

OCM/ENV/422/2022

Dated: 29.05.2025

To

The Scientist (E)

Ministry of Environment, Forest & Climate Change,
Regional Office, A/3, Chandrasekhar,
Bhubaneswar, Odisha

Sub.: Submission of Six-monthly EC compliance report for the period Oct'2024 to March'2025 in respect of
Ostapal Chromite Mines of M/s Ferro Alloys Corporation Limited.

Ref.: Ref.: EC Identification No:EC24B0106OR5602647N, dated 18.07.2024, Condition No.-67

Respected Sir,

With reference to the captioned subject & cited reference, we are herewith submitting six monthly compliance report to the conditions stipulated in the grant order of Environmental Clearance (EC) pertaining to Ostapal Chromite Mines of M/s FACOR Ltd for your kind perusal.

Thanking You.

Yours faithfully,

for Ferro Alloys Corporation LTD



Head Environment
MINE DIVISION
M/s FACOR LTD


Encl: A/a

CC: 1. The Member Secretary, SEIAA, ODISHA
2. The Member Secretary, SPCB, ODISHA

Six Monthly Compliance Report to EC of Ostapal Chromite Mines, M/s FACOR LTD
For The Period October 2024 to March 2025
EC Identification No.: EC24B0106OR5602647N, Dated: 18.07.2024

A. SPECIFIC CONDITIONS:		
1	The mine shall explore implementation of membrane-based technology for removing Hexavalent Chromium from Surface run off & mine drainage water. Alternately, scientific studies/R&D studies should be carried out to develop a suitable low-cost material for treatment of hexavalent chromium	<p>Complied.</p> <p>In this connection, NIT, Rourkela has been engaged since Dt 13.12.2021, and the final report has been submitted the member secretary via mail having letter ref. number OCM/ENV/341/202 dated on 06.05.2025 Submitted reference copy is enclosed as Annexure – 1</p> <p>Nano based technology / membrane-based technology for hexavalent Cr removal is under process.</p>
2	The project proponent shall monitor analysis of hexavalent chromium in nearby soil and water body periodically and follow mitigation measures if necessary.	<p>Complied.</p> <p>Dhamsalla Nallah is nearby water stream flowing nearby the mines and its quality is measured upstream and downstream quarterly. Soil Analysis is also being carried out.</p> <p>Monitoring Report is attached as Annexure No.-2</p>
3	Since mining has already intersected the ground water table; the steps proposed for augmentation of ground water resources are not adequate. The project proponent shall put adequate number of recharge pits beyond the zone of influence based on a detailed hydro-geological study.	<p>Complied.</p> <p>Hydrogeological study conducted by CGWA accredited consultant M/s Geoclimate Risk Solution Ltd and based upon the comprehensive report on ground water condition we have augmented and implemented the recommendations. As per the study report, the rain- water harvesting structures are as follows:</p> <ul style="list-style-type: none"> • Check-Dams • Garland Drains • Settling Pit • Roof Top Rainwater Harvesting
4	The effluent from the ore beneficiation plant shall be treated in the tailing thickener and the tailings slurry shall be transported through a closed pipeline to the tailing pond	<p>Complied.</p> <p>The COB plant as per the proposal in the EC is not installed yet. However, the existing COB plant is in operation.</p> <p>Now, the effluent is passed through tailing sump, and all the tailings are transported through a closed pipeline to a tailing pond inside the lease area.</p>

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5	The tailing pond shall be lined with appropriate impervious lining on all sides as well as the bottom to prevent any leachate going from the tailing pond into groundwater.	<p>Complied.</p> <p>Tailing pond is lined with appropriate impervious lining on all side as well as bottom to prevent any leachate going from the tailing pond into ground.</p> 
6	The garland drain shall be constructed around the tailing pond before the starting operation on the project.	<p>Complied.</p> <p>Garland drain is provided around the tailing pond.</p>
7	The decanted water from the tailing pond shall be re-circulated and there should be zero discharge from the tailing pond	<p>Complied.</p> <p>All the decanted water from tailing pond re-circulated and is reused back in Process Plant inside mines and there is no discharge from the tailing pond.</p>
8	Appropriate technology shall be used for maximum recovery of ore in order to reduce slurry discharge and to increase the life of the tailing pond.	<p>Complied.</p> <p>Wet processing is being practiced by which maximum recover is ensured. Analysis of material is being carried out in different stage to confirm the maximum recovery .</p>
9	Garland drains with appropriate size, gradient and length shall be constructed to arrest silt and sediment flows from ore dumps and directly into the water bodies. The water so collected shall be utilized for watering the roads, green belt development etc. The drains shall be regularly desilted particularly after monsoon and maintained properly.	<p>Complied</p> <p>Garland drains with appropriate size, gradient and length have been constructed to arrest silt and sediment flows from ore dumps to settling pond. The water collected in settling pond is Treated in ETP and is used for afforestation and dust suppression.</p> <p>And drains are desilted regularly after monsoon & maintained properly.</p>
10	Effluents containing Cr+6 shall be treated to meet the prescribed standards before reuse. Effluent Treatment Plant should be provided for treatment of wastewater generated from the beneficiation plant.	<p>Complied.</p> <p>The mine dewatering water is treated through Effluent Treatment Plant (ETP). All the parameters are within the limit. Effluent monitoring report is enclosed as Annexure No.-3.</p> <p>The wastewater generated from Beneficiation plant is also treated as required.</p>
11	Run off from the mineral and reject dumps and other surface run off should be analyzed for Cr+6 and in case its concentration is found higher than the permissible limit the water should be treated before reuse.	<p>Complied.</p> <p>All the surface runoff water is collected into settling pond via garland drain and all the water collected from the settling pond is treated via ETP for further use.</p>

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12	The mine should adhere to “Zero Liquid Discharge”. However, if it is not possible, then the waste water is required to be treated so that the contaminants are brought below the permissible limit and the water discharged with installation of an online continuous monitoring system at the point of discharge. The contamination of Damsala nallah by hexavalent chromium is to be prevented.	Complied. Mine is already intersected water table. So, water seepage is there. Moreover, annual rainfall is around 1600mm to 1800mm. Due to these effect, It is not possible to adhere to Zero liquid Discharge since a lot of quantity of water needs to be dewatered for Mine Safety. Whatever discharge is if it occurs from mines to outside it is treated via ETP and real time monitoring is done and data is sent to SPCB server.
13	Use of nano based technology or membrane-based technology for hexavalent Cr removal to be explored.	Complied In this connection, NIT, Rourkela has been engaged since Dt 13.12.2021, and the final report has been submitted the member secretary via mail having letter ref. number OCM/ENV/341/202 dated on 06.05.2025 Submitted reference copy is enclosed as Annexure – 1 Nano based technology / membrane-based technology for hexavalent Cr removal is under process.
14	The Project Proponent shall keep a record of each blasting viz. location, number of holes, delay assigned of each hole, explosive quantity of each hole, blasting pattern etc.	Complied The record is being kept and maintained. The details are enclosed in Annexure – 4
15	All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the Mineral Beneficiation plants shall be implemented.	Assured to Comply It will be implemented as per the timeline
B. STANDARD CONDITIONS		
1. Statutory Compliance		
16	This Environmental Clearance (EC) is subject to orders/ judgment of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, Common Cause Conditions as may be applicable.	Complied
17	The Project Proponent complies with all the statutory requirements and judgment of Hon'ble Supreme Court dated 2nd August,2017 in Writ Petition (Civil) No. 114 of 2014 in matter of Common Cause versus Union of India & Ors before commencing the mining operations.	Complied. Letter submitted to Member secretary , Vide letter No.: FACOR/Bhadrak/Legal/109/2022, Dated: 25.4.2022.



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18	The State Government concerned shall ensure that mining operation shall not be commenced till the entire compensation levied, if any, for illegal mining paid by the Project Proponent through their respective Department of Mining & Geology in strict compliance of Judgment of Hon'ble Supreme Court dated 2nd August, 2017 in Writ Petition (Civil) No. 114 of 2014 in matter of Common Cause versus Union of India & Ors	Complied. Compliance Letter had submitted to this effect as per the earlier EC Vide letter No.: FACOR/Bhadrak/Legal/109/2022, Dated: 25.4.2022. Copy is enclosed as Annexure No.-5.
19	This Environmental Clearance shall become operational only after receiving formal NBWL Clearance from MoEF&CC subsequent to the recommendations of the Standing Committee of National Board for Wildlife, if applicable to the Project.	It is not applicable as our lease area do not fall under and wildlife area .so NBWL clearance is not required.
20	This Environmental Clearance shall become operational only after receiving formal Forest Clearance (FC) under the provision of Forest Conservation Act, 1980, if applicable to the Project.	Complied. We have obtained FC on Dt 07.02.2006, vide letter Ref : F.No 8-86/1996-FC(Vol-II) dtd 07.02.2006 . The FC copy is enclosed as Annexure No.—6
21	Project Proponent (PP) shall obtain Consent to Operate after grant of EC and effectively implement all the conditions stipulated therein. The mining activity shall not commence prior to obtaining Consent to Establish / Consent to Operate from the concerned State Pollution Control Board/Committee	Complied. CTE is already obtained on date 09.08.2024. Copy of the CTE is enclosed as Annexure No. -7
22	The Project Proponent shall adhere to the provision of the Mines Act, 1952, Mines and Mineral (Development & Regulation), Act, 2015 and rules & regulations made there under. PP shall adhere to various circulars issued by Directorate General Mines Safety (DGMS) and Indian Bureau of Mines from time to time.	Complied All the applicable statutory provision under Mines Act '1952 and Mineral (Development and Regulation), Act. 2015 and rules, regulations made are being followed and adhered.
23	The Project Proponent shall obtain consents from all the concerned land owners, before start of mining operations, as per the provisions of MMDR Act, 1957 and rules made there under in respect of lands which are not owned by it.	Complied. Consent obtained from all concerned land owners before starting of the mining operations





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29	The Project Proponent shall inform the MoEF&CC for any change in ownership of the mining lease. In case there is any change in ownership or mining lease is transferred than mining operation shall only be carried out after transfer of EC as per provisions of the para 11 of EIA Notification, 2006 as amended from time to time.	There is no change in ownership.
	Air Quality Monitoring and preservation	
30	The Project Proponent shall install a minimum of 3 (three) online Ambient Air Quality Monitoring Stations with 1 (one) in upwind and 2 (two) in downwind direction based on long term climatological data about wind direction such that an angle of 120° is made between the monitoring locations to monitor critical parameters, relevant for mining operations, of air pollution viz. PM 10, PM2.5, NO2, CO and SO2 etc. as per the methodology mentioned in NAAQS Notification No. B-29016/20/90/PCI/I, dated 18.11.2009 covering the aspects of transportation and use of heavy machinery in the impact zone. The ambient air quality shall also be monitored at prominent places like office building, canteen etc. as per the site condition to ascertain the exposure characteristics at specific places. The above data shall be digitally displayed within 03 months in front of the main Gate of the mine site.	<p>Assured to Comply</p> <p>Presently, there is no UG production started. Only decline development is going on. Further, now there is one Online AAQMS is already installed to monitor the critical parameters relevant for mining operations such as PM10, PM25, NO2 CO and SO2</p> <p>4 AAQ Monitoring station are installed in other place and also digitally displayed board placed in front of the main gate also regular water sprinkling is done.</p> <div style="display: flex; justify-content: space-around;">   </div> <p>The other 2 Online AAQMS will be installed before commencement of production from underground Mines. In this context, one undertaking has been submitted vide dated 22.10.2024. Copy of undertaking is enclosed as Annexure No.-10</p>
16	Effective safeguard measures for prevention of dust generation and subsequent suppression (like regular water sprinkling, metalled road construction etc.) shall be carried out in areas prone to air pollution wherein high levels of PM10 and PM2.5 are evident such as haul road, loading and unloading point and transfer points. The Fugitive dust emissions from all sources shall be regularly controlled by installation of required equipments/ machineries and preventive maintenance. Use of suitable water-soluble chemical dust suppressing agents may be explored for better effectiveness of dust control system. It shall be ensured that air pollution level conform to the standards prescribed by the MoEFCC/ Central Pollution Control Board.	<p>Complied.</p> <p>Following measures have been taken such as</p> <ul style="list-style-type: none"> • Regular haul road maintenance • Use of Road Grader • Wet drilling practice adopted • Transporting vehicle is covered with tarpauline • Wheel washing system provided • Sufficient No of water tanker are engaged for regular sprinkling of water into haul road , loading and unloading point. • Haul Road Plantation has been done • Fugitive dust emission is being monitored regularly and submitted to OSPCB <p>Preventive maintenance is being carried out regularly.</p>
	Water Quality Monitoring and Preservation	


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17	In case, immediate mining scheme envisages intersection of ground water table, then Environmental Clearance shall become operational only after receiving formal clearance from CGWA. In case, mining operation involves intersection of ground water table at a later stage, then PP shall ensure that prior approval from CGWA and MoEF&CC is in place before such mining operations. The permission for intersection of ground water table shall essentially be based on detailed hydro-geological study of the area.	NOC is already obtained from CGWA Vide No.: CGWA/NOC/MIN/REN/3/2025/11544. The CGWA NOC is enclosed as Annexure – 8
18	Regular monitoring of the flow rate of the springs and perennial nallahs flowing in and around the mine lease shall be carried out and records maintain. The natural water bodies and or streams which are flowing in an around the village, should not be disturbed. The Water Table should be nurtured so as not to go down below the pre-mining period. In case of any water scarcity in the area, the Project Proponent has to provide water to the villagers for their use. A provision for regular monitoring of water table in open dug wall located in village should be incorporated to ascertain the impact of mining over ground water table. The Report on changes in Ground water level and quality shall be submitted on six-monthly basis to the Regional Office of the Ministry, CGWA and State Groundwater Department / State Pollution Control Board	<p>Complied.</p> <p>Flow rate of the Perennial Nalla “ Damasallah Nallah” is being Monitored Regularly and Record being maintained. Report is also submitted to OSPCB.</p> <div style="display: flex; justify-content: space-around;">   </div> <div style="display: flex; justify-content: space-around;"> <p>Flow measurement in Nalla</p> <p>Water table measurement in dug well</p> </div> <p>There is no disturbance to any water bodies in around the village.</p> <p>Nos. of rainwater harvesting measures like Garland Drain ,check Dam, Settling pond and Roof Top Rainwater harvesting has been constructedn to augment the water table.</p> <p>There is no scarcity of water, as the water comes under safe category Further, drinking water is provided to the nearby villages.</p> <p>Water level and quality is being Monitored regularly by NABL accredited Laboratory and report is also being submitted the Govt. authority in quarterly.</p> <p>The Monitoring report is enclosed as Annexure - Annexure - 11</p>
19	The Project Proponent shall regularly monitor and maintain records w.r.t. ground water level and quality in and around the mine lease by establishing a network of existing wells as well as new piezo-meter installations during the mining operation in consultation with Central Ground Water Authority/ State Ground Water Department. The Report on changes in Ground water level and quality shall be submitted on six-monthly basis to the Regional Office of the Ministry, CGWA and State Groundwater Department / State Pollution Control Board.	<p>Complied.</p> <p>Ground water level and quality being monitored regularly. And report also submitted.</p> <p>We have installed 2 piezometers (Digital Water Level Recorder) inside mines. Report also submitted to the Authority.</p> <div style="display: flex; justify-content: space-around;">   </div> <div style="display: flex; justify-content: space-around;"> <p>Piezometer near STP</p> <p>Piezometer near ETP</p> </div>

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20	<p>The Project Proponent shall undertake regular monitoring of natural water course/ water resources/ springs and perennial nallahs existing/ flowing in and around the mine lease and maintain its records. The project proponent shall undertake regular monitoring of water quality upstream and downstream of water bodies passing within and nearby/ adjacent to the mine lease and maintain its records. Sufficient number of gullies shall be provided at appropriate places within the lease for management of water. PP shall carryout regular monitoring w.r.t. pH and included the same in monitoring plan. The parameters to be monitored shall include their water quality vis-a-vis suitability for usage as per CPCB criteria and flow rate. It shall be ensured that no obstruction and/ or alteration be made to water bodies during mining operations without justification and prior approval of MoEF&CC. The monitoring of water courses/ bodies existing in lease area shall be carried out four times in a year viz. pre- monsoon (April-May), monsoon (August), postmonsoon (November) and winter (January) and the record of monitored data may be sent regularly to Ministry of Environment, Forest and Climate Change and its Regional Office, Central Ground Water Authority and Regional Director, Central Ground Water Board, State Pollution Control Board and Central Pollution Control Board. Clearly showing the trend analysis on six-monthly basis.</p>	<p>Complied. Flow rate of the Perennial Nalla “ Damasallah Nallah” is being Monitored Regularly and Record being maintained. Report is enclosed as Annexure No.-12 Upstream and Downstream water quality are being monitored. PH and other parameters as well within the limit. Report is enclosed as Annexure No.-2</p>  <p>Damasala Nalla water sample for Quality Monitoring</p> <p>There is no water body inside the Mine, so there is no chance of obstruction or alteration to the water body. There is no water courses/bodies in the lease area, so trend analysis is not applicable. The Monitoring Report is submitted to the authorities on regular basis.</p>
21	<p>Quality of polluted water generated from mining operations which include Chemical Oxygen Demand (COD) in mines run-off; acid mine drainage and metal contamination in runoff shall be monitored along with Total Suspended Solids (TDS), Dissolved Oxygen (DO), pH and Total Suspended Solids (TSS). The monitored data shall be uploaded on the website of the company as well as displayed at the project site in public domain, on a display board, at a suitable location near the main gate of the Company. The circular No. J20012/1/2006-IA.II (M) dated 27.05.2009 issued by Ministry of Environment, Forest and Climate Change may also be referred in this regard.</p>	<p>Complied. One NABL accredited Lab. M/s visionteck Pvt Ltd is engaged to ensure the quality of the water generated from the mines and treated water discharging to outside the lease. And all the parameters mentioned are being monitored. Monitoring data also uploaded in the Website: https://www.facorgroup.in/esg/compliances/ And displayed through digital display board near main gate. Details of wastewater generated (mine dewatering) and treated by ETP are Attached as Annexure 3</p>

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22	Project Proponent shall plan, develop and implement rainwater harvesting measures on long term basis to augment ground water resources in the area in consultation with Central Ground Water Board/ State Groundwater Department. A report on amount of water recharged needs to be submitted to Regional Office MoEF &CC annually.	<p>Retaining wall is constructed along the periphery of the dump ,Ore Stack Yard. Garland Drain settling pond is there in the lease also check dam is constructed at strategic locations through which rain water passes in rainy season.</p> <p>Settling Pond , Retaining wall and Check dam</p>  <p>Also the mine drainage water is monitored on real time basis through ETP and along with through NABL Lab and it is used for industrial purpose only after treatment. For the FY 2024-25, report on the amount of ground water recharge has been enclosed as Annexure No.-13</p>
23	Industrial waste water (workshop and waste water from the mine) should be properly collected and treated so as to conform to the notified standards prescribed from time to time. The standards shall be prescribed through Consent to Operate (CTO) issued by concerned State Pollution Control Board (SPCB). The workshop effluent shall be treated after its initial passage through Oil and grease trap.	<p>Complied.</p> <p>Industrial waste water (Workshop and waste water from mine) is properly collected and all the water collected is treated via ETP and Discharge water is tested via NABL Lab and all the parameter as well with in the prescribed limits.</p>
24	The water balance/water auditing shall be carried out and measure for reducing the consumption of water shall be taken up and reported to the Regional Office of the MoEF&CC and State Pollution Control Board/Committee.	<p>Complied.</p> <p>The water balance chart is maintained and monitored. And the action plan for the reduction of water is made and submitted to the regional office of MoEF & CC and SPCB, Odisha via letter number OCM/ENV/ 417/2025 dated 28.5.2025 The details has been attached as Annexure No 14</p>
NOISE AND VIBRATION MONITORING AND PREVENTION		
25	The peak particle velocity at 500m distance or within the nearest habitation, whichever is closer shall be monitored periodically as per applicable DGMS guidelines.	<p>Complied.</p> <p>It is monitored regularly as per the DGMS Guidelines</p>





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41)	The illumination and sound at night at project sites disturb the villages in respect of both human and animal population. Consequent sleeping disorders and stress may affect the health in the villages located close to mining operations. Habitations have a right for darkness and minimal noise levels at night. PPs must ensure that the biological clock of the villages is not disturbed; by orienting the floodlights/ masks away from the villagers and keeping the noise levels well within the prescribed limits for day /night hours	<p>Complied.</p> <p>Noise monitoring is done by NABL Laboratory both in day and night and the noise limit falls under the prescribed standards</p> <p>The Noise Monitoring report is enclosed as Annexure 15</p> <p>One flood light is present inside mines and is directed towards the mine away from villagers.</p>
27)	The Project Proponent shall take measures for control of noise levels below 85 dBA in the work environment. The workers engaged in operations of HEMM, etc. should be provided with ear plugs /muffs. All personnel including laborers working in dusty areas shall be provided with protective respiratory devices along with adequate training, awareness and information on safety and health aspects. The PP shall be held responsible in case it has been found that workers/ personals/ laborers are working without personal protective equipment.	<p>Complied.</p> <p>Noise level is being monitored and it shows below the prescribed limits. All the workers are working in HEMM are provided with ear plugs and the workers working in dusty are provided with protective respiratory devices.</p>
	MINING PLAN	
28)	The Project Proponent shall adhere to the working parameters of mining plan which was submitted at the time of EC appraisal wherein year-wise plan was mentioned for total excavation i.e. quantum of mineral, waste, over burden, inter burden and top soil etc.No change in basic mining proposal like mining technology, total excavation, mineral & waste production, lease area and scope of working (viz. method of mining, overburden & dump management , O.B & dump mining, mineral transportation mode, ultimate depth of mining etc.) shall not be carried out without prior approval of the Ministry of Environment, Forest and Climate Change, which entail adverse environmental impacts, even if it is a part of approved mining plan modified after grant of EC or granted by State Govt., in the form to Short Term Permit (STP), Query license or any other name.	<p>Complied</p> <p>Mining activities is being carried out as per the approved mining plan. There is no such changes, and in case of any changes, prior permission/approval will be taken from MoEF and CC.</p>

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29)	The Project Proponent shall get the Final Mine Closure Plan along with Financial Assurance approved from Indian Bureau of Mines/Department of Mining & Geology as required under the Provision of the MMDR Act, 1957 and Rules/ Guidelines made there under. A copy of approved final mine closure plan shall be submitted within 2 months of the approval of the same from the competent authority to the concerned Regional Office of the Ministry of Environment, Forest and Climate Change for record and verification.	It is not applicable, as there is no FMCP required now.
30)	The land-use of the mine lease area at various stages of mining scheme as well as at the end-of-life shall be governed as per the approved Mining Plan. The excavation vis-a-vis backfilling in the mine lease area and corresponding afforestation to be raised in the reclaimed area shall be governed as per approved mining plan. PP shall ensure the monitoring and management of rehabilitated areas until the vegetation becomes self-sustaining. The compliance status shall be submitted half-yearly to the MoEF&CC and its concerned Regional Office.	<p>Complied The land use pattern is being followed as per the approved mining plan by IBM</p> <p>The excavation vis-a-vis backfilling in the mine lease area is followed as per mining plan</p>
	LAND RECLAMATION	
31	The Overburden (O.B.) generated during the mining operations shall be stacked at earmarked OB dump site(s) only and it should not be kept active for a long period of time. The physical parameters of the OB dumps like height, width and angle of slope shall be governed as per the approved Mining Plan as per the guidelines/circulars issued by D.G.M.S w.r.t. safety in mining operations shall be strictly adhered to maintain the stability of top soil/OB dumps. The topsoil shall be used for land reclamation and plantation.	<p>Complied. The OB generated during the mining operation is stacked at the OB dump site which is as per the approved Mining Plan. There are two Nos of OB dump inside Mines. OB dumping is as per approved Mining Plan. Study has been done by CIMFR for dump stability report. Currently the both Dumps are Active</p> <p>And here is no top soil generation, no top soil dumped .All the top soil generated has been used for afforestation purposes.</p>
32	The reject/waste generated during the mining operations shall be stacked at earmarked waste dump site(s) only. The physical parameters of the waste dumps like height, width and angle of slope shall be governed as per the approved Mining Plan as per the guidelines/circulars issued by DGMS w.r.t. safety in mining operations shall be strictly adhered to maintain the stability of waste dumps.	<p>COMPLIED It is being followed and complying as per Approved Mining Plan cum Progressive Mine Closure Plan.</p>

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33	The reclamation of waste dump sites shall be done in scientific manner as per the Approved Mining Plan cum Progressive Mine Closure Plan.	COMPLIED It is being followed and complying as per Approved Mining Plan cum Progressive Mine Closure Plan.
34	The slope of dumps shall be vegetated in scientific manner with suitable native species to maintain the slope stability, prevent erosion and surface run off. The selection of local species regulates local climatic parameters and help in adaptation of plant species to the microclimate. The gullies formed on slopes should be adequately taken care of as it impacts the overall stability of dumps. The dump mass should be consolidated with the help of dozer/ compactors thereby ensuring proper filling/ leveling of dump mass. In critical areas, use of geo textiles/ geo-membranes / clay liners / Bentonite etc. shall be undertaken for stabilization of the dump.	Complied. Dump slopes are planted with suitable native species like Chakunda , Mahalimbo , Bahada etc .for stability of the dump and along with that retaining wall provided on the toe of the dump to prevent erosion. <div>     </div> <p>There is use of geo-textile and silpaulin to prevent erosion and surface run-off. Also the geo-textile and silpaulin helps to stabilize the dump by preventing the rain water to percolate in the dump. In long term effect these Geo-Textile decompose with the soil and makes the soil more fertile which in turns acts as a manure for the plants planted in the benches of the dump.</p>


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35	The Project Proponent shall carry out slope stability study in case the dump height is more than 30 meters. The slope stability report shall be submitted to concerned regional office of MoEF&CC.	Complied. Slope Stability study has been conducted by CIMFR, Dhanbad. And report is already submitted to the MoEF and SEIAA The Study report has been submitted vide letter No: OCM/ENV/358 /2025 Date 10.05.2025 to MoEF and CC. Submitted mail reference is enclosed for Kind reference as Annexure: 16
36	Catch drains, settling tanks and siltation ponds of appropriate size shall be constructed around the mine working, mineral yards and Top Soil/OBA/Vaste dumps to prevent run off of water and flow of sediments directly into the water bodies (Nallah/ River/ Pond etc.). The collected water should be utilized for watering the mine area, roads, green belt development, plantation etc. The drains/ sedimentation sumps etc. shall be de-silted regularly, particularly after monsoon season, and maintained properly..	It is being followed and complying as per Approved Mining Plan cum Progressive Mine Closure Plan.
37	Check dams of appropriate size, gradient and length shall be constructed around mine pit and OB dumps to prevent storm run-off and sediment flow into adjoining water bodies. A safety margin of 50% shall be kept for designing of sump structures over and above peak rainfall (based on 50 years data) and maximum discharge in the mine and its adjoining area which shall also help in providing adequate retention time period thereby allowing proper settling of sediments/ silt material. The sedimentation pits/ sumps shall be constructed at the corners of the garland drains.	Complied. Check-dams of appropriate size, gradient and length is constructed around mine pit, OB Dump & garland drain Considering peak rainfall, the surface run off study has been conducted by domain expert. The settling pond has been constructed at the lower level area near ETP of the lease, at the corner of the Garland drains. Dump slopes are planted with suitable native species like Chakunda , Mahalimbo , Bahada etc .for stability of the dump and along with that retaining wall provided on the toe of the dump to prevent erosion.
38	The top soil, if any, shall temporarily be stored at earmarked site(s) within the mine lease only and should not be kept unutilized for long. The physical parameters of the top soil dumps like height, width and angle of	Complied.
	slope shall be governed as per the approved Mining Plan and as per the guidelines framed by DGMS w.r.t. safety in mining operations shall be strictly adhered to maintain the stability of dumps. The topsoil shall be used for land reclamation and plantation purpose.	There is no generation of topsoil during the period Oct 2024 to March'2025. All the earlier generated topsoil is utilized for afforestation purpose.


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39	The mining lease holders shall, after ceasing mining operations, undertake regrassing the mining area and any other area which may have been disturbed due to their mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc.	Assured to Comply
40	Slope study by an expert of repute of waste dumps to be done and submitted within six months from the date of issue of EC to SEAC / SEIAA	Complied. Slope Stability Study is conducted, and the report had already submitted SEIAA via letter number OCM/ENV/1140/2022 dated on 08.08.2022. And again, it is submitted vide mail copy enclosed for reference as Annexure No-17
TRANSPORTATION		
41	No Transportation of the minerals shall be allowed in case of roads passing through villages/ habitations. In such cases, PP shall construct a 'bypass' road for the purpose of transportation of the minerals leaving an adequate gap (say at least 200 meters) so that the adverse impact of sound and dust along with chances of accidents could be mitigated. All costs resulting from widening and strengthening of existing public road network shall be borne by the PP in consultation with nodal State Govt. Department. Transportation of minerals through road movement in case of existing village/ rural roads shall be allowed in consultation with nodal State Govt. Department only after required strengthening such that the carrying capacity of roads is increased to handle the traffic load.	Complied Transportation is being carried out on the same road as used before the expansion i.e TOMKA-MANGALPUR Highway. Road connecting to TOMKA-MANGALPUR highway, is being always maintained to avoid dust generation. Further, water sprinkling is being carried out to mitigate the dust generation. All the vehicle used inside mines have valid PUC.
42	The pollution due to transportation load on the environment will be effectively controlled and water sprinkling will also be done regularly. Vehicular emissions shall be kept under control and regularly monitored. Project should obtain Pollution Under Control (PUC) certificate for all the vehicles from authorized pollution testing centers.	Complied. It is done effectively and in a controlled manner. Also water sprinkling is done regularly. All vehicle inside mines has also obtained PUC certificate from authorized pollution testing centers.

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43	<p>The Main haulage road within the mine lease should be provided with a permanent water sprinkling arrangement for dust suppression. Other roads within the mine lease should be wetted regularly with tanker-mounted water sprinkling system. The other areas of dust generation like crushing zone, material transfer points, material yards etc. should invariably be provided with dust suppression arrangements. The air pollution control equipments like bag filters, vacuum suction hoods, dry fogging system etc. shall be installed at Crushers, belt- conveyors and other areas prone to air pollution. The belt conveyor should be fully covered to avoid generation of dust while transportation. PP shall take necessary measures to avoid generation of fugitive dust emissions.</p>	<p>Complied</p> <p>For dust suppression system, there is provided one fixed water pipe line along with two dedicated permanent water tanker which sprinkles out the water in the haul roads regularly in a scheduled way. The roads are kept in wet condition and mineral stack yard is also kept in wet condition.</p> <p>Belt conveyor is used inside the COB which is wet process technology due to which no chance of dust generation due to that.</p> <p>There is no crushing zone . Bag filters are not installed& Fugitive dust is prevented by plantation & water sprinkling regularly.</p>
44	<p>Haulage road shall be developed and maintained perennially and perpetually by the proponent in construction with the concerned authority of the Govt. and to this effect, the proponent shall submit an undertaking in form of a legal affidavit</p>	<p>Complied.</p> <p>Around 70 meters of concrete roads have been constructed within the lease. All the haulage roads are developed and maintained regularly.</p> <p>In this regard, One Legal affidavit is submitted to the Member Secretary SEIAA, Bhubaneswar via letter number OCM/ENV/340/2025 dated on 06.05.2025 and also copy marked to the Scientist(E), MoEF & CC, Regional Office, Chandrasekharpur, Bhubaneswar.</p> <p>Affidavit copy submission mail reference is enclosed as Annexure No.- 18</p>
45	<p>Traffic density study if not done by domain expert, then the expert to be ratified / authenticated by domain expert and submitted within a month time</p>	<p>Complied.</p> <p>Traffic density study has been conducted by domain expert and submitted along with final EIA.</p>
	<p>GREENBELT</p>	
46	<p>The Project Proponent shall develop greenbelt in 7.5m wide safety zone all along the mine lease boundary as per the guidelines of CPCB in order to arrest pollution emanating from mining operations within the lease. The whole Green belt shall be developed within first 5 years starting from windward side of the active mining area. The development of greenbelt shall be governed as per the EC granted by the Ministry irrespective of the stipulation made in approved mine plan.</p>	<p>Complied</p> <p>Green belt (Plantation) has already been developed all along the mining lease boundary line in 7.5 Mtr distance.</p>  <p style="text-align: center;">Safety zone plantation</p>


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47	<p>The Project Proponent shall carryout plantation/ afforestation in backfilled and reclaimed area of mining lease, around water body, along the roadsides, in community areas etc. by planting the native species in consultation with the State Forest Department/ Agriculture Department/ Rural development department/ Tribal Welfare Department/ Gram Panchayat such that only those species be selected which are of use to the local people. The CPCB guidelines in this respect shall also be adhered. The density of the trees should be around 2500 saplings per Hectare. Adequate budgetary provision shall be made for protection and care of trees.</p>	<p>Complied.</p> <p>Community Plantation program are being carried out with consultation of Forest Department and Gram Panchayat. Adequate funds provision is there to take care of the plantation.</p> <p>Plantation carried out in consultation with Forest department and all around the lease boundary and the report has been submitted to Forest Range Officer, Sukinda Jajpur via letter number and Joint director MoEF and CC. Copy enclosed for reference as Annexure no.-19.</p> 
48	<p>The Project Proponent shall make necessary alternative arrangements for livestock feed by developing grazing land with a view to compensate those areas which are coming within the mine lease. The development of such grazing land shall be done in consultation with the State Government. In this regard, Project Proponent should essentially implement the directions of the Hon'ble Supreme Court with regard to acquisition of grazing land. The sparse trees on such grazing ground, which provide mid-day shelter from the scorching sun, should be scrupulously guarded/ protected against felling and plantation of such trees should be promoted.</p>	<p>It is not applicable as there is no grazing land within the lease area.</p>


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49	<p>The Project Proponent shall undertake all precautionary measures for conservation and protection of endangered flora and fauna and Schedule-1 species during mining operation. A Wildlife Conservation Plan shall be prepared for the same clearly delineating action to be taken for conservation of flora and fauna. The Plan shall be approved by Chief Wild Life Warden of the State Govt. and implemented in consultation with the State Forest and Wildlife Department. A copy of Wildlife Conservation Plan and its implementation status (annual) shall be submitted to the Regional Office of the Ministry.</p>	<p>Complied.</p> <p>Site Specific Wildlife Conservation plan has been prepared by accredited Consultant and It is approved from the office of the principle chief conservation of forest.</p> <p>Approval Ref Vide No.: 10183/CWLW-FDWC-FD-0033-2022, dated 11.11.2022.</p> <p>The copy of the approval is enclosed as Annexure -20</p>
	Human Health Issues , Public hearing & CER	
50	<p>The Project Proponent shall appoint an Occupational Health Specialist for Regular as well as Periodical medical examination of the workers engaged in the mining activities, as per the DGMS guidelines. The records shall be maintained properly. PP shall also carryout Occupational health check-ups in respect of workers which are having ailments like BP, diabetes, habitual smoking, etc. The check-ups shall be undertaken once in six months and necessary remedial/ preventive measures be taken. A status report on the same may be sent to MoEF&CC Regional Office and DGMS on half-yearly basis.</p>	<p>Complied.</p> <p>One Occupational Health specialist is appointed as per DGMS guideline. Check-ups are undertaken once in six month and necessary preventive measures are taken. Status report is sent to MoEF and DGMS on half-yearly basis. The details of the Medical Check up from Oct'2024 to March'2025 is enclosed as Annexure No. 21</p> <p>Status report is submitted and submitted copy is enclosed as Annexure No.-21</p>
51	<p>The Project Proponent must demonstrate commitment to work towards 'Zero Harm' from their mining activities and carry out Health Risk Assessment (HRA) for identification workplace hazards and assess their potential risks to health and determine appropriate control measures to protect the health and wellbeing of workers and nearby community. The proponent shall maintain accurate and systematic records of the HRA. The HRA for neighborhood has to focus on Public Health Problems like Malaria, Tuberculosis, HIV, Anaemia, Diarrhoea in children under five, respiratory infections due to bio mass</p>	<p>Complied</p> <p>The Mine Management is committed to work for zero harm from the mining activities and carrying out appropriate measures for Risk assessment and identification of workplace hazards and assess the potential risks for health and taking appropriate control measures to protect the health of workers and the nearby community. The PP is conducting HRA among the neighbourhoods to focus on malaria, Dengue, Tuberculosis, HIV, Anaemia, Diarrhoea and ARIs in children and adults. Regular awareness program is being conducted in the nearby villages for sanitization, personal hygiene, hand washing, not to defecate in open places, women health, hazards of smoking tobacco, drinking alcohol. Awareness</p>





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	<p>cooking. The proponent shall also create awareness and educate the nearby community and workers for Sanitation, Personal Hygiene, Hand washing, not to defecate in open, Women Health and Hygiene (Providing Sanitary Napkins), hazard of tobacco and alcohol use. The Proponent shall carryout base line HRA for all the category of workers and thereafter every five years.</p>	<p>program are being taken for control of malaria and Dengue and Tuberculosis.</p> <p>Details are attached as Annexure 22</p> <div style="display: flex; justify-content: space-around;">   </div>
52	<p>The Proponent shall carry out Occupational health surveillance which be a part of HRA and include Biological Monitoring where practical and feasible, and the tests and investigations relevant to the exposure (e.g. for Dust a X-Ray chest; For Noise Audiometric; for Lead Exposure Blood Lead, For Welders Full Ophthalmologic Assessment; for Manganese Miners a complete Neurological Assessment by a Certified Neurologist, and Manganese (Mn) Estimation in Blood; For Inorganic Chromium- Fortnightly skin inspection of hands and forearms by a responsible person. Except routine tests all tests would be carried out in a Lab accredited by NABH. Records of Health Surveillance must be kept for 30 years, including the results of and the records of Physical examination and tests. The record of exposure due to materials like Asbestos, Hard Rock Mining, Silica, Gold, Kaolin, Aluminium, Iron, Manganese, Chromium, Lead, Uranium need to be handed over to the Mining Department of the State in case the life of the mine is less than 30 years. It would be obligatory for the State Mines Departments to make arrangements for the safe and secure storage of the records including X-Ray. Only conventional X-Ray will be accepted for record purposes and not the digital one). X-Ray must meet ILO criteria (17 x14 inches and of good quality).</p>	<p>Complied.</p> <p>Steps have been taken to carry out occupational health surveillance for workers engaged in mines activities like audiometric tests for blasters(noise), x-ray chest for hexavalent chromite exposure, fortnightly skin inspection by Medical officer of our dispensary.</p> <p>The medical report has been attached as Annexure 23</p>
53	<p>The Proponent shall maintained a record of performance indicators for workers which includes (a) there should not be a</p>	<p>Complied</p> <p>Performance Indicator for workers and employees are being maintained.</p>

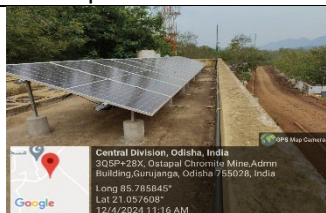
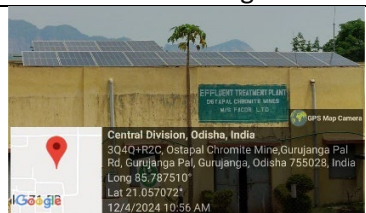
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	<p>significant decline in their Body Mass Index and it should stay between 18.5 -24.9, (b) the Final Chest X-Ray compared with the base line X-Ray should not show any capacities ,(c) At the end of their leaving job there should be no Diminution in their Lung Functions Forced Expiratory Volume in one second (FEV1),Forced Vital Capacity (FVC), and the ratio) unless they are smokers which has to be adjusted, and the effect of age, (d) their hearing should not be affected. As a proof an Audiogram (first and last need to be presented), (e) they should not have developed any Persistent Back Pain, Neck Pain, and the movement of their Hip, Knee and other joints should have normal range of movement, (f) they should not have suffered loss of any body part. The record of the same should be submitted to the Regional Office, MoEFCC annually along with details of the relief and compensation paid to workers having above indications</p>	<p>a) As per medical report , there is no significant decline in their Body Mass Index and it is between 18.5-24.9 (b) the Final Chest X-Ray compared with the base line X-Ray does not show any capacities (c) At the end of leaving job there is be no Diminution in their Lung Functions Forced Expiratory Volume in one second (FEV1),Forced Vital Capacity (FVC), and the ratio) unless they are smokers which has to be adjusted, and the effect of age, (d)Their hearing is not affected. As a proof an Audiogram is presented), (e) they have not developed any Persistent Back Pain Neck Pain, and the movement of their Hip, Knee and other joints should have normal range of movement, (f) they have not suffered loss of any body part.</p> <p>Status of the same are given for reference. And the record is also being maintained. One sample copy is attached for your ready reference as Annexure No.- 24</p>
54	<p>The Project Proponent shall ensure that Personnel working in dusty areas should wear protective respiratory devices and they should also be provided with adequate training and information on safety and health aspects.</p>	<p>Complied. Person working in dusty area wears protective respiratory devices during work. Further, all the vehicle engaged in operation are closed door vehicle (Having A/C facilities). Regular training is being provided to all employees on safety and health.</p> <p align="center"><u>Training on Health & Safety of Workmen</u></p>  <p>Further, Monthly Safety Town hall is being conducted for creating more awreness on safety and Health.</p>
55	<p>Project Proponent shall make provision for the housing for workers/labors or shall construct labor camps within/outside (company owned land) with necessary basic infrastructure/ facilities like fuel for</p>	<p>Complied All most all the workers/labors are coming from local area. So, colony is not required for them. There are two STP Provided having capacity 30KLD (20 + 10 KLD) for treatment of domestic effluents.</p>

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	cooking, mobile toilets, mobile STP, safe drinking water, medical health care, creche for kids etc. The housing may be provided in the form of temporary structures which can be removed after the completion of the project related infrastructure. The domestic waste water should be treated		
	with STP in order to avoid contamination of underground water.	20 KLD STP	10 KLD
56	The proponent shall implement the mitigative measures as suggested in the Study Report on effect of chromite mines to nearest human habitation.	Complied To prevent contamination of Hexavalent chromium study has conducted by NIT, Rourkela. All the suggestions are implemented.	
57	Occupational health check-up shall be done by occupational health expert periodically for employees as well as nearby villagers.	Complied. It Is done periodically for employees as well as nearby Villagers to ensure the health status. <div>   </div>	
58	The activities proposed in action plan prepared in terms of the provision of the MoEF& CC Office Memorandum No-22-65/2017-IA.III dated 30th September,2020 for addressing the issues raised during the Public Hearing shall be completed as per the budgetary provisions mentioned in the action plan and within the stipulated time frame. The status report on implementation of action plan shall be submitted to the concerned Regional Office of the Ministry along with District Administration. Project Proponent shall keep the funds earmarked for environmental protection measures in a separate account and refrain from diverting the same for other purposes. The Year wise expenditure of such funds should be reported to the RO, Bhubaneswar, MoEF&CC, OSPCB & SEIAA, Odisha.	Being Complied. As per the requirement, different community developmental work has been carried out during the Year 2024-25. Status report has been submitted to the Authorities. Annual report on Implementation of community development plan submitted vide mail dated 28.05.2025, copy is enclosed as Annexure No.- 25. Separate General Ledger Account & separate Cost centre for this funds has been maintained & which is also audited annually. And nos. environmental protection measures have been implemented. Annual report on expenditure towards environmental protection measures has been submitted . Submitted reference copy is attached for reference as Annexure No.- 26	
	MISCELLANEOUS		


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59	The Project Proponent shall prepare digital map (land use & land cover) of the entire lease area once in five years purpose of monitoring land use pattern and submit a report to concerned Regional Office of the MoEF&CC, Bhubaneswar and SEIAA, Odisha	Complied We are having a digital map for the entire lease area and submitted to IBM. The details of the land use pattern is already submitted to Regional office MoEF and CC , vide letter No.OCM/ENV/1142/2022, dated 08.08.2022
60	The Project Authorities should inform to the Regional Office regarding date of financial closures and final approval of the project by the concerned authorities and the date of start of land development work.	Financial closures and final approval of the project is on Dt 12.05.2023 and date of start of land development work on dated 20.12.2024 Annexure No.-18 is enclosed for reference.
61	The project proponent shall install solar panel inside the mine to generate 5KW of power required for Administrative Building as proposed..	Complied Presently there are 16 KW capacity of Solar Panel is being used for Ostapal Mine & as well for administrative building. <div style="display: flex; justify-content: space-around;">   </div> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> Solar panel at Admin building </div> <div style="text-align: center;"> Solar Panel inside Mines </div> </div>
62	The Project Proponent shall submit six monthly compliance reports on the status of the implementation of the stipulated environmental safeguards to the MOEF&CC & its concerned Regional Office, Central Pollution Control Board and State Pollution Control Board.	Assured to Comply
63	A separate 'Environmental Management Cell' with suitable qualified manpower should be set-up under the control of a Senior Executive. The Senior Executive shall directly report to Head of the Organization. Adequate number of qualified Environmental Scientists and Mining Engineers shall be appointed and submit a report to RO, MoEF&CC, Bhubaneswar and SEIAA, Odisha.	Complied A separate Environment Management Cell has been set up with the required Qualification under the control of Senior Executive. The detail is attached as Annexure 27
64	The concerned Regional Office of the MoEF&CC shall randomly monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the MoEF&CC officer(s) by furnishing the requisite data / information / monitoring reports.	It is ensured to extend the full support to the authority as per their requirement.

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65	The project proponent shall augment infrastructure on drinking water, health care and education in nearby villages as per time bound action plan submitted.	Complied. It is implemented as per action plan. Details of work done in the field of Drinking water , Health and Education is eclosed in Annexure No.-25
66	The project proponent shall obtain permission from DGMS under 106(2b) to carry out blasting operation within the lease area	Complied. Permission from DGMS under 106(2b) to carry out blasting operation obtained vide permission No.: NO: 180020 SEZ Bhubaneswar Region Exemp 2021 8922, dated Date: 28/05/2021.
67	It shall be mandatory for the project management to submit six (06) monthly compliance reports on post environmental monitoring in respect of the stipulated terms and conditions in this Environmental Clearance to the State Environment Impact Assessment Authority (SEIAA),Odisha, SPCB & Regional Office of the Ministry of Environment & Forest, Odisha in hard and soft copies on 1st June and 1st December of each calendar year. No hard copies of six - monthly compliance reports shall be submitted to SEIAA. The proponent shall upload the six monthly compliance report including results of monitored data, as applicable in the website of the Ministry (www.parivesh.nic.in) for monitoring of EC Conditions, failing which EC is liable to be revoked.	Assured to comply
68	The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the Odisha State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of EC conditions and shall also be sent to the respective to the concerned Integrated Regional Office(IRO),Bhubaneswar of MoEF&CC,Gol, Central Pollution Control Board and State Pollution Control Board.	Assured to comply
69	The proponent shall submit/upload six monthly reports on the status of compliance of the stipulated Environmental Clearance conditions, including results of monitored data on their	Complied. After Submitting the six monthly compliance report for the period,it is uploaded in the website and it is uploaded periodically, and same is also submitted Regional office, MoEF and CC, Regional Office of the State Pollution Control Board.

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	<p>website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF&CC, Govt. of India, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; SPM, RSPM, SO₂, NO_x (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.</p>	<p>All the critical parameters are monitored and also displayed near main gate.</p>  <p>Digital display Board Near Main Gate.</p>
70	<p>The SEIAA, Odisha or any other competent authority may alter/modify the above conditions or stipulate any further condition in the interest of environment protection.</p>	<p>Complied. All the implementations are as per the standards and satisfactory.</p>
71	<p>Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.</p>	<p>Complied. All the above mentioned points are complied and there is no concealing of Factual data is being done.</p>
72	<p>The above conditions will be enforced inter-alia, under the provisions of the Water (Prevention & Control of Pollution) Act, 1974. the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and the Public Liability Insurance Act, 1991 along with their amendments and rules made there under and also any other orders passed by the Hon'ble Supreme Court of India/ High Court and any other Court of Law relating to the subject matter.</p>	<p>Complied.</p>
73	<p>Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.</p>	<p>No appeal filed against this Environment Clearance in the National Green Tribunal. Hence complied.</p>

From: [Susanta Biswal](#)
To: seiaaodisha; roez.bsr-mef@nic.in
Bcc: [Somnath Pal](#); [Krutisunder Mohapatra](#); [Muthumari M](#)
Subject: Submission of Compliance report on the Condition No.-1 of the EC in respect of Ostapal Chromite Mine of M/s FACOR Ltd
Date: Tuesday, May 6, 2025 4:37:44 PM
Attachments: [Submission of Compliance Report of the Condition no-1 of the EC of Ostapal Chromite Mine of FACOR Ltd.pdf](#)

Ref. No.: EC Identification No.: EC24B0106OR5602647N, Dated: 18.07.2024, Condition No.-1

Respected Sir,

With reference to the above-mentioned subject & cited document, we are herewith submitting the Final Study report that conducted by NIT, Rourkela along with action plan & implementation plan in respect of Ostapal Chromite Min of M/s FACOR LTD, Jajpur, ODISHA.

This is for your Kind perusal.

Thanking You.

Regards
Susanta Biswal
Head- Mines
Mines Division
M/s FACOR LTD



GREEN FORCE ASSOCIATES PRIVATE LIMITED



Plot No.-1666, Phase-II, Delta Colony, Nilakantheswar Marg,
Baramunda, Bhubaneswar, Dist - Khurda



Mail Id: greenforceassociates@gmail.com



Annexure 2

Report No-GFAPL/24-25/OCM/102

Issued Date-04.02.2025

TEST REPORT

Client Name & Address	M/s Ferro Alloys Corporation Limited; Ostapal Chromite Mines, Kaliapani, Jajpur		
Nature of Sampling	Soil		
Sampling By	GFAPL's Representative		
Environmental Condition	Clean	Sampling Method	As per TNAU Portal
Location of performance of Laboratory activities	Laboratory Permanent Facility	Deviation from the method(if any)	NO
Discipline	Chemical	Group	Soil and Rock
Date of Sampling	13.01.2025	Date of Receiving	14.01.2025
Date of Analysis	14.01.2025	Date of Complete	18.01.2025
Sampling Location & Coordinates	S1: Near COBP; Lat: 21°3'48.50"N and Long: 85°47'33.25"E; S2: Near View Point; Lat: 21°3'48.58"N and Long: 85°47'33.20"E;		

Sl. No.	Parameters	Standard	Unit	S1	S2
1	pH	IS: 2720(Part-26)-1987	%	6.34	6.28
2	Organic Carbon Content	IS: 2720(Part-22)-1972	%	1.12	1.28
3	Water Content (Moisture)	IS: 2720(Part-2)-1973	%	6.1	6.4
4	Specific gravity	IS: 2720(Part-3/Sec1)-1980	Gs	2.68	2.65
5	Sulfate	IS: 2720(Part-27)-1977	mg/Kg	104	116

Reviewed By

Authorized Signatory

CHIEF ANALYST

GREENFORCE ASSOCIATES PRIVATE LIMITED
BHUBANESWAR, ODISHA
Miss. Arti Sahoo

TECHNICAL MANAGER

GREENFORCE ASSOCIATES PRIVATE LIMITED
BHUBANESWAR, ODISHA
Mr. S.K. Parhi

Note:

- The results listed refer only to tested samples and applicable parameters Endorsement of products is neither inferred nor implied.
- Total liability of our lab is limited to the invoiced amount.
- Samples will be destroyed after 30 days from the date of test report unless otherwise specified.
- This report is not to be reproduced wholly or in part and cannot be used as evidence in the court of law and should not be used in any advertising media without our special permission in writing.
- Report refers to the sample submitted to us and not drawn by unless mentioned otherwise.

END OF REPORT



GREEN FORCE ASSOCIATES PRIVATE LIMITED



Plot No.-1666, Phase-II, Delta Colony, Nilakantheswar Marg,
Baramunda, Bhubaneswar, Dist - Khurda



Mail Id: greenforceassociates@gmail.com

(An ISO 14001, 9001, 45001 certified Consulting Organization & NABL Accredited Laboratory)

Report No-GFAPL/24-25/OCM/102

Issued Date-04.02.2025

TEST REPORT

Client Name & Address	M/s Ferro Alloys Corporation Limited; Ostapal Chromite Mines, Kaliapani, Jajpur		
Nature of Sampling	Soil		
Sampling By	GFAPL's Representative		
Environmental Condition	Clean	Sampling Method	As per TNAU Portal
Location of performance of Laboratory activities	Laboratory Permanent Facility	Deviation from the method(if any)	NO
Discipline	Chemical	Group	Soil and Rock
Date of Sampling	13.01.2025	Date of Receiving	14.01.2025
Date of Analysis	14.01.2025	Date of Complete	18.01.2025
Sampling Location & Coordinates	S1: Near COBP; Lat: 21°3'48.50"N and Long: 85°47'33.25"E; S2: Near View Point; Lat: 21°3'48.58"N and Long: 85°47'33.20"E;		

Sl. No.	Parameters	Standard	Unit	S1	S2
1.	Colour	GFAPL/SOP/Soil & Rock/01-23	--	Brown	Brown
2.	Electrical conductivity (as EC)	IS:14767: 2000	micro s/cm	186.4	182.4
3.	Soil Texture	GFAPL/SOP/Soil & Rock/02-23	---	Sandy Clay loamy	Sandy Clay loamy
4.	Bulk Density	GFAPL/SOP/Soil & Rock/03-23	gm/cc	1.33	1.3
5.	Calcium (as Ca)	IS: 2720(Part-23)	mg/kg	456	432
6.	Magnesium (as Mg)	GFAPL/SOP/Soil & Rock/04-23	mg/kg	224	216
7.	Nitrogen (as N)	IS:14684: 1999	kg/hect	78	110
8.	Phosphorus (as p)	GFAPL/SOP/Soil & Rock/05-23	kg/hect	22	23
9.	Potassium (as K)	GFAPL/SOP/Soil & Rock/06-23	mg/kg	156	142
10.	Chloride(as Cl)	GFAPL/SOP/Soil & Rock/07-23	mg/kg	154	140
11.	Manganese (as Mn)	GFAPL/SOP/Soil & Rock/08-23	mg/kg	4.8	3.6
12.	Iron (as Fe)	GFAPL/SOP/Soil & Rock/09-23	%	0.54	0.43
13.	Hexavalent Chromium	GFAPL/SOP/Soil & Rock/10-23	mg/kg	<0.05	<0.05

Reviewed By
CHIEF ANALYST

GREENFORCE ASSOCIATES PRIVATE LIMITED
BHUBANESWAR, ODISHA

Chief Analyst

Miss. Arti Sahoo

Authorized Signatory

TECHNICAL MANAGER

GREENFORCE ASSOCIATES PRIVATE LIMITED
BHUBANESWAR, ODISHA

Technical Manager

Mr. S.K. Parhi

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Plot No- 1363-3892, Baibhab Realcon, Fulnakhara,
Cuttack, Odisha, India 754001



GREEN FORCE ASSOCIATES PRIVATE LIMITED



Plot No.-1666, Phase-II, Delta Colony, Nilakantheswar Marg,
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Report No-GFAPL/24-25/OCM/103

Issued Date-04.02.2025

TEST REPORT

Client Name & Address	M/s Ferro Alloys Corporation Limited; Ostapal Chromite Mines, Kaliapani, Jajpur		
Nature of Sampling	Soil		
Sampling By	GFAPL's Representative		
Environmental Condition	Clean	Sampling Method	As per TNAU Portal
Location of performance of Laboratory activities	Laboratory Permanent Facility	Deviation from the method (if any)	NO
Discipline	Chemical	Group	Soil and Rock
Date of Sampling	13.01.2025	Date of Receiving	14.01.2025
Date of Analysis	14.01.2025	Date of Complete	18.01.2025
Sampling Location & Coordinates	S3: Ostapal Village; Lat: 21°3'53.63"N and Long: 85°48'3.15"E; S4: Gurujang Village; Lat: 21°3'36.26"N and Long: 85°47'52.32"E;		

Sl. No.	Parameters	Standard	Unit	S3	S4
1	pH	IS: 2720(Part-26)-1987	%	6.24	6.18
2	Organic Carbon Content	IS: 2720(Part-22)-1972	%	1.36	1.4
3	Water Content (Moisture)	IS: 2720(Part-2)-1973	%	6.3	5.9
4	Specific gravity	IS: 2720(Part-3/Sec1)-1980	Gs	2.64	2.64
5	Sulfate	IS: 2720(Part-27)-1977	mg/Kg	124	128

Reviewed By

CHIEF ANALYST

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Chief Analyst
Miss. Arti Sahoo

Authorized Signatory

TECHNICAL MANAGER

GREENFORCE ASSOCIATES PRIVATE LIMITED
Bhubaneswar, Odisha
Mr. S.K. Parhi

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Report No-GFAPL/24-25/OCM/103

Issued Date-04.02.2025

TEST REPORT

Client Name & Address	M/s Ferro Alloys Corporation Limited: Ostapal Chromite Mines, Kaliapani, Jajpur		
Nature of Sampling	Soil		
Sampling By	GFAPL's Representative		
Environmental Condition	Clean	Sampling Method	As per TNAU Portal
Location of performance of Laboratory activities	Laboratory Permanent Facility	Deviation from the method(if any)	NO
Discipline	Chemical	Group	Soil and Rock
Date of Sampling	13.01.2025	Date of Receiving	14.01.2025
Date of Analysis	14.01.2025	Date of Complete	18.01.2025
Sampling Location & Coordinates	S3: Ostapal Village; Lat: 21°3'53.63"N and Long: 85°48'3.15"E; S4: Gurujang Village; Lat: 21°3'36.26"N and Long: 85°47'52.32"E;		

Sl. No.	Parameters	Standard	Unit	S3	S4
1.	Colour	GFAPL/SOP/Soil & Rock/01-23	--	Brown	Brown
2.	Electrical conductivity (as EC)	IS:14767: 2000	micro s/cm	167.2	170.5
3.	Soil Texture	GFAPL/SOP/Soil & Rock/02-23	---	Sandy Clay loamy	Sandy Clay loamy
4.	Bulk Density	GFAPL/SOP/Soil & Rock/03-23	gm/cc	1.28	1.27
5.	Calcium (as Ca)	IS: 2720(Part-23)	mg/kg	424	432
6.	Magnesium (as Mg)	GFAPL/SOP/Soil & Rock/04-23	mg/kg	212	214
7.	Nitrogen (as N)	IS:14684: 1999	kg/hect	112	114
8.	Phosphorus (as p)	GFAPL/SOP/Soil & Rock/05-23	kg/hect	22	24
9.	Potassium (as K)	GFAPL/SOP/Soil & Rock/06-23	mg/kg	140	144
10.	Chloride(as Cl)	GFAPL/SOP/Soil & Rock/07-23	mg/kg	136	128
11.	Manganese (as Mn)	GFAPL/SOP/Soil & Rock/08-23	mg/kg	0.2	0.22
12.	Iron (as Fe)	GFAPL/SOP/Soil & Rock/09-23	%	0.1	0.09
13.	Hexavalent Chromium	GFAPL/SOP/Soil & Rock/10-23	mg/kg	<0.05	<0.05

Reviewed By

Authorized Signatory

CHIEF ANALYST

TECHNICAL MANAGER

GREENFORCE ASSOCIATES PRIVATE LIMITED

GREENFORCE ASSOCIATES PRIVATE LIMITED

BHUBANESWAR, ODISHA

BHUBANESWAR, ODISHA

Miss. Arti Sahoo

Mr. S.K. Parhi

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Report No-GFAPL/24-25/OCM/107

Issued Date-04.02.2025

TEST REPORT

Client Name & Address	M/s Ferro Alloys Corporation Limited, Ostapal Chromite Mines, Kaliapani, Jaipur		
Nature of Sampling	Surface Water		
Sampling By	GFAPL's Representative		
Environmental Condition	Good	Sampling Method	As per APHA 24 th ED 1060 B: 2023
Location of performance of Laboratory activities	Laboratory Permanent Facility	Deviation from the method (if any)	NO
Discipline	Chemical	Group	Water
Date of Sampling	13.01.2025	Date of Receiving	14.01.2025
Date of Analysis	14.01.2025	Date of Complete	18.01.2025
Sampling Location & Coordinates	SW1: Damsala Nala Upstream; Lat: 21°3'18.43"N and Long: 85°47'10.79"E; SW2: Damsala Nala Downstream; Lat: 21°3'17.12"N and Long: 85°47'5.33"E;		

Sl. No.	Parameter	Testing Methods	Unit	Standard as per IS-2296 Class-C	SW1	SW2
1.	Colour	IS 3025: (Part 4)- 1983	Hazen	300	<5.0	<5.0
2.	Turbidity	APHA 24th ED: 2130-B -2023	NTU	--	<1.0	<1.0
3.	pH	APHA 24th ED 4500- H+B:2023	---	6.0-9.0	7.28	7.35
4.	Conductivity	APHA 24th ED 2510-B: 2023	μS/cm	--	245.3	262.3
5.	Total Dissolved Solid	APHA 24th ED 2540-C: 2023	mg/l	1500	148	160
6.	Chloride (as Cl)	APHA 24th ED 4500- Cl-B:2023	mg/l	600	30	34
7.	Cyanide (as CN)	APHA 24th ED 4500-CN-F	mg/l	0.05	<0.02	<0.02
8.	Hexavalent Chromium(asCr+6)	APHA 24 th ED 3500-Cr-B: 2023	mg/l	0.05	<0.05	<0.05
9.	Iron (as Fe)	APHA 24th ED 3500-Fe-B: 2023	mg/l	50	0.32	0.36
10.	Sulfate (as SO4)	APHA 24th ED 4500-SO4 D: 2023	mg/l	400	7.8	8.2
11.	Fluoride (as F)	APHA 24th ED 4500-F-C: 2023	mg/l	1.5	0.1	0.14
12.	Oil & Grease	IS 3025 PART 39-1991 RA-2003	mg/l	0.1	<1.0	<1.0
13.	Dissolved oxygen	APHA 24th ED 4500 O-C:2023	mg/l	4 (min)	6.1	5.9
14.	BOD (3) days at 27°C	IS 3025 (PART 44): 1993 REA-2009	mg/l	3.0	<2.0	<2.0
15.	Chemical Oxygen Demand as COD	APHA 24th ED 5220 C:2023	mg/l	--	18	24

CHIEF ANALYST
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Chief Analyst
Miss. Arti Sahoo

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Technical Manager
Mr. S.K. Parhi

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Plot No- 1363-3892, Baibhab Realcon, Fulnakhara,
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Report No-GFAPL/24-25/OCM/107

Issued Date-04.02.2025

TEST REPORT

Client Name & Address	M/s Ferro Alloys Corporation Limited, Ostapal Chromite Mines, Kaliapani, Jaipur		
Nature of Sampling	Surface Water		
Sampling By	GFAPL's Representative		
Environmental Condition	Good	Sampling Method	As per APHA 24 th ED 1060 B: 2023
Location of performance of Laboratory activities	Laboratory Permanent Facility	Deviation from the method (if any)	NO
Discipline	Chemical	Group	Water
Date of Sampling	13.01.2025	Date of Receiving	14.01.2025
Date of Analysis	14.01.2025	Date of Complete	18.01.2025
Sampling Location & Coordinates	SW1: DamsalaNala Upstream(100 mt); Lat: 21°3'18.43"N and Long: 85°47'10.79"E; SW2: DamsalaNala Downstream (100 mt); Lat: 21°3'17.12"N and Long: 85°47'5.33"E;		

Sl. No.	Parameter	Testing Methods	Unit	Standard as per IS-2296 Class-C	SW1	SW2
1.	Nitrate (as NO ₃)	APHA 24th ED 4500-NO ₃ -E: 2023	mg/l	50	1.96	2.2
2.	Phenolic Compounds as C ₆ H ₅ OH	APHA 24th ED 5530 B,D:2023	mg/l	--	<0.001	<0.001
3.	Copper (as Cu)	IS: 3025(Part 42)	mg/l	0.05	<0.02	<0.02
4.	Lead (as Pb)	APHA 24th ED 3500 Pb: 2023	mg/l	0.01	<0.01	<0.01
5.	Zinc (as Zn)	APHA 24th ED 3500 Zn: 2023	mg/l	5	<0.02	<0.02
6.	Arsenic as As	IS: 3025 (Part 37)	mg/l	--	<0.001	<0.001
7.	Selenium (as Se)	APHA 24th ED 3500 B: 2023	mg/l	0.001	<0.001	<0.001
8.	Cadmium (as Cd)	IS: 3025(Part 41)	mg/l	0.003	<0.001	<0.001
9.	Total Coliform	APHA 24th ED 9222-H: 2023	MPN/100ml	---	470	510

Reviewed By

Authorized Signatory

CHIEF ANALYST

TECHNICAL MANAGER

GREENFORCE ASSOCIATES PRIVATE LIMITED

GREENFORCE ASSOCIATES PRIVATE LIMITED

BHUBANESHWAR, ODISHA

BHUBANESHWAR, ODISHA

Miss. Arti Sahoo

Mr. S.K. Parhi

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Plot No- 1363-3892, Baibhab Realcon, Fulnakhara,
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GREEN FORCE ASSOCIATES PRIVATE LIMITED



Plot No.-1666, Phase-II, Delta Colony, Nilakantheswar Marg,
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Annexure 3

Report No-GFAPL/24-25/OCM/108

Issued Date-04.02.2025

TEST REPORT

Client Name & Address	M/s Ferro Alloys Corporation Limited; Ostapal Chromite Mines, Kaliapani, Jajpur		
Nature of Sampling	ETP Water		
Sampling By	GFAPL's Representative		
Environmental Condition	Good	Sampling Method	As per APHA 24 th ED 1060 B: 2023
Location of performance of Laboratory activities	Laboratory Permanent Facility	Deviation from the method (if any)	NO
Discipline	Chemical	Group	Environment & Pollution
Date of Sampling	13.01.2025	Date of Receiving	14.01.2025
Date of Analysis	14.01.2025	Date of Complete	18.01.2025
Sampling Location & Coordinates	ETP1- ETP Inlet: Lat: 21°2'10.46"N and Long: 85°46'5.18"E; ETP2- ETP Outlet; Lat: 21°2'10.46"N and Long: 85°46'5.18"E;		

Sl. No.	Parameter	Testing Methods	Unit	Standard as per Schedule VI (3A) under EPR:1986	ETP1	ETP2
1	Colour	APHA 24 th ED 2120-B,C: 2023	Hazen	Colourless	40	<5.0
2	pH	APHA 24 th ED 4500- H+B:2023	--	5.5-9.0	8.56	7.36
3	Conductivity	APHA 24 th ED 2510-B:2023	µs/cm	--	366.8	253.2
4	Total Dissolved Solid	APHA 24 th ED 2540-C: 2023	mg/l	--	234	150
5	TSS	APHA 24 th ED 2540-D: 2023	mg/l	600	120	12
6	Hexavalent Chromium	APHA 24 th ED 3500-Cr-B: 2023	mg/l	0.05	<0.05	<0.05
7	Total Chromium as Cr	APHA 24 th ED 3500-Cr-B: 2023	mg/l	2.0	0.28	<0.05
8	Iron as Fe	APHA 24 th ED 3500-Fe-B: 2023	mg/l	3	0.68	0.3
9	Sulphate as SO ₄	APHA 24 th ED 4500-SO ₄ D: 2023	mg/l	--	12.6	6.8
10	Fluoride as F	APHA 24 th ED 4500-F-C: 2023	mg/l	15	0.2	<0.05
11	Phosphate (as PO ₄)	APHA 24 th ED 4500-P-D: 2023	mg/l	--	0.1	<0.03
12	Oil & Grease	APHA 24 th ED 5520 B:2023	mg/l	20	4.6	<2.0
13	Chemical Oxygen Demand	APHA 24 th ED 5220 B:2023	mg/l	--	90	18
14	Ammonical Nitrogen	APHA 24 th ED 4500-NH ₃ -B & C:2023	mg/l	50	4.2	0.7
15	Total Residual Chlorine	APHA 24 th ED 4500-Cl ₂ :2023	mg/l	1.0	0.32	ND
16	Manganese (as Mn)	IS 3025 PART-59 :2006 RA 2012	mg/l	2.0	0.3	<0.05

--1 of 4--



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Sl. No.	Parameter	Testing Methods	Unit	Standard as per Schedule VI (3A) under EPA:1986	ETP1	ETP2
17	Cyanide	APHA 24th ED 4500 CN-F:2023	mg/l	0.05	NR	<0.02
18	Temperature	APHA 24 th ED 2550-B: 2023	°C	--	26	25
19	Dissolved Oxygen	APHA 24 th ED 4500 O-C:2023	mg/l	6	4.5	6.2
20	Biochemical Oxygen Demand (3days at 27°C)	IS 3025 (PART 44) : 1993 REA-2009	mg/l	2	24	<2.0

REMARKS: NR- not relaxable;

Reviewed By

CHIEF ANALYST

GREENFORCE ASSOCIATES PRIVATE LIMITED

BHUBANESWAR, ODISHA

Chief Analyst

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Report No-GFAPL/24-25/OCM/108

Issued Date-04.02.2025

TEST REPORT

Client Name & Address	M/s Ferro Alloys Corporation Limited; Ostapal Chromite Mines, Kaliapani, Jajpur		
Nature of Sampling	ETP Water		
Sampling By	GFAPL's Representative		
Environmental Condition	Good	Sampling Method	As per APHA 24th ED 1060 B: 2023
Location of performance of Laboratory activities	Laboratory Permanent Facility	Deviation from the method (if any)	NO
Discipline	Chemical	Group	Environment & Pollution
Date of Sampling	13.01.2025	Date of Receiving	14.01.2025
Date of Analysis	14.01.2025	Date of Complete	18.01.2025
Sampling Location & Coordinates	ETP1- ETP Inlet: Lat: 21°2'10.46"N and Long: 85°46'5.18"E; ETP2- ETP Outlet; Lat: 21°2'10.46"N and Long: 85°46'5.18"E;		

Sl. No.	Parameter	Testing Methods	Unit	Standard as per Schedule VI (3A) under EPR:1986	ETP1	ETP2
1	Odour	APHA 24 th ED 2150-B: 2023	--	Odourless	Pungent Smell	Agreeable
2	Nitrate as NO ₃	APHA 24 th ED 4500-NO ₃ -B: 2023	mg/l	10	8.92	2.48
3	Total Kjeldahl Nitrogen	APHA 24 th ED 4500-Norg B, NH ₃ -B & C:2023	mg/l	100	7.7	1.4
4	Copper (as Cu)	IS: 3025(Part 42)	mg/l	3	<0.02	<0.02
5	Phenolic Compound (as C ₆ H ₅ OH)	APHA 24th ED 5530 B,D: 2023	mg/l	1	<0.001	<0.001
6	Cadmium (as Cd)	IS: 3025(Part 41)	mg/l	2.0	<0.001	<0.001
7	Zinc (as Zn)	APHA 24th ED 3500 Zn: 2023	mg/l	5	<0.02	<0.02
8	Lead (as Pb)	APHA 24th ED 3500 Pb: 2023	mg/l	0.1	<0.01	<0.01
9	Selenium (as Se)	APHA 24th ED 3500 B: 2023	mg/l	0.05	<0.001	<0.001
10	Mercury (as Hg)	APHA 24th ED 3500Hg: 2023	mg/l	0.01	<0.001	<0.001
11	Arsenic (as As)	APHA 24th ED 3500As: 2023	mg/l	0.2	<0.001	<0.001
12	Nickel (as Ni)	IS 5185 (Part-22)	mg/l	3	<0.02	<0.02
13	Vanadium (as V)	APHA 24th ED 3500V: 2023	mg/l	0.2	<0.02	<0.02
14	Sulphide (H ₂ S)	APHA 24th ED 4500 S ²⁻ D: 2023	mg/l	2	<0.02	<0.02
15	Free Ammonia (as NH ₃)	By Calculation	mg/l	5	8.8	0.42



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Sl. No.	Parameter	Testing Methods	Unit	Standard as per Schedule VI (3A) under EPA:1986	ETP1	ETP2
16	Bio Assay Test	IS 6582 (Part-2)2001, Ed-2.1 (2002-12)	%	90% fish survived after 96 hrs in 100% effluent	No fish survived after 96 hrs in 100% effluent	96% fish survived after 96 hrs in 100% effluent
17	Particulate Size of Suspended Solids	APHA 24th ED 2540 D 2023	μ	Shall pass 850 micron IS Sieve	<850	<850

Reviewed By

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FACOR

CHROME ORE MINING DIVISION

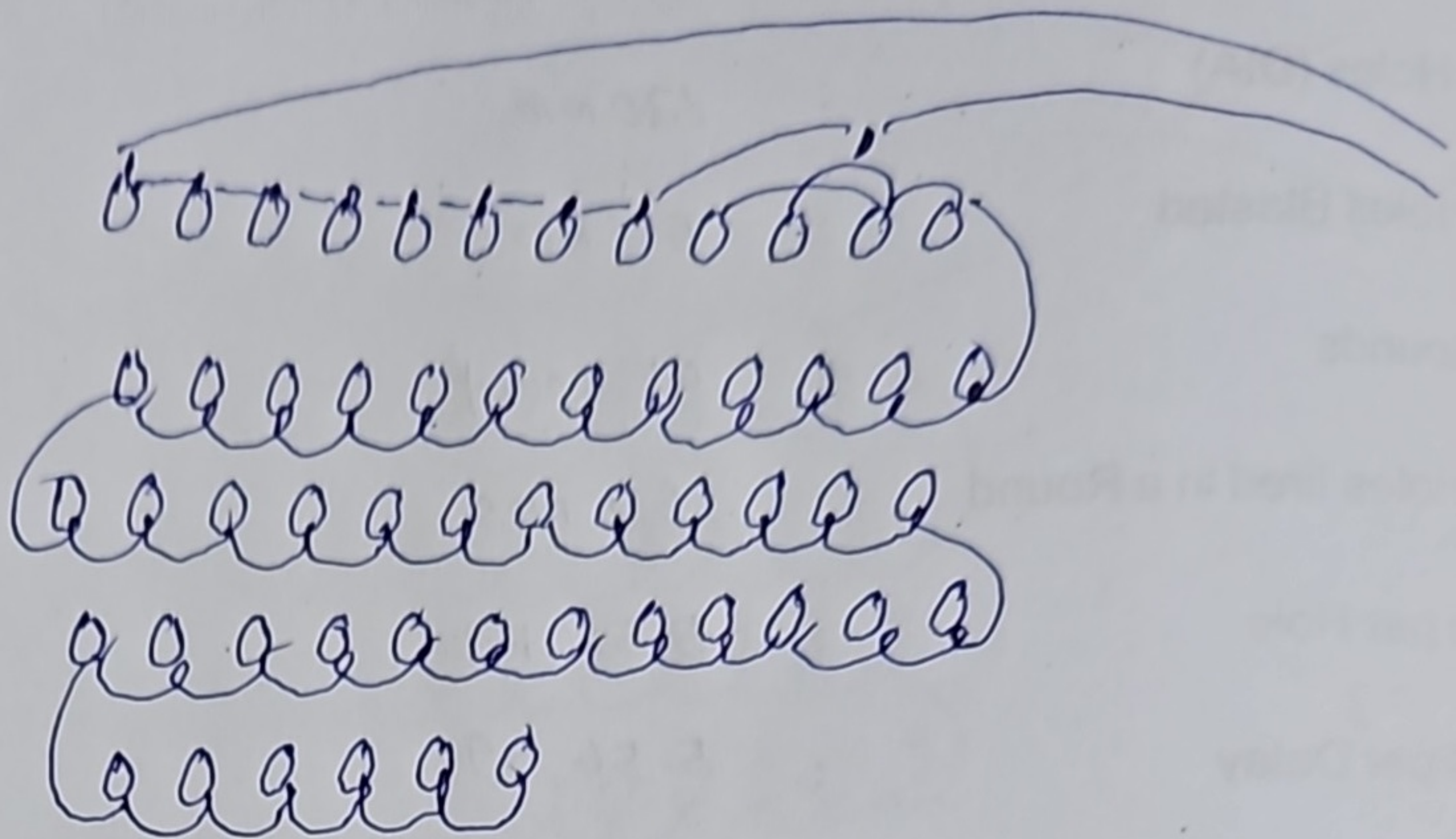
M/s. FERRO ALLOYS CORPORATION LTD.
 OSTAPAL CHROMITE MINES
BLASTING REPORT

DATE : 31-03-25

TIME : 2.00 PM

1. Place of Blasting : South side 1402L
2. Size of Holes (DIA) : 120 mm
3. No. of Holes Blasted : 54 Nos
4. No of Rounds : 01 Round
5. No. of Holes fired in a Round : 54 Nos
6. Charge per Hole : 5.56 kg
7. Charge per Delay : 5.56 kg
8. Charge per Round : 300 kg
9. Type of explosives used : Solar prime
10. Spacing : 2.5 mtr
11. Burden : 2.00 mtr
12. Depth : 3.00 mtr
13. Toe Burden : 2.5 mtr
14. Vibration : Normal
15. Throw : 3.00 mtr
16. Charge Ratio : $2.7 \text{ m}^3 / \text{kg}$
17. Blast Pattern : Staggered

18. Rough Sketch showing the Drilling & firing Pattern :-



Roberto
Blaster

[Signature]
Foreman

[Signature]
Asst. Mines Manager

[Signature]
Mines Manager

FACOR/ Bhadrak/ Legal /109 /2022

Dtd. 25.04.2022

To

Dr. K. Murugesan,
Member Secretary,
State Environment Impact Assessment Authority (SEIAA), Odisha,
Ministry of Environment, Forest and Climate Change, (MOEF&CC),
Government of India.

Ref : EC Identification No. EC22B001OR120821, dtd. 04/04/2022.

Sub : Requisition to delete Specific Condition no.18 and 19 from the Environment Clearance dtd. 04.04.2022 granted to Ostapal Chromite Mines of M/s. Ferro Alloys Corporation Limited in compliance to the various Court Orders.

Dear Sir,

At the outset, the management of. Ferro Alloys Corporation Ltd. ("FACOR") wish to thank the State Environment Impact Assessment Authority (SEIAA), Odisha for grant of Environment Clearance to our Ostapal Chromite Mines vide EC Identification No. EC22B001OR120821 dtd. 04/04/2022 for enhancement of production from 0.2 MTPA to 0.240 MTPA of Chromite Ore (ROM).

We also do hereby assure and undertake before your good office that we shall comply all the terms and conditions stipulated in the aforesaid Environment Clearance (EC) dtd. 04.04.2022 within due time.

On a perusal of the above-referred EC document, there are 2 conditions viz. Specific Conditions no.18 and 19, requiring us to comply with directions of the Hon'ble Supreme Court in WP 114/2014 as below:

Specific Condition No. 18:

"The Project proponent complies with all the statutory requirements and judgements of the Hon'ble Supreme Court dated 2nd August 2017 in Writ Petition (Civil) No. 114 of 2014 in matter of Common Cause versus Union of Indian & ors. Before commencing the mining operations, if applicable to the project."

Specific Condition No. 19:

"The State Government concerned shall ensure that mining operations shall not be commenced till the entire compensation levied, if any, for illegal mining paid by the Project Proponent through their respective Department of Mining & Geology in the strict compliance of judgement of the Hon'ble Supreme Court dated 2nd August, 2017 in Writ Petition (Civil) No 114 of 2014 in the matter of common Cause versus union of India & Ors. as may be applicable".

We humbly submit that the these two conditions, are not applicable to the present Project Proponent as the liabilities arising out of the said judgement has been extinguished consequent to the Corporate Insolvency Resolution Process ("CIRP") which FACOR underwent recently; the same has been later reiterated by the Hon'ble High Court of Odisha in W.P. (C) 20286 of 2020 (FACOR Vs. State of Odisha), as below:

Page 1 of 3

M/s. Ferro Alloys Corporation Ltd. (A subsidiary of Vedanta Ltd.)

Sensitivity: Internal (C3)

Registered Office:

D.P. Nagar, PO: Randia, Dist.: Bhadrak, Odisha, India - 756 135

T +91-6784 240320/240347, Email: facor.mines@vedanta.co.in / facor.ccp@vedanta.co.in

Website: www.facorgroup.in, CIN: U45201OR1955PLC008400.

1. That, pursuant to an application U/s-7 of the Insolvency and Bankruptcy Code (IBC) - 2016 filed by Rural Electrification Corporation Limited ("REC") FACOR, the Hon'ble National Company Law Tribunal, Kolkata Bench (NCLT, Kolkata), vide its order dated 6th July, 2017 initiated Corporate Insolvency Resolution Process ("CIRP") against FACOR and declared moratorium under Section-14 of the Insolvency and Bankruptcy Code, 2016 (IBC- 2016). Copy of the NCLT order dt.06-07-2017 is enclosed herewith as **Annexure-1**.
2. That subsequently, Hon'ble National Company Law Tribunal ("NCLT") Cuttack Bench, vide Para no.19 of its order dtd. 30.01.2020 has approved the Resolution Plan submitted by M/s. Sterlite Power Transmission Limited (a group of Vedanta Ltd.) under IBC-2016. Copy of the NCLT order dt.30.01.2020 is enclosed herewith as **Annexure-2**.
3. That, according to the provisions of IBC-2016, r/w the Approved Resolution Plan ("ARP") of FACOR, all statutory dues owed by the company to various Government Authorities prior to the Plan Effective Date i.e the date on which the Approved Resolution Plan was accepted and approved by Hon'ble NCLT Cuttack, has been extinguished.
4. That Hon'ble NCLT Cuttack bench vide Para -19 of the said order has also instructed that the Approved Resolution Plan of FACOR shall be binding on the Corporate Debtor and its employees, members all creditors including Central and State Government and local authorities, guarantors and other stake holders.
5. That subsequent to the judgment dt. 02.08.2017 passed by Hon'ble Supreme Court of India in W.P. no.114 of 2014 in the matter of Common Cause Vrs. Union of India and others, Deputy Director of Mines, Jajpur Road Circle has demanded Rs. **200,56,57,434/-** vide notice no.555 dtd. 10.04.2018, towards payment for compensation of u/s 21(5) of MMDR Act 1957 for excess mining in violation to the Environment Clearance granted by Ministry of Environment and Forest (MOEF). MOEF for the period from 2000-2001 upto 2010-2011.
6. That being aggrieved by the said demand notice we have filed Revision application before the Revisional Authority of Ministry of Mines, Govt. of India, New Delhi on dt.24.04.2018 vide R.A no. 22/(40) /2018/RC-I. After hearing, the Revisional Authority, Ministry of Mines had granted interim-stay vide its order dt.10.05.2018 to the impugned demand notice of DDM till further order.
7. That meanwhile relying upon the order dt.30.01.2020 passed by Hon'ble NCLT Cuttack, supported by various Supreme Court Judgments and the express provisions of IBC-2016, FACOR has raised the issue before the Hon'ble High Court of Orissa vide W.P. (C) No. 20286 of 2020 in the matter of Ferro Alloys Corporation Ltd Vs. State of Odisha regarding various statutory/ mining dues demanded by Government Authorities related to periods prior to the 'plan effective date'. We had also prayed before Hon'ble High Court to quash those demands pertaining to prior period of plan effective date.
8. That after hearing both the parties, Hon'ble High Court of Odisha vide its judgement dtd. 10.12.2021 in WP 20286 of 2020 (FACOR Vs. State of Odisha), has held that, "In terms of

Section 31 of the IBC, the ARP is binding on all creditors including Central Government and the State Government. Since all of the impugned demands raised against FACOR pertain to the period prior to the Plan Effective date i.e. 31st January 2020, all such demands stand automatically extinguished in terms of the ARP”.

9. That, consequently, vide para 33 of the said judgement, Hon’ble Court has decided that, “The demand raised against the Petitioner (FACOR) by the Opposite Parties on the strength of the decision of the Supreme Court in Common Cause are unsustainable in law and are hereby set aside”. Copy of the High Court order dt.10.12.2021 is enclosed herewith for your ready reference as Annexure-3.
10. That subsequently the matter with respect to demand notice issued against Ostapal chromite Mines U/s- 21 (5) of MMDR Act, 1957 for production in excess of EC in pursuance of the Common Cause Judgement was heard by the Revisional Authority Ministry of Mines, Govt. of India New Delhi in Revision application No.22/40/2018/RC-I.
11. That vide its order dated 23.12.2021 the Revisional Authority has expressly declared the said demand notice of DDM Jajpur as infructuous. Further it was held that, “In view of the above, it appears that the amounts mentioned in the demand notices are not included in the resolution plan and stand extinguished. Hence, the State Government cannot take any steps to recover the amounts.” . Copy of the said order dtd.23.12.2021 is enclosed herewith as Annexure-4 for your kind perusal and reference.

Thus, it is abundantly clear from the above-stated facts, provisions of law and orders of Hon’ble High Court of Odisha and Revisional Authority, Ministry of Mines that there is no further requirement for FACOR to comply with the directions of Hon’ble Supreme Court in WP 114/2014.

Hence, we would like to request your good office to kindly delete Specific Condition No. 18 & 19 from the Environment Clearance (EC) dtd.04.04.2022 granted by your good office, since these two conditions are not applicable to Ostapal Chromite Mines of M/s. Ferro Alloys Corporation Ltd.

Thanking You
Yours faithfully

For Ferro Alloys Corporation Ltd



Authorised Signatory

Copy : Ministry of Environment and Forest, New Delhi.

F. No. 8-86/1996-FC (Vol. II)
Government of India
Ministry of Environment & Forests
(F.C. Division)

Annexure 6



Paryavaran Bhawan,
C.G.O. Complex, Lodhi Road,
New Delhi-110003

Dated: 17th February 2006

The Secretary (Forests),
Government of Orissa,
Bhubaneswar.

Sub: Diversion of 64.354 ha of forest land for 1st renewal of mining lease for mining of Chromite Ore in Ostapal Chromite Mine in favour of M/s Ferro Alloys Corporation Limited (FACOR) in Jaipur District, Orissa.

Sir,

Kindly refer to your letter No. 10F(Cons) 67/2005/15539/F&E dated 02.09.2005 whereunder the above proposal was forwarded to this office seeking prior approval of the Central Government in accordance with the Section-2 of the Forest (Conservation) Act, 1980 and to say that the above proposal was examined by the Forest Advisory Committee (FAC) constituted under Section-3 of the Act.

2. After careful consideration of the proposal of the State Government and on the basis of the recommendation of the Forest Advisory Committee, the Central Government granted in-principle approval vide letter of even no. dated 03.10.2005 subject to certain conditions. The compliance of these conditions was submitted vide State Government's letter No. 10F(Cons)67/2005/1031/F&E dated 19.01.2006. After consideration of the proposal and compliance of various conditions by the State Government, the Central Government hereby conveys its approval under Section-2 of the Forest (Conservation) Act, 1980 for diversion of 64.354 ha of forest land for 1st renewal of mining lease for mining of Chromite Ore in Ostapal Chromite Mine in favour of M/s Ferro Alloys Corporation Limited (FACOR) in Jaipur District, Orissa, subject to the fulfilment of following conditions :-

- (i) Legal status of the forest land shall remain unchanged.
- (ii) The non-forest land identified for Compensatory Afforestation shall be declared as Protected Forest under Indian Forest Act, 1927, as directed while granting approval on 04.05.1998. Compliance report in this regard may be sent to this office within 3 months.
- (iii) The mining lease period under the Forest (Conservation) Act, 1980 shall be co-terminus with the current lease granted under MMRD Act, 1957.
- (iv) The State Government shall transfer amount of NPV and other funds to Compensatory Afforestation Fund Management and Planning Authority (CAMPA), which has already been constituted and notified by the Central Government on 23.04.2004. Till such time, the CAMPA intimates the Head of Accounts for deposition of funds, the funds will be maintained in the form of fixed deposits in the name of Nodal Officer or concerned Divisional Forest Officer of the State Government. The funds realized towards the NPV shall not be utilized by the State Government.
- (v) RCC pillars of 4 feet height shall be erected to demarcate the area by the user agency at the project cost and will be marked with forward and back bearings.
- (vi) The user agency shall raise, fence and maintain a safety zone around the mining area and will also raise and maintain the plantation over an area one and half times in extent

to that of the safety zone at the project cost. The condition of raising safety zone and raising plantation on forest land 1.5 times the area of safety zone as stipulated earlier should be complied with immediately and a compliance report should be sent to this office within 3 months.

- (vii) The concurrent reclamation plan shall be executed by the user agency from the very 1st year and an annual report shall be sent to the Nodal Officer and the RCT, Bhubaneswar. If it is found from the annual report that the concurrent reclamation plan is not being adhered to by the user agency, the mining activities shall remain suspended till such time, the annual programme is completed for that year.
- (viii) The top soil shall be protected at the project cost.
- (ix) The comprehensive Wildlife Management Plan of conservation of wildlife and their habitat for Sukinda mining belt shall be implemented at the project cost.
- (x) No labour camps shall be established on the forest land.
- (xi) All necessary measures should be taken by the user agency to protect the environment.
- (xii) Sufficient firewood shall be provided by the user agency to the labourers at the project cost after purchase from the State Forest Department/Forest Development Corporation.
- (xiii) The user agency shall ensure that there should be no damage to the available wildlife.
- (xiv) The forest land shall not be used for any purpose other than that specified in the proposal and the land use shall be as mentioned in the State Government's letter No. 10F(Cons)/67/2005/1037/F&E dated 19.01.2006.
- (xv) The State Government shall ensure that Compensatory Afforestation as stipulated for the State should be taken up and the targets are achieved. The amount to be deposited by the different user agencies should be realised from them immediately. A compliance report may be sent to this office in this regard.
- (xvi) The forest land thus diverted shall be non-transferable. Whenever and whatever extent of the forest land not required, shall be surrendered to the State Forest Department under intimation to this Ministry.

Yours faithfully,


(Pankaj Asthana)

Assistant Inspector General of Forests

Copy to :-

1. The Principal Chief Conservator of Forests, Government of Orissa, Bhubaneswar.
2. The Nodal Officer, Forest Department, Government of Orissa, Bhubaneswar.
3. The Chief Conservator of Forests (Central), Regional Office, Bhopal.
4. User Agency.
5. Guard File.
6. Monitoring Cell.
7. PS to IGF (FC)

(Pankaj Asthana)
Assistant Inspector General of Forests

Government of Orissa
Forest & Environment Department

Memo No. 10F(Cons)-67/05/ 3720 /F&E., Dated- 2-3-2006

Copy forwarded to the Pr. C.C.F., Orissa for information & necessary action.

[Signature]
Deputy Secretary to Government

Memo No. _____ /F&E., dated-

Copy forwarded to the Pr. C.C.F.(WL) & Chief Wildlife Warden, Orissa for information and necessary action.

[Signature]
Deputy Secretary to Government

Memo No. _____ /F&E., dated-

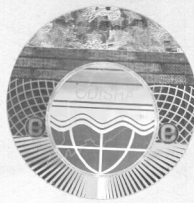
Copy forwarded to the Conservator of Forests, Angul/ Divisional Forest Officer, Cuttack for information and necessary action.

[Signature]
Deputy Secretary to Government.

Memo No. _____ /F&E., dated-

Copy forwarded to Steel & Mines Department for information & necessary action.

[Signature]
Deputy Secretary to Government.

**STATE POLLUTION CONTROL BOARD, ODISHA**

[DEPARTMENT OF FOREST, ENVIRONMENT & CLIMATE CHANGE, GOVERNMENT OF ODISHA]

Paribesh Bhawan, A/118, Nilakantha Nagar, Unit - VIII
Bhubaneswar - 751012No. 12553 /

IND-II-CTE-7111

Date: 09-08-2024 /Through online/
By speed post**CONSENT TO ESTABLISH ORDER**

In consideration of the online application no. **5128018** for obtaining Consent to Establish for **Ostapal Chromite Mines M/s FACOR Ltd.**, the State Pollution Control Board is pleased to convey its Consent to Establish under section 25 of Water (Prevention & Control of Pollution) Act, 1974 and section 21 of Air (Prevention & Control of Pollution) Act, 1981 for expansion of Chromite Ore production from 0.24 million TPA (opencast) to 1.5 million TPA (ROM) (opencast and underground) with maximum excavation of 2.5 million TPA (opencast & underground) along with installation of a new crusher of capacity 250 TPH with COB plant **1.5 MTPA throughput** to enhance production of the beneficiated Chrome Ore installation of and a backfill plant of capacity 1 million TPA within mining lease area of 72.843 Ha. At village Gurujanga, Tahasil :Sukinda in the district of **Jajpur** with the following conditions.

GENERAL CONDITIONS:

1. This Consent to Establish is valid for the product, method of mining and capacity mentioned in the application form. This order is valid for **five** years, which means the proponent shall commence mining activities for the proposal within a period of five years from the date of issue of this consent to establish order. If the proponent fails to commence mining activities for the proposal within five years, then a renewal of this consent to establish shall be sought by the proponent.
2. The mine shall comply to the provisions of Environment Protection Act, 1986 and the rules made thereunder with their amendments from time to time such as the Hazardous and Other Wastes (Management and Trans boundary Movement) Rules, 2016, Manufacture, Storage and Import of Hazardous Chemical Rules, 1989 etc. and amendments there under. The mine shall also comply to the provisions of Public Liability Insurance Act, 1991, if applicable
3. The mine shall apply for grant of Consent to Operate under section 25/26 of Water (Prevention & Control of Pollution) Act, 1974 & under section 21 of Air (Prevention & Control of Pollution) Act, 1981 at least 3 (three) months before the commencement of production and obtain Consent to Operate from this Board.

4. No change in mining technology and scope of work shall be made without prior approval of the Board.
5. This Consent to Establish is subject to statutory and other clearances from Govt. of Odisha and/or Govt. of India, as and when applicable.

SPECIAL CONDITIONS:

A. GENERAL CONDITIONS:

1. The proponent shall comply with the stipulations and carry out mining activity for the proposed expansion as per Environmental Clearance granted by **Ministry of Environment, Forest and Climate Change, Govt. of India, Issued by State Environment Impact Assessment Authority (SEIAA), ODISHA, vide File No.: 460631/10-MIN/02-2024, EC Identification No- EC 24B 0106OR560247N Dt. 18-07-24** for Expansion in Chromite ore production from 0.24 Million TPA (opencast) to 1.5 million TPA (Opencast and underground) with maximum excavation of 2.5 million TPA (Opencast and underground) along with installation of a new crusher and COB plant to enhance the beneficiated chrome ore from 0.1 MTPA (opencast) to 0.8 MTPA (Opencast and underground) and a Backfill plant in Ostapal Chromite Mine (72.843 ha) at Village Gurujanga Tehsil Sukinda District Jajpur, Odisha by M/s. Ferro Alloys Corporation Ltd.
2. The total production of chrome ore concentrate shall not exceed 0.8 MTPA.
3. The mines safety guidelines as prescribed by the DGMS for underground operations and opencast operations shall be strictly followed.
4. The proponent shall carry out a detailed hydro-geological study by an accredited institute of National repute to assess impact of underground mining on ground water resources and undertake adequate measures for augmentation of ground water resources by putting of adequate number of recharge pits beyond zone of influence as per outcome of hydro-geological study under intimation to the State Pollution Control Board and Water Resources Department, Govt. of Odisha and CGWA, Govt. of India.
5. The proponent shall abide by the Wildlife Management Plan or wildlife clearance wherever applicable.
6. The proponent shall obtain Forest Clearance for the non-diverted forest land which is involved in the leasehold area if any.
7. The transportation of Chromite ore shall be as per conditions stipulated under Environmental Clearance.
8. The mine shall implement the Pollution Control Measures and safeguards as proposed in the Environment Management Plan (EMP) of Environment Impact Assessment (EIA) report.
9. The project proponent shall obtain requisite permission from the CGWA for withdrawal/use of ground water for the project.



भारत सरकार
जल शक्ति मंत्रालय
जल संसाधन, नदी विकास
और गंगा संरक्षण विभाग
केन्द्रीय भूमि जल प्राधिकरण
Government of India
Ministry of Jal Shakti
Department of Water Resources,
River Development & Ganga Rejuvenation
Central Ground Water Authority

(भूजल निकासी हेतु अनापत्ति प्रमाण पत्र)

NO OBJECTION CERTIFICATE (NOC) FOR GROUND WATER ABSTRACTION

Project Name:		Ostapal Chromite Mines											
Project Address:		Gurujanga, Sukinda, Jajpur											
Village:		Gurujanga		Block:		Sukinda							
District:		Jajapur		State:		Odisha							
Pin Code:													
Communication Address:		Gurujang, Kaliapani, Jajapur, Odisha-755047, Sukinda, Jajpur, Sukinda, Jajapur, Odisha - 755028											
Address of CGWB Regional Office :		Central Ground Water Board South Eastern Region, Bhujal Bhawan, Khandagiri Square, Nh-5, Bhubaneshwar, Khordha, Odisha - 751030											
1. NOC No.:	CGWA/NOC/MIN/REN/3/2025/11544			2. Date of Issuance	30/04/2025								
3. Application No.:	21-4/1456/OR/MIN/2017			4. Category: (GWRE 2024)	Safe								
5. Project Status:	Existing With Additional Ground Water Requirment			6. NOC Type:	Renewal								
7. Valid from:	02/08/2024			8. Valid up to:	01/08/2026								
9. Ground Water Abstraction Permitted:													
Fresh Water		Saline Water		Dewatering		Total							
m ³ /day	m ³ /year	m ³ /day	m ³ /year	m ³ /day	m ³ /year	m ³ /day	m ³ /year						
100.00	36500.00			3953.00	1442845.00	4053.00	1479345.00						
10. Details of ground water abstraction /Dewatering structures													
Total Existing No							Total Proposed No						
	DW	DCB	BW	TW	MP	MPu	DW	DCB	BW	TW	MP	MPu	
Abstraction Structure*	0	0	2	0	0	0	0	0	0	0	0	0	
Dewatering Structure*	0	0	0	0	0	1	0	0	0	0	0	0	
*DW- Dug Well; DCB-Dug-cum-Bore Well; BW-Bore Well; TW-Tube Well; MP-Mine Pit;MPu-Mine Pumps													
11. Ground Water Abstraction/Restoration Charges paid (Rs.):							7351675.00						
12. Environment Compensation (if applicable) paid (Rs.):							0.00						
13. Number of Piezometers(Observation wells) to be constructed/ monitored & Monitoring mechanism.							No. of Piezometers		Monitoring Mechanism				
									Manual	DWLR**	DWLR With Telemetry		
**DWLR - Digital Water Level Recorder							2		0	1	1		

18/11, जामनगर हाउस, मानसिंह रोड, नई दिल्ली - 110011 / 18/11, Jamnagar House, Mansingh Road, New Delhi-110011

Phone: (011) 23383561 Fax: 23382051, 23386743

Website: cgwa-noc.gov.in

पानी बचाये - जीवन बचाये
SAVE WATER - SAVE LIFE



OCM/ENV/ 622 /2024

Dated: 26.07.2024

To
The Sarapanch,
Kaliapani Grama Panchayata
Sukinda, Jajpur

Sub.: Submission of granted Environment Clearance (EC) in respect of Ostapal Chromite Mines of M/s Ferro Alloys Corporation Limited (M/s FACOR LTD) Regarding

Ref.: Condition No. -11 of EC Identification No.: EC24B0106OR5602647N dated 18.7.2024

Dear Sir,

With reference to the above-mentioned subject & referred Environment Clearance (EC) , we would like to intimate that Environment Clearance is granted by State Environment Impact Assessment Authority (SEIAA), Odisha, on dated 18.7.2024.

We are herewith submitting one Copy of EC for your kind information, please.

Thanking You

Yours faithfully,
for Ferro Alloys Corporation LTD


MINE MANAGER

Enclose: A/a


**Sarapanch
Kaliapani G.P**

Date: 22.10.2024

To
The Deputy Inspector General of Forest (Central)
Government of India,
Ministry of Environment Forest & Climate Changes
Regional Office, A/3, Chandrasekharapur
Bhubaneswar -751023

Ref: Environmental Clearance (EC) Identification no EC24B0106OR5602647N in respect of
Ostapal Chromite Mines of M/s Ferro Alloys Corporation Limited (FACOR).

UNDERTAKING

Dear Sir,

I Muthumari M, S/o Malaichami aged about 39 years R/o Ferro Alloys Corporation Limited, DP Nagar,
P.O- Randia, P.S, Dist.- Bhadrak of Odisha by occupation -Service do hereby undertaking as under:

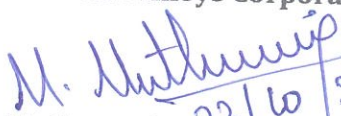
1. That I am the Agent of Ostapal Chromite Mines, M/s. Ferro Alloys Corporation Limited (FACOR) under the provisions of the Mines Act 1952 and amended thereof which is situated at- At- Gurujang, Po- Kaliapani, Tahasil- Sukinda, Dist.- Jajpur of Odisha.
2. That by virtue of the power and right conferred upon me by the management of the company and under the capacity of Agent of Ostapal Chromite Mines, I am eligible to submit in this undertaking.
3. That the State Environment Impact Assessment Authority (SEIAA), Odisha MoEF & CC vide EC Identification no EC24B0106OR5602647N has granted Environmental Clearance in favour of Ostapal Chromite Mines of M/s Ferro Alloys Corporation Limited for Expansion in Chromite ore production from 0.24 Million TPA (opencast) to 1.5 million TPA (Opencast and underground) along with installation of a new crusher and COB plant to enhance the beneficiated chrome ore from 0.1 MTPA (opencast) to 0.8 MTPA. Now after approval of Consent to Establish (CTE) vide order dated 09.08.2024 by SPCB, Odisha we have initiated the development work of Underground mining for this expansion project and it will take minimum two years' time to start the production of Chrome Ore from the said expansion underground mining project.
4. That, in compliance to Special Condition no.15 of the said Environmental Clearance (EC), we have already installed one Ambient Air Quality Monitoring Stations (AAQMS) inside the Ostapal Chromite Mines as per approved location /guidance of OSPCB, Odisha and the monitoring parameter i.e PM 10, PM2.5, NO2, CO and SO2 are displaying in front of the main Gate of the mine site on Realtime basis. In addition to the above, we are also submitting third party monitoring report (NABL Accredited Agency i.e Green Force Associate) to OSPCB on monthly basis and Regional Office, MoEF & CC on Six monthly basis.
5. Further, I do hereby undertake and assure before your good office that we will install the balance two nos. AAQMS without fail in compliance to Special Condition no.15 before of starting of Ore production from Underground mining.

Your kind cooperation in this regard will be highly appreciated and obliged.

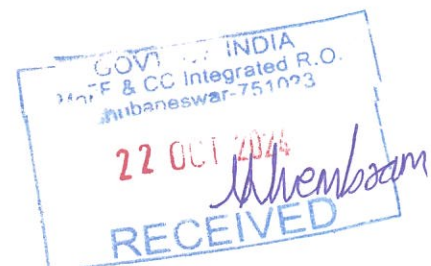
Thanking You

Yours Faithfully

For Ferro Alloys Corporation Ltd.


Muthumari M 22/10/2024

Mine Agent of Ostapal Chromite Mines



From: [Susanta Biswal](#)
To: roez.bsr-mef@nic.in; membersecretary@ospcboard.org
Cc: [Kutisunder Mohapatra](#)
Subject: Submission of Environment Monitoring Report for the Winter Season in respect of Ostapal Chromite Mine of M/s FACOR Ltd
Date: Thursday, May 29, 2025 12:45:10 AM
Attachments: [Submission of Envmt. Monitoring Report for Winter Season - Ostapal Chromite Mine - FACOR Ltd.pdf](#)

Ref.: EC Identification No.: EC24B0106OR5602647N, Dated: 18.07.2024

Respected Sir,

Respected Sir,

With reference to the above-mentioned subject & referred Environmental Clearance, we are herewith submitting the Environment Monitoring Reports as follows which are being carried out by NABL Laboratory for your kind perusal.

Sl. No.	Monitoring Item /Description
1	AAQ Monitoring Report
2	Ground water Level Monitoring Report
3	Ground water Quality Analysis Report
4	Drinking water Analysis Report
5	Effluent Water Analysis Report (ETP Inlet & Outlet)
6	Surface Water Analysis Report (Damasala Nalla 100 mtr. (up) & 100 mtr. (down)
7	Surface water flow
8	STP Water Analysis Report
9	Fugitive Emission Monitoring Report
10	Noise Monitoring Report
11	Stack Monitoring Report
12	Soil Monitoring Report

Thanking You.

Regards

Susanta Biswal
 Head- Environment
 Mine- Division
 M/s FACOR LTD



GREEN FORCE ASSOCIATES PRIVATE LIMITED



Plot No.-1666, Phase-II, Delta Colony, Nilakantheswar Marg,
Baramunda, Bhubaneswar, Dist - Khurdha



Mail Id: greenforceassociates@gmail.com



Report No-GFAPL/24-25/OCM/100

Issued Date-04.02.2025

TEST REPORT

Client Name & Address	M/s Ferro Alloys Corporation Limited; Ostapal Chromite Mines, Kaliapani, Jajpur		
Nature of Sampling	Surface Water Flow Rate		
Sampling By	GFAPL's Representative		
Environmental Condition	Good	Sampling Method	As per CPCB Guidelines
Location of performance of Laboratory activities	Laboratory Permanent Facility	Deviation from the method (if any)	NO
Discipline	Chemical	Group	Water
Date of Sampling	13.01.2025		

Sl. No.	Sampling Location	Result (in m/sec)
1	Damsala Nala	14.85

Reviewed By

CHIEF ANALYST

GREENFORCE ASSOCIATES PRIVATE LIMITED
Bhubaneswar, Odisha
Miss. Arti Sahoo

Authorized Signatory

TECHNICAL MANAGER

GREENFORCE ASSOCIATES PRIVATE LIMITED
Bhubaneswar, Odisha
Technical Manager
Mr. S.K. Parhi

Note:

- The results listed refer only to tested samples and applicable parameters. Endorsement of products is neither inferred nor implied.
- Total liability of our lab is limited to the invoiced amount.
- Samples will be destroyed after 30 days from the date of test report unless otherwise specified.
- This report is not to be reproduced wholly or in part and cannot be used as evidence in the court of law and should not be used in any advertising media without our special permission in writing.
- Report refers to the sample submitted to us and not drawn by unless mentioned otherwise.

END OF REPORT

From: [Susanta Biswal](#)
To: [Artatrana Mishra](#); membersecretary@ospcboard.org
Bcc: [Krutisunder Mohapatra](#)
Subject: Submission of Compliance reports as per EC Conditions in respect of Ostapal Chromite Mine, M/s Ferro Alloys Corporation Limited- Regarding
Date: Wednesday, May 28, 2025 5:39:57 PM
Attachments: [GW Recharge quantity-Ostapal Chromite Mine FACOR Ltd.pdf](#)
[Water Consumption Reduction Plan_Ostapal Chromite Mine of FACOR Ltd.pdf](#)

Reference.: EC Identification No:EC24B0106OR5602647N, dated 18.07.2024, Condition No.-22 & 24

Respected Sir,

With reference to the captioned subject & cited reference, we would like to submit the report as attachment in respect of Ostapal Chromite Mine of M/s FACOR LTD as follows:

- I. Compliance on Condition No.-22 : Quantity of Ground water recharge
- II. Compliance on Condition No. -24 : Measures for reduction of water consumption

This is for your Kind perusal.

Regards
Susanta Biswal
Head Environment
Mine division
M/s FACOR Ltd

From: [Susanta Biswal](#)
To: [Artatrana Mishra](#); membersecretary@ospcboard.org
Bcc: [Krutisunder Mohapatra](#)
Subject: Submission of Compliance reports as per EC Conditions in respect of Ostapal Chromite Mine, M/s Ferro Alloys Corporation Limited- Regarding
Date: Wednesday, May 28, 2025 5:39:57 PM
Attachments: [GW Recharge quantity-Ostapal Chromite Mine FACOR Ltd.pdf](#)
[Water Consumption Reduction Plan_Ostapal Chromite Mine of FACOR Ltd.pdf](#)

Reference.: EC Identification No:EC24B0106OR5602647N, dated 18.07.2024, Condition No.-22 & 24

Respected Sir,

With reference to the captioned subject & cited reference, we would like to submit the report as attachment in respect of Ostapal Chromite Mine of M/s FACOR LTD as follows:

- I. Compliance on Condition No.-22 : Quantity of Ground water recharge
- II. Compliance on Condition No. -24 : Measures for reduction of water consumption

This is for your Kind perusal.

Regards
Susanta Biswal
Head Environment
Mine division
M/s FACOR Ltd



GREEN FORCE ASSOCIATES PRIVATE LIMITED



Plot No.-1666, Phase-II, Delta Colony, Nilakantheswar Marg,
Baramunda, Bhubaneswar, Dist - Khurdha



Mail Id: greenforceassociates@gmail.com



TC-12258

Report No- GFAPL/24-25/OCM/096

Issued Date-04.02.2025

TEST REPORT

Client Name & Address	M/s Ferro Alloys Corporation Limited: Ostapal Chromite Mines, Kaliapani, Jaipur		
Nature of Sampling	Workzone Noise Monitoring		
Sampling By	GFAPL's Representative		
Location of performance of Laboratory activities	Site Facility	Deviation from the method (if any)	NO
Discipline	Chemical	Group	Atmospheric Pollution
Environmental Condition	Good	Time Integration	1 second
Time Weighing	Fast	Frequency Weighing	A- Weighing
Sampling Duration	24 hrs	Area categorization	Industrial Area
Date of Sampling	15.01.2025	Date of Completion	16.01.2025
Instrument Used	Noise Meter	Sampling Method	As per IS: 9989

S. No.	Locations	Latitude	Longitude	Day Time	Night Time
				Results in dB(A)	
1	AN1- Kaliapani Village	21°3'15.68"N	85°46'53.38"E	51.4	40.6
2	AN2- Ostia Village	21°3'23.00"N	85°46'25.32"E	49.4	40.1
3	AN3- Ostapal Village	21°3'53.63"N	85°48'3.15"E	49.8	40.1
4	AN4- Kaposi Village	21°3'53.78"N	85°48'3.20"E	50.2	40.2
5	AN5- Near Temple	21°3'27.91"N	85°47'9.51"E	50.3	40.1
6	AN6- Gurujang Village	21°3'36.26"N	85°46'52.32"E	51.5	40.5
7	AN7- Tala TSML	21°3'27.45"N	85°47'9.42"E	53.6	41.5
8	AN8- Talangi Village	21°4'8.60"N	85°49'27.34"E	50.1	40.5
9	AN9- Sukurangi Village	21°2'33.69"N	85°48'7.14"E	50.3	40.6
10	AN10- Kaliapani Colony	21°2'57.40"N	85°46'32.33"E	50.1	40.1
Noise permissible limits as per CPCB Norms in dB(A) Leq					
Category of Area		Day Time		Night Time	
Industrial Area		75		70	
Commercial Area		65		55	
Residential Area		55		45	
Sensitive Area/ Silence Zone		50		40	

Reviewed By

CHIEF ANALYST

GREENFORCE ASSOCIATES PRIVATE LIMITED

Bhubaneswar, Odisha

Miss. Arti Sahoo

Authorized Signatory

TECHNICAL MANAGER

GREENFORCE ASSOCIATES PRIVATE LIMITED

Bhubaneswar, Odisha

Mr. S.K. Parhi

Note:

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- Report refers to the sample submitted to us and not drawn by unless mentioned otherwise.

END OF REPORT



GREEN FORCE ASSOCIATES PRIVATE LIMITED



Plot No.-1666, Phase-II, Delta Colony, Nilakantheswar Marg,
Baramunda, Bhubaneswar, Dist - Khurda



Mail Id: greenforceassociates@gmail.com



Report No- GFAPL/24-25/OCM/097

Issued Date-04.02.2025

TEST REPORT

Client Name & Address	M/s Ferro Alloys Corporation Limited; Ostapal Chromite Mines, Kaliapani, Jajpur		
Nature of Sampling	Workzone Noise Monitoring		
Sampling By	GFAPL's Representative		
Location of performance of Laboratory activities	Site Facility	Deviation from the method (if any)	NO
Discipline	Chemical	Group	Atmospheric Pollution
Environmental Condition	Good	Time Integration	1 second
Time Weighing	Fast	Frequency Weighing	A- Weighing
Sampling Duration	24 hrs	Area categorization	Industrial Area
Date of Sampling	09.01.2025	Date of Completion	10.01.2025
Instrument Used	Noise Meter	Sampling Method	As per IS: 9989

S. No.	Locations	Latitude	Longitude	Day Time	Night Time
				Results in dB(A)	
1	WN1- Near Admin Office	21°3'15.68"N	85°46'9.75"E	56.1	47.1
2	WN2- Near OMPL Mech. Garage	21°3'25.81"N	85°46'8.03"E	60.2	51.2
3	WN3- Near Mine View Point	21°3'35.42"N	85°46'24.54"E	64.5	55.3
4	WN4- Near ETP	21°3'32.19"N	85°46'23.20"E	62.1	51.5
5	WN5- Near Rest Shelter	21°3'29.23"N	85°46'18.74"E	56.2	41.5
6	WN6- Loading Point	21°3'34.45"N	85°46'24.23"E	68.1	57.5
7	WN7- Near COBP	21°3'45.82"N	85°46'31.21"E	63.5	53.1
8	WN8- Haul Road	21°3'33.54"N	85°46'22.32"E	58.8	51.1
9	WN9- COP Hopper	21°3'25.17"N	85°46'8.43"E	67.4	58.6
10	WN10- COB Hammer Mill	21°3'35.30"N	85°46'24.48"E	64.8	52.4
11	WN11- Washing Plant	21°3'32.17"N	85°46'23.15"E	63.6	50.2
12	WN12- UG Project Site	21°3'29.20"N	85°46'18.66"E	58.4	48.3

Noise permissible limits as per CPCB Norms in dB(A) Leq

Category of Area	Day Time	Night Time
Industrial Area	75	70
Commercial Area	65	55
Residential Area	55	45
Sensitive Area/ Silence Zone	50	40

Reviewed By

GREENFORCE ASSOCIATES PRIVATE LIMITED
Bhubaneswar, Odisha

Miss. Arti Sahoo

Authorized Signatory

TECHNICAL MANAGER
GREENFORCE ASSOCIATES PRIVATE LIMITED
Bhubaneswar, Odisha
Mr. S.R. Parhi

Note:

- The results listed refer only to tested samples and applicable parameters Endorsement of products is neither inferred nor implied.
- Total liability of our lab is limited to the invoiced amount.
- Samples will be destroyed after 30 days from the date of test report unless otherwise specified.
- This report is not to be reproduced wholly or in part and cannot be used as evidence in the court of law and should not be used in any advertising media without our special permission in writing.
- Report refers to the sample submitted to us and not drawn by unless mentioned otherwise.

END OF REPORT

--1--

Plot No- 1363-3892, Baibhab Realcon, Fulnakhara,
Cuttack, Odisha, India 754001

From: [Susanta Biswal](#)
To: [Artatrana Mishra](#)
Bcc: [Muthumari M](#); [Krutisunder Mohapatra](#); [Somnath Pal](#)
Subject: Submission of Slope Stability study report conducted by CIMFR, Dhanbad in respect of Ostapal Chromite Mine, M/s Ferro Alloys Corporation Limited- Regarding
Date: Sunday, May 18, 2025 4:02:46 AM
Attachments: [Submission of Slope stability report _ Ostapal Chromite Mines _ FACOR Ktd.pdf](#)

Reference.: EC Identification No:EC24B0106OR5602647N, dated 18.07.2024, Condition No.-35

Respected Sir,

With reference to the captioned subject & cited reference, we would like to submit the Slope Stability study report, which was conducted by CIMFER, Dhanbad in respect of Ostapal Chromite Mine of M/s FACOR LTD.

This is for your Kind perusal.

Regards
Susanta Biswal
Head Environment
Mine division
M/s FACOR Ltd

From: [Susanta Biswal](#)
To: [seiaaodisha](#)
Bcc: [Muthumari M](#); [Krutisunder Mohapatra](#); [Somnath Pal](#)
Subject: Submission of Slope Stability study report conducted by CIMFR, Dhanbad in respect of Ostapal Chromite Mine, M/s Ferro Alloys Corporation Limited- Regarding
Date: Sunday, May 18, 2025 4:27:32 AM
Attachments: [Submission of Slope Stability Report of Ostapal Chromite Mine of FACOR Ltd.pdf](#)

Reference : EC Identification No:EC24B0106OR5602647N, dated 18.07.2024, Condition No.-40

Respected Sir,

With reference to the captioned subject & cited reference, we would like to submit the Slope Stability study report, which was conducted by CIMFER, Dhanbad in respect of Ostapal Chromite Mine of M/s FACOR LTD.

This is for your Kind perusal.

Thanking You.

Regards
Susanta Biswal
Head Environment
Mine division
M/s FACOR Ltd

From: [Susanta Biswal](#)
To: [Artatrana Mishra](#); [seiaaodisha](#); [SEAC Odisha](#)
Bcc: [Muthumari M](#); [Krutisunder Mohapatra](#)
Subject: Submission of Compliance reports on the Condition No. 44 and 60 of the EC in respect of Ostapal Chromite Mine of M/s FACOR Ltd, Jajpur
Date: Saturday, May 10, 2025 11:30:29 AM

Ref. No.: EC Identification No.: EC24B0106OR5602647N, Dated: 18.07.2024, Condition No.-44 and 60

Respected Sir,

With reference to the above-mentioned subject and cited condition nos., we are herewith submitting the compliance reports as follows in respect of Ostapal Chromite Min of M/s FACOR LTD, Jajpur, ODISHA.

- I. Submission of Affidavit on Haulage Road developed and maintained perennially and perpetually (For Condition No.-44)
- II. Date of financial closures and final approval of the project and the date of start of land development work (For Condition No.-60)

This is for your Kind perusal.

Thanking You.

Regards
Susanta Biswal
Head- Environment
Mines Division
M/s FACOR LTD

Annexure 19

OCM/ENV/579/2024

Dated: 11.07.2024

To
The Range Officer,
Govt. of Odisha Forest, Environment &
Climate Change Department
Sukinda, Jajpur

Sub.: Native species /forestry Plants to be planted in the Mine Lease of Ostapal Chromite Mine of M/s FACOR LTD- Regarding

Ref.: Specific Condition No.-8 of EC Identification No.: EC22B001OR120821, Dated: 04.04.2022

Dear Sir,

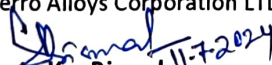
We would like to inform you that as likewise every year, we are planting various native sapling/forestry Plants inside our Ostapal Chromite Mine of M/s FACOR LTD for the Year 2024-25 as follows:

1. Arjuna
2. Nimba
3. Kathabadam
4. Sirisha
5. Dhauranga
6. Shishu
7. Piasala
8. Fasi
9. Patuli
10. Baunsha
11. Mahula
12. Karanja
13. Jamun
14. Tentuli

In this Context, we need your kind suggestion to add more native species for plantation purpose at above mentioned location, if anymore there available in your good-Nursery, please.

Thanking You

Yours faithfully,
for Ferro Alloys Corporation LTD


Susanta Ku. Biswal
Head- Environment
Mine- Division
M/s FACOR Ltd

CC: The Forester, Ransol Section, Under Sukinda Range.



Forester
Ransol section

M/s. Ferro Alloys Corporation Ltd. (A subsidiary of Vedanta Ltd.)

Registered Office:

D.P.Nagar, PO : Randia, Dist.: Bhadrak, Odisha, India -756 135
T +91-6784 240320/240347, Email: facor.mines@vedanta.co.in / facor.ccp@vedanta.co.in
Website: www.facorgroup.in, CIN: U45201OR1955PLC008400.



**OFFICE OF THE PRINCIPAL CHIEF CONSERVATOR OF FORESTS (WILDLIFE)
& CHIEF WILDLIFE WARDEN, ODISHA**

Government of Odisha, Forest, Environment & Climate Change Department

PRAKRUTI BHAWAN, PLOT NO.1459, SAHEED NAGAR, BHUBANESWAR- 751007

Phone: 0674-2602250, Website: www.wildlife.odisha.gov.in, Email: odishawildlife@gmail.com

No. 10183 / CWLW-FDWC-FD-0033-2022
Bhubaneswar, Dated the 11 November, 2022

To

The Director (Mines)
M/s FACOR Ltd.
Laxmi Bhawan, Kuans, Bhadrak – 756100

Sub: Mining of Chromite ore in Ostapal Chromite Mines of M/s Ferro Alloys Corporation Limited in Jajpur District - Approval of Site Specific Wildlife Conservation Plan

Sir,

It is to intimate that you have to implement mitigation measures as per the Site Specific Wildlife Conservation Plan approved in compliance to Standard ToR No.(xviii) for Mining Project prescribed by SEIAA, Odisha in their letter No.3883/SEIAA dt 28.01.2022.

2. I am directed to convey the approval of PCCF (WL) & CWLW, Odisha for the Site Specific Wildlife Conservation Plan in respect of the above project at financial outlay of ₹522.284 lakh (Rupees five crore twenty-two lakh twenty-eight thousand four hundred) only as detailed below -

Sl. No.	Name of the Division	Cost of approved activities
i.	In project impact area in Cuttack Division	₹227.642 lakh
ii.	In project impact area in Dhenkanal Division	₹128.003 lakh
iii.	In project impact area in Keonjhar WL Division	₹166.639 lakh
Total cost:		₹522.284 lakh

3. Activities in the project area will be executed by the project proponent under the guidance of DFO, Cuttack Division. A sum of ₹522.284 lakh only shall be deposited in State CAMPA fund only through e-portal (<https://parivesh.nic.in/>) for implementation of various activities within the project impact area by the Forest Department through concerned DFOs.

4. The following conditions may be noted for future compliance.

- If there would be need for Site Specific Wildlife Conservation Plan after expiry of the present plan period, the User agency will have to submit another such plan at least one year before the expiry of the existing Conservation Plan and deposit the amount upon its approval. In case of delay, it will be dealt as per law for violations of Forest (Conservation) Act, 1980 and Environment (Protection) Act, 1986.
- The User agency has to give an undertaking to bear the differential cost in case of enhancement of wage rate during implementation of this plan.

Encl: Copy of approved Plan

Yours faithfully

Conservator of Forests (Wildlife)

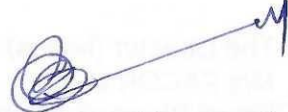
P.T.O.



Memo No. 10184 /dt 11/11/2022

Copy forwarded for information and necessary action to -

1. OSD-cum-Special Secretary to Government of Odisha, FE&CC Department
2. PCCF (FD & NO, FC Act), O/o the PCCF & HoFF, Odisha
3. Regional Chief Conservator of Forests, Angul Circle with reference to Memo No.6765 dt 13.10.2022 of DFO, Cuttack Division
4. Regional Chief Conservator of Forests, Baripada Circle with reference to this office Memo No.8391 dt 19.09.2022
5. Divisional Forest Officer(s), Cuttack/ Dhenkanal/ Keonjhar WL Division alongwith copies of approved SSWLCP



Conservator of Forests (Wildlife)

Annexure 21

OCM/ENV/ 368 /2025

Date:-13.05.2025

To
The Director Mines Safety,
Directorate General Mine Safety,
Bhubaneswar Region,
Bhubaneswar, ODISHA

Sub: Status Report on Occupational Health Check-up in respect of Ostapal Chromite Mine of M/s Ferro Alloys Corporation Limited.

Ref: Environment Clearance (Identification no EC24B0106OR5602647N) Condition no. - 50

Respected Sir,

Referring to the above cited subject, we would like to submit the occupational Health Status Report of Workmen of Ostapal Chromite Mine of M/s Ferro Alloys Corporation Limited.

This is for your kind perusal.

Thanking You

Yours Faithfully
For M/s Ferro Alloys Corporation Limited



MINE MANAGER
OSTAPAL CHROMITE MINE

Enclosure: As above

CC: The Joint Director, MOEF&CC, Eastern Region, Bhubaneswar

MEDICAL EXAMINATION RECORDS																		
DOC No:FACOR-IMS-OHCP-MEDICAL-01																		
Issue No:01		Issue Date:01.01.2023		Revision Date:			Revision No:00											
Sr.No.	C.NO	NAME OF EMPLOYEE	SEX/AGE	COMPANY	NAME OF DISEASES			1ST VISIT	FINDINGS	B.P	2ND VISIT	FINDINGS	3rd Visit	FINDINGS	BP	4th visit	FINDINGS	
					DIABETIS MELLITU S-TYPE-II	HYPERTENSION	DYSLIPID EMIA	Date	FBS/PPBS/LIPID		Date	S/PPBS/LIP	B.P.	Date	FBS/PPBS/LIPID		Date	FBS/PPBS/LIPID
97		ILLIYAS MIYAN		NVC	DM-11	HTN		04-07-2023	fbs-152mg/dl,ppbs-216mg/dl	154/96	04-12-2023	fbs-152mg	154/96	04-05-2024	fbs-152mg/dl,ppbs-216mg/dl	154/96	04-10-2024	fbs-152mg/dl,ppbs-216mg/dl
98	ARN	RAJENDRA YADAV	M-49	CDE-ASIA		HTN		05-07-2023	fbs-94mg/dl	150/94	05-12-2023	fbs-94mg/	150/94	05-05-2024	fbs-94mg/dl	150/94	05-10-2024	fbs-94mg/dl
99		KAUSHAL KU SINGH	M-35	CDE-ASIA		HTN		05-07-2023	fbs-100mg/dl	146/102	05-12-2023	fbs-100mg	146/102	05-05-2024	fbs-100mg/dl	146/102	05-10-2024	fbs-100mg/dl
101	3244	Avinna Kumar Sahoo		FACOR				12-02-2024	135 R	140/90	14-07-2024	135 R	140/90	13-12-2024	135 R	140/90	15-05-2025	135 R
102	3159	Babindra Nath Sahoo		FACOR				03-02-2024	90 RBS	130/80	05-07-2024	90 RBS	130/80	04-12-2024	90 RBS	130/80	06-05-2025	90 RBS
103	3173	Bhanja Kishore Parida		FACOR	DM-11			07-02-2024	237 R	130/80	09-07-2024	237 R	130/80	08-12-2024	237 R	130/80	10-05-2025	237 R
104	227	Bikram Mahanta		FACOR				15-02-2024	110 R	144/94	17-07-2024	110 R	144/94	16-12-2024	110 R	144/94	18-05-2025	110 R
105	3138	Biswanath Jena		FACOR	DM-11	HTN		10-02-2024	270 R	140/90	12-07-2024	270 R	140/90	11-12-2024	270 R	140/90	13-05-2025	270 R
106	263	Fakira Charan Mahanta		FACOR				09-02-2024	70 RBS	110/80	11-07-2024	70 RBS	110/80	10-12-2024	70 RBS	110/80	12-05-2025	70 RBS
107	3353	Gangadhar Jena		FACOR				10-02-2024	81 R	130/80	12-07-2024	81 R	130/80	11-12-2024	81 R	130/80	13-05-2025	81 R
108	190	Gouranga Mahanta		FACOR				03-02-2024	156 RBS	130/85	05-07-2024	156 RBS	130/85	04-12-2024	156 RBS	130/85	06-05-2025	156 RBS
109	226	Imandi Rama Rao		FACOR				09-02-2024	120 R	130/80	11-07-2024	120 R	130/80	10-12-2024	120 R	130/80	12-05-2025	120 R
110	3097	Mani Bhusan Sharma		FACOR				10-02-2024	140 R	140/90	12-07-2024	140 R	140/90	11-12-2024	140 R	140/90	13-05-2025	140 R
111	3204	Manoranjan Mishra		FACOR	DM-11			02-03-2024	144 F/237R	120/80	02-08-2024	144 F/237	120/80	01-01-2025	144 F/237R	120/80	03-06-2025	144 F/237R
112	3263	Purna Chandra Mallick		FACOR		HTN		09-02-2024	138 R	150/100	11-07-2024	138 R	150/100	10-12-2024	138 R	150/100	12-05-2025	138 R
113	240	Rajendra Mahanta		FACOR				03-02-2024	137 R	130/90	05-07-2024	137 R	130/90	04-12-2024	137 R	130/90	06-05-2025	137 R
115	166	Santosh Jadia		FACOR	DM-11	HTN		07-02-2024	110 R	170/110	09-07-2024	110 R	170/110	08-12-2024	110 R	170/110	10-05-2025	110 R
116	3030	Smt- Damayanti Sahoo		FACOR				13-02-2024	110 R	100/80	15-07-2024	110 R	100/80	14-12-2024	110 R	100/80	16-05-2025	110 R
117	236	Smt- Lalita Mahanta		FACOR				06-02-2024	140 R	110/80	08-07-2024	140 R	110/80	07-12-2024	140 R	110/80	09-05-2025	140 R
119	3331	Susanta Kumar Sahoo		FACOR				03-02-2024	111 R	140/80	05-07-2024	111 R	140/80	04-12-2024	111 R	140/80	06-05-2025	111 R

Sub Area/ Function	Type of Activity	Activity	No. of persons engaged in particular job per shift	No of Shifts	Total no. of person engaged in particular job	Job Description	Type Of Hazard	Nature of Hazard	Hazard Description	SEG No.		Exposure Duration in Hour/Shift	Existing Control Measures	Risk Assessment					Proposed Control Measure or Opportunities	Residual Risk				
										Activity	Hazard			C	PrE	PeE	Risk Rating	Risk Level		C	PrE	PeE	Risk Rating	Risk Level
COB Hopper	Routine	Feeding Ore to the COB Hopper	5	3	15	Feeding ore to the hopper at a COB plant typically includes tasks such as loading ore to the hopper, monitoring and controlling the flow of material	Physical	Dust		001	1A	8	SOP+TRG	1	3	6	18	Acceptable risk	1.) Dust masks 2.) Water Spraying to suppress the dust	1	1	6	6	Acceptable risk
COB Hopper	Routine	Feeding Ore to the COB Hopper	5	3	15	Feeding ore to the hopper at a COB plant typically includes tasks such as loading ore to the hopper, monitoring and controlling the flow of material	Psychological	Heat		001	2E	8	SOP+TRG	1	3	6	18	Acceptable risk	1.) Cool vest 2.) Cold Water for drinking 3.) Glucose/dahi Pani for drinking	1	1	6	6	Acceptable risk
COB Hopper	Routine	Feeding Ore to the COB Hopper	5	3	15	Feeding ore to the hopper at a COB plant typically includes tasks such as loading ore to the hopper, monitoring and controlling the flow of material	Physical	Whole body vibration		001	2B	8	SOP+TRG	1	3	6	18	Acceptable risk	Frequent breaks	1	3	3	9	Acceptable risk
Drilling & Blasting	Non Routine	Drilling & Blasting Operation	8	1	8	Handling of explosives (Charging)	Chemical	Manual handling		002	1A	8	SOP+TRG	1	3	6	18	Acceptable risk	1.) Hand gloves 2.) Training of authorised person	1	3	3	9	Acceptable risk
Drilling & Blasting	Non Routine	Drilling & Blasting Operation	8	1	8	Operating drilling equipment, such as drills and boreholes	Psychological	Whole body vibration		002	2B	8	SOP+TRG	1	3	6	18	Acceptable risk	1.) Rotation schedules to the operator 2.) Frequent Breaks	1	3	3	9	Acceptable risk
Ore Plot	Non Routine	Manual Loading of Ore	28	1	28	Manually loading ore to the Dispatch Trucks	Chemical	Dust		003	1A	8	SOP+TRG	1	6	6	36	Potential risk	1.) Dust masks 2.) Water Spraying to suppress the dust	1	3	6	18	Acceptable risk
Ore Plot	Non Routine	Manual Loading of Ore	28	1	28	Carrying heavy loads of ore materials	Ergonomics	Repetative motion		003	4A	8	SOP+TRG	1	6	6	36	Potential risk	1.) Regular intervals of break 2.) Rotation schedules of the workers	1	6	3	18	Acceptable risk
Screening Plant	Routine	Supervision at Screening Plant	3	2	6	Supervising and coordinating the work of screen plant	Chemical	Dust		004	1A	8	SOP+TRG	1	6	6	36	Potential risk	1.) Dust masks 2.) Water Spraying to suppress the dust	1	3	6	18	Acceptable risk
Screening Plant	Routine	Supervision at Screening Plant	3	2	6	Supervising and coordinating the work of screen plant	Psychological	Noise		004	2A	8	SOP+TRG	1	3	6	18	Acceptable risk	1.) Ear plugs 2.) Frequent Breaks	1	3	3	9	Acceptable risk
Mines Premises	Routine	Housekeeping	12	1	12	Performing housekeeping duties within the mining environment	Chemical	Dust		005	5A	8	SOP+TRG	1	6	6	36	Potential risk	1.) Dust masks 2.) Water Spraying to suppress the dust	1	3	6	18	Acceptable risk
ETP	Routine	Chemical Handling at ETP	2	3	6	Preparing chemical solutions and mixtures	Chemical	Manual handling		006	2D	8	SOP+TRG	1	6	3	18	Acceptable risk	Hand gloves	1	3	3	9	Acceptable risk
Fabrication Shop	Routine	Welding	3	3	9	Welding materials using welding process	Physical	Fumes		007	5A	8	SOP+TRG	1	10	6	60	Potential risk	1.) Mask 2.) Welding shield	1	6	6	36	Potential risk
Fabrication Shop	Routine	Gas cutting	3	3	9	Performing gas cutting by directing the flame onto the material	Physical	Heat		007	2E	8	SOP+TRG	1	10	6	60	Potential risk	1.) Welding shield 2.) Welding gloves 3.) Usage of PPE's 4.) Flame resistant clothes	1	6	6	36	Potential risk

Fortnightly Skin Test Report																						
SL NO	AR NO	NAME OF THE EMPLOYEE	D.O.B	DESIGNATION	12th visit	result	13th visit	result	13th visit	result	14th visit	result	14th visit	result	15th visit	result	16th visit	result	17th visit	result	18th visit	result
1	1001	GANESH CHANDRA MAHANTA	07-10-1974	MAZDOOR	10-11-2024	NORMAL	10/27/2024	NORMAL	11-08-2024	NORMAL	11/22/2024	NORMAL	12-12-2024	NORMAL	1/13/2025	NORMAL	2/27/2025	NORMAL	3/16/2025	NORMAL	04-04-2025	NORMAL
2	1002	RAJU MUNDA	05-07-1975	MAZDOOR	10-11-2024	NORMAL	10/27/2024	NORMAL	11-08-2024	NORMAL	11/22/2024	NORMAL	12-12-2024	NORMAL	1/13/2025	NORMAL	2/27/2025	NORMAL	3/16/2025	NORMAL	04-04-2025	NORMAL
3	1006	DURGA MUNDA	04-01-1982	MAZDOOR	10-11-2024	NORMAL	10/27/2024	NORMAL	11-08-2024	NORMAL	11/22/2024	NORMAL	12-12-2024	NORMAL	1/13/2025	NORMAL	2/27/2025	NORMAL	3/16/2025	NORMAL	04-04-2025	NORMAL
4	1009	SRIRAM HAIBRU	01-01-1969	MAZDOOR	10-11-2024	NORMAL	10/27/2024	NORMAL	11-08-2024	NORMAL	11/22/2024	NORMAL	12-12-2024	NORMAL	1/13/2025	NORMAL	2/27/2025	NORMAL	3/16/2025	NORMAL	04-04-2025	NORMAL
5	1045	RAMA PINGUA	11-12-1985	MAZDOOR	10-11-2024	NORMAL	10/27/2024	NORMAL	11-08-2024	NORMAL	11/22/2024	NORMAL	12-12-2024	NORMAL	1/13/2025	NORMAL	2/27/2025	NORMAL	3/16/2025	NORMAL	04-04-2025	NORMAL
6	1048	BUDHIRAM GAGRAI	3/18/1988	MAZDOOR	10-11-2024	NORMAL	10/27/2024	NORMAL	11-08-2024	NORMAL	11/22/2024	NORMAL	12-12-2024	NORMAL	1/13/2025	NORMAL	2/27/2025	NORMAL	3/16/2025	NORMAL	04-04-2025	NORMAL
7	1046	LADUNA MUNDA	03-03-1986	MAZDOOR	10-11-2024	NORMAL	10/27/2024	NORMAL	11-08-2024	NORMAL	11/22/2024	NORMAL	12-12-2024	NORMAL	1/13/2025	NORMAL	2/27/2025	NORMAL	3/16/2025	NORMAL	04-04-2025	NORMAL
8	1051	SOMBARI MUNDA	3/17/1976	MAZDOOR	10-11-2024	NORMAL	10/27/2024	NORMAL	11-08-2024	NORMAL	11/22/2024	NORMAL	12-12-2024	NORMAL	1/13/2025	NORMAL	2/27/2025	NORMAL	3/16/2025	NORMAL	04-04-2025	NORMAL
9	1083	KUNI NAIK	9/15/1979	MAZDOOR	10-11-2024	NORMAL	10/27/2024	NORMAL	11-08-2024	NORMAL	11/22/2024	NORMAL	12-12-2024	NORMAL	1/13/2025	NORMAL	2/27/2025	NORMAL	3/16/2025	NORMAL	04-04-2025	NORMAL
10	1008	SUNA HEMBRAM	03-04-1986	MAZDOOR	10-11-2024	NORMAL	10/27/2024	NORMAL	11-08-2024	NORMAL	11/22/2024	NORMAL	12-12-2024	NORMAL	1/13/2025	NORMAL	2/27/2025	NORMAL	3/16/2025	NORMAL	04-04-2025	NORMAL
11	2015	LENKA Hesa	01-01-1975	MAZDOOR	10-11-2024	NORMAL	10/27/2024	NORMAL	11-08-2024	NORMAL	11/22/2024	NORMAL	12-12-2024	NORMAL	1/13/2025	NORMAL	2/27/2025	NORMAL	3/16/2025	NORMAL	04-04-2025	NORMAL
12	1018	CHAMPAI GADASARA	04-06-1992	MAZDOOR	10-11-2024	NORMAL	10/27/2024	NORMAL	11-08-2024	NORMAL	11/22/2024	NORMAL	12-12-2024	NORMAL	1/13/2025	NORMAL	2/27/2025	NORMAL	3/16/2025	NORMAL	04-04-2025	NORMAL
13	1021	DOLA MUNDA	07-01-1989	MAZDOOR	10-11-2024	NORMAL	10/27/2024	NORMAL	11-08-2024	NORMAL	11/22/2024	NORMAL	12-12-2024	NORMAL	1/13/2025	NORMAL	2/27/2025	NORMAL	3/16/2025	NORMAL	04-04-2025	NORMAL
14	1022	SANJAY KUMAR NAYAK	01-01-1973	MAZDOOR	10-11-2024	NORMAL	10/27/2024	NORMAL	11-08-2024	NORMAL	11/22/2024	NORMAL	12-12-2024	NORMAL	1/13/2025	NORMAL	2/27/2025	NORMAL	3/16/2025	NORMAL	04-04-2025	NORMAL
15	1032	LAGU BARI	4/14/1977	MAZDOOR	10-11-2024	NORMAL	10/27/2024	NORMAL	11-08-2024	NORMAL	11/22/2024	NORMAL	12-12-2024	NORMAL	1/13/2025	NORMAL	2/27/2025	NORMAL	3/16/2025	NORMAL	04-04-2025	NORMAL
16	1037	KRUSHNA NAYAK	07-01-1968	MAZDOOR	10-11-2024	NORMAL	10/27/2024	NORMAL	11-08-2024	NORMAL	11/22/2024	NORMAL	12-12-2024	NORMAL	1/13/2025	NORMAL	2/27/2025	NORMAL	3/16/2025	NORMAL	04-04-2025	NORMAL
17	1038	RAMA TIRIA	4/20/1992	MAZDOOR	10-11-2024	NORMAL	10/27/2024	NORMAL	11-08-2024	NORMAL	11/22/2024	NORMAL	12-12-2024	NORMAL	1/13/2025	NORMAL	2/27/2025	NORMAL	3/16/2025	NORMAL	04-04-2025	NORMAL

FORM - O
(See Rule 29 F (2) and 29 L.)
REPORT OF MEDICAL EXAMINATION UNDER RULE 29 B

Certificate No.: **OF-123**

Certified that, **SHRI CHAMPIA GADASARA** employed as **LOADING MAZDOORDMPRL** in **OSTAPAL CHROMITE MINES** of M/s. **FACOR LTD.** Form 'B' No. **1018** has been examined for a periodical medical examination. He/she appears to be **25** years of age. The findings of examining authority are given in the attached sheet. It is considered that, **SHRI CHAMPIA GADASARA**

- a) ☒ is medically fit for any employment in mines.
- b) ☐ is suffering from _____ and is medically unfit for
i) any employment in mine, or
ii) any employment below ground or
iii) any employment or work _____
- c) ☐ is suffering from _____ and should get this disability cured/controlled* and should be again examined within a period of _____ months. He/she will appear for re-examination with the result of tests of _____ and the opinion of _____ specialist from _____
- He/she may be permitted/not permitted to carry on his/her during this period



Signature of the Examining Authority
Name and Designation in Block Letters

DR B. N. MOHAPATRA, MBBS, AFPH (Mumbai)
Occupational Health Consultant
Trained in ILO Classification of Pneumoconiosis
Trained in Cardiology
Regd. No. 7338 (Orissa), 219 (DGFASLI)

Date : 12/06/2018
Place : UPC, BBSR

* Delete whatever not applicable.

** One copy of the certificate shall be handed over to the person concerned and other copy shall be sent to Manager of the Mine concerned by registered post and the third copy shall be retained by the examining authority.

Date : 12/06/2018
Place : UPC, BBSR

FORM - O (Contd...)
(See Rule 29 F(2) and 29 L.)
REPORT OF MEDICAL EXAMINING AUTHORITY

(To be filled in for every medical examination whether initial or periodical or re-examination or after cure/control of disability)

Annexure to Certificate No.: **OF-123** as a result of Medical Examination on **12/06/2018**

Identification of mark : **BLACKMOLE ON RT.CHEEK**



Left Thumb Impression of the Candidate

1. General Development: **GOOD**
2. Height: **166** cms. 3. Weight: **68** Kgs.
4. Eyes : (i) Visual acuity-Distant vision (with or without glasses)
Right eye: **6/6 Without Glass** Left eye: **6/6 Without Glass**
ii) Any Organic Disease of Eye: **NO** iii) Night Blindness **NO**
iv) Colour Blindness **NO** v) Squint **NO**
(* to be tested in special cases)
5. Ears : i) Hearing : Right Ear : **NORMAL** Left Ear : **NORMAL**
ii) any organic disease : **NO**
6. Respiratory System : Chest Measurement : (i) after full inspiration : **90** cms.
(ii) after full expiration : **85** cms.
7. Circulatory System : Blood Pressure : **136/78** mm of Hg. Pulse **78** Per Minute
8. Abdomen : Tenderness **NO** Liver **NOT PALPABLE**
Spleen **NOT PALPABLE** Tumour **NO**
9. Nervous System : History of fits or epilepsy: **NO** Mental Health : **GOOD**
Paralysis : **NO**
10. Locomotor system : **NORMAL**
11. Skin : **NAD**
12. Hernia : **NO**
13. Hydrocele : **NO**
14. Any other abnormality : **NO**
15. Urine : Reaction **ACIDIC** Albumin : **NIL**
Sugar : **NIL**
16. Skiagram of Chest : **NORMAL**
17. Any other 'C' test considered necessary by examining authority **NO**
18. Any opinion of specialist considered necessary **NO**

Audiometry :
Left : **NORMAL**
Right: **NORMAL**

P. F. T. :
NORMAL

DR B. N. MOHAPATRA, MBBS, AFPH (Mumbai)
Occupational Health Consultant
Trained in ILO Classification of Pneumoconiosis
Trained in Cardiology
Regd. No. 7338 (Orissa), 219 (DGFASLI)

COPY OF HEALTH PERFORMANCE INDICATOR OF WORKMEN AND EMPLOYEES																						
ROUT ENGINEERING PVT. LTD.						Audiometry		CHEST X-RAY & SPIROMETRY REPORT						ECG REPORT		HEIGHT	WEIGHT	BMI	Certf. No	I.L.O CLASSIFICATION OF Chest X-Ray		DISEASE
1	1	ARUNA KUMAR SAMAL	M-45	SUPERVISOR	03-03-1977	08-02-2023	RT EYE-6/6 WITHOUT GLASS LT EYE-6/6 WITHOUT GLASS	16DB NORMAL	18DB NORMAL	Chest x-ray-Normal Predicted- Performed- % of Predicted- PFT-NORMAL	FVC 3.18 2.9 91	FEV1 2.66 2.56 96	fev1/Fvc 79.1 88.3 112	PEF 7.85 7.32 93	ECG-NORMAL	157	60	24.341758	TRE-0011	Profusion of Pneumokoniatic Opacities-Absent Profusion-X,Shape-Size-X		
2	2	DILLIP PALEI	M-76	LABOUR	05-09-1995	08-02-2023	RT EYE-6/6 WITHOUT GLASS LT EYE-6/6 WITHOUT GLASS	16DB NORMAL	16DB NORMAL	Chest x-ray-Normal Predicted- Performed- % of Predicted- PFT-NORMAL	FVC 3.88 3.71 96	FEV1 3.35 3.31 99	fev1/Fvc 82.5 89.2 108	PEF 8.98 9.59 107	ECG-NORMAL	162	51	19.433013	TRE-0012	Profusion of Pneumokoniatic Opacities-Absent Profusion-X,Shape-Size-X		
3	3	CHANDAN DEHURY	M-30	LABOUR	17-06-1992	08-02-2023	RT EYE-6/6 WITHOUT GLASS LT EYE-6/6 WITHOUT GLASS	15DB NORMAL	16DB NORMAL	Chest x-ray-Normal Predicted- Performed- % of Predicted- PFT-NORMAL	FVC 3.95 3.37 85	FEV1 3.36 3.17 94	fev1/Fvc 81.8 94.1 115	PEF 8.99 7.27 81	ECG-NORMAL	165	48	17.630854	TRE-0013	Profusion of Pneumokoniatic Opacities-Absent Profusion-X,Shape-Size-X		
4	4	MANOJ DEHURY	M-26	LABOUR	18-10-1996	08-02-2023	RT EYE-6/6 WITHOUT GLASS LT EYE-6/6 WITHOUT GLASS	15DB NORMAL	16DB NORMAL	Chest x-ray-Normal Predicted- Performed- % of Predicted- PFT-NORMAL	FVC 3.94 3.13 79	FEV1 3.39 2.73 81	fev1/Fvc 82.5 87.2 106	PEF 9.04 6.57 73	ECG-NORMAL	163	57	21.453574	TRE-0015	Profusion of Pneumokoniatic Opacities-Absent Profusion-X,Shape-Size-X		
5	6	SAHADEB DEHURY	M-33	LABOUR	15-06-1989	08-02-2023	RT EYE-6/6 WITHOUT GLASS LT EYE-6/6 WITHOUT GLASS	18DB NORMAL	16DB NORMAL	Chest x-ray-Normal Predicted- Performed- % of Predicted- PFT-NORMAL	FVC 3.72 3.03 81	FEV1 3.17 2.84 90	fev1/Fvc 81.3 93.7 115	PEF 8.68 6.89 79	ECG-NORMAL	162	44	18.765737	TRE-0014	Profusion of Pneumokoniatic Opacities-Absent Profusion-X,Shape-Size-X		
6	8	PURNA SINGH	M-31	LABOUR	01-01-1992	08-02-2023	RT EYE-6/6 WITHOUT GLASS LT EYE-6/6 WITHOUT GLASS	18DB NORMAL	18DB NORMAL	Chest x-ray-Normal Predicted- Performed- % of Predicted- PFT-NORMAL	FVC 4.23 3.79 90	FEV1 3.57 3.38 95	fev1/Fvc 81.6 89.2 109	PEF 9.32 9.47 102	ECG-NORMAL	171	59	20.177149	TRE-0018	Profusion of Pneumokoniatic Opacities-Absent Profusion-X,Shape-Size-X		

FORM - O

(See Rule 29 I (2) and 29 I.)

REPORT OF MEDICAL EXAMINATION UNDER RULE 29 II

Certificate No. : TRE-0011

Certified that, Shri. ARUNA KUMAR SAMAL employedas SUPERVISOR(RE) in SARUABIL CHROMITE MINEof M/s TATA STEEL MINING LTD. Form 'A' No. 01*has been examined for an Initial medical examination. He/She appears to be 45 years of age.

The findings of examining authority are given in the attached sheet.

It is considered that Shri. ARUNA KUMAR SAMAL

a) is medically fit for any employment in mines.

b) is suffering from _____ and is medically unfit for

i) any employment in mine, or

ii) any employment below ground, or

iii) any employment or work _____

c) is suffering from _____

should get this disability cured / controlled* and should be again examined within a period

of _____ months. He/she will appear for re-examination with the result of tests

of _____ and the opinion

of _____ specialist from _____

He/She may be permitted/not permitted to carry on his/her duty during this period.

Signature of the Examining Authority
Name and Designation in Block LettersDr. Sarat Kumar Paikray
M.D. AFIH, Regd No- 7324 (Odisha)
Occupational Health Consultant

AdhaarCard-921728450140

Date : 08/02/2023

Place : TATA STEEL, SUKINDA

* Delete whatever not applicable

** One copy of the certificate shall be handed over to the person concerned and other copy shall be sent to Manager of the Mine concerned by registered post and the third copy shall be retained by the examining authority.

REPORT OF MEDICAL EXAMINING AUTHORITY

(To be filled in for every medical examination whether initial or periodical or re-examination or after occurrence of disability)

Annexure to Certificate No. TRE-0011 as a result of Medical Examination on 08 Feb 2023

Identification of mark : BLACK MOLE OVER L.L. LOWER CHEST

1. General Development : GOOD/FAIR/POOR2. Height : 157 cms.3. Weight : 60 kgs.

4. Eyes : i) Visual acuity-Distant vision (with or Without glasses)

Right Eye : 6/6 Without GlassLeft Eye : 6/6 Without Glassii) Any Organic Disease of Eye : NOiii) Night Blindness : NOiv) Colour Blindness : NOv) Squint : NO

(* to be tested in special cases)

5. Ears : i) Hearing : Right Ear NORMALLeft Ear NORMALii) Any Organic Disease : NO6. Respiratory System : Chest Management : (i) after full inspiration : 91 cms. (ii) after full expiration : 86 cms.7. Circulatory System : Blood Pressure : 116/70 mm of hg.Pulse : 63 Per Minute8. Abdomen : Tenderness : NOLiver : Not PalpableSpleen : Not PalpableTumour : NO9. Nervous system : History of fits or Epilepsy : NoParalysis : NOMental Health : GOOD10. Locomotor System : NAD11. Skin : NAD12. Hernia : NO13. Hydrocele : NO14. Any other abnormality : NO15. Urine : Reaction : ACIDICAlbumin : NilSugar : Nil16. Skiagram of Chest : NORMAL17. Any other 'C' test considered necessary by examining authority : NO18. Any opinion of specialist considered necessary : NO

Audiometry :

Left : NORMALRight : NORMALP.E.T. NORMAL

Date : 08/02/2023

Place : TATA STEEL, SUKINDA

Dr. Sarat Kumar Paikray
M.D. AFIH, Regd No- 7324 (Odisha)
Occupational Health Consultant
Signature of Examining Authority

From: [Susanta Biswal](#)
To: roez.bsr-mef@nic.in; dm-lajpur@nic.in
Cc: [Krutisunder Mohapatra](#)
Subject: Annual Report on Implementation of Community Development plan FY 2024-25 in respect of Ostapal Chromite Mine of M/s FACOR Ltd, Jajpur, Odisha
Date: Wednesday, May 28, 2025 11:59:53 PM
Attachments: [Annual report on implementation of Community Dev. Plan FY 2024-25.pdf](#)

Ref:- EC Identification No:EC24B0106OR5602647N, dated 18.07.2024, Condition No.-58

Respected Sir,

With reference to the captioned subject & cited reference, we would like to submit the annual report on implementation of Community development Plan for the year 2024-25 in respect of Ostapal Chromite Mine, M/s Ferro Alloys Corporation Limited.

This is for your kind perusal.

Regards
Susanta Biswal
Head- Environment
Mine Division

From: [Susanta Biswal](#)
To: [Artatrana Mishra](#); membersecretary@ospcboard.org; [seiaaodisha](#)
Cc: [Krutisunder Mohapatra](#)
Subject: Submission of Annual Expenditure towards Environment Protection Measures FY 2024-25 in respect of Ostapal Chromite Mine, M/s Ferro Alloys Corporation Limited- Regarding
Date: Thursday, May 29, 2025 1:12:11 PM
Attachments: [Submission of Annual expenditure towards Env't Protection Measures_Ostapal Mine_FACOR Ltd.pdf](#)

Ref.: EC Identification No:EC24B0106OR5602647N, dated 18.07.2024, Condition No.-58

Respected Sir,

With reference to the captioned subject & cited reference, we would like to submit the report on *Annual Expenditure towards Environment Protection Measures FY 2024-25* in respect of Ostapal Chromite Mine, M/s Ferro Alloys Corporation Limited.

This is for your Kind perusal.

Thanking You.

Susanta Biswal
Head Environment
MINE DIVISION
M/s FACOR LTD

ENVIRONMENT MANAGEMENT CELL IN M/S FERRO ALLOYS CORPORATION LTD.

A. Details of Persons available in the Cell:

Sl. No.	Name of the Persons	Designation	Duty assigned	Mob. No / Email	Qualification
01	Kruti Sundar Mohapatra	Chief- HSE	Health, Safety & Environment	7894405442 krutisunder.mohapatra@vedanta.co.in	MBA in Sustainability
02	Biswabhusan Panigrahi	Head-Environment (Plant)	Env. Management & Pollution control	7735738480 Biswabhusan.Panigrahi@vedanta.co.in	Postgraduate in Environmental Science
03	Susanta Biswal	Head-Geology & Environment (Mines)	Env. Management & Pollution control	9437496738 susanta.biswal@vedanta.co.in	M.Sc., in Geology
04	Somnath Pal	Lead Environment	Env. Management & Pollution control	9064376724 Somnath.Pal@vedanta.co.in	M.Tech., in Environmental Engineering
05	Avik Biswas	Lead Sustainability	ESG & Sustainability	8902791259 Avik.Biswas@vedanta.co.in	Postgraduate Diploma in Forestry Management
06	Nilesh Pratap Singh	Lead Sustainability	ESG & Sustainability	8455002075 nilesh.singh1@vedanta.co.in	Postgraduate Diploma in Sustainability Management

B. Reporting system of the Environment Management Cell (Please enclose Organization Chart).

