

OCM/ENV/446/2024

Date: 28.05.2024

To,
The Joint Director(s)
Ministry of Environment,
Forest & Climate Change,
Eastern Regional Office,
Bhubaneswar, Odisha

Sub.: Submission of Six-monthly EC compliance report to the conditions stipulated in the grant order of Environmental Clearance (EC) pertaining to Patabali COB Plant of M/s Ferro Alloys Corporation Limited.

Ref.: Environment Clearance identification No: EC24B007OR195428, dated 03.02.2024 of Ostapal Chromite Mine of M/s Ferro Alloys Corporation Limited.

Respected Sir,

With reference to the captioned subject & cited reference, we are herewith submitting six monthly compliance report pertaining to Patabali COB Plant of M/s FACOR Ltd for the period from October 2023 to March 2024 for your kind perusal.

This is for your Kind Perusal.

Thanking You Yours faithfully,

For Ferro Alloys Corporation LTD

[Signature]
Dy Head O&M
28.05.24

Authorized Signatory
PATABALI COB PLANT

- CC:
1. The Member Secretary, SEIAA, ODISHA
 2. The Member Secretary, State Pollution Control Board, ODISHA
 3. The Member Secretary, Central Pollution Control Board, ODISHA

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.

Six Monthly Compliance Report to EC Patabali COB Plant , M/s FACOR LYTD
For the Period from October 2023 to March'2024
EC Identification No.: EC24B007OR195428 Dated: 03.02.2024

(A) SPECIFIC CONDITIONS:		
(i)	The wastewater that will be generated from the tailings shall be treated in ETP wherein hexavalent Chromium shall be reduced to trivalent Chromium by dosing it with appropriate standard chemical following due technical procedure.	Assured to Comply that the waste water generated from the Tailings shall be treated in ETP after commencement of the COB Plant.
(ii)	The PP shall obtain NOC to use the Panchayat roads from the concerned BDO for transportation of both input materials and finished products including the responsibility of maintaining the road if damaged by such transportation.	Complied NOC has already been granted by the concerned BDO. Copy attached as Annexure-.1
(iii)	As the PP will implement the dry stacking of tailings, there will be trickling down of effluent. Also, during rain, the leached effluent from stack will trickling down. PP shall ensure collection of these effluents for treatment with routine analysis to ensure satisfying the standard before it is discharged. All data shall be kept for periodical compliances	Assured to implement Dry Stacking of Tailings and ensure collection of effluents for treatment with routine analysis after commencement of the COB Plant.
(iv)	The PP shall make all efforts to adopt ZLD.	Assured to make all efforts to adopt ZLD after commencement of the COB Plant.
(B) Standard Condition		
1. Statutory Compliance		
(i)	The project proponent shall obtain forest clearance under the provisions of Forest(Conservation) Act, 1986, in case of the diversion of forest land for non-forest purpose involved in the project.	Not Applicable, Since no forest land is involved inside the project area.
(ii)	The project proponent shall obtain clearance from the National Board for Wildlife, if applicable	Not Applicable
(iii)	The project proponent shall prepare a Site-Specific Conservation Plan Wildlife Management Plan and approved by the Chief Wildlife Warden. The recommendations of the approved Site-Specific Conservation Plan / Wildlife Management Plan shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six monthly compliance report, (in case of the presence of schedule-I species in study area).	Not Applicable as there is no schedule -I species.

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(iv)	The project proponent shall obtain Consent to Establish / Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water(Prevention & Control of Pollution) Act, 1974 from the concerned State study area)	<p>Complied</p> <p>Consent to Establish has obtained Dtd. 02.04.2024 vide file no. 4881/IND-II-CTE-7038.</p> <p>Before commencement of production, CTO will be obtained.</p> <p>CTE attached as Annexure - 2</p>
(v)	The project proponent shall obtain the necessary permission from the Central Ground Water Authority and other concerned authority, in case of drawl of ground water / from the competent authority concerned in case of drawl of surface water required for the project.	<p>Complied</p> <p>CGWA NOC has been obtained vide NOC no CGWA/NOC/IND/ORIG/2024/19862 dtd. 06.02.2024.</p> <p>The CGWA NOC is attached as Annexure - 3</p>
(vi)	The project proponent shall obtain authorization under the Hazardous and other Waste Management Rules, 2016 as amended from time to time.	Assured that authorization under the Hazardous and other Waste Management Rules, 2016 shall be obtained before commencement of COB Plant.
AIR QUALITY MONITORING AND PREVENTION		
(i)	The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through labs recognized under Environment (Protection) Act, 1986.	Assured to monitor fugitive emissions in the plant premises after commencement of COB Plant.
(ii)	The project proponent shall submit monthly summary report of continuous stack emission and air quality monitoring and results of manual stack monitoring and manual monitoring of air quality /fugitive emissions to Regional Office of MoEF&CC, Zonal office of CPCB and Regional Office of SPCB along with six- monthly monitoring report.	Assured to Comply this condition.
(iii)	Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources, so as to comply prescribed stack emission and fugitive emission standards	Assured to provide Appropriate Air Pollution (APC) for all the dust generating points of the COB Plant.
(iv)	The project proponent use leak proof trucks/dumpers carrying ore and other raw materials and cover them with tarpaulin.	Assured to Comply this condition after commencement of the COB Plant
(v)	Wind shelter fence and chemical spraying shall be provided on the raw material stock piles.	Assured to provide shelter fence and chemical spraying shall be provided on the raw material stockpiles after commencement of the Plant.

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(vi)	Design the ventilation system for adequate air changes as per ACGIH document for all tunnels, motor houses, Oil Cellars.	Assured to Design the ventilation system for adequate air changes as per ACGIH document for all tunnels after commencement of the Plant.
(vii)	The project proponent shall carry out conditioning of the ore with water to mitigate fugitive dust emission, without affecting flow of ore in the ore processing and handling areas.	Assured To Comply this condition after commencement of COB Plant
(viii)	Effective safeguard measures such as regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of air pollutants such as haul road, loading and unloading point and transfer points. It shall be ensured that the Ambient Air Quality parameters conform to the National ambient air quality standards.	Assured To Comply this condition after commencement of COB Plant.
(ix)	The transportation of mineral shall be carried out through the covered trucks Vehicular emissions shall be kept under control and regularly monitored. Measures shall be taken for maintenance of vehicles used in beneficiation operations and in transportation of ore to the beneficiation plant. The vehicles carrying the mineral shall not be overloaded.	Assured to Comply this condition during transportation of minerals.
(x)	Mineral handling area shall be provided with adequate number of high efficiency dust extraction system. Loading and unloading areas including all the transfer points should also have efficient dust control arrangements. These should be properly maintained and operated.	Assured to Comply this condition after commencement of COB Plant
(xi)	Occupational health surveillance program of the workers shall be undertaken periodically to observe any contractions due to exposure to dust and take corrective measures, if needed. Health records of the workers shall be maintained	Assured to Comply this condition after commencement of COB Plant
(xii)	Regular Ambient Air Quality Monitoring shall be carried out. The monitoring stations will be set up in consultation with the SPCB. At least four ambient air quality monitoring stations shall be established in the downward direction as well as where maximum ground level concentration of PM2.5, PM10, SO2 and NOx are anticipated in consultation with the State Pollution control Board. It will be ensured that at least one monitoring station is set up in up-wind & in down-wind direction along with those in other directions. The instruments used for ambient air quality monitoring shall be calibrated regularly.	Assured to carried out Regular Ambient Air Quality Monitoring in the plant. And in consultation with SPCB, monitoring stations will be installed.

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(xiii)	Data on ambient air quality (PM2.5, PM10, SO2, NOx) shall be regularly submitted to the Ministry including its Regional office located at Bhubaneswar and the State Pollution Control Board/Central Pollution Control Board once in six months.	Assured to Comply this condition after commencement of COB Plant
II. WATER QUALITY MONITORING & PREVENTION		
(i)	The project proponent shall monitor regularly ground water quality at least twice a year (pre and post monsoon) at sufficient numbers of piezometers/sampling wells in the plant and adjacent areas through labs recognized under Environment (Protection) Act, 1986 and NABL accredited laboratories.	Assured to monitor ground water quality regularly at least twice a year.
(ii)	Sewage Treatment Plant shall be provided for treatment of domestic wastewater to meet the prescribed standards	Assured to provide Sewage Treatment Plant before commencement of plant operation.
(iii)	Garland drains and collection pits shall be provided for each stock pile to arrest the runoff in the event of heavy rains and to check the water pollution due to surface run off.	Assured To Comply this condition after commencement of COB Plant.
(iv)	The project proponent shall practice rainwater harvesting to maximum possible extent.	Assured To Comply this condition after commencement of COB Plant.
(v)	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.	Assured To Comply this condition.
(vi)	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.	Assured To Comply this condition after commencement of COB Plant.
(vii)	The garland drain shall be constructed around the tailing pond before the starting operation on the project	Assured To Comply this condition after commencement of COB Plant.
(viii)	The decanted water from the tailing pond shall be re-circulated and there should be zero discharge from the tailing pond.	It is ensured that the same practices will be followed during the operation of COB Plant.
(ix)	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.	It is already planned & covered in the project planning.
(x)	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 collected shall be utilized for watering the roads, green belt development etc.	Assured To Comply this condition after commencement of COB Plant.

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	The drains shall be regularly desilted particularly after monsoon and maintained properly.	
(xi)	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.	Assured To Comply this condition after commencement of COB Plant.
(xii)	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.	Assured To Comply this condition after commencement of COB Plant.
(xiii)	Adhere to "Zero Liquid Discharge".	Assured To Comply this condition after commencement of COB Plant.
(xiv)	Regular monitoring of water quality for surface water sources as well as groundwater sources shall be carried out. The groundwater shall be monitored downstream of beneficiation plant as well as tailing pond upto ground water table and record of monitoring data should be maintained and submitted on six monthly basis to the Ministry of Environment and Forests, its Regional Office, Bhubaneswar, the Central Ground Water Authority, the Regional Director Central Ground Water Board and the State Pollution Control Board.	Assured To Comply this condition after commencement of COB Plant.
(xv)	Suitable rainwater harvesting measures on long term basis shall be planned and implemented in consultation with the Regional Director, Central Ground Water Board.	Assured To Comply this condition after commencement of COB Plant.
(xvi)	Appropriate mitigative measures shall be taken to prevent pollution of the nearby surface water source in consultation with the State Pollution control Board	Assured To Comply this condition after commencement of COB Plant.
III. NOISE MONITORING AND PREVENTION		
(i)	Noise level survey shall be carried as per the prescribed guidelines and report in this regard shall be submitted to Regional Office, MoEF&CC, Govt. of India, Bhubaneswar as well as SEIAA, Odisha as a part of six-monthly compliance report.	Assured To Comply this condition after commencement of COB Plant.
(ii)	The ambient noise levels should conform to the standards prescribed under E(P)A Rules, 1986 viz. 75 dB(A) during day time and 70 dB(A) during night time	Assured To Comply this condition after commencement of COB Plant.
IV. ENERGY CONSERVATION MEASURES		

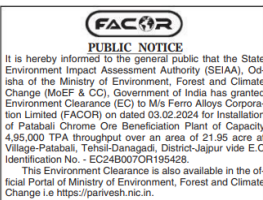

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(i)	Provide solar power generation on roof tops of buildings, for solar light system for all common areas, street lights, parking around project area and maintain the same regularly;	Assured To Comply this condition.
(ii)	Provide LED lights in their offices and residential areas	It is already planned to use the same.
V. WASTE MANAGEMENT		
(i)	The waste oil, grease and other hazardous waste shall be disposed of as per the Hazardous & Other waste (Management & Transboundary Movement) Rules, -2016	Assured To Comply this condition as per Hazardous waste Rule & Regulation.
(ii)	Kitchen waste shall be composted or converted to biogas for further use.(/o be decided on case to case basis depending on type and size of plant.	Assured To Comply this condition.
(iii)	Separate impervious concrete pits for disposal of sludge shall be provided for the safe disposal of sludge generated from the beneficiation operation.	Assured To Comply this condition during Operation of COB Plant.
VI. GREEN BELT AND EMP		
(i)	Green belt shall be developed in an area equal to 33% of the plant area with a native tree species in accordance with CPCB guidelines. The greenbelt shall inter alia cover the entire periphery of the plant	Assured to Comply. It is already planned. Greenbelt work will be started during the Monsson of the FY 2024-25.
(ii)	The project proponent shall prepare GHG emissions inventory for the plant and shall submit the programme for reduction of the same including carbon sequestration including plantation.	Assured To Comply this condition after commencement of COB Plant.
(iii)	Plantation shall be raised all around the beneficiation plant site and the tailing pond around the plant, tailing disposal area, roads etc. by planting the native species in consultation with the local DFO/ Agriculture Department	Assured To Comply this condition after commencement of COB Plant.
VII. HUMAN HEALTH ISSUES		
(i)	Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.	Assured To Comply this condition after commencement of COB Plant.
(ii)	The project proponent shall carry out heat stress analysis for the workmen who work in high temperature work zone and provide Personal Protection Equipment (PPE) as per the norms of Factory Act.	Assured To Comply this condition after commencement of COB Plant.
(iii)	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile.	All the labour will be sourced from the local area , so there is no requirement housing within the site.

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	a) STP, safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	
(iv)	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act	Assured To Comply this condition after commencement of COB Plant.
VIII. CORPORATE ENVIRONMENT RESPONSIBILITY		
(i)	The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-1 A.III dated 1st May 2018, as applicable, regarding Corporate Environment Responsibility.	Assured To Comply this condition after commencement of COB Plant.
(ii)	The company shall have a well-laid environmental policy duly approve by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balance and to bring into focus any infringements/deviation/violation of the environmental / forest /wildlife norms/ conditions. The company shall have defined system of reporting in-fringements/deviation/violation of the environmental/forest/wildlife norm, conditions and / or shareholders / stake holders. The copy of the board resolution in this regard shall be submitted to the Regional Office, MoEF&CC, Govt. of India, Bhubaneswar as well as SEIAA, Odisha as a part of six-monthly report.	The company has a well-laid Environmental Policy. All the requirements will be taken care of. HSE Policy is enclosed as Annexure No.- 4
(iii)	A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization	Complied Environment Management Cell is set up as required. Copy of the Environment Management Cell is enclosed as Annexure No- 5
(iv)	Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Regional Office, MoEF & CC, Govt. of	It is under process. Assured To Comply this condition. It is attached as Annexure No-6

Monthly Compliance Report to EC Patabali COB Plant , M/s FAC
For the Period from October 2023 to March'2024
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	India, Bhubaneswar as well as SEIAA, Odisha along with the Six Monthly Compliance Report	
(v)	Self-environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.	Assured To Comply this condition after commencement of COB Plant.
(vi)	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 this condition after commencement of COB Plant.
IX. Half-yearly Compliance Report		
(i)	It shall be mandatory for the project management to submit half yearly compliance reports on the status of implementation of the above stipulated environmental safeguards to the SEIAA. Odisha / Regional Office of the MoEF & CC, Bhubaneswar upload in Parivesh Portal on 1 day of June and December of each calendar year. The proponent shall also upload the compliance report including results of monitored data, as applicable in the website of the Ministry for monitoring of EC Conditions, failing which EC is liable to be revoked.	Complied
X.MISCELLANOUS		
(i)	The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently.	<p>Complied. It is published in the two News paper as follows:</p> <div style="display: flex; justify-content: space-around;">   </div> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> Indian Express (Dt 7.2.2024) </div> <div style="text-align: center;"> Dharitri (Dt. 7.2.2024) </div> </div> <p>And the EC is also displayed in the website : www.facorgroup.in Link EC-Patabali-COB.pdf (facorgroup.in)</p>
(ii)	The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.	<p>Complied .</p> <p>The Copies of EC has been submitted to mentioned governed bodies .</p> <p>The details of receiving letter has been attached as Annexure - 7</p>
(iii)	The project proponent shall upload the status compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.	Complied

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(iv)	The construction and demolition wastes to be generated from the proposed project shall be disposed of in accordance with the provision under "Construction& Demolition Wastes Management Rules 2016"	The construction and demolition wastes to be generated from the proposed project shall be disposed of in accordance with the provision under "Construction& Demolition Wastes Management Rules 2016"
(v)	The project proponent shall monitor the criteria pollutants level namely; PM10,SO2, NOx (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company.	Assured To Comply this condition after commencement of COB Plant.
(vi)	The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.	Complied.
(vii)	The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board asprescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website -of the company	Assured To Comply this condition after commencement of COB Plant.
(viii)	The project proponent shall inform the Regional Office, MoEF&CC, Govt. of India, Bhubaneswar as well as SEIAA, Odisha the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project	Complied. Date of Financial closure & Final Approval is 12.05.2023 Land development work is not started yet. On completion & starting of operation, it will be communicated.
(ix)	The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government	Agreed & ensured the same.
(x)	The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report and also that during their presentation to the State Level Expert Appraisal Committee.	Agreed. Assured To Comply this condition.
(xi)	No further expansion or modifications in the plant shall be carried out without prior approval of the SEIAA, Odisha.	It is ensured herewith, without prior approval there will be no expansion or modification.
(xii)	Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under theprovisions of Environment (Protection) Act,	Agreed & ensured to comply as per the rule & regulation.

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	1986.The SEIAA, Odisha may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	
(xiii)	The SEIAA, Odisha may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	It is assured to comply the same as per requirement & satisfaction.
(xiv)	The SEIAA, Odisha reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.	Agreed & ensured to comply all the requirement I in time.
(xv)	The Regional Office, MoEF&CC, Govt. of India, Bhubaneswar shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.	Agreed & Assured to extend full cooperation.
(xvi)	The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control oof Pollution) Act, 1974, the Air (Prevention &Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986,Hazardous and Other Wastes (Management and Transboundary Movement)Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter	Assured to Comply.
(xvii)	Any appeal against this EC 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	-

Annexure 1

Dated: 15.12.2023

To
The Block Development Officer,
Danagadi Block,
Dist-Jajpur, Odisha.

Ref: 1. Our EC Proposal No. SIA/OR/IND1/431883/2023.
2. SEAC Recommendation dtd.11.09.2023.

Sub.: Regarding providing NOC to use Panchayat Roads for transportation of both input materials and finished products of Patabali COB Plant of M/s Ferro Alloys Corporation Ltd. to comply the condition of SEAC.

Dear Sir /Madam,


With reference to the above-mentioned subject, we would like to inform that, **M/s Ferro Alloys Corporation Limited (FACOR)** is proposed to Install one COB Plant having capacity of 49500 TPA at village: Patabli, Panchayat :Deulakan, Blcok- Danagadi, Tehsil: Danagadi Dist.-Jajpur. In this connection one application for Environment Clearance has been applied in MOEF vide Proposal No. SIA/OR/IND1/431883/2023. The Public hearing for the same has also been completed successfully. On dtd. 11.09.2023 the State Environment Assessment Committee (SEAC) has already approved the said proposal.

Now in compliance to the additional conditions raised by SEAC we required one No Objection Certificate (NOC) from your good office with respect to the matter that the Panchayat roads of this area shall be used for transportation of both input materials and finished products of Patabali COB Plant and for this purpose we do hereby assure your good office that we shall be responsible for maintaining the said roads in good condition without any damage during the transportation.

Your kind cooperation in this regard is highly solicited to comply the conditions of SEAC Govt. of Odisha and obtaining Environment Clearance for the said project.

Thanking You

Yours faithfully,
for Ferro Alloys Corporation LTD


Muthumari M.
(Authorized Signatory)

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.



STATE POLLUTION CONTROL BOARD, ODISHA

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

Paribesh Bhawan, A/118, Nilakantha Nagar, Unit - VIII

Bhubaneswar - 751012

No. 4881 /

IND-II-CTE-7038

Date: 02.04.2024
Through online/
By speed post

CONSENT TO ESTABLISH ORDER

In consideration of the online application no **4745836** for obtaining Consent to Establish for **Patabali Chrome Ore Beneficiation (COB) Plant of M/s Ferro Alloys Corporation Limited 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 under Section 21 of Air (Prevention & Control of Pollution) Act, 1981 for **installation of a Chrome Ore Beneficiation (COB) (Wet Method) plant having capacity 4,95,000 TPA throughput of input grade of less than 40% Cr₂O₃ ROM to upgrade it to output grade 48%-52% Cr₂O₃ concentrate and a DG set of 1x 500 KVA capacity for power backup over an area of Ac 21.95 Dec with a project cost of Rs.55.4 Crores** (Plot No. and Khata no. as mentioned in the application form) located At-Tomka, Village-Patabali, in the District of **Jajpur** with the following conditions.

GENERAL CONDITIONS:

1. This Consent to Establish is valid for the raw materials, product, manufacturing process and capacity mentioned in the application form. This order is valid for **five** years, which means the proponent shall commence construction of the project within a period of five years from the date of issue of this order. If the proponent fails to do substantial physical progress of the project within five years, then a renewal of this consent to establish shall be sought by the proponent.
2. The industry 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 Transboundary Movement) Rules, 2016 as amended from time to time, Hazardous Chemical Rules, / Manufacture, Storage and Import of Hazardous Chemical Rules, 1989 etc. and amendments there under. The industry shall also comply to the provisions of Public Liability Insurance Act, 1991, if applicable.
3. The industry shall apply for grant of Consent to Operate under section 25/26 of Water (Prevention & Control of Pollution) Act, 1974 & Air (Prevention & Control of Pollution) Act, 1981 at least 3 (three) months before the commercial production and obtain Consent to Operate from this Board.
4. **This Consent to Establish is granted subject to statutory and other clearances from Govt. of Odisha and/or Govt. of India, as and when applicable.**

SPECIAL CONDITIONS:

A. GENERAL:

1. The proponent shall comply the conditions imposed in Environmental Clearance granted by the MoEF & CC, Govt. of India vide EC Identification No. EC24B007OR195428 and File No. 431883/39-IND1/06-2023, Dt. 03/02/2024 for Installation of Patabali COB Plant of Capacity 4,95,000 TPA throughput at Village:- Patabali Tehsil:-Danagadi, District:- Jajapur , Odisha of M/s Ferro Alloys Corporation Ltd..
2. This Consent to Establish is granted for the capacity as mentioned above and any expansion in the capacity, change or modification in the process, addition, alternation any nature has to be undertaken with prior approval of the Board. For any change in the site or area, fresh Consent to Establish has to be obtained from the Board. The proponent shall carry out construction activity as per approved lay out map **(Annexure-I)**. If the proponent wants to change the approved plant layout map, they can submit a modified plant layout map with adequate justification for such modification.
3. The proponent shall implement the pollution control measures and safeguards as proposed in the Environment Management Plan (EMP).
4. The unit shall obtain NOC from CGWA for using of ground water for getting Consent to Operate of State Pollution Control Board, Odisha.
5. The proponent shall obtain permission from Department of Water Resources, Govt. of Odisha for drawl of ground water and surface water.
6. The construction material which has potential to be airborne, shall be transported in covered trucks.
7. A green belt of adequate width and density preferably with local species along the periphery of the plant shall be raised so as to provide protection against particulates and noise. It must be ensured that at least 33% of the total land area shall be under green cover. The proponent shall ensure the maintenance of green belt throughout the year and for all time to come. It is advised that they may engage professionals in this field for creation and maintenance of the green belt. An action plan for this purpose shall be prepared and shall be submitted accordingly.
8. The construction shall be carried out with fly ash bricks. If the fly ash bricks are not available locally the construction may be carried out with other bricks with prior intimation to the concerned Regional Office of SPC Board.
9. Noise shall be controlled to ensure that it does not exceed the prescribed standards. During nighttime the noise levels measured at the boundary of the plant shall be restricted to the permissible levels to comply with the prevalent regulations.
10. The proponent shall comply to the provisions of E-waste (Management) Rules, 2016 and shall handover E-waste to authorized collection centers / register dismantlers / recyclers for proper disposal of E-waste.

11. The construction and demolition wastes to be generated from the proposed project shall be disposed of in accordance with the provision under "Construction & Demolition Wastes Management Rules 2016".
12. All the plastic waste generated from the premises shall be collected and sent for co-processing to the nearby cement kilns or sent to plastic re-processors.
13. Municipal Solid Waste shall be disposed of as per the Solid Waste Management Rules, 2016 and amendment thereafter.
14. The industry shall take up adequate measures for routine health checkup of its employees / workers and the people residing in the neighborhood of the plant free of cost.
15. The proponent shall provide full-fledged environmental management cell and head of environmental management cell should report to the unit head.
16. No production activity shall commence prior to installation of all pollution control measures. In case it is found that the industry is operated without installation of adequate pollution control equipment, direction for closure shall be issued u/s 31 (A) of Air (PCP) Act, 1981 and / or u/s 33(A) of Water (PCP) Act, 1974 as the case may be without any further notice.
17. The unit shall abide by the provisions of Environment (Protection) Act, 1986 and Rules framed there under.
18. The above conditions will be enforced, inter-alia, under the provisions of the water (Prevention & Control of pollution) Act, 1974 and Air (Prevention & Control of Prevention) Act, 1981 and Environment (Protection) Act, 1986 and the Public Liability Insurance Act, 1991 along with their amendments and Rules.
19. The Board may impose further condition or modify the conditions as stipulated in this order during installation and / or at the time of obtaining Consent to Operate and may revoke this order in case the stipulated conditions are not implemented and / or information is found to have been suppressed / wrongly furnished in the application form.

B. WATER POLLUTION:

20. The proponent shall install ETP of capacity 250 KLD with adequate treatment facilities like, tailing thickener, filter press etc. for treatment of wastewater generated from the beneficiation plant and treated wastewater shall be recycled back to the Chrome Ore beneficiation process. The ETP shall have facilities where in hexavalent Chromium shall be reduced to trivalent Chromium by dosing it with appropriate standard chemical following due technical procedure.
21. The tailings from the thickener shall be passed through the filter press for dewatering and the wastewater from the filter press shall be recycled back to the treatment for treatment.
22. The filter cake (Tailings) shall be stored in impervious concrete pit with proper retaining wall all around to prevent washout during rain and test well shall be provided for monitoring of ground water. The leachate generated if any shall be treated in the ETP.

23. The unit shall adopt zero discharge concept and under no circumstances wastewater shall be discharged to outside the premises.
24. Garland drains followed by setting tank shall be provided for each raw material stockpile to arrest the runoff in the event of heavy rains and to check the water pollution due to surface run off.
25. The garland drain shall be constructed around the tailings (filter cake) storage area.
26. Appropriate technology shall be used for maximum recovery of chrome ore in order to reduce slurry discharge and to increase the life of the tailing pond.
27. The unit shall provide mechanized wheel washing system along with effluent treatment and recycling facilities at the exit point of the unit.
28. The unit shall provide high pressure water spraying nozzle at the chrome ore fines stock yards and feeding section to control fugitive emission.
29. The domestic wastewater generated from the industry shall be treated in adequate size sewage treatment plant to meet the following standards as notified by the MoEF&CC, Govt. of India vide G.S.R. 1265 (E), dated 13.10.2017. The treated water shall be reused for gardening and plantation. Under no circumstances there shall be any discharge of treated STP wastewater to outside the factory premises.

Sl. No.	Parameters	Standards
1.	pH	6.5-9.0
2.	BOD(mg/l)	30
3.	TSS(mg/l)	<100
4.	Fecal Coliform (MPN/100ml)	< 1000

30. Surface runoff treatment system (SRTS) of adequate capacity with treatment facility for removal of Cr^{+6} shall be installed to meet norms and reused in the beneficiation process. All the internal drains from the raw material stockyard/ tailings disposal area and plant area shall be connected to SRTS.
31. Rainwater harvesting shall be followed by utilizing the rainwater collected from the roof of the administrative buildings within the premises as per the concept and practices prescribed by CPCB.

C. AIR POLLUTION:

32. The finished product concentrate and raw material shall be stored in separate area and handled by wheel loader or suitable loading equipment for feeding and loading purposes.
33. Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources, so as to comply prescribed stack emission and fugitive emission standards.
34. The project proponent shall carry out conditioning of the ore with water to mitigate fugitive dust emission, without affecting flow of ore in the ore processing and handling areas.

35. Effective safeguard measures such as regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of air pollutants such as haul road, loading and unloading point and transfer points. It shall be ensured that the Ambient Air Quality parameters conform to the National ambient air quality standards.
36. The Screens, Jigging Plant, and other process plants to be used for beneficiation process shall be placed in covered shed. Dust suppression system shall be provided at the point of loading to the conveyor and other dust generating section of chrome ore beneficiation plant to minimize fugitive emission.
37. Adequate measures shall be taken for control of noise levels in the work environment of mine area so that noise levels at the boundary line area shall not exceed 75 dB (A) during day time (06:00 AM to 10:00 PM) and 70 dB(A) during night time (10:00 PM to 06:00 AM).
38. Regular collection of spilled over fines from haul roads shall be practiced preventing the generation of dust to be air borne.
39. All the internal roads along the beneficiation plant shall be concreted or black topped. Permanent high pressure water sprinkling system shall be installed for regular spraying of water on roads to minimize fugitive dust emission.
40. Mineral handling area shall be provided with adequate number of high efficiency dust extraction system. Loading and unloading areas including all the transfer points should also have efficient dust control arrangements. These should be properly maintained and operated.
41. The approach road connected to the factory gate shall be black topped or concreted with plantation on both side of the road.
42. The unit shall provide adequate truck parking facility.
43. Diesel power generating sets proposed as source of back-up power during operation phase shall be enclosed model and conform to Rules made under the Environment (Protection) Act, 1986. The height of stack of DG sets should be equal to the height needed for the combined capacity of all proposed DG sets. Only Diesel fuels (HSD & LDO) shall be used. Use of low Sulphur diesel shall be explored.
44. Air compressor and DG set should be acoustically designed and should be housed in appropriate acoustic enclosures so that the noise level outside it shall conform to the prescribed norms.
45. The height of the stack attached to DG sets shall be maximum of the following in meter:
 - (i) $14 Q^{0.3}$, Q=Total SO₂ emission from the plant in kg/hr.
 - (ii) Minimum 6 m above the building where generator set is installed.
 - (iii) 30 m.
46. The proponent shall strictly comply with the Fuel Policy of the State, promulgated by Department of Forest, Environment and Climate Change, vide Order No- FE-ENV3-ENV-0014-2017- 7485 Dt. 12-04-2021, and subsequent amendment vide 7271 Dt. 12-04-2023 for use of fuel.



47. Necessary preventive measures shall be taken during construction phase so that the ambient air quality including noise shall conform to National Ambient Air Quality Standards and standards for noise in industrial area as per **Annexure-II & III**. Ambient air quality at the boundary of the plant premises shall meet the prescribed standards of the Board as per **Annexure - I**. The ambient air quality monitoring report shall be submitted to the Board every month.

D. SOLID AND HAZARDOUS WASTE:

48. The Tailing Cakes generated from the filter press of the chrome ore beneficiation plant shall be stored in the earmarked area inside the plant premises stacked inside the premises in a designated area with impervious lining.
49. The tailing cake may be utilized if any alternative use found after proper scientific study carried out by reputed scientific agencies. The proponent shall obtain separate approval for this purpose.
50. The waste oil, grease and other hazardous waste shall be disposed of as per the Hazardous & Other waste (Management & Transboundary Movement) Rules, 2016
51. The proponent shall obtain authorization under Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and amendment made thereafter for handling of hazardous waste.

Encl: Approved plant layout map (Annexure-I) and Annexure-II & III


MEMBER SECRETARY

To

The Occupier,
Patabali COB Plant of M/s. FACOR Ltd
At/Po: Randia, Tahasil: Randia
District: Bhadrak

Memo No. 4882 / Date: 02.04.2024

Copy forwarded to:

1. The Collector & District Magistrate, **Jajpur**
2. The Director, Factories & Boiler, Bhubaneswar
3. The DFO, **Cuttack**
4. Consent to Operate Cell, SPC Board, Bhubaneswar
5. Hazardous Waste Management Cell, SPC Board, Bhubaneswar
6. The Regional Officer, SPC Board, **Kalinganagar**
7. Copy to Guard file


ADDL. CHIEF ENV. ENGINEER



NATIONAL AMBIENT AIR QUALITY STANDARDS
CENTRAL POLLUTION CONTROL BOARD
NOTIFICATION

New Delhi, the 18th November, 2009

No. B-29016/20/90/PCI-L—In exercise of the powers conferred by Sub-section (2) (h) of section 16 of the Air (Prevention and Control of Pollution) Act, 1981 (Act No.14 of 1981), and in supersession of the Notification No(s). S.O. 384(E), dated 11th April, 1994 and S.O. 935(E), dated 14th October, 1998, the Central Pollution Control Board hereby notify the National Ambient Air Quality Standards with immediate effect, namely:-

NATIONAL AMBIENT AIR QUALITY STANDARDS

S. No.	Pollutant	Time Weighted Average	Concentration in Ambient Air		
			Industrial, Residential, Rural and Other Area	Ecologically Sensitive Area (notified by Central Government)	Methods of Measurement
(1)	(2)	(3)	(4)	(5)	(6)
1	Sulphur Dioxide (SO ₂), µg/m ³	Annual* 24 hours**	50 80	20 80	- Improved West and Gaeke -Ultraviolet fluorescence
2	Nitrogen Dioxide (NO ₂), µg/m ³	Annual* 24 hours**	40 80	30 80	- Modified Jacob & Hochheiser (Na-Arsenite) - Chemiluminescence
3	Particulate Matter (size less than 10µm) or PM ₁₀ µg/m ³	Annual* 24 hours**	60 100	60 100	- Gravimetric - TOEM - Beta attenuation
4	Particulate Matter (size less than 2.5µm) or PM _{2.5} µg/m ³	Annual* 24 hours**	40 60	40 60	- Gravimetric - TOEM - Beta attenuation
5	Ozone (O ₃) µg/m ³	8 hours** 1 hour**	100 180	100 180	- UV photometric - Chemiluminescence - Chemical Method
6	Lead (Pb) µg/m ³	Annual* 24 hours**	0.50 1.0	0.50 1.0	- AAS /ICP method after sampling on EPM 2000 or equivalent filter paper - ED-XRF using Teflon filter
7	Carbon Monoxide (CO) mg/m ³	8 hours** 1 hour**	02 04	02 04	- Non Dispersive Infra Red (NDIR) spectroscopy
8	Ammonia (NH ₃) µg/m ³	Annual* 24 hours**	100 400	100 400	-Chemiluminescence. -Indophenol blue method

(1)	(2)	(3)	(4)	(5)	(6)
9	Benzene (C ₆ H ₆) µg/m ³	Annual*	05	05	- Gas chromatography based continuous analyzer - Adsorption and Desorption followed by GC analysis
10	Benzo(a)Pyrene (BaP) - particulate phase only, ng/m ³	Annual*	01	01	- Solvent extraction followed by HPLC/GC analysis
11	Arsenic (As), ng/m ³	Annual*	06	06	- AAS /ICP method after sampling on EPM 2000 or equivalent filter paper
12	Nickel (Ni), ng/m ³	Annual*	20	20	- AAS /ICP method after sampling on EPM 2000 or equivalent filter paper

* Annual arithmetic mean of minimum 104 measurements in a year at a particular site taken twice a week 24 hourly at uniform intervals.

** 24 hourly or 08 hourly or 01 hourly monitored values, as applicable, shall be complied with 98% of the time in a year. 2% of the time, they may exceed the limits but not on two consecutive days of monitoring.

Note. — Whenever and wherever monitoring results on two consecutive days of monitoring exceed the limits specified above for the respective category, it shall be considered adequate reason to institute regular or continuous monitoring and further investigation.

SANT PRASAD GAUTAM, Chairman
[ADVT-III/4/184/09/Exty.]

Note: The notifications on National Ambient Air Quality Standards were published by the Central Pollution Control Board in the Gazette of India, Extraordinary vide notification No(s). S.O. 384(E), dated 11th April, 1994 and S.O. 935(E), dated 14th October, 1998.

ANNEXURE-II

SCHEDULE (see rule 3(l) and 4(l))

Ambient Air Quality Standards in respect of Noise

Area Code	Category of Area/Zone	Limits in dB(A) Leq *	
		Day Time	Night Time
(A)	Industrial area	75	70
(B)	Commercial area	65	55
(C)	Residential area	55	45
(D)	Silence Zone	50	40

Note

1. Day time shall mean from 06:00 A.M. to 10:00 P.M.
2. Night time shall mean from 10:00 P.M. to 06:00 A.M.
3. Silence zone is defined as an area comprising not less than 100 meters around hospitals, educational institutions and courts. The silence zones are zones which are declared as such by the competent authority.
4. Mixed categories of areas may be declared as one of the four above mentioned categories by the competent authority.

*dB(A) Leq denotes the time weighted average of the level of sound in decibels on scale A which is relatable to human hearing.

A "decibel" is a unit in which noise is measured.

"A", in dB(A) Leq, denotes the frequency weighting in the measurement of noise and corresponds to frequency response characteristics of the human ear.

Leq : It is an energy mean of the noise level, over a specified period.

[F. No. Q-14012/I/96-CPA]
VIJAI SHARMA, R. Secy.



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:	Patabali Cob Plant Of M/s. Facor Ltd		
Project Address:	C/o - Ostapal Chromite Mine At:gurujanga Po- Kaliapani Dist.- Jajpur Pin-755028, Jajpur		
Village:	Tomka Forest Block	Block:	Danagadi
District:	Jajapur	State:	Odisha
Pin Code:			
Communication Address:	Mr Muthumari M, Ostapal Chromite Mine, Kaliapani, Jajpur, Jajapur, Odisha - 755001		
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/IND/ORIG/2024/19862				2.	Date of Issuance		06/02/2024						
3.	Application No.:		21-4/5032/OR/IND/2023				4.	Category: (GWRE 2023)		Safe						
5.	Project Status:		New Project				6.	NOC Type:		New						
7.	Valid from:		06/02/2024				8.	Valid up to:		05/02/2027						
9.	Ground Water Abstraction Permitted:															
Fresh Water				Saline Water				Dewatering				Total				
m³/day		m³/year		m³/day		m³/year		m³/day		m³/year		m³/day		m³/year		
485.00		177025.00														
10.	Details of ground water abstraction /Dewatering structures															
Total Existing No.:0								Total Proposed No.:3								
				DW	DCB	BW	TW	MP	MPu	DW	DCB	BW	TW	MP	MPu	
Abstraction Structure*				0	0	0	0	0	0	0	0	3	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.):								354050.00							
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						1		0		1		0				

(Compliance Conditions given overleaf)

This is an auto generated document & need not to be signed.

Validity of this NOC shall be subject to compliance of the following conditions:

Mandatory conditions:

- 1) Installation of tamper proof digital water flow meter with telemetry on all the abstraction structure(s) shall be mandatory for all users seeking No Objection Certificate and intimation regarding their installation shall be communicated to the CGWA within 30 days of grant of No Objection Certificate.
- 2) Proponents shall mandatorily get water flow meter calibrated from an authorized agency once in a year.
- 3) Construction of purpose-built observation wells (piezometers) for ground water level monitoring shall be mandatory as per Section 14 of Guidelines. Water level data shall be made available to CGWA through web portal. Detailed guidelines for construction of piezometers are given in Annexure-II of the guidelines.
- 4) Proponents shall monitor quality of ground water from the abstraction structure(s) once in a year. Water samples from bore wells/ tube wells / dug wells shall be collected during April/May every year and analysed in NABL accredited laboratories for basic parameters (cations and anions), heavy metals, pesticides/ organic compounds etc. Water quality data shall be made available to CGWA through the web portal.
- 5) In case of mining projects, additional key wells shall be established in consultation with the Regional Director, CGWB for ground water level monitoring four (4) times a year (January, May, August and November) in core as well as buffer zones of the mine.
- 6) In case of mining project the firm shall submit water quality report of mine discharge/ seepage from Govt. approved/ NABL accredited lab.
- 7) The firm shall report compliance of the NOC conditions online in the website (www.cgwa-noc.gov.in) within one year from the date of issue of this NOC.
- 8) Industries abstracting ground water in excess of 100 m³/d shall undertake annual water audit through certified auditors and submit audit reports within three months of completion of the same to CGWA. All such industries shall be required to reduce their ground water use by at least 20% over the next three years through appropriate means.
- 9) Application for renewal can be submitted online from 90 days before the expiry of NOC. Ground water withdrawal, if any, after expiry of NOC shall be illegal & liable for legal action as per provisions of Environment (Protection) Act, 1986.
- 10) This NOC is subject to prevailing Central/State Government rules/laws/norms or Court orders related to construction of tube well/ground water abstraction structure / recharge or conservation structure/discharge of effluents or any such matter as applicable.

General conditions:

- 11) No additional ground water abstraction and/or de-watering structures shall be constructed for this purpose without prior approval of the Central Ground Water Authority (CGWA).
- 12) The proponent shall seek prior permission from CGWA for any increase in quantum of groundwater abstraction (more than that permitted in NOC for specific period).
- 13) Proponents shall install roof top rain water harvesting in the premise as per the existing building bye laws in the premise.
- 14) The project proponent shall take all necessary measures to prevent contamination of ground water in the premises failing which the firm shall be responsible for any consequences arising thereupon.
- 15) In case of industries that are likely to contaminate the ground water, no recharge measures shall be taken up by the firm inside the plant premises. The runoff generated from the rooftop shall be stored and put to beneficial use by the firm.
- 16) Wherever feasible, requirement of water for greenbelt (horticulture) shall be met from recycled / treated waste water.
- 17) Wherever the NOC is for abstraction of saline water and the existing wells (s) is /are yielding fresh water, the same shall be sealed and new tubewell(s) tapping saline water zone shall be constructed within 3 months of the issuance of NOC. The firm shall also ensure safe disposal of saline residue, if any.
- 18) Unexpected variations in inflow of ground water into the mine pit, if any, shall be reported to the concerned Regional Director, Central Ground Water Board.
- 19) In case of violation of any NOC conditions, the applicant shall be liable to pay the penalties as per Section 16 of Guidelines.
- 20) This NOC does not absolve the proponents of their obligation / requirement to obtain other statutory and administrative clearances from appropriate authorities.
- 21) The issue of this NOC does not imply that other statutory / administrative clearances shall be granted to the project by the concerned authorities. Such authorities would consider the project on merits and take decisions independently of the NOC.
- 22) In case of change of ownership, new owner of the industry will have to apply for incorporation of necessary changes in the No Objection Certificate with documentary proof within 60 days of taking over possession of the premises.
- 23) This NOC is being issued without any prejudice to the directions of the Hon'ble NGT/court orders in cases related to ground water or any other related matters.
- 24) Proponents, who have installed/constructed artificial recharge structures in compliance of the NOC granted to them previously and have availed rebate of upto 50% (fifty percent) in the ground water abstraction charges/ground water restoration charges, shall continue to regularly maintain artificial recharge structures.
- 25) Industries which are likely to cause ground water pollution e.g. Tanning, Slaughter Houses, Dye, Chemical/ Petrochemical, Coal washeries, pharmaceutical, other hazardous units etc. (as per CPCB list) need to undertake necessary well head protection measures to ensure prevention of ground water pollution as per Annexure III of the guidelines.
- 26) In case of new infrastructure projects having ground water abstraction of more than 20 m³/day, the firm/entity shall ensure implementation of dual water supply system in the projects.
- 27) In case of infrastructure projects, paved/parking area must be covered with interlocking/perforated tiles or other suitable measures to ensure groundwater infiltration/harvesting.
- 28) In case of coal and other base metal mining projects, the project proponent shall use the advance dewatering technology (by construction of series of dewatering abstraction structures) to avoid contamination of surface water.
- 29) The NOC issued is conditional subject to the conditions mentioned in the Public notice dated 27.01.2021 failing which penalty/EC/cancellation of NOC shall be imposed as the case may be.
- 30) This NOC is issued subject to the clearance of Expert Appraisal Committee (EAC) (if applicable).
- 31) In the self-compliance report, the PP shall submit details of Drilling Agency/ Agencies, which has/ have constructed BW(s)/ TW(s) along with undertaking to the effect that all necessary measures have been taken as per directions of Hon'ble Supreme Court provided in Annexure-VII of guidelines dated 24.09.2020 in respect of abandoned/ failed BW(s)/ TW(s)/Piezometer(s), if any. The PP is advised to engage registered drilling agency/ agencies. In the event of any mishap/ unfortunate incident due to negligence in taking measures for prevention of accident due to falling in Bore Well, both PP and concerned drilling agency shall jointly be held responsible and penal action as per extant Government rules shall be taken.

(Non-compliance of the conditions mentioned above is likely to result in the cancellation of NOC and legal action against the proponent.)

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**

CENTRAL GROUND WATER AUTHORITY

Department of Water Resources, River Development and Ganga Rejuvenation
Ministry of Jal Shakti, Govt. of India

Receipt

(As per the MoJS guidelines dated 24.09.2020 vide SO No. 3289(E) and amendments dated 29.09.2023 vide SO No. 1509(E))
<https://cgwa-noc.gov.in>

Application No.:	21-4/5032/OR/IND/2023	Date of Issuance:06/02/2024
Name of Firm:	PATABALI COB PLANT OF M/S. FACOR LTD	
AppType Category:	Mineral Processing	
Application Type:	Industrial	
PAN/GSTIN No. of Firm/Individual:	AAACF1999A / 21AAACF1999A1Z3	

S N	Description	Amount (Rs.)
1.	Application Processing Fee	10000.00
2.	Ground Water Abstraction charges	
3.	Ground Water Restoration charges	
4.	Environmental Compensation Charges (ECRGW) (Date From to) Days-	
5.	Penalty for non-Compliance of NOC conditions Condition to be mentioned	10000.00
6.	Adjustment Charges	
7.	Rebate	
8.	Charges for correction/modification in the existing issued No Objection Certificate	
S.No.	Description	Rate
(i)	Change in User ID	Rs. 5000
(ii)	Change in firm Name	Rs. 5000
(iii)	Extension of No Objection Certificate	Rs. 5000
(iv)	Issuance of duplicate No Objection Certificate	Rs. 5000
(v)	Issuance of corrigendum to No Objection Certificate	Rs. 5000
(vi)	Any other items/correction etc.	
Rs. Rupees Three Lakh Seventy Four Thousand Fifty Only		374050.00

This is an system generated invoice, hence, does not require ink signed.

Term and conditions:

- i. All disputes are subject to Delhi Jurisdiction.
- ii. Any complaint in regard to the rates will not be entertained.

Member-Secretary
CGWA, New Delhi

CENTRAL GROUND WATER AUTHORITY

Health, Safety & Environment Policy**Document No: HSES/POL-01**

We are committed to achieving excellence in Occupational Health, Safety and Environment (HSE) management.

The policy applies to all Vedanta subsidiaries, operations and managed sites, including new acquisitions, corporate offices and research facilities and to all new and existing employees and contractor employees, business partners suppliers and consultants who should be required to comply with the policy when they act on behalf of Vedanta. This Policy is applicable to the entire operational lifecycle (including exploration and planning, evaluation, operation, and closure) as well as applicable to downstream operations (including distribution, logistics, and sale of products & services up to the customer).

Vedanta will:

- Comply with applicable national, regional, and local HSE regulations and statutory obligations, in the absence (or lack) of appropriate legislation, industry best practices and applicable international standards will be used;
- Develop, implement, and improve HSE management systems, with our commitments and beliefs and consistent with world-class standards;
- Set targets and objectives to avoid, reduce or mitigate HSE related impacts on people and planet;
- Continuously monitor performance, identify, prioritize, assess and take actions to mitigate HSE risks and opportunities;
- Drive continuous HSE improvement through setting and reviewing targets using appropriate best available practices and providing all employees with appropriate training to understand the impacts of their work activities on the environment;
- Promote a positive HSE culture through effective communication, participation and consultation with employees and business partners;
- Communicate with all our stakeholders on the progress and performance of Health, Safety, Environment and Sustainability management;
- Prevent injury and ill-health to employees and business partners by eliminating hazards and providing a safe and healthy work environment and minimizing the risks associated with occupational hazards;
- Drive positive healthcare outcomes for our employees, business partners and the local community;
- Implement regular health surveillance and risk-based exposure monitoring of employees and ensure the participation and consultation of workers, and their representatives (when applicable) in the decision-making process for Occupational Health and Safety matters;
- Conserve natural resources by adopting environment-friendly and energy-efficient technologies and through process improvements;
- Manage waste from our operations and adopt the principles of waste avoidance, reuse, recycling and beneficial utilization to minimize discharge and disposal to the environment;
- Consistently assess our climate-related risk, manage our emissions, take appropriate mitigation and adaptation measures and communicate our climate strategy to our stakeholders;
- Ensure that all tailings storage facilities are designed, constructed, operated and closed in compliance with all applicable laws and regulations and in alignment with accepted international practice;
- Work with employees and local community representatives to educate them on the nature of our impacts, how we manage them, our environmental obligations, and our performance;
- Raise awareness and train employees, business partners, suppliers and other stakeholders to adopt principles and practices in alignment with our policies;

The Policy is part of the Vedanta Sustainability Framework and each Vedanta business shall implement this policy and its related technical and performance standards. This policy is oversighted by Vedanta Board of Directors. Business leaders will be held accountable for HSE performance and line managers are responsible for the full implementation of the HSE related standards. We will measure and report performance on a periodic basis to ensure on-going management of health, safety, and environment including the sharing of good practices throughout the Vedanta organization. The content and implementation of this policy will be reviewed periodically.

Vedanta sustainability policies:

<https://www.vedantalimited.com/Pages/VSFDocuments.aspx>

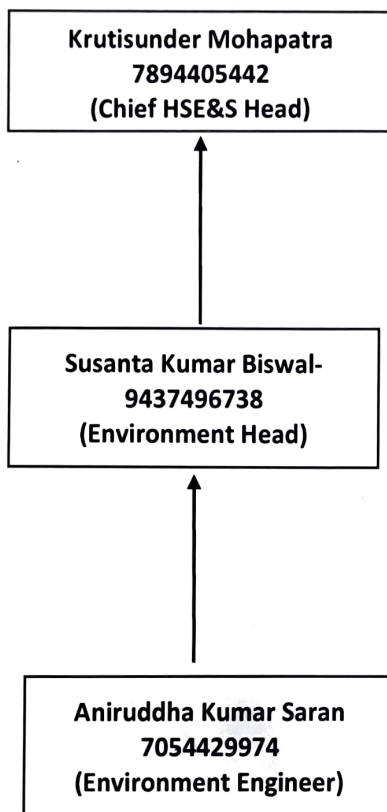
Date: June 2022



Mr Sunil Duggal
Chief Safety Officer & Group CEO

Annexure 5

Organizational Chart of Environment Management Cell
Patabali COB Plant



Annexure 6

OCM/PATABALI/ENV/451/2024

Date: 29.05.2024

ACTION PLAN FOR IMPLEMENTATION OF EMP WITH RESPONSIBILITY MATRIX PATABALI COB PLANT, M/s FACORLTD				
CATEGORY	REF	KPI	ACTION PLAN	RESPONSIBILITY
Prevention of AIR , WATER , LAND & NOISE Pollution	EIA: Chapter: 4.2 (Impact of the Project)	Prevention Of Air Pollution	Wheel washing system to be installed	Head Engineering
			Provision of adequate PPE to employees like dust mask etc.	Head Engineering
			Regular water sprinkling will be done to avoid the dust emission into the atmosphere.	Head Engineering
			Dust emissions due to vehicles can be minimized by avoiding spillage from the loaded trucks.	Head Logistics
			The excavated material shall be reused within the project boundary and the movement of cut and fill material will be limited.	Head Civil
	EIA: Chapter: 4.2 (Impact of the Project)	Prevention Of Water Pollution	For treatment of domestic waste water one number of STP will be added	Head Environment
			ETP will be provided to treat the wastewater. The ETP will help to oxidize Hexavalent chromium to Trivalent chromium .	Head Engineering
			Impervious lining in the tailing storage yard to prevent contamination of soil	Head Engineering
			Garland drains will be constructed to collect the run-off water and the same will be drained down to re-circulation pond	Head Civil
			Rainwater Harvesting will be implemented	Head Environment
			The waste water generated through beneficiation process will be recycle and reused	Head Engineering
	EIA: Chapter: 4.2 (Impact of the Project)	Prevention Of Noise Pollution	Using a rubber liner bonded to the inner surface in the grinding unit.	Head Engineering
			Using noise barriers and total acoustic enclosures to block and reduce the flow of the sound energy before it reaches the receiver	Head Electrical

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Sensitivity Internal (C3)

			Noise from DG set shall be controlled by providing an acoustic enclosure	Head Electrical
			Implementation of an effective planned preventive maintenance checklist, which reduces noise level by more than 50%	Head Engineering
			Periodic monitoring of noise levels will be done to assess the efficacy of noise control measures	Head Environment
			Use of synthetic screen surface, rubber and polyurethane effectively reduce noise level while offering exceptional resistance to abrasion.	Head Engineering
			Speed limit of 20KM/hr will be followed inside plant premises	Head Safety
	EIA: Chapter: 4.2 (Impact of the Project)	Prevention of Land Pollution	The tailing generated will be stored in the tailing storage yard with an impervious layer so that no leaching of hexavalent chromium to soil and groundwater	Head Engineering
			There will be an erection of a retaining wall of 1m height so that no wash off will pass out of the tailing storage yard.	Head Civil
Ecological Management	EIA: Chapter: 4.2 (Impact of the Project)	Ecological Environment Safeguard	A planned 2 year afforestation scheme shall be developed to cover 33% i.e, (7.24 Ac) of the project area with 2500 saplings/Ha	Head Environment
			The maintenance such as suitable fencing, watering, replacement of dead plants etc. shall be done for better survival rate	Head Environment
			Dust suppression shall be done by regular water sprinkling to minimize the impact on plants.	Head Engineering
Solid Waste Management	EIA: Chapter: 4.2 (Impact of the Project)	Prevention Of Soil Erosion/ Contamination	Also Filter-press will be used to compress the tailings to segregate water and solid(In cake form). These filter cakes will be temporarily stored in stacked form and ultimately shall be reused in backfilling or bricks making or if any others as per requirement or SPCB authorized agency	Head Engineering
			Soil samples will be collected and tested at regular intervals from the nearby areas. This will help in mitigation of any harmful impact on soil due to the project activity, if any.	Head Environment

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Sensitivity: Internal (C3)

			Temporary storing in designated area of and shall be transfer after drying for backfilling of mine void/reclamation, if any alternative use found after proper scientific study carried out by reputed scientific agency and disperse through SPCB authorized agency	Head-Engineering & Head-Environment																																								
Socio-Economic	EIA: Chapter 7 (Additional Studies)	Provision Social Security	<table border="1"> <tr> <th>Issues</th> <th colspan="3">Cost in Lakhs for First 3 Year</th> </tr> <tr> <td>Education</td> <td>5</td> <td>3</td> <td>3</td> </tr> <tr> <td>Health</td> <td>15</td> <td>10</td> <td>10</td> </tr> <tr> <td>Women Empowerment</td> <td>8</td> <td>8</td> <td>8</td> </tr> <tr> <td>Air Water & Noise Pollution Control Measures</td> <td>159</td> <td>10</td> <td>10</td> </tr> <tr> <td>Water Conservation</td> <td>100</td> <td>8</td> <td>8</td> </tr> <tr> <td>Local Employed</td> <td>2</td> <td>2</td> <td>2</td> </tr> <tr> <td>Solid Waste Management</td> <td>14</td> <td>10</td> <td>10</td> </tr> <tr> <td>Local Area Development</td> <td>2</td> <td>2</td> <td>2</td> </tr> <tr> <td>Total</td> <td>305</td> <td>53</td> <td>53</td> </tr> </table>	Issues	Cost in Lakhs for First 3 Year			Education	5	3	3	Health	15	10	10	Women Empowerment	8	8	8	Air Water & Noise Pollution Control Measures	159	10	10	Water Conservation	100	8	8	Local Employed	2	2	2	Solid Waste Management	14	10	10	Local Area Development	2	2	2	Total	305	53	53	Head CSR
Issues	Cost in Lakhs for First 3 Year																																											
Education	5	3	3																																									
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Solid Waste Management	14	10	10																																									
Local Area Development	2	2	2																																									
Total	305	53	53																																									
Safety & Disaster Management	EIA: Chapter 7 (Additional Studies)	For Mitigation Measures Responding To And Recovering From An Emergency	Preparation of Emergency Response Plan and implementation	Head Safety																																								
			Preparation of HIRA for the Project	Head Safety																																								
			Preparation and Implementation of Disaster Management Plan	Head Safety																																								

Note: All the EMP requirement will be implemented after commencement of COB Plant.

[Signature]
23 Head O&M
29.05.24

AUTHORIZED SIGNATORY
PATABALI COB PLANT
M/s FACOR LTD

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Sensitivity Internal (C3)

OCM/PATABALI/ENV/452/2024

Date: 29.05.2024

ACTION PLAN FOR IMPLEMENTATION OF EC CONDITION AT PATABALI COB PLANT

(A) SPECIFIC CONDITIONS:			
S.NO	CONDITION	ACTION PLAN	RESPONSIBILITY
(i)	The wastewater that will be generated from the tailings shall be treated in ETP wherein hexavalent Chromium shall be reduced to trivalent Chromium by dosing it with appropriate standard chemical following due technical procedure.	Assured to Comply that the waste water generated from the Tailings shall be treated in ETP after commencement of the COB Plant.	HEAD ENGINEERING
(ii)	The PP shall obtain NOC to use the Panchayat roads from the concerned BDO for transportation of both input materials and finished products including the responsibility of maintaining the road if damaged by such transportation.	Complied NOC has already been granted by the concerned BDO. Copy attached as Annexure-.1	HEAD ENVIRONMENT
(iii)	As the PP will implement the dry stacking of tailings, there will be trickling down of effluent. Also, during rain, the leached effluent from stack will trickling down. PP shall ensure collection of these effluents for treatment with routine analysis to ensure satisfying the standard before it is discharged. All data shall be kept for periodical compliances	Assured to implement Dry Stacking of Tailings and ensure collection of effluents for treatment with routine analysis after commencement of the COB Plant.	HEAD ENVIRONMENT
(iv)	The PP shall make all efforts to adopt ZLD.	Assured to make all efforts to adopt ZLD after commencement of the COB Plant.	HEAD ENVIRONMENT
(B) Standard Condition			
1. Statutory Compliance			
S.NO	CONDITION	ACTION PLAN	RESPONSIBILITY
(i)	The project proponent shall obtain forest clearance under the provisions of Forest(Conservation) Act, 1986, in case of the diversion of forest land for non-forest purpose involved in the project.	Not Applicable, Since no forest land is involved inside the project area.	HEAD ENVIRONMENT
(ii)	The project proponent shall obtain clearance from the National Board for Wildlife, if applicable	Not Applicable	HEAD ENVIRONMENT
(iii)	The project proponent shall prepare a Site-Specific Conservation Plan Wildlife Management Plan and approved by the Chief Wildlife Warden. The recommendations of the approved Site-Specific Conservation Plan / Wildlife Management Plan shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six monthly compliance report, (in case of the presence of schedule-I species in study area).	Not Applicable as there is no schedule -I species.	HEAD ENVIRONMENT

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(iv)	The project proponent shall obtain Consent to Establish / Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water(Prevention & Control of Pollution) Act, 1974 from the concerned State study area)	<p>Complied</p> <p>Consent to Establish has obtained Dtd. 02.04.2024 vide file no. 4881/IND-II-CTE-7038.</p> <p>Before commencement of production, CTO will be obtained.</p> <p>CTE attached as Annexure - 2</p>	HEAD ENVIRONMENT
(v)	The project proponent shall obtain the necessary permission from the Central Ground Water Authority and other concerned authority, in case of drawl of ground water / from the competent authority concerned in case of drawl of surface water required for the project.	<p>Complied</p> <p>CGWA NOC has been obtained vide NOC no CGWA/NOC/IND/ORIG/2024/19862 dtd. 06.02.2024.</p> <p>The CGWA NOC is attached as Annexure - 3</p>	HEAD ENVIRONMENT
(vi)	The project proponent shall obtain authorization under the Hazardous and other Waste Management Rules, 2016 as amended from time to time.	Assured that authorization under the Hazardous and other Waste Management Rules, 2016 shall be obtained before commencement of COB Plant.	HEAD ENVIRONMENT
AIR QUALITY MONITORING AND PREVENTION			
S.NO	CONDITION	ACTION PLAN	RESPONSIBILITY
(i)	The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through labs recognized under Environment (Protection) Act, 1986.	Assured to monitor fugitive emissions in the plant premises after commencement of COB Plant.	HEAD ENVIRONMENT
(ii)	The project proponent shall submit monthly summary report of continuous stack emission and air quality monitoring and results of manual stack monitoring and manual monitoring of air quality /fugitive emissions to Regional Office of MoEF&CC, Zonal office of CPCB and Regional Office of SPCB along with six- monthly monitoring report.	Assured to Comply this condition.	HEAD ENVIRONMENT
(iii)	Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources, so as to comply prescribed stack emission and fugitive emission standards	Assured to provide Appropriate Air Pollution (APC) for all the dust generating points of the COB Plant.	HEAD ENVIRONMENT
(iv)	The project proponent use leak proof trucks/dumpers carrying ore and other raw materials and cover them with tarpaulin.	Assured to Comply this condition after commencement of the COB Plant	HEAD ENGINEERING
(v)	Wind shelter fence and chemical spraying shall be provided on the raw material stock piles.	Assured to provide shelter fence and chemical spraying shall be provided on the raw material stockpiles after commencement of the Plant.	HEAD MECHANICAL

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(vi)	Design the ventilation system for adequate air changes as per ACGIH document for all tunnels, motor houses, Oil Cellars.	Assured to Design the ventilation system for adequate air changes as per ACGIH document for all tunnels after commencement of the Plant.	HEAD ENGINEERING
(vii)	The project proponent shall carry out conditioning of the ore with water to mitigate fugitive dust emission, without affecting flow of ore in the ore processing and handling areas.	Assured To Comply this condition after commencement of COB Plant	HEAD ENGINEERING
(viii)	Effective safeguard measures such as regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of air pollutants such as haul road, loading and unloading point and transfer points. It shall be ensured that the Ambient Air Quality parameters conform to the National ambient air quality standards.	Assured To Comply this condition after commencement of COB Plant.	HEAD ENVIRONMENT
(ix)	The transportation of mineral shall be carried out through the covered trucks Vehicular emissions shall be kept under control and regularly monitored. Measures shall be taken for maintenance of vehicles used in beneficiation operations and in transportation of ore to the beneficiation plant. The vehicles carrying the mineral shall not be overloaded.	Assured to Comply this condition during transportation of minerals.	HEAD LOGISTICS
(x)	Mineral handling area shall be provided with adequate number of high efficiency dust extraction system. Loading and unloading areas including all the transfer points should also have efficient dust control arrangements. These should be properly maintained and operated.	Assured to Comply this condition after commencement of COB Plant	HEAD LOGISTICS
(xi)	Occupational health surveillance program of the workers shall be undertaken periodically to observe any contractions due to exposure to dust and take corrective measures, if needed. Health records of the workers shall be maintained	Assured to Comply this condition after commencement of COB Plant	DOCTOR
(xii)	Regular Ambient Air Quality Monitoring shall be carried out. The monitoring stations will be set up in consultation with the SPCB. At least four ambient air quality monitoring stations shall be established in the downward direction as well as where maximum ground level concentration of PM2.5, PM10, SO2 and NOx are anticipated in consultation with the State Pollution control Board. It will be ensured that at least one monitoring station is set up in up-wind & in down-wind direction along with those in other directions. The instruments used for ambient air quality monitoring shall be calibrated regularly.	Assured to carried out Regular Ambient Air Quality Monitoring in the plant. And in consultation with SPCB, monitoring stations will be installed.	HEAD ENVIRONMENT

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(xiii)	Data on ambient air quality (PM2.5, PM10, SO2, NOx) shall be regularly submitted to the Ministry including its Regional office located at Bhubaneswar and the State Pollution Control Board/Central Pollution Control Board once in six months.	Assured to Comply this condition after commencement of COB Plant	HEAD ENVIRONMENT
II. WATER QUALITY MONITORING & PREVENTION			
S.NO	CONDITION	ACTION PLAN	RESPONSIBILITY
(i)	The project proponent shall monitor regularly ground water quality at least twice a year (pre and post monsoon) at sufficient numbers of piezometers/sampling wells in the plant and adjacent areas through labs recognized under Environment (Protection) Act, 1986 and NABL accredited laboratories.	Assured to monitor ground water quality regularly at least twice a year.	HEAD ENVIRONMENT
(ii)	Sewage Treatment Plant shall be provided for treatment of domestic wastewater to meet the prescribed standards	Assured to provide Sewage Treatment Plant before commencement of plant operation.	HEAD ENVIRONMENT
(iii)	Garland drains and collection pits shall be provided for each stock pile to arrest the runoff in the event of heavy rains and to check the water pollution due to surface run off.	Assured To Comply this condition after commencement of COB Plant.	HEAD CIVIL
(iv)	The project proponent shall practice rainwater harvesting to maximum possible extent.	Assured To Comply this condition after commencement of COB Plant.	HEAD CIVIL
(v)	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.	Assured To Comply this condition.	HEAD ENGINEERING
(vi)	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.	Assured To Comply this condition after commencement of COB Plant.	HEAD ENGINEERING
(vii)	The garland drain shall be constructed around the tailing pond before the starting operation on the project	Assured To Comply this condition after commencement of COB Plant.	HEAD ENGINEERING
(viii)	The decanted water from the tailing pond shall be re-circulated and there should be zero discharge from the tailing pond.	It is ensured that the same practices will be followed during the operation of COB Plant.	HEAD ENGINEERING
(ix)	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.	It is already planned & covered in the project planning.	HEAD ENGINEERING
(x)	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 collected shall be utilized for watering the roads, green belt development etc. The drains shall be regularly desilted particularly after monsoon and maintained properly.	Assured To Comply this condition after commencement of COB Plant.	HEAD CIVIL

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(xi)	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.	Assured To Comply this condition after commencement of COB Plant.	HEAD ENVIRONMENT
(xii)	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.	Assured To Comply this condition after commencement of COB Plant.	HEAD ENVIRONMENT
(xiii)	Adhere to "Zero Liquid Discharge".	Assured To Comply this condition after commencement of COB Plant.	HEAD ENVIRONMENT
(xiv)	Regular monitoring of water quality for surface water sources as well as groundwater sources shall be carried out. The groundwater shall be monitored downstream of beneficiation plant as well as tailing pond upto ground water table and record of monitoring data should be maintained and submitted on six monthly basis to the Ministry of Environment and Forests, its Regional Office, Bhubaneswar, the Central Ground Water Authority, the Regional Director Central Ground Water Board and the State Pollution Control Board.	Assured To Comply this condition after commencement of COB Plant.	HEAD ENVIRONMENT
(xv)	Suitable rainwater harvesting measures on long term basis shall be planned and implemented in consultation with the Regional Director, Central Ground Water Board.	Assured To Comply this condition after commencement of COB Plant.	HEAD ENVIRONMENT
(xvi)	Appropriate mitigative measures shall be taken to prevent pollution of the nearby surface water source in consultation with the State Pollution control Board	Assured To Comply this condition after commencement of COB Plant.	HEAD ENVIRONMENT
III. NOISE MONITORING AND PREVENTION			
(i)	Noise level survey shall be carried as per the prescribed guidelines and report in this regard shall be submitted to Regional Office, MoEF&CC, Govt. of India, Bhubaneswar as well as SEIAA, Odisha as a part of six-monthly compliance report.	Assured To Comply this condition after commencement of COB Plant.	HEAD ENVIRONMENT
(ii)	The ambient noise levels should conform to the standards prescribed under E(P)A Rules, 1986 viz. 75 dB(A) during day time and 70 dB(A) during night time	Assured To Comply this condition after commencement of COB Plant.	HEAD ENVIRONMENT
IV. ENERGY CONSERVATION MEASURES			
S.NO	CONDITION	ACTION PLAN	RESPONSIBILITY
(i)	Provide solar power generation on roof tops of buildings, for solar light system for all common areas, street lights, parking around project area and maintain the same regularly;	Assured To Comply this condition.	HEAD ENVIRONMENT
(ii)	Provide LED lights in their offices and residential areas	It is already planned to use the same.	HEAD ENVIRONMENT

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V. WASTE MANAGEMENT			RESPONSIBILITY
S.NO	CONDITION	ACTION PLAN	
(i)	The waste oil, grease and other hazardous waste shall be disposed of as per the Hazardous & Other waste (Management & Transboundary Movement) Rules, -2016	Assured To Comply this condition as per Hazardous waste Rule & Regulation.	HEAD ENVIRONMENT
(ii)	Kitchen waste shall be composted or converted to biogas for further use. (/o be decided on case to case basis depending on type and size of plant.	Assured To Comply this condition.	HEAD ENVIRONMENT
(iii)	Separate impervious concrete pits for disposal of sludge shall be provided for the safe disposal of sludge generated from the beneficiation operation.	Assured To Comply this condition during Operation of COB Plant.	HEAD ENVIRONMENT
VI. GREEN BELT AND EMP			RESPONSIBILITY
S.NO	CONDITION	ACTION PLAN	
(i)	Green belt shall be developed in an area equal to 33% of the plant area with a native tree species in accordance with CPCB guidelines. The greenbelt shall inter alia cover the entire periphery of the plant	Assured to Comply. It is already planned. Greenbelt work will be started during the Monsoon of the FY 2024-25.	HEAD ENVIRONMENT
(ii)	The project proponent shall prepare GHG emissions inventory for the plant and shall submit the programme for reduction of the same including carbon sequestration including plantation.	Assured To Comply this condition after commencement of COB Plant.	HEAD ENVIRONMENT
(iii)	Plantation shall be raised all around the beneficiation plant site and the tailing pond around the plant, tailing disposal area, roads etc. by planting the native species in consultation with the local DFO/ Agriculture Department	Assured To Comply this condition after commencement of COB Plant.	HEAD ENVIRONMENT
VII. HUMAN HEALTH ISSUES			RESPONSIBILITY
S.NO	CONDITION	ACTION PLAN	
(i)	Emergency preparedness plan based on the Hazard Identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.	Assured To Comply this condition after commencement of COB Plant.	HEAD SAFETY
(ii)	The project proponent shall carry out heat stress analysis for the workmen who work in high temperature work zone and provide Personal Protection Equipment (PPE) as per the norms of Factory Act.	Assured To Comply this condition after commencement of COB Plant.	HEAD SAFETY
(iii)	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile. a) STP, safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	All the labour will be sourced from the local area , so there is no requirement housing within the site.	HEAD SAFETY
(iv)	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act	Assured To Comply this condition after commencement of COB Plant.	HEAD SAFETY

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VIII. CORPORATE ENVIRONMENT RESPONSIBILITY			
S.NO	CONDITION	ACTION PLAN	RESPONSIBILITY
(i)	The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-1 A.III dated 1st May 2018, as applicable, regarding Corporate Environment Responsibility.	Assured To Comply this condition after commencement of COB Plant.	HEAD CSR
(ii)	The company shall have a well-laid environmental policy duly approve by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balance and to bring into focus any infringements/deviation/violation of the environmental / forest /wildlife norms/ conditions. The company shall have defined system of reporting in-fringements/deviation/violation of the environmental/forest/wildlife norm, conditions and / or shareholders / stake holders. The copy of the board resolution in this regard shall be submitted to the Regional Office, MoEF&CC, Govt. of India, Bhubaneswar as well as SEIAA, Odisha as a part of six-monthly report.	The company has a well-laid Environmental Policy. All the requirements will be taken care of. HSE Policy is enclosed as Annexure No.- 4	HEAD ENVIRONMENT
(iii)	A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization	Complied Environment Management Cell is set up as required. Copy of the Environment Management Cell is enclosed as Annexure No- 5	HEAD ENVIRONMENT
(iv)	Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Regional Office, MoEF & CC, Govt. of India, Bhubaneswar as well as SEIAA, Odisha along with the Six Monthly Compliance Report	It is under process. Assured To Comply this condition. It is attached as Annexure No-6	HEAD ENVIRONMENT
(v)	Self-environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.	Assured To Comply this condition after commencement of COB Plant.	HEAD ENVIRONMENT
(vi)	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 this condition after commencement of COB Plant.	HEAD ENVIRONMENT

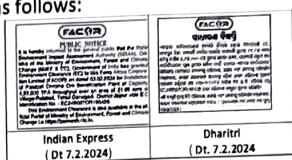
M/s. Ferro Alloys Corporation Ltd. (A subsidiary of Vedanta Ltd.)

Registered Office:

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

IX. Half-yearly Compliance Report			
(i)	It shall be mandatory for the project management to submit half yearly compliance reports on the status of implementation of the above stipulated environmental safeguards to the SEIAA, Odisha / Regional Office of the MoEF & CC, Bhubaneswar upload in Parivesh Portal on 1 day of June and December of each calendar year. The proponent shall also upload the compliance report including results of monitored data, as applicable in the website of the Ministry for monitoring of EC Conditions, failing which EC is liable to be revoked.	Complied	HEAD ENVIRONMENT
X.MISCELLANEOUS			RESPONSIBILITY
S.NO	CONDITION	ACTION PLAN	
(i)	The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently.	Complied. It is published in the two News paper as follows:  And the EC is also displayed in the website : www.facorgroup.in Link EC-Patabali-COB.pdf (facor-group.in)	HEAD ENVIRONMENT
(ii)	The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.	Complied . The Copies of EC has been submitted to mentioned governed bodies . The details of receiving letter has been attached as Annexure - 7	HEAD ENVIRONMENT
(iii)	The project proponent shall upload the status compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.	Complied	HEAD ENVIRONMENT
(iv)	The construction and demolition wastes to be generated from the proposed project shall be disposed of in accordance with the provision under "Construction& Demolition Wastes Management Rules 2016"	The construction and demolition wastes to be generated from the proposed project shall be disposed of in accordance with the provision under "Construction& Demolition Wastes Management Rules 2016"	HEAD ENGINEERING
(v)	The project proponent shall monitor the criteria pollutants level namely; PM10,SO2, NOx (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company.	Assured To Comply this condition after commencement of COB Plant.	HEAD ENVIRONMENT

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(vi)	The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.	Complied.	HEAD ENVIRONMENT
(vii)	The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website -of the company	Assured To Comply this condition after commencement of COB Plant.	HEAD ENVIRONMENT
(viii)	The project proponent shall inform the Regional Office, MoEF&CC, Govt. of India, Bhubaneswar as well as SEIAA, Odisha the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project	Complied. Date of Financial closure & Final Approval is 12.05.2023 Land development work is not started yet. On completion & starting of operation, it will be communicated.	HEAD FINANCE
(ix)	The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government	Agreed & ensured the same.	HEAD LEGAL
(x)	The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report and also that during their presentation to the State Level Expert Appraisal Committee.	Agreed. Assured To Comply this condition.	HEAD ENVIRONMENT
(xi)	No further expansion or modifications in the plant shall be carried out without prior approval of the SEIAA, Odisha.	It is ensured herewith, without prior approval there will be no expansion or modification.	HEAD LEGAL
(xii)	Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986. The SEIAA, Odisha may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	Agreed & ensured to comply as per the rule & regulation.	HEAD LEGAL
(xiii)	The SEIAA, Odisha may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	It is assured to comply the same as per requirement & satisfaction.	HEAD LEGAL
(xiv)	The SEIAA, Odisha reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.	Agreed & ensured to comply all the requirement I in time.	HEAD LEGAL
(xv)	The Regional Office, MoEF&CC, Govt. of India, Bhubaneswar shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.	Agreed & Assured to extend full co-operation.	HEAD LEGAL

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(xvi)	The above conditions shall 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, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter	Assured to Comply.	HEAD LEGAL
(xvii)	Any appeal against this EC 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	-	HEAD LEGAL

Adms
By Head O&M
29.05.24

AUTHORIZED SIGNATORY
PATABALI COB PLANT
M/S FACOR LTD

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

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

Annexure 7

OCM/PATABALI/ENV/186/2024

Date:28.02.2023

To

1. The Collector & District Magistrate,
Dist., Jajpur, Odisha
- ✓ 2. The Block Development Officer,
Danagadi, Jajpur
3. The Sarapanch,
Deulakan Grama Panchayat

Sub: Intimation regarding Grant of Environmental Clearance (EC) by SEIAA, Odisha under the provision of EIA of ELA Notification-2006 for Installation of Patabali COB Plant of Capacity 4,95,000 TPA throughput at Village-Patabali Tehsil -Dapagadi District-Jajapur. Odisha of Mis Ferro Alloys Corporation Ltd.

Ref.: EC Identification No.: EC24B007OR195428, dated 03.02.2024

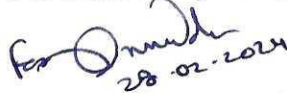
Respected Sir,

With reference to the subject cited above we would like to intimate your good office vide this letter that State Environment Impact Assessment Authority (SIEAA), Odisha coming under the Ministry of Environment, Forest and Climate Change, Government of India has granted the Environmental Clearance (EC) to Patabali COB Plant of M/s Ferro Alloys Corporation Limited (M/s FACOR LTD) Vide EC identification No. EC24B007OR195428, dated 03.02.2024 This EC is also available in the official portal of the Ministry of Environment, Forest and Climate Change, Government of India is <http://environmentalclearance.nic.in>

In compliance to the specific Condition No. X. Miscellaneous (iii), we are herewith submitting the copy of the Environment Clearance for your kind perusal.

Thanking You

Yours faithfully,
For Ferro Alloys Corporation Ltd.


28.02.2024

Head Environment
Patabali COB Plant

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

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OCM/PATABALI/ENV/186/2024

Date:28.02.2023

To,

**1. The Collector & District Magistrate,
Dist., Jajpur. Odisha****2. The Tahasildar, Danagadi, Jajput****3. The Sarapanch, Deulakan Grama Panchayat**

Sub: Intimation regarding Grant of Environmental Clearance (EC) by SEIAA, Odisha under the provision of EIA of ELA Notification-2006 for Installation of Patabali COB Plant of Capacity 4,95,000 TPA throughput at Village-Patabali Tehsil -Dapagadi District-Jajapur. Odisha of Mis Ferro Alloys Corporation Ltd

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Thanking You

Yours faithfully, for Ferro Alloys Corporation LTD

For [Signature] 28.02.2024
Head Environment
Patabali COB Plant

Received
04/03/2024

**M/s. Ferro Alloys Corporation Ltd. (A subsidiary of Vedanta Ltd.)****Registered Office:**

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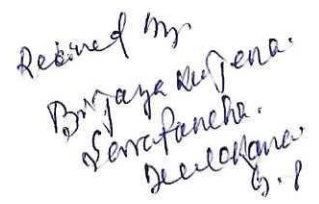
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In compliance to the specific Condition No. X. Miscellaneous (iii), we are herewith submitting the copy of the Environment Clearance for your kind perusal.

Thanking You

Yours faithfully, for Ferro Alloys Corporation LTD


28.02.2024**Head Environment
Patabali COB Plant**
Deulakan G.P.**M/s. Ferro Alloys Corporation Ltd. (A subsidiary of Vedanta Ltd.)****Registered Office:**

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Susanta Biswal

From: Susanta Biswal
Sent: Monday, March 4, 2024 9:09 PM
To: Mr Chakravarti Singh Rathore
Cc: Krutisunder Mohapatra
Subject: Intimation regarding Grant of Environmental Clearance (EC) by SEIAA for Installation of Patabali COB Plant at Village:- Patabali Tehsil:-Danagadi,District:- Jajapur , Odisha of M/s Ferro Alloys Corporation Ltd (M/s FACOR LTD)
Attachments: EC Patabali COB Plant_ FACOR.pdf

Ref.: EC Identification No.: EC24B007OR195428, dated 03.02.2024

Respected Sir,

With reference to the subject cited above we would like to intimate your good office that State Environment Impact Assessment Authority (SIEAA), Odisha coming under the Ministry of Environment , Forest and Climate Change, Government of India has granted the Environmental Clearance (EC) under the provision of EIA of EIA Notification - 2006 for Installation of **Patabali COB Plant** of Capacity 4,95,000 TPA throughput at Village:- Patabali Tehsil:- Danagadi,District:- Jajapur , Odisha of M/s Ferro Alloys Corporation Ltd (M/s FACOR LTD) Vide EC identification No. EC24B007OR195428, dated 03.02.2024. This EC is also available in the official portal of the Ministry of Environment, Forest and Climate Change, Government of India i.e <http://environmentalclearance.nic.in>

In compliance to the specific Condition No. X. Miscellaneous (iii) of the mentioned EC , we are herewith submitting the copy of the Environment Clearance for your kind perusal & record, please.

Thanking You

With Regards
Head – Environment
Patabali COB Plant
M/s FACOR LTD