318	0	3824928
2. Prefeasibility mineral resource	221	0	0	0	0
	222	0	0	0	0
3. Measured mineral resource	331	0	0	0	0
4. Indicated mineral resource	332	0	0	0	0
5. Inferred mineral resource	333	0	0	0	0
6. Reconnaissance mineral resource	334	0	0	0	0
7. Total remaining Resources		578,610.00	3,246,318.00	0.00	3,824,928.00
Total (A+B)		1,851,160.00	3,246,318.00	77,340.00	5,020,138.00

3. Subgrade-Mineral Reject (in tonnes) (CHROMITE)

(Information to be given in respect of mineral fractions generated and stacked- dumped below cut-off grade and above threshold value, if prescribed, having no immediate sale value)

Generation of subgrade-mineral reject (in tones)	At the beginning of the year	Generated during the year	Disposed during the year	Total stacked at the end of the year	Average grade of the mineral reject generated
from unprocessed ore	0	0	0	0	0
from processed ore	0	0	0	0	0

4. Overburden and Waste (in m^3)

(Information to be given in respect of overburden- waste and mineral fractions generated below threshold value, if prescribed)

At the beginning of the year	Generated during the year	Disposed in dumps during the year	Backfilled during the year	Total at the end of the year
1140824	161423	0	161423	1302247

5. Trees planted- survival rate

Description	Within lease area	Outside lease area
i) Number of trees planted during the year	470	0
ii) Survival rate in percentage	95	0
iii) Total no. of trees at the end of the year	28612	0

6. Type of Machinery: Give the following information for the types of machinery in use such as hoist, fans, drills, loaders, excavators, dumpers, haulages, conveyors, pumps, etc.

Type of machinery	Capacity of each type of machinery	Unit (in which capacity is reported)	No. of machinery	Electrical Non-electrical (specify)	Used in opencast underground (specify)
SHOVEL (HYDRAULIC)	3.200	CUM	1	Non Electrical	Opencast
SHOVEL (HYDRAULIC)	2.500	CUM	1	Non Electrical	Opencast
SHOVEL (HYDRAULIC)	1.800	CUM	1	Non Electrical	Opencast
ROCK DRILL (NON-ELEC.)	110.000	MM	1	Non Electrical	Opencast
TIPPER	19.500	CUM	8	Non Electrical	Opencast
MOTOR GRADER	196.000	HP	1	Non Electrical	Opencast
WATER TANKER	15000.000	LITRE	1	Non Electrical	Opencast
DOZER	200.000	HP	2	Non Electrical	Opencast
PUMPS (ELEC.)	13333.000	L/MN	4	Electrical	Opencast
ELEC. MOTOR	120.000	HP	2	Electrical	Opencast
ELEC. MOTOR	180.000	HP	1	Electrical	Opencast
ELEC. MOTOR	215.000	HP	1	Electrical	Opencast

7**(i) Details of mineral Treatment Plant, if any**: Give a brief description of the process capacity of the machinery deployed and its availability. (Submit Flow Sheet and Material Balance of the Plant separately).

Nil

(ii) Furnish following information:

Item		Tonnage	Average Grade
Feed:		0.000	0.000
Concentrates-processed products :	(mention name)	0.000	0.000
By-products-Co-products:	(mention name)	0.000	0.000
Tailings:		0.000	0.000

PART-VI (PRODUCTION, DESPATCHES AND STOCKS) (CHROMITE)

(To be submitted separately for each mineral)

(Unit of Quantity in Tonnes)

1. Type of ore produced:

(Applicable for Iron ore only; tick mark whichever is applicable)

2. Production and Stocks of ROM ore at Mine-head

Category	Opening stock	Production	Closing stock
(a) Open Cast workings	0.000	77340.000	0.000
(b) Underground Workings	0.000	0.000	0.000
(c) Dump workings	0.000	0.000	0.000

3(i) Grade-wise ROM ore despatches from mine head ($):

Grade of ROM	Despatches from mine-head	Ex-mine Price (₹)
(a) Below 40% Cr2O3 ROM	0.000	0.00
(b) 40% to below 52 % Cr2O3 ROM	0.000	0.00
(c) 52% and above Cr2O3 ROM	0.000	0.00

($): Applicable for iron ore and chromite only. For other minerals data of dispatches to be reported in 3(ii)

3(ii) Grade-wise Production, Dispatches, Stocks and Ex-mine prices:

Grades**	Opening stock at mine-head	Production	Despatches from mine-head	Closing stock at mine-head	Ex-mine price (₹-Tonne)
(i) Lumps					
(a) Below 40% Cr2O3	22814.097	0.000	0.000	22814.097	0.00
(b) 40% to below 52 % Cr2O3	0.000	0.000	0.000	0.000	0.00
(c) 52% and above Cr2O3	0.000	0.000	0.000	0.000	0.00
(ii) Fines					
(a) Below 40% Cr2O3	48879.811	77340.000	75539.340	50680.471	5438.21
(b) 40% to below 52 % Cr2O3	0.000	0.000	0.000	0.000	0.00
(c) 52% and above Cr2O3	0.000	0.000	0.000	0.000	0.00
(a) CONCENTRATES	0.000	0.000	0.000	0.000	0.00

3(iii) In case the mineral is being pulverized in own factory, please give the following particulars (*):

Grade**	Total quantity of mineral Pulverized (in tonnes)	Total quantity of pulverized mineral produced (for each mesh size)		Total Quantity of pulverized mineral sold during the month		
		Mesh size	Quantity (tonne)	Mesh size	Quantity (tonne)	Ex-factory Sale value (₹)

3(iv) Average cost of pulverization (*) : ₹ per tonne

(*): Not applicable for Iron ore, Manganese ore, Bauxite and Chromite

4. Details of deductions made from sale value for computation of Ex-mine price (₹- Tonne)

Deduction claimed #	Amount (in ₹- Tonne)	Remarks
(a) Cost of transportation (indicate loading station and distance from mine in remarks)	0.00	Not Applicable
(b) Loading and unloading charges	0.00	Not Applicable
(c) Railway freight, if applicable (indicate destination and distance)	0.00	Not Applicable
(d) Port Handling charges- export duty (indicate name of port)	0.00	Not Applicable
(e) Charges for sampling and analysis	0.00	Not Applicable
(f) Rent for the plot at Stocking yard	0.00	Not Applicable
(g) Other charges (specify clearly)	0.00	Not Applicable
Total (a) to (g)	0.00	

 # Not applicable for captive dispatches and ex-mine sales

5. Sales- Despatches effected for Domestic Purposes and for Exports:

Grade	Nature of Despatch *(indicate whether Domestic Sale or Domestic Transfer or Captive consumption or Export)*	For Domestic Purposes				For export		
		Registration number as allotted by the Indian Bureau of Mines to the buyer ##	Consignee name ##	Quantity	Sale value (₹)	Country	Quantity	F.O.B Value (₹)
Below 40% Cr2O3,Fines	DOMESTIC SALE	IBM/21555/2017	CHROME SAGAR	999.790	6520690.41			
Below 40% Cr2O3,Fines	DOMESTIC SALE	IBM/4178/2011	ANAND EXPORTS	31863.880	168492249.43			
Below 40% Cr2O3,Fines	DOMESTIC SALE	IBM/45726/2023	ADISH MINERALS PRIVATE LIMITED	3848.940	28222814.71			
Below 40% Cr2O3,Fines	DOMESTIC SALE	IBM/538/2011	JAI BALAJI INDUSTRIES LIMITED	13009.450	65182101.99			
Below 40% Cr2O3,Fines	DOMESTIC SALE	IBM/5583/2011	K L RESOURCES PVT. LTD.	4343.140	23690469.80			
Below 40% Cr2O3,Fines	DOMESTIC SALE	IBM/6143/2011	B. C. MOHANTY & SONS PRIVATE LIMITED	20407.060	111469550.84			
Below 40% Cr2O3,Fines	DOMESTIC SALE	IBM/93/2011	ORISSA CHROME EXPORT & MINING COMPANY LIMITED	991.860	6615418.56			
Below 40% Cr2O3,Fines	DOMESTIC TRANSFER	IBM/4376/2011	Tata Steel Limited	51.120	359853.36			
Below 40% Cr2O3,Fines	DOMESTIC TRANSFER	IBM/5771/2011	Tirumala Balaji Alloys Private Limited	24.100	245289.80			

To indicate separately if more than one buyer.

NOTE:- Mine owners are required to substantiate domestic sale value- FOB value for each grade of ore quoted above with copy of invoices (not to be submitted with the return; to be produced whenever required)

6. Give reasons for increase-decrease in production-nil production, if any, during the year compared to the previous year.

a) Production as per Business Plan within Environment Clearance and Mining Plan limit

7. Give reasons for increase-decrease in grade wise ex-mine price, if any, during the year compared to the previous year.

a) Decrease in Below 40% Cr2O3 Fines price due to negotiated price with customer considering market demand. Ex-Mine price has been calculated as per submitted monthly return in Form F1.

PART-VII: COST OF PRODUCTION

Cost of production per tonne of ore-mineral produced

Sl. No.	Item	Cost per tonne (₹)
(i)	Direct Cost	1002.00
	(a) Exploration	0.00
	(b) Mining	1002.00
	(c) Beneficiation(Mechanical Only)	0.00
(ii)	Over-head cost	71.00
(iii)	Depreciation	62.00
(iv)	Interest	0.00
(v)	Royalty	1217.00
(vi)	Payments made to DMF	122.00
(vii)	Payments made to NMET	24.00
(viii)	Taxes	0.00
(ix)	Dead Rent	0.00
(x)	Others (specify) Bid Premium	7851.00
	Total	10349.00

Note: Information given under Part VII will be kept confidential. The Government, however, will be free to utilize the information for general studies without revealing the identity of the firm.

Mineral Name	Production proposal for financial year 2024 - 2025	Production reported during the financial year 2024 - 2025	Difference
CHROMITE	300000	77340	222660

I Certify that the information furnished above is correct and complete in all respects.

Place: Kamarda
Dist: JAJAPUR, ODISHA
Pin: 755028
Date: 26/06/25

Signature

Name in full: Priyadarsi Suvakant Parelkar
Designation:
Owner-Agent-Mining Engineer-Manager

From: 136.226.233.104 at 2025-06-26 17:08:19

Mine Manager
Kamarda Chromite Block
Tata Steel Limited

Esigned by: Guest
Date: 26/06/2025 05:08:20 PM