



KLCM/ENV/ 1335 /2022

Dated: 28.11.2023

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

Sub.: Submission of Six-monthly EC compliance report to the conditions stipulated in the grant order of Environmental Clearance (EC) pertaining to Kalarangiatta Chromite Mines of M/s FACOR LTD.

Ref.: MoEF EC Letter No.: J-11015/183/2007-IA II(M) dtd.13.05.2009

Dear Sir,

With reference to the captioned subject & cited reference, we are herewith submitting six monthly compliance reports pertaining to Kalarangiatta Chromite Mines of M/s FACOR Ltd for the period from Apr'2023 to Sept'2023 for your kind perusal.

This is for your Kind Perusal.

Thanking You

Yours faithfully, for Ferro Alloys Corporation LTD

MINES MANAGER

Encl.: A/a

Name of the Project	: Kalarangiatta Chromite Mines, M/s. FACOR Ltd.
Project Code	: Mining (Non-Coal)
Clearance Letter No. with date	: J-11015/183/2007-IA-II (M) dated.13-05-2009
Period of Compliance Report	: April 2023 to September 2023
Specific Condition	

Sl. No.	Condition	Compliance Status
	All the conditions stipulated by the State Pollution control Board, Odisha in their consent to establish shall be effectively implemented.	Complied. All stipulated conditions are being effectively implemented. The Mining operation is under suspension as per the letter No. 593, dated 09.03.2023 issued by the Deputy Director of Mines, Jajpur Road Circle of Odisha. Hence there is no work in the Mines during the last Six monthly compliance period w.e.f April-2023 to Sept-2023.
2.	The environmental clearance is granted for opencast mining only. For the underground mining, the project proponent shall obtain separate clearance after getting the mine plan approval from the Indian Bureau of Mines.	Complied. We hereby ensured that before starting of underground mining we will obtain separate Environment Clearance after getting the mining plan approval from the Indian Bureau of Mines. Image: The Indian Bureau of Mines the Indian Bur
3.	The environmental clearance is subject to approval of the State Land purposes Dept. Govt. of Odisha for diversion of agricultural land for non-agricultural use.	Complied. The office of Collector Jajpur has already granted Surface Right to FACOR over the total lease land area of Kalarangiatta Chromite Mines for mining purpose.
4.	The Project proponent shall ensure that no natural watercourse and/or water resources are obstructed due to any mining operations. Adequate measures shall be taken for protection of Damsala Nallah and other seasonal channels, if any emanating from the mine lease, during the course of mining operation.	The Mining operation is under suspension as per the letter No. 593, dated 09.03.2023 issued by the Deputy Director of Mines, Jajpur Road Circle of Odisha. Hence there is no work in the Mines during the last Six monthly compliance period w.e.f April-2023 to Sept-2023.

5.	The topsoil shall temporarily be stored at earmarked site(s) only and it should not be kept unutilized for long. The topsoil shall be used for land reclamation and plantation.	Due to the Suspension of mining operation, there is no work in the Mines during the last Six monthly compliance period w.e.f April-2023 to Sept-2023.
6.	The overburden (OB) generated during the mining operation shall be stacked at earmarked dump site (s) only and it should not be kept active for a long period of time and their phase-wise stabilization shall be carried out. There shall be one external over burden dump having maximum projected height of 30m. Proper terracing of the OB dump maintained to 27°.	Due to the Suspension of mining operation, there is no work in the Mines during the last Six monthly compliance period w.e.f April-2023 to Sept-2023.
		<ul> <li>Several precautions have already been taken in the dump for its slope stabilization which are given below <ol> <li>Dumping is being carried out in peripheral dumping method by using dozers. In this method the materials are compacted by running of vehicles as well as the dozer.</li> <li>The top surface is also maintained to avoid ponding of water which affect the stability of the dump.</li> <li>The overburden is stacked in bench form to ensure stability.</li> <li>The bench height is maintained at 10 – 15mtrs.</li> <li>Various types of plants such as Acacia, Chakunda, Teak, Chhatian etc. have been planted in the inactive portions of the overburden dump.</li> <li>The overburden dump has been stabilized by tree plantation in the dead benches after carrying out suitable terracing of size 2 M × 1 M each.</li> <li>Grass patching has been developed on the dump slopes to ensure prevention of erosion of soil from the dump slopes due to rainwater.</li> <li>Proper drainage system has already been maintained to prevent rain cuts on the dump.</li> <li>Over the bench surface of the overburden dump yard longitudinal and transverse drains have been made to enable the water to flow to the settling pit through proper drainage system. This not only prevents erosion of overburden dump material but also ensure stability of overburden dump by preventing development of hydro static pressure inside the overburden dump and proper channelization of rain cut is very negligible.</li> <li>We have already planted 17715 nos. of Saplings to stabilize this overburden dump including safety zone also.</li> </ol> </li> </ul>



**Plantation on OB Dump** 

12. Garland drain & retaining wall has been constructed all around the dump.



**Retaining Wall & Garland Drain** 

Due to the Suspension of mining operation, there is no work in the Mines during the last Six monthly compliance period w.e.f April-2023 to Sept-2023.

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	7.	Catch drains and siltation ponds of	Complied.
		appropriate size shall be constructed for	Already 1971 meters of garland drains has been constructed
		the working pit, soil, OB and mineral	around the working pit, OB & mineral dumps with siltation ponds
		dumps to arrest flow of silt and	at different intervals to arrest flow of silt & sediments.
		sediment directly into the Damsala	
		Nallah and other water bodies. The	
		water so collected should be utilized for	No. of Concession, Name
		watering the mine area, roads, green	and the second
		belt development etc.	
			Garland Drain
			Due to the Suspension of mining operation, there is no work
			in the Mines during the last Six monthly compliance period
			w.e.f April-2023 to Sept-2023.

	appropriate size, gradient and length	Due to the Suspension of mining operation, there is no work in the Mines during the last Six monthly compliance period w.e.f April-2023 to Sept-2023.
8.	benches within the mine to check run-off	Complied. About 920 meters of retaining wall of width 1.5m and height 1.2m has been constructed at toe of the overburden dump to check run-off and siltation.

9.	Effluents containing Cr <sup>+6</sup> shall be treated	Due to the Suspension of mining operation, there is no work
	to meet the prescribed standards before	in the Mines during the last Six monthly compliance period
	reuse/discharge. Effluent treatment plant	w e f April-2023 to Sept-2023
	reuse/discharge. Effluent treatment plant should be provided for treatment of mine water discharge and wastewater	
	water disentinge and wastewater	
	generated from the workshop and	
	mineral separation plant.	
	Dup off from the OP duppe and other	
	Run off from the OB dump 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/discharge.	

10.	Separate impervious concrete pits for disposal of sludge shall be provided for the safe disposal of sludge generated from the mining operations.	Complied. Separate impervious pit has been provided for disposal of sludge generated from treatment of water generated during the mining operation
11.	The project proponent shall ensure that the treated effluents conforming to the prescribed standards shall only be discharged.	Due to the Suspension of mining operation, there is no work in the Mines during the last Six monthly compliance period w.e.f April-2023 to Sept-2023.
12.	Plantation shall be raised in an area of 12.715 ha. Including 7.5m wide green belt in the safety zone around the mining lease, overburden dump, roads etc. by planting the native species in consultation with the local DFO/Agriculture Dept. The density of the trees should be around 2500 plants per hect.	Complied. During the year (till March'23) 2022-2023, 2520 nos. of sampling have been planted in the safety zone area around the mining lease and inactive bottom slope of the dump. And a 7.03 Hectares has been planted in consultation with local Forest Dept. by maintaining the density of 2500 plants per Hectare.
		Due to the Suspension of mining operation, there is no work in the Mines during the last Six monthly compliance period w.e.f April-2023 to Sept-2023.
13.	The void left unfilled in an area of 5.21 hectares shall be converted into the water body. The higher benches of the excavated void/mine pit shall be terraced and plantation done to stabilize the slopes. The slopes of higher benches shall be made gentler for easy accessibility by the local people to use the water body. Peripheral fencing shall be carried out all along the excavated area.	

14.		Due to the Suspension of mining operation, there is no work in the Mines during the last Six monthly compliance period w.e.f April-2023 to Sept-2023.
15.	The project authority shall implement suitable conservation measures to augment ground water resources in the area in consultation with the Regional Director, Central Ground Water Board.	Complied. Three main rain water harvesting structure have been made in Mining premises i.e. Check Dam, Garland drain & Settling pond/tank to augment the ground water resources.
16.	Regular monitoring of ground water level and quality shall be carried out by establishing a network of existing wells and constructing new piezometers in and around the mining lease during the mining operation. The periodical monitoring {(at least four times in a year- pre- monsoon (April-May), monsoon (August), post-monsoon (November) and winter (January); once in each season)} shall be carried out in consultation with the state ground Water Board/Central Ground Water Authority and the data thus collected may be sent regularly to the MoEF and its Regional Office, Bhubaneswar, the Central Ground Water Authority and the Regional Director, CGWB. If at any stage, it is observed that the ground water table is getting	Due to the Suspension of mining operation, there is no work in the Mines during the last Six-monthly compliance period w.e.f April-2023 to Sept-2023. Only Ground water quality & Level is monitored in the Borehole installed inside the Mine. Annexure No1 is attached for reference.

	depleted due to the mining activity;	
	necessary corrective measures	
	shall be crried out.	
17.	Regular monitoring of water quality upstream and downstream of the Damsala nallah shall be carried out of monitored data should be maintained and submitted to the Ministry of Environment & Forests, its Regional Office, Bhubaneswar, the Central Ground water Authority, the Regional Director, Central Ground water Board, the State Pollution control Board and the Central Pollution Control Board.	Due to the Suspension of mining operation, there is no work in the Mines during the last Six monthly compliance period w.e.f April-2023 to Sept-2023.
18.	The project proponent shall obtain necessary prior permission of the competent authorities for drawl of requisite quantity of water (surface water and ground water) for the project and effectively implement all the conditions stipulated therein.	Complied. NOC is obtained vide ref. no. : CGWA/NOC/MIN/REN/2/2023/8147, Date: 25.08.2023. The stipulated conditions are being effectively implemented.
19	Suitable rainwater harvesting measure on long term basis shall be planned and implemented in consultation with the Regional Director, CGWB.	Complied. Rainwater is being collected in pits and pond for suitable rainwater harvesting measures. Also roof top rainwater harvesting measure is implemented within the lease area.
20.	Vehicular emissions shall be kept under control and regularly monitored. Measures shall be taken for maintenance of vehicles used in mining operations and in transportation of mineral. The mineral transportation shall be carried out through the covered trucks only and vehicles carrying the mineral shall not be overloaded. Blasting operation shall be carried	Due to the Suspension of mining operation, there is no work in the Mines during the last Six monthly compliance period w.e.f April-2023 to Sept-2023.

22	out only during the daytime. Controlled blasting shall be practiced. The Fitigative measures for control of ground vibrations and to arrest fly rocks and boulders should be implemented. Drills shall either be operated with dust extractors or equipped with water injection system. 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	Complied At present, blasting operation has not been carried out. Excavation has been carried out by machines only. Drilling has not been done so far. In future, if drilling is required, then wet drilling practice will be adopted in future. Due to the Suspension of mining operation, there is no work in the Mines during the last Six monthly compliance period w.e.f April-2023 to Sept-2023.
24	operated. Sewage treatment plant shall be installed for the colony, ETP shall also be provided for the workshop and waste water generated during the mining operation.	Complied.         One 20 KJLD STP has been installed to treat the domestic wastewater & to reuse it for gardening purpose.         Image: Complex of the end of
25.	Consent to operate shall be obtained from the State Pollution	Complied. Consent to Operate has been obtained from SPCB, Odisha before

	Control Doord, Odiates hafe as	starting and heating formed a mine Mining an antique has here
	Control Board, Odisha before	starting production from the mine. Mining operation has been
26	starting production from the mine.	going on with valid consent to operate obtained from SPCB.
26.	The project authorities should	Complied.
	undertake sample survey to generate	Sample survey for community health status within 1 Km radius
	data on pre-project community	from Project area has already been done.
	health status within a radius of 1 km	
	from proposed mine.	
27.	Pre-placement medical examination	Complied.
	and periodical medical examination	Pre-placement medical examination has already been carried out of
	of the workers engaged in the	the workers engaged in the project and the records are being
	project shall be carried out and	maintained and periodical medical examination is being carried out
	records maintained. For the	once in three years & five years depending on the age factor.
	purpose, schedule of health	
	examination of the workers should	
	be drawn and followed accordingly.	
28.	Provision shall be made for the	Complied.
	housing of construction labor	Housing for construction labor is not required since the laborers
	within the site with all necessary	are coming from nearby villages.
	infrastructure and facilities such as	
	fuel for cooking, mobile toilets,	
	mobile STP, safe drinking water,	
	medical health care, crèche etc.	
	The housing may be in the form of	
	temporary structures to be removed	
	after the completion of the project.	
29	The critical parameters such as	Due to the Suspension of mining operation, there is no work
	SPM, RSPM, NOx, In the	in the Mines during the last Six monthly compliance period
	ambient air within the impact	w.e.f April-2023 to Sept-2023.
	zone, peak particle velocity at 300	
	m distance or within the nearest	
	habitation, whichever is closure	
	shall be monitored periodically (at	
	least once a month). Further,	
	quality of discharged water shall	
	also be monitored (TDS, DO, pH,	
	suspended particulate matter and	
	$Cr^{+6}$ ). The monitored data shall be	
	uploaded on the website as well as	
	displayed on a display board at a	
	suitable location in public domain.	
30	The project proponent shall take all	Complied.
	precautionary measures during mining	Wildlife management plan has been prepared by accredited
	operation for conservation and	consultant "M/s Chandanam". It is approved from the competent
	protection of endangered fauna namely	Authority vide Ref no.:10180/CWLW-W-FDWC-FD-0032-
	elephant etc. spotted in the study area.	2022/11-Nov-2022. Approval of wildlife conservation plan is
	elephant etc. spotted in the study area. Action plan for	•
	elephant etc. spotted in the study area. Action plan for conservation of flora and fauna shall be	2022/11-Nov-2022. Approval of wildlife conservation plan is enclosed as <b>Annexure no 2</b>
	elephant etc. spotted in the study area. Action plan for conservation of flora and fauna shall be prepared and implemented in	2022/11-Nov-2022. Approval of wildlife conservation plan is
	elephant etc. spotted in the study area. Action plan for conservation of flora and fauna shall be prepared and implemented in consultation with the State Forest and	<ul><li>2022/11-Nov-2022. Approval of wildlife conservation plan is enclosed as Annexure no 2</li><li>Further, Biodiversity study has been carried out by a domain expert.</li></ul>
	elephant etc. spotted in the study area. Action plan for conservation of flora and fauna shall be prepared and implemented in	2022/11-Nov-2022. Approval of wildlife conservation plan is enclosed as <b>Annexure no 2</b>

	Conservation Plan so prepared specific to this project site shall be effectively implemented. Necessary allocation of funds for implementation of the conservation plan shall be made and the funds so allocated shall be included in the project cost. A copy of action plan shall be submitted to the MoEF and its Regional Office, Bhubaneswar.	the Mines during the last Six monthly compliance period w.e.f April-2023 to Sept-2023
31	A final Mine Closure Plan along with details of Corpus Fund shall be submitted to the MoEF 5 years in advance of final mine closure for approval.	The same will be submitted in due time to MOEF for approval.

### **GENERAL CONDITIONS**

Sl. No.	Condition	Compliance Status		
	No change in mining technology and scope of working should be made without prior approval of the MoEF.	Complied. The Mining technology & scope of working will not change without approval of Ministry of Environment & Forest.		
	No change in the calendar plan including excavation, quantum of mineral chromite ore and the waste shall be made.	Due to the Suspension of mining operation, there is no work in the Mines during the last Six monthly compliance period w.e.f April-2023 to Sept-2023.		
	At least four ambient air quality monitoring stations should be established in the core zone as well as in the buffer zone for RSPM, SPM, SO2, & NOx monitoring. Location of the stations should be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets and frequency of monitoring should be undertaken in consultation with the State Pollution Control Board.	Complied. Ambient Air quality monitoring stations has already been established in consultation with SPCB. Interconting Interconting Int		

4	SPM, SO2 & NOx) should be regularly submitted to the MoEF including its Regional. Office located at Bhubaneswar and the state Pollution Control Board / Central Pollution Control Board once in six months.	Due to the Suspension of mining operation, there is no work in the Mines during the last Six monthly compliance period w.e.f April-2023 to Sept-2023. Due to the Suspension of mining operation, there is no work
	sources should be controlled regularly. Water spraying arrangement on haul roads, loading and unloading and at transfer points should be provided and properly maintained.	in the Mines during the last Six monthly compliance period w.e.f April-2023 to Sept-2023.
6	of noise levels below 85 dB (A) in the work environment. Workers engaged in operations of HEMM etc. should be provided with ear plugs/muffs.	Due to the Suspension of mining operation, there is no work in the Mines during the last Six monthly compliance period w.e.f April-2023 to Sept-2023.
7	Waste water from the mine) should	Due to the Suspension of mining operation, there is no work in the Mines during the last Six monthly compliance period w.e.f April-2023 to Sept-2023.
8	should wear protective respiratory	Due to the Suspension of mining operation, there is no work in the Mines during the last Six monthly compliance period w.e.f April-2023 to Sept-2023.
9	management cell with suitable qualified personnel should be set-up under the control of a Senior Executive, who will report directly to the Head of the Organization.	Complied. A separate Environment Management Cell with qualified personnel and well-equipped Environment Engineering Laboratory are functioning under the control of a Senior Executive. Besides, we are carrying out all Environmental monitoring & analysis through a MoEF & NABL accredited laboratory M/S VisionTek Consultancy Services Pvt. Ltd., Bhubaneswar.

10	The funds earmarked for	
10	environmental protection measures	Due to the Suspension of mining operation, there is no work
	should be kept in separate account	in the Mines during the last Six monthly compliance period
	and should not be diverted for other	w.e.f April-2023 to Sept-2023.
	purpose. Year wise expenditure	w.e.i Apiii-2025 to Sept-2025.
	should be reported to the MoEF and	
	its Regional Office located at	
11	Bhubaneswar.	
11	The project authorities should	Complied.
	inform to the Regional Office	The date of final approval of the Project is 04.10.2010 by DMS
	located at Bhubaneswar regarding	and 23-01-2012 by SPCB.
	date of financial closures and final	
	approval of the project by the	
	concerned authorities and the date of	
	start of land development work.	
12	The Regional Office of this Ministry	Complied.
	located at Bhubaneswar shall	As & when required and during the inspection, full co-operation is
	monitor compliance of the stipulated	being extended by the project authorities.
	conditions. The project authorities	
	should extend full cooperation to the	
	Officer (s) of the Regional Office by	
	furnishing the requisite	
	data/information/monitoring reports.	
13	The project proponent shall submit	Complied.
	six monthly reports on the status of	All the stipulated conditions have been implemented. The Six-
	the implementation of the stipulated	monthly report on Status of compliance of the Environmental
	environmental safeguards to the	Clearance conditions have been submitted to the concerned
	MoEF, its Regional Office,	authorities and the same is being uploaded in our website
	Bhubaneswar, CPCB, and SPCB,	https://www.facorgroup.in
	The project proponent shall upload	
	the status of compliance of the	
	environment clearance conditions on	
	their website and update the same	
	periodically and simultaneously send	
	the same by e-mail to the Regional	
	Office, MoEF, Bhubaneswar.	
L	Since, mola, Biubaneswar.	



Plot No.- M-22 & 23, Chandaka Industrial Estate, Patia, Bhubaneswar, Khurda, Odisha-751024, India Tel.: 0674-3511721 E-mail: visiontek@vcspl.org, visiontekin@gmail.com

APHA 23rd Ed,2017

: 4500Cl B

APHA 3111 B,C

APHA 4500 F,C

APHA 4500 Cl B

APHA 23rd Ed,2017

: 3111, B

APHA 3500 Mg B

APHA 3500Mn B

APHA 5520 B

APHA 4500 NO3<sup>-</sup> E

APHA 5530 B.D

250

0.05

1.0

0.2

1.0

30

0.1

0.5

45

0.001

1000

1.5

1.5

1.0

1.0

100

0.3

0.5

45

0.002

35

BDL

BDL

ND

0.71

19.2

BDL

BDL

8.1

BDL

mg/l,Max

mg/l,Max

mg/l,Max

mg/l,Min

mg/l,Max

mg/l,Max

mg/l,Max

mg/l,Max

mg/l,Max

mg/l,Max

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Chloride (as Cl)

Copper (as Cu)

Fluoride (as F)

**Residual, free Chlorine** 

Iron (as Fe)

Magnesium (as Mg)

Manganese (as Mn)

Mineral Oil

Nitrate (as NO<sub>3</sub>)

Phenolic Compounds(as C<sub>6</sub>H<sub>5</sub>OH

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# Visiontek Consultancy Services Pvt. Ltd. (Committed For Better Environment)

#### Certified for : ISO 9001:2015, ISO 14001:2015, ISO 45001:2018 (OH&S), ISO/IEC 17025:2017

Accredited by : NABET-A Grade, MOEF & CC/CPCB & SPCB-A Grade

• Infrastructure Enginering • Water Resource Management

• Environmental & Social Study

• Surface & Sub-Surface Investigation • Quality Control & Project Management • Renewable Energy

• Agricultural Development Information Technology Public Health Engineering • Mine Planning & Design Mineral/Sub-Soil Exploration • Waste Management Services

Laboratory Services Environment Lab Food Lab Material Lab Soil Lab Mineral Lab & Microbiology Lab

			APHA 23 <sup>rd</sup> Ed,2017:				
18	Selenium (as Se)	mg/l,Max	3500 Se C	0.01	0.01	BDL	
19	Silver( asAg)	mg/l,Max		0.1	0.1	BDL	
20	Sulphate (as SO <sub>4</sub> )	mg/l,Max	APHA 4500 SO4 <sup>2-</sup> E	200	400		
21	Sulphide (as H <sub>2</sub> S)	mg/l,Max	0.05	0.05	0.05	ND	
22	Alkalinity	mg/l,Max	<b>APHA 2320 B</b>	200	600	85	
23	Total Hardness (as CaCO <sub>3</sub> )	mg/l,Max	APHA 23 <sup>rd</sup> Ed,2017 : 2340 C	200	200	180	
24	Zinc (as Zn)	mg/l,Max	APHA 23 <sup>rd</sup> Ed,2017: 3111 B	5	5	1.3	
	Toxic Parameters						
1	Chromium (as Cr <sup>+6)</sup>	mg/l,Max	APHA 3500Cr B	0.05	0.05	BDL	
2	Cadmium as( Cd)	mg/l,Max	APHA 23 <sup>rd</sup> Ed,2017: 3111 B	0.003	0.003	BDL	
3	Cyanide as (CN-)	mg/l,Max	APHA 23 <sup>rd</sup> Ed,2017: 4500 CN <sup>-</sup> C,D	0.05	0.05	BDL	
4	Lead as( Pb)	mg/l,Max	APHA 23 <sup>rd</sup> Ed,2017 3111 B	0.1	0.1	BDL	
5	Mercury as (Hg)	mg/l,Max	APHA 23 <sup>rd</sup> Ed,2017: 3111 B	0.001	0.001	BDL	
6	Nickel (Ni)	mg/l,Max	IS 5185 (Part-22)	0.02	0.02	BDL	
7	Arsenic as (As)	mg/l,Max	APHA 23 <sup>rd</sup> Ed,2017: 3114 B	0.01	0.01	BDL	
8	Polychlorinated biphenyls	mg/l,Max	APHA 23 <sup>rd</sup> Ed,2017 :6440 B	0.0005	0.0005	ND	
9	Polyaromatic hydrocarbons (PAH)	mg/l,Max	APHA 23 <sup>rd</sup> Ed,2017 :6440 B	0.0001	0.0001	ND	
10	Total Chromium	mg/l,Max	APHA 3500Cr B	0.05	0.05	BDL	
11	Bromoform	mg/l,Max	АРНА 6232	0.1	0.1	ND	
12	Dibromochloromethane	mg/l,Max	АРНА 6232	0.1	0.1	ND	
13	Bromodichloromethane	mg/l,Max	АРНА 6232	0.06	0.06	ND	
14	Chloroform	mg/l,Max	АРНА 6232	0.2	0.2	ND	
15	Molybdenum (Mo)	mg/l,Max	IS 3025 (Part 2)	0.07	0.07	BDL	
		Ba	cteriological Para	meter			
1	Total Coliform	MPN/100 ml	APHA 23 <sup>rd</sup> Ed,2017: 9221 B	Shall not be detec in any 100 ml sa		ABSENT	



## Visiontek Consultancy Services Pvt. Ltd. (Committed For Better Environment)

Certified for : ISO 9001:2015, ISO 14001:2015, ISO 45001:2018 (OH&S), ISO/IEC 17025:2017 Accredited by : NABET-A Grade, MOEF & CC/CPCB & SPCB-A Grade

• Infrastructure Enginering

• Water Resource Management

• Environmental & Social Study

• Surface & Sub-Surface Investigation • Quality Control & Project Management • Renewable Energy

 Agricultural Development Information Technology Public Health Engineering • Mine Planning & Design Mineral/Sub-Soil Exploration • Waste Management Services

Laboratory Services Environment Lab Food Lab Material Lab Soil Lab Mineral Lab & Microbiology Lab

	PESTICIDES					
1	Endosulfan à	µg/l,Max	APHA 23rd edition: 6630 C	0.4	<0.005	
2	Endosulfan ß	µg/l,Max	APHA 23rd edition: 6630 C	0.4	<0.005	
3	Endosulfan sulphate	µg/l,Max	APHA 23rd edition: 6630 C	0.4	<0.005	
4	Alachlor	µg/l, Max	APHA 23rd edition: 6630 C	20	<0.01	
5	Atrazine	µg/l, Max	APHA 23rd edition: 6630 C	2.0	<0.01	
6	Aldrin	µg/l, Max	APHA 23rd edition: 6630 C	0.03	<0.01	
8	Alpha HCH	µg/l, Max	APHA 23rd edition: 6630 C	0.01	<0.01	
9	Beta HCH	µg/l, Max	APHA 23rd edition: 6630 C	0.04	<0.01	
10	Delta HCH	µg/l, Max	APHA 23rd edition: 6630 C	0.04	<0.01	
11	Butachlor	µg/l, Max	APHA 23rd edition: 6630 C	125.0	<0.01	
12	Chloropyriphos	µg/l, Max	APHA 23rd edition: 6630 C	30.0	<0.01	
13	2,4-Dichlorophenoxyacetic acid	µg/l, Max	APHA 23rd edition: 6630 C	30.0	<0.05	
14	p p DDE	µg/l, Max	APHA 23rd edition: 6630 C	1.0	<0.05	
15	p p DDD	µg/l, Max	APHA 23rd edition: 6630 C	1.0	<0.05	
16	p p DDT	µg/l, Max	APHA 23rd edition: 6630 C	1.0	<0.05	
17	o p DDE	µg/l, Max	APHA 23rd edition: 6630 C	1.0	<0.05	
18	o p DDD	µg/l, Max	APHA 23rd edition: 6630 C	1.0	<0.05	
19	o p DDT	µg/l, Max	APHA 23rd edition: 6630 C	1.0	<0.05	
20	Ethion	µg/l, Max	APHA 23rd edition: 6630 C	3.0	<0.01	
21	Lindane	µg/l, Max	APHA 23rd edition: 6630 C	2.0	<0.01	
22	Isoproturon	µg/l, Max	APHA 23rd edition: 6630 C	9.0	<0.01	
23	Malathion	µg/l, Max	APHA 23rd edition: 6630 C	190.0	<0.01	
24	Methyl parathion	µg/l, Max	APHA 23rd edition: 6630 C	0.3	<0.01	
25	Monocrotophos	µg/l, Max	APHA 23rd edition: 6630 C	1.0	<0.01	
26	Phorate	µg/l, Max	APHA 23rd edition: 6630 C	2.0	<0.01	





Plot No.- M-22 & 23, Chandaka Industrial Estate, Patia, Bhubaneswar, Khurda, Odisha-751024, India Tel.: 0674-3511721 E-mail: visiontek@vcspl.org, visiontekin@gmail.com Visit us at: www.vcspl.org



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

Government of Odisha, Forest, Environment & Climate Change Department PRAKRUTI BHAWAN, PLOT NO.1459, SAHEED NAGAR, BHUBANESWAR- 751007 Phone: 0674-2602250, Website: www.wildlife.odisha.gov.in, Email: odishawildlife@gmail.com

/ CWLW-FDWC-FD-0032-2022 No. Bhubaneswar, Dated the November, 2022

То

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

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

Sir,

It is to intimate that you have to implement mitigation measures as per the Site Specific Wildlife Conservation Plan approved in compliance to <u>Standard ToR No.(xviii) for</u> <u>Mining Project</u> prescribed by SEIAA, Odisha in their letter No.3495/SEIAA dt 18.11.2021.

2. I am directed to convey the approval of PCCF (WL) & CWLW, Odisha for the Site Specific Wildlife Conservation Plan in respect of the above project at financial outlay of ₹150.52 lakh (Rupees one crore fifty lakh fifty-two thousand) only as detailed below -

SI. No.	Name of the Division	Cost of approved activities
i	In project impact area in Cuttack Division	₹105.922 lakh
ii	In project impact area in Dhenkanal Division	₹35.118 lakh
iii	In project impact area in Keonjhar WL Division	₹9.480 lakh
	Total cost :	<b>₹150.520 lakh</b>

3. Activities in the project area will be executed by the project proponent under the guidance of DFO, Cuttack Division. A sum of ₹150.52 lakh only shall be deposited in State CAMPA fund only through e-portal (https://parivesh.nic.in/) for implementation of various activities within the project impact area by the Forest Department through concerned DFOs.

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

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

Yours faithfully

Conservator of Forests (Wildlife)



Encl: Copy of approved SSWLCP

P**.**T.O.

Memo No. 10/8/ /dt 1/1/1/2022

Copy forwarded for information and necessary action to the -

- 1. OSD-cum-Special Secretary to Government of Odisha, F,E &CC Department, Bhubaneswar with reference to that Department Memo.No.10F (Cons)228/2016/13770/F&E dt 27.07.2016.
- 2. PCCF & HoFF, Odisha with reference to F,E&CC Department Memo.No.13770/F&E dt 27.07.2016.
- 3. Regional Chief Conservator of Forests, Angul Circle with reference to Memo.No.6766 dt 13.10.2022 of DFO, Cuttack Division
- 4. Regional Chief Conservator of Forests, Baripada Circle with reference to this office Memo.No.8400 dt 19.09.2022
- 5. Divisional Forest Officer(s), Cuttack/ Dhenkanal/ Keonjhar WL Division alongwith copy of approved SSWLCP

Conservator of Forests (Wildlife)