



OCM/ENV/ 1608 /2023

DATE: 10.05.2023

To

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

Submission of six monthly compliance report to the conditions stipulated in the Sub: grant order of Environment Clearance (EC) pertaining to Ostapal Chromite Mines of M/s Ferro Alloys Corporation Limited.

Environment Clearance (Identification No:EC22B001OR12081) dated 04.04.2022 Ref: of Ostapal Chromite Mines 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 Ostapal Chromite mines of M/s. Ferro Alloys Corporation Limited for the period October 2022 to March 2023 for your kind perusal.

This is for your kind information & necessary action.

Thanking You,

Yours Faithfully

For M/s Ferro Alloys Corporation Limited

MINE MANAGER 10

OSTAPAL CHROMITE MINE

Encl: As above

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: U452010R1955PLC008400.

GOVT. OF INDIA MoEF & CC Integrated R.O Rhybaneswar-751023

A.SI	PECIFIC CONDITIONS:	
	The mine shall explore implementation of membrane-	Complied.
1	based technology for removing hexavalent chromium	In this connection, NIT, Rourkela has been
1	from tailing pond, Surface run off & mine drainage	engaged since Dt 18.12.2021, & they have
	water as proposed	provided the final report.
	The mine shall submit copy of the letter to NIT.	Complied
	Rourkela and their response thereof engaging them for	Complied. Engagement order to NIT Rourkela & their
2	the purpose of reduction of hexavalent chromium from	response is already submitted to SEIAA . It is
	tailing pond, surface run off, and mine drainage to	enclosed as Annexure -1
	SEIAA within one month time period	enclosed as Affilexule -1
3	The mine shall submit copy of study report conducted	Complied.
	by NIT, Rourkela for the purpose of reduction of	Copy of the final report & its implementation
	hexavalent chromium iron tailing pond, Source run off	status is enclosed for reference as Annexure- 2 .
	& mine drainage water once study is Over and	As per the final report all the
	implement the recommendations of the study. The	precautions/recommendations are
	project proponent shall submit implementation &	implemented.
	action plan report	All the suggested precautions are being
	to SEIAA	implemented and maintained as follows: -
		Discharge of tailing in separate pond
		Impervious layer is laid at the bottom of
		the tailing pond to prevent the mixing of
		tailing water to the ground water.
		Proper SOP of tailing management is
		maintained.
		Further, Implementation of the recommendation
		report submitted to SEIAA vide letter No.
		OCM/ENV/1488/2023, dated 29.03.2023
		(Annexure -2A)
4	Since, mining has already intersected the ground water	Complied.
	table; the steps proposed	we have conducted a Hydrogeological study and
	augmentation of ground water resources are not	based upon the comprehensive report on ground
	adequate. The project proponent shall put adequate	water condition we have augmented and
	number of recharge pits beyond the zone of influence	implemented the recommendations. As per the
	based on a detailed hydro-geological study. The project	study the rain-water harvesting structures are as
	proponent shall submit the measures to be undertaken	follows:
	for augmentation of ground water resources along	Check-Dams
	with action plan to SEIAA within one month time	Garland Drains
	period.	Settling Pit
		Roof Top Rainwater Harvesting
		The measures of the ground water augmentation
		report already submitted to SEIAA vide ref. No –
		OCM/ENV/897/2022 dated – 30.04.2022
		Annexure - 3
5	The mine shall take adequate measures to minimize	Complied.

	the discharge of waste water to Damsala nallah.	Afforestation are being done more than the proposal, for which treated waste water is being used, as a result discharge to Damsala Nallah is minimized. Aprt from this, the treated water is used for dust suppression & industrial purposes. So, that discharge to Damasala nallah will be minimize The detailed are mentioned in Annexure - 4
6	All the compliances submitted/ committed by PP shall be strictly adhered to by them.	Complied. It is agreed & strictly followed.
7	Waste should be dumped on the earmarked sites within the mining lease area and no waste should be dumped outside the lease area	Complied. All the generated waste are being dumped within the Mining lease as per approved Mining Plan. The details are enclosed in Annexure - 5
8	The Project Proponent shall start the plantation and cover at least 50% of the proposed area under plantation in the next 5 years. The density of the plantation should not be less than 2500 saplings/Ha. The species to be selected for the plantation should be in consultation with local forest department or any other expert agency engaged for the same. The Project Proponent shall keep the record of saplings planted survival rate area covered under plantation location etc In addition to this gap filling needs to be done to as and when require for maintaining the density of plantation. The PP shall submit the drone images of area before and after the plantation. PP shall carry out pilot study for phyto remediation of hexavalent chromium through IMMT CSIR. Bhubaneswar.	Complied. It is an existing project. Density of the plantation is more than 2500/Ha. and already 50% of the proposed area under plantation in the 5 years plan period. Species are provided by local Forest Department. All the data of sapling planted & survival rate is being recorded. Before & after plantation done photographs are enclosed as Annexure No6. And IIMT CSIR , Bhubaneswar has been engaged to carry out the Phyto remediation of hexavalent Chromium. Work is started for which interim report is provided by IIMT, BBSR. Engagement order (PO) & Interim report is enclosed as Annexure No7 Project will be completed By Mar'2024.
	The budget earmarked for the plantation shall be kept in separate bank account and audited annually. PP shall submit the detail such as photographs (before & after with geo-location, date &time), details of expert agency engaged details of species planted, number of species planted survival rate density of plantation and outcome of the pilot study etc. to the Regional Office of MoEF & CC Bhubaneswar and SEIAA Odisha before 1s July & 1 December of every year for the activities carried out during previous year	Plantation work by IIMT Bhubaneswar All the budgeted amount & expenses done for plantation is being maintained in a separate ledger account & separate Cost Centre. Audit is being done quarterly as well as Annually.
9	Approval/permission of CGWA/SCWMA shall be obtained before drawing ground water for the project activities. State pollution control board (SPCB)	Complied NOC for the CGWA is applied for renewal on 22.07.2022 it is approved by CGWA in Online.

	concerned shall not issue Consent to Operate (CTO) till the project Proponent obtains such permission.	Hard copy is yet to be received. NOC & Renewal application acknowledgement is enclosed for Ref. as Annexure No 8
10	The amount proposed under Corporate Environment Responsibility (CER) head should be kept in a separate bank account and should be audited annually. The PP should annually submit the audited statement and details of implementation of CER activities along with proof of activities viz. photographs (before & after with geo-location date & time), purchase documents, photographs & Geo-location of the infrastructure facilities developed, etc. to the Regional Office of MoEF & CC Bhubaneswar and SEIAA, Odisha before 1st July & 1 December of every year for the activities carried out during previous year.	Complied. Separate General Ledger Account & separate Cost center for this fund has been maintained & which is also audited annually. Details of the activities with supporting evidences like photographs & purchase documents have been enclosed as Annexure No 9
11	The amount (except occupational health) proposed under Environmental Management Plan (EMP) head should be kept in a separate bank account and should be audited annually. The PP should annually submit the audited statement and detailed environment monitoring report along with proof of activities viz photographs (before & after with geo-location date & time), purchase documents, sampling reports, photographs& Geo-location of the infrastructures/facilities developed, details of persons engaged in Environment Management Cell etc. to the Regional Office of MoEF & CC, Bhubaneswar and SEIAA, Odisha before 1st July of every year for the activities carried out during previous year.	Complied. Separate General Ledger Account & separate Cost center for this fund has been maintained & which is also audited annually. Audit report along with all activities with supporting documents are submitted herewith annually. Details of expenses done FY 2022-23 towards EMP is enclosed as Annexure No-10 Details of the Person engaged for Environment Management Cell details is already submitted to the Member secretary SEIAA vide letter No.: OCM/ENV/865/2022, dated 16.4.2022, is enclosed as Annexure No11
12	The amount proposed under Occupational Health plan head should be kept in a separate bank account and should be audited annually. The PP should annually submit the audited statement and detailed environment monitoring report along with proof of activities viz. photographs (before & after with geolocation date & time), purchase documents, sampling reports, photographs& Geo-location of the infrastructures/facilities developed. details of persons engaged in Environment Management Cell etc. to the Regional Office of MoEF & CC, Bhubaneswar and SEIAA Odisha before 1st July of every year for the activities carried out during previous year	Complied. Separate General Ledger Account & separate Cost center for this fund has been maintained & which is also audited annually. Audit report along with all activities with supporting documents will be submitted annually. Details of the Expenses towards Occupational Health is enclosed as Annexure No12 done towards Details of the Person engaged for Environment Management Cell details is already submitted to the Member secretary SEIAA vide letter No.: OCM/ENV/865/2022, dated 16.4.2022, is enclosed as Annexure No11

13	The Project Proponent shall set up an Environmental	It is complied.
14	The Project Proponent shall set up an Environmental Management Cell comprises of persons having qualification and experience in the field of environment along with supporting staff. The details of the same needs to be submitted to the SEIAA Odisha within 3 months of the grant of EC The Sub-Committee of SEAC will visit the site within 6	Details of the Person engaged for Environment Management Cell details is already submitted to the Member secretary SEIAA vide letter No.: OCM/ENV/865/2022, dated 16.4.2022, is enclosed as Annexure No11
14	months from the date of issue of Environmental Clearance to ensure implementation of agreed measures However either during the visit of the SEAC Subcommittee and/or at any time if it noticed that stipulated conditions on which EC is granted is not in place or found otherwise, steps will be taken for revocation of EC granted	
15	The Project Proponent shall implement the short term and long-term measures proposed to be taken in order to get rid from the adversity of Cr (VI) contamination needs to be implemented and status report of the same along with benefit occurred needs to be submitted to Regional Office of MoEF & CO Bhubaneswar and SEIAA Odisha annually.	Complied. NIT, Rourkela & IIMT, CSIR, -Bhubaneswar have been engaged to carry out the study & to suggest the measure to be taken for reduction of contamination. All the measures suggested by NIT Rourkela have been implemented. IIMT, CSIR study is under process, after getting the suggestion, measures will be implemented. Intimation on benefit of implementation of recommendations suggested by NIT, Rourkela has been submitted to Regional Office of MoEF & CC, Bhubaneswar and SEIAA Odisha, as Annexure No13
16	The Project Proponent shall keep a record of each blasting viz. location, number of holes, delay assigned of each hole, explosive quantity of each hole, blasting pattern etc.	Complied.
17	This Environmental Clearance (EC) is subject to orders/judgment of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, Common Cause Conditions as may be applicable.	Complied
18	The Project proponent complies with all the statutory requirements and judgment of Hon'ble Supreme Court dated 2nd August,2017 in Writ Petition (Civil) No. 114 of 2014 in matter of Common Cause versus Union of India & Or before commencing the mining operations, if applicable to the Project.	Vide letter No.: FACOR/Bhadrak/Legal/109/2022, Dated: 25.4.2022. The details are enclosed in Annexure – 15
19	The State Government concerned shall ensure that mining operation shall not be commenced till the entire compensation, levied, if any, for illegal mining paid by the Project Proponent through their respective	Complied. Letter submitted to Member secretary, Vide letter No.: FACOR/Bhadrak/Legal/109/2022, Dated: 25.4.2022

	Department of Mining & Coology in strict compliance	The details are enclosed in Annexure - 15
	Department of Mining & Geology in strict compliance	The details are enclosed in Annexure - 15
	of Judgment of Hon'ble Supreme Court dated 2nd	
	August, 2017 in Write Petition (Civil) No. 114 of 2014 in	
	matter of Common Cause versus Union of India & Ors	
	as may be applicable.	
20	This Environmental Clearance shall become operational	It is not applicable as our lease area do not fall
	only after receiving formal	under and wildlife area so NBWL clearance is not
	NBWL Clearance from MoEF & CC subsequent to the	required.
	recommendations of the	
	Standing Committee of National Board for Wildlife. if	
	applicable to the Project	
21	This Environmental Clearance shall become operational	Complied.
	only after receiving formal Forest Clearance (FC) under	We have obtained FC on Dt 07.02.2006, from the
	the provision of Forest Conservation Act 1980, if	Govt. of Odisha.
	applicable to the project	The details are enclosed in Annexure – 16
22	Project Proponent (PP) shall obtain Consent to Operate	Complied
	after grant of EC and	CTE obtained on dated 31.03.2022.
	effectively implement all the conditions stipulated	CTO Obtained on 28.06.2022 & valid till
	·	31.03.2026
	therein. The mining activity shall	
	not commence prior to obtaining Consent to Establish/	The details are enclosed in Annexure - 17
	Consent to Operate from	
	the concerned State Pollution Control Board	
23	The PP shall adhere to the provision of the Mines Act.	Complied.
	1952, Mines and Mineral	All the applicable statutory provision under
	(Development & Regulation), Act. 2015 and rules &	Mines Act '1952 and Mineral
	regulations made there under	(Development & Regulation), Act. 2015 and
	PP shall adhere to various circulars issued by	rules, regulations made are being followed &
	Directorate General Mines Safety	adhered.
	(DGMS) and Indian Bureau of Mines from time to time	
24	The Project Proponent shall obtain consents from all	Complied.
	the concerned landowner before start of mining	Consent from all concerned landowners has
	operations as per the provisions of MMDR Act 1957	been obtained before starting of the mining
	and rules made there under in respect of lands which	operations.
	are not owned by it.	The details are enclosed in Annexure - 18
25	The Project Proponent shall follow the mitigation	Complied.
	measures provided in MoEF & CC's Office	There are no villages within the mining lease.
	Memorandum No 2-1013/57/2014-IA I (M). dated 29	Moreover, EIA study has been carried out by
	October 2014 titled "Impact of mining activities on	domain expert. And as per the suggestion of EIA
	Habitations-issues related to the mining Projects	study report, mitigative measures have been
	wherein Habitations and villages are the part of mine	taken to avoid the "Impact of mining activities on
		Habitations" & villages in the Buffer zone.
	l lease areas or habitation and villages are surrounded	i navitativns (x vijjages in the builer zone.
	lease areas or habitation and villages are surrounded by the mine lease area"	nabitations & villages in the burier zone.
26	by the mine lease area"	-
26	by the mine lease area" The copies of the environmental clearance shall be	Complied.
26	by the mine lease area" The copies of the environmental clearance shall be submitted by the project proponents to the heads of	Complied. It is Submitted to The Collector & District
26	by the mine lease area" The copies of the environmental clearance shall be submitted by the project proponents to the heads of the local bodies, panchayats and municipal bodies in	Complied. It is Submitted to The Collector & District Magistrate, Jajpur, The Sub-Collector, Jajpur, The
26	by the mine lease area" The copies of the environmental clearance shall be submitted by the project proponents to the heads of the local bodies, panchayats and municipal bodies in addition to the relevant offices of the government who	Complied. It is Submitted to The Collector & District Magistrate, Jajpur, The Sub-Collector, Jajpur, The Tahasildar, Sukinda & The Sarapanch, Kaliapani
26	by the mine lease area" The copies of the environmental clearance shall be submitted by the project proponents to the heads of the 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	Complied. It is Submitted to The Collector & District Magistrate, Jajpur, The Sub-Collector, Jajpur, The Tahasildar, Sukinda & The Sarapanch, Kaliapani on dated 07.04.2022 for information.
26	by the mine lease area" The copies of the environmental clearance shall be submitted by the project proponents to the heads of the local bodies, panchayats and municipal bodies in addition to the relevant offices of the government who	Complied. It is Submitted to The Collector & District Magistrate, Jajpur, The Sub-Collector, Jajpur, The Tahasildar, Sukinda & The Sarapanch, Kaliapani

at

display

of

this

EC

road, loading and unloading point and transfer points.

The Fugitive dust emissions from each sources shall be

controlled by installation of required

regularly

letter

EC Identification No.: EC22B001OR120821, Dated: 04.04.2022

its

Regional office. District Industries Centre and Collector's office/ Tahasildar's Office for 30 days. The Project Authorities should widely advertise about Complied. the grant of this EC letter by printing the same at least Advertisement have been published in two local two local newspapers, one of which shall be in newspapers within 7 days of issue of the vernacular language of the concerned area. The clearance letter. advertisement shall be done ସାଧାରଣ ବିଜ୍ଞପ୍ତି (FACGR within 7 days of the issue of the clearance letter **PUBLIC NOTICE** instant mentioning that the project has been accorded EC and copy of the EC letter is and Climate Change, Government of India has grantse forvironment Clearance (EC) to Ostapal Chromite full for M/s Ferro Alloys Corporation Ltd. (FACOR or dtd. 04/104/2022 for enhancement of production pp to 0.240 MTPA of Chromite Ore (ROM). This EC is also available in the official portal of Ministry of Environment, Forest and Climate Change, i.e. <a href="https://doi.org/10.1046/j.chm/schange-it-en-https://do available with the State Pollution Control Board and web site of the Ministry of Environment, Forest and ଓ୍ତୟପାଲ କ୍ରୋମାଇଟ୍ ଖଣି ଫେରୋ ଏଲୋଏଡ୍ କର୍ପୋରେସନ ଲିମିଟେଡ୍ (ଫେକର) Climate Change (www.environmentclearance.nic.in) A Orissapost, Dt 8.4.2022 Pragatibadi Dt 08.04.2022 copy of the advertisement may be forwarded to the concerned MoEF & CC Regional Office for compliance Copy of the advertisement forwarded to the and record. concerned authority is enclosed as Annexure -20 29 The Project Proponent shall inform the MoEF & There is no change in ownership. Odisha CC/SEIAA. for anv change in ownership of the mining lease. In case there is any change in ownership mining lease is transferred than mining operation shall carried out transfer of EC as per provisions of the para 11 of EIA Notification. 2006 amended from time to time В **Statutory Condition:** Air Quality Monitoring and preservation (i) The Project Proponent shall install a minimum of 1 (one) 30 Complied. online Ambient Air Quality Monitoring Stations to monitor As per condition, one Online AAQMS is installed to critical parameters relevant for mining operations, of air monitor the critical parameters relevant for mining pollution viz PM10, PM25. NO2 CO and SO2 etc. as per the operations such as PM10, PM25. NO2 CO and SO2. It methodology mentioned in NAAQS Notification No. Bis being Monitored.. 29016/20/90/POCIH dated 18.11. 2009 covering the aspects Further, AAQ Monitoring stations are installed in of transportation and use of heavy machinery in the impact other places & also digitally displayed board placed in zone. The ambient air quality shall also be monitored at front of the main gate. places like office building canteen etc. as per the site condition to ascertain the exposure characteristics at specific places The above data shall be digitally displayed within 03 months in front of the main Gate of the mine site Effective safeguard measures for prevention of dust Complied. 31 generation and subsequent suppression (like regular Following measures have been taken such as water sprinkling. metalled road construction etc.) shall Regular haul road maintenance be carried out in areas prone to air pollution wherein Use of Road Grader high levels of PM10 and PM2.5 are evident such as haul Wet drilling practice adopted

Transporting vehicle is covered with

Wheel washing system provided

tarpauline

EC Identification No.: EC22B001OR120821, Dated: 04.04.2022

equipment/machineries and preventive maintenance. Use of Suitable water-soluble chemical dust suppressing agents may be explored for better effectiveness of dust control system It shall be ensured that air pollution level conform to the standards prescribed by the MoEF & CC/ Central Pollution Control Board

- Sufficient nos. of water Tankers are engaged for regular sprinkling of water on the as haul road, loading and unloading point for effective dust suppresion.
- Haul Road plantation











The details of the dust suppressing measures is enclosed as **Annexure - 21**

Further, fugitive dust emission is being monitored regularly. Preventive maintenance is being carried out regularly.

II Water Quality Monitoring and Preservation

In case, immediate mining scheme envisages intersection of ground water table, then Environmental Clearance shall become operational only after receiving formal clearance from CGWA. In case, mining operation involves intersection of ground water table at a later stage, then PP shall ensure that prior approval from CGWA and MoEF & CC is in place before such mining operations. The permission for intersection of ground water table shall essentially be based on detailed hydro-geological study of the area.

NOC is obtained from CGWA. Vide Ref No.: CGWA/NOC/MIN/REN/1/2021/6481.

The NOC & renewal application acknowledgement copy is enclosed as Annexure – 8

Regular monitoring of the flow rate of the springs and perennial nallahs flowing in and around the mine lease shall be carried out and records maintain. The natural water bodies and or streams which are flowing in an around the village, should not be disturbed. The Water Table should be nurtured so as not to go down below the

pre-mining period. In case of any water scarcity in the area, the Project Proponent has to provide water to

Complied.

Flow rate of the Perennial Nalla "Damasallah Nallah" is being Monitored Regularly & Record being maintained. Report is enclosed as **Annexure No.-22**

There is no disturbance to any water bodies in around the village.

Nos. of rainwater harvesting measures have been taken to augment the water table. So,

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the villagers for their use. A provision for regular monitoring of water table in open dug wall located in village should be incorporated to ascertain the impact of mining over ground water table. The Report on changes in Ground water level and quality shall be submitted on six-monthly basis to the Regional Office of the Ministry, CGWA and State Groundwater Department/ State Pollution Control Board

there is no chance of water table to go below/down.

There is no scarcity of water, and the water table is in proper level. Further, drinking water is provided to the nearby villages.

Water level & quality is being Monitored regularly by NABL accredited Laboratory and report is also being submitted the Govt. authority in quarterly.

The Monitoring report is enclosed as Annexure - **Annexure - 23**

Project Proponent shall regularly monitor and maintain records w.r.t. ground water level and quality in and around the mine lease by establishing a network of existing wells as well as new piezo-meter installations during the mining operation in consultation with Central Ground Water Authority/ State Ground Water Department. The Report on changes in Ground water level and quality shall be submitted on six-monthly basis to the Regional Office of the Ministry. CGWA and State Groundwater Department/ State Pollution Control Board

Complied.

Ground water level & quality being monitored regularly. And report also submitted.

The details are enclosed in Annexure - 23

35 The Project Proponent shall undertake regular monitoring of natural water course water resources/ springs and perennial nallahs existing/ flowing in and around the mine lease and maintain its records. The project proponent shall undertake regular monitoring of water quality upstream and downstream of water bodies passing within and nearby/ adjacent to the mine lease and maintain its records. Sufficient number of gullies shall be provided at appropriate places within the lease management of water PP shall carryout regular pH and included the same in monitoring wrt monitoring plan. The parameters to be monitored shall include their water quality vis a-vis suitability for usage **CPCB** criteria and flow shall be ensured that no obstruction and/ or alteration be made to water bodies during mining operations without justification and prior approval of MoEF & CC SEIAA Odisha.

Complied.

Flow rate of the Perennial Nalla "Damasallah Nallha" is being Monitored Regularly & Record being maintained. Report is enclosed as Annexure No.-22

Upstream & Downstream water quality are being monitored. PH & other parameters as well within the limit. Report is enclosed as **Annexure No.-24**

There is no water body inside the Mine, so there is no chance of obstruction or alteration to the water body.

The monitoring of water courses/ bodies existing in lease area shall be carried out four times in a year viz. pre-monsoon (April-May), monsoon (august), post-monsoon (november) and winter (january) and the record of monitored data be sent regularly to ministry of environment, forest and climate change and its regional office, SEIAA, Odisha, Central Ground Water Board, State Pollution Control Board and central pollution control board.

There is no water courses/bodies in the lease area, so trend analysis is not applicable.

	Clearly showing the trend analysis on six-monthly basis.	
36	Quality of polluted water generated from mining operations which include Chemical Oxygen Demand (COD) in mines run-off. acid mine drainage and metal contamination in runoff shall be monitored along with Total Suspended Solids (TDS), Dissolved Oxygen (DO), pH and Total Suspended Solids (TSS). The monitored data shall be uploaded on the website of the company as well as displayed at the project site in public domain, on a display board, at a suitable location near the main gate of the Company. The	Complied. One NABL accredited Lab is engaged to ensure the quality of the water generated from the mines & treated water discharging to outside the lease. And all the parameters mentioned are being monitored. Monitoring data also uploaded in the Website: https://www.facorgroup.in/esg/compliances/ And displayed through digital display board near main gate.
	circular No. J-20012/1 /2006 IA.II (M) dated 27.05.2009 issued by Ministry of Environment, Forest and Climate Change may also be referred in this regard.	The Monitoring report is enclosed in Annexure - 25
37	The project proponent shall construct retaining wall and settling pond within the lease area. Further, check dams shall be constructed at strategic locations in which rain water passes in rainy season. Quality of the mine drainage water shall be monitored on real-time basis& also monitored through NABL Lab. Mine drainage water shall be used only after treatment through ETP for various industrial uses	Retaining wall is constructed along the periphery of the dump, settling pond is there in the lease also check dam is constructed at strategic locations through which rain water passes in rainy season. Settling Pond, Retaining wall & Check dam Also the mine drainage water is being treated in ETP and its quality is being monitored on real time basis and along with NABL Lab. It is used for industrial purpose only after treatment. EFFLUENT TREATMENT PLANTIETPI FACILITY AT OSTAPAL MINE (600 KL/HR) The NABL report is enclosed as Annexure No-25
38	Detail design of the existing retaining wall and the proposed for the expansion from a chartered Civil Engineer shall be submitted within 6 months from the date of issue of Environmental Clearance to ensure that no silt after wash up & treatment	Complied. The design of the retaining wall is certified from a chartered civil engineer. The details are enclosed in Annexure – 26
39	is escaped from the core/ buffer zone of the mines. Project Proponent shall plan, develop and implement	Complied. Report of ground water recharge quantity is
	rainwater harvesting measures on long term basis to augment ground water resources in the area in consultation with Central Ground Water Board/ State	Report of ground water recharge quantity is submitted to the Regional Office, MoEFCC annually dated on 07.04.2023 vide letter number

	Groundwater Department. A	OCM/ENV/1508/2023
	report on amount of water recharged needs to be	, , , , , , , , , , , , , , , , , , , ,
	submitted to Regional Office, MoEF & CC annually.	The Details are enclosed in Annexure No-27
40	Industrial waste water(workshop and waste water	Complied.
	from the mine) should be properly collected and	All the industrial water are channelized and
	treated in an ETP as proposed so as to conform to the	properly collected and treated in an ETP. Oil &
	notified standards prescribed from time to time. The	Grease trap is also provided.
	standards shall be prescribed through Consent to	<u>+</u>
	Operate (CTO) issued by concerned State Pollution Control Board (SPCB) .The workshop effluent shall be	CONTROL MATERIAL
	treated after its initial passage through Oil and grease	and page late
	trap.	
	·	Jagur, Cristina, India oili, Guroposa, Apair Celiria, India
		Google Lucia AM
41	The water balance/water auditing shall be carried out	Complied . The water balance chart is maintained
	and measure for reducing the consumption of water	and monitored. And the action plan for the
	shall be taken up and reported to the Regional Office of the MoEF & CC and State Pollution Control Board.	reduction of water is made and submitted to the MoEF & SPCB.
	of the Moer & CC and State Pollution Control Board.	The details are enclosed in Annexure – 28
iii	Noise and Vibration Monitoring Prevention	The details are enclosed in Almexare 25
42	The peak particle velocity at 500m distance or within	Complied.
	the nearest habitation whichever is closer shall be	Ground vibration monitoring of blasting is carried
	monitored periodically as per applicable DGMS	out regularly by competent person as per the
	guidelines.	DGMS guidelines.
		The details are enclosed in Annexure - 29
43	The illumination and sound at night at project sites	Complied.
73	disturb the villages in respect of both human and	Noise monitoring is done by NABL Laboratory
	animal population. Consequent sleeping disorders and	both in day and night and the noise limit falls
	stress may affect the health in the villages located	under the prescribed standards
	close to mining operations. Habitations	
	have a right for darkness and minimal noise levels at	The Noise Monitoring report is enclosed in
	night. PPs must ensure that the biological clock of the	Annexure - 30
	villages is not disturbed; by orienting the floodlights/	
	masks away from the villagers and keeping the noise	
	levels well within the	
44	prescribed limits for day /night hours. The Project Proponent shall take measures for control	Complied.
	of noise levels below 85 dBA in the work environment	Noise level is being monitored and it shows
	The worker engaged in operations of HEMM, etc.	below the prescribed limits. All the workers are
	should be provided with ear plugs /muffs. All	working in HEMM are provided with ear plugs
	personnel including laborers working	and the workers working in dusty are provided
	in dusty areas shall be provided with protective	with protective respiratory devices.
	respiratory devices along with adequate training,	
	awareness and information on safety and health	The Noise Monitoring report is enclosed in
	aspects. The PP shall be held responsible in case it has	Annexure – 30
	been found that workers/ personals/laborers are	
i	working without personal protective equipment. Mining Plan	
iv	i iviinino Pian	
45	The Project Proponent shall adhere to the working	Complied.

	parameters of mining plan which was submitted at	Mining activities is being carried out as per the
	the time of EC appraisal wherein year-wise plan was	approved mining plan. There is no such changes,
	mentioned for total excavation ie. quantum of	and in case of any changes, prior
	mineral, waste over burden inter burden and top soil	permission/approval will be taken from MoEF &
	etc. No change in basic mining proposal like mining	CC.
		CC.
	technology total excavation, mineral & waste	
	production, lease area and scope of	
	working (viz method of mining. overburden & dump	
	management, O.B & dump mining, mineral	
	transportation mode. ultimate depth of mining etc)	
	shall not be carried out without prior approval of the	
	Ministry of Environment Forest and Climate Change	
	which entail adverse environmental impacts, even if it	
	is a part of approved mining plan modified after grant	
	of EC or granted by State Govt in the form to Short	
	Term Permit (STP), Query license or any other name.	
46	The Project Proponent shall get the Final Mine	It is not applicable, as there is no FMCP required
	Closure Plan along with Financial Assurance approved	now.
	from Indian Bureau of Mines/Department of Mining &	
	Geology as required under the Provision of the MMDR	
	Act 1957 and Rules/Guidelines made there under. A	
	copy of approved final mine closure plan shall be	
	Submitted within 2 months of the approval of the	
	same from the competent authority to the concerned	
	Regional Office of the Ministry of Environment, Forest	
	and Climate Change for record and verification	
47	The land-use of the mine lease area at various Stages	The land use patter is being followed as per the
	of mining scheme as well as at the end-of-life shall be	approved mining plan by IBM
	governed as per the approved Mining Plan. The	
	excavation vis-a-vis backfilling vis-à-vis backfilling in	The excavation vis-a-vis backfilling in the mine
	the mine lease area and corresponding afforestation	lease area is followed as per mining plan.
	to be raised in the reclaimed area shall be governed	
	as per approved mining plan. PP shall ensure the	
	monitoring and management of rehabilitated areas	
	until the vegetation becomes self-sustaining. The	
	compliance status shall be submitted half-yearly to	
	the MoEF & CC and its concerned regional Office/	
	SEIAA, Odisha	
٧	Land Reclamation	
48	The Overburden (O.B.) generated during the mining	Complied.
	operations shall be stacked at earmarked OB dump	The OB generated is stacked in OB dump site
	site(s) only and it should not be kept active for a long	with proper height, width and angle of slope as
	period of time. The physical parameters of the OB	per the approved mining plan.
	dumps like height, width and angle of slope shall be	
	governed as per the approved Mining Plan as per the	All the generated top soil is used for afforestation
	guidelines/circulars issued by D.G.M.S. w.r.t. safety in	purpose.
	mining operations shall be strictly adhered to	' '
	maintain the stability of top soil/OB dumps. The	
	topsoil shall be used for land reclamation and	
	plantation.	
	•	1

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The reject/waste generated during the mining operations shall be stacked at earmarked waste dump site(s) only. The physical parameters of the waste dumps like height, width and angle of slope shall be governed as per the approved Mining Plan as per the guidelines/circulars issued by DGMS w.r. safety in mining operations shall be strictly adhered to maintain the stability of waste dumps.

The reclamation of waste dump sites shall be done in

Complied.

The OB generated during the mining operation is stacked at the OB dump site which is having proper height, width and angle of slope as per the approved mining plan & other circulars.

The reclamation of waste dump sites shall be done in scientific manner as per the Approved Mining Plan cum Progressive Mine Closure Plan.

50

It is being followed & complying as per Approved Mining Plan cum Progressive Mine Closure Plan.

51 The slope of dumps shall be vegetated in scientific manner with stable native species to maintain the slope stability. Prevent erosion and surface run off. The selection of local species regulates local climatic parameters and help in adaptation of plant species to the microclimate. The gullies formed on slopes should be adequately taken care of as it impacts the overall stability of dumps. dump mass should be consolidated with the help of compactors thereby dozer/ ensuring filling/levelling of dump mass. In critical areas, use of geo textiles/geo-membranes / clay inners/ Bentonite etc. shall be undertaken for stabilization of the dump.

Complied.

Dump slopes are planted with suitable native species for stability of the dump and along with that retaining wall provided all along the toe of the dump to prevent erosion.





Plantation on Dump slope

Retaining wall & Garla drain at Toe Dump



Care of the gullies on Dump slope

Geo-textile & Silpaulin are used to prevent erosion & surface run-off. Also the Geo-textile & Silpaulin helps to stabilize the dump by preventing the rain water to percolate in the OB dump.

In long term effect these Geo-Textile decompose with the soil and makes the soil more fertile which in turns acts as a manure for the plants planted in the benches of the dump.



		More photographs provided in Annexure No-31
52	The Project Proponent shall carry out slope stability study in case the dump height is more than 30 meters. The slope stability report shall be submitted to concerned regional office of MoEF & CC. Govt. of India, Bhubaneswar as well as SEIAA, Odisha.	Complied. Slope Stability study has been conducted by CIMFR, Dhanbad. And report is already submitted to the MoEF & SEIAA The Study report has already submitted vide letter No:OCM/ENV/1144/2022, dated 08.08.2022 to MoEF & CC and vide letter no::OCM/ENV/1140/2022, dated 08.08.2022. Submitted letter copy is enclosed for reference as Annexure No32
53	Catch drains, settling tanks and siltation ponds of appropriate size shall be constructed around the mine working, mineral yards and topsoil/OB /waste dumps to prevent runoff of water and flow of sediments directly into the water bodies (Nallah/River Pond etc.). The collected water should be utilized for watering the mine area, roads, green belt development, plantation etc. The drains/sedimentation sumps etc. shall be de silted regularly, particularly after monsoon season, and maintained properly.	complied. We have already implemented catch drains & settling ponds of appropriate size to prevent runoff of water and flow of sediments directly into the water bodies.
		Retaining wall & Garland drain Further, all the drains & settling ponds are desilted regularly.
54	Check dams of appropriate size, gradient and length shall be constructed around mine pit and OB dumps to prevent storm run-off and sediment low into adjoining water bodies. A safety margin of 50% shall be kept for designing of sump structures over and above peak rainfall (based on 50 years data) and maximum discharge in the mine and its adjoining area which shall also help in providing adequate retention time period thereby allowing proper settling of sediments/ silt material. The sedimentation pits/ sumps shall be constructed at the corners of the garland drains.	Complied. Check-dams of appropriate size, gradient and length is constructed around mine pit, OB Dump & garland drain, here to arrest the slime/suspended solid particles flowing through the streams. Considering peak rainfall, the surface run off study has been conducted by domain expert, the settling pond along with other measures are designed & constructed accordingly.
55	Storm water and leached water for treatment shall be led in separate pipes and where required, retaining wall, settling pond and check dam shall be constructed within the lease hold area for conservation of rainwater and prevention of soil loss.	Complied. Storm Water drains are provided wherever required & retaining wall, settling pond & check dam are constructed in the lease hold area accordingly. Further, garland drain, retaining wall, settling pond & roof top rain water harvesting system is implemented for conservation of rain water.

		Roof Top Rainwater Harvesting Pit Harvesting
		Garland drain Check Dam
56	The top soil, if any, shall temporarily be stored at earmarked site(s) within the mine lease only and should not be kept unutilized for long. The physical parameters of the top soil dumps like height, width and angle of slope shall be governed as per the approved Mining Plan and as per the guidelines framed by DGMS w.r.t. safety in mining operations shall be strictly adhered to maintain the stability of dumps. The topsoil shall be used for land reclamation and plantation purpose	There is no generation of topsoil during the period Oct'22 to Mar'23. All the earlier generated topsoil already had been utilized for afforestation purpose.
57	The mining lease holder shall, after ceasing mining operations undertake regressing the mining area and any other area which may have been disturbed due to their mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc.	It is Not Applicable . It shall be taken care as per after cession of Mining activities in consultation with competent authority.
58	Slope study by an expert of repute of water dumps to be done and submitted within six months from the date of issue of EC to SEAC/SEIAA	Complied. Slope Stability Study is conducted, and the report already submitted SEIAA. Submission reference copy is attached as Annexure No32
vi	TRANSPORTATION	
59	No Transportation of the minerals shall be allowed in case of roads passing through transportation of the minerals leaving an adequate gap (say at least 200 meters) .so that the adverse impact of sound and dust along with chances of accidents could be mitigated. All costs resulting from widening and strengthening of existing public road network shall be borne by the PP in consultation with nodal State Govt. Department. Transportation of minerals through road movement in case of existing village/rural roads shall be allowed in consultation with nodal State Govt. Department only after required strengthening such that the carrying capacity of roads	Complied Transportation is carried out on the same road as used before the expansion i.e TOMKA-MANGALPUR Highway. Road connecting to TOMKA-MANGALPUR highway, is being always maintained to avoid dust generation. Further, water sprinkling is carried out to mitigate the dust generation. an amount of 180 Crore is already sanction for the same road to widen & strengthen it, from DMF.

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is increased to handle the traffic load. The pollution due to transportation load on the environment will be effectively controlled and water sprinkling will also be done regularly .Vehicular emissions shall be kept under

control and regularly monitored. Project should obtain Pollution Under Control (PUC) certificate for all the vehicles from authorized pollution testing centers



And also, another bridge connecting to Mines transportation road is already under construction.





Bridge work connection to Mine transporting road is under p

All the vehicle used for mines & vehicle carrying mineral having valid PUC Certificates which are ensured regularly.

The Main haulage road within the mine lease should 60 be provided with a permanent water arrangement for dust suppression. Other roads within the mine lease should be wetted regular with tanker-mounted water sprinkling system. The other areas of dust generation like crushing zone, material transfer points, material yards etc. should invariably be provided with dust suppression arrangements. The air pollution control equipment like bag filters, vacuum suction hoods, dry fogging system etc. shall be installed at Crushers, beltconveyors and other areas prone to air pollution. The belt conveyor should be fully covered to avoid generation of dust while transportation. PP shall take necessary measures to avoid generation of fugitive dust emissions.

Complied

For dust suppression system, one fixed water pipe line is provided along with two dedicated permanent water tanker which sprinkles out the water in the haul roads regularly in a scheduled way. Other than that we have 4 offline AAQMS and one online AAQMS located at different locations of the mine which monitors the quality of the ambient air.

There is water provision of water sprinkling at crusher whenever required

There is no transportation being carried out through belt conveyor. So, it is not applicable.

The photographs of the water sprinkling & AAQMS is enclosed in **Annexure No-33**

The pollution due to transportation load on the environment will be effectively controlled and water sprinkling will also be done regularly. Vehicular emissions shall be kept under control and regularly monitored. Project should obtain Pollution under Control (PUC) certificate for all the vehicles from authorized pollution testing centers.

61

Complied.

It is done effectively and in a controlled manner. Also water sprinkling is done regularly. All vehicles have also obtained PUC certificate is obtained from authorized pollution testing centers.

62 Haulage road shall be developed and maintained **Co**

Complied.

	perennially and perpetually by the proponent in construction with the concerned authority of the Govt. and to this effect, the proponent shall submit an undertaking in form of a legal affidavit.	The haulage road is developed and maintained regularly. Legal affidavit is attached. The Undertaking is submitted to the Concerned Authority enclosed as Annexure No-34
63	Traffic Density study if not done by domain expert, then the expert to be ratified/ authenticated by domain expert and submitted within a month time.	Complied. Traffic density study has been conducted by domain expert & submitted along with final EIA.
		The reference copy of Traffic study report is enclosed as Annexure – 35
VII	Green Belt	
64	The Project Proponent shall develop greenbelt in 7.5m wide safety zone all along the mine lease boundary as per the guidelines of CPCB in order to arrest pollution emanating from mining operations within the lease. The whole Green belt shall be developed within first 5 years starting from windward side of the active mining area The development of greenbelt shall be governed as per the EC granted by the Ministry irrespective of the stipulation made in approved mine plan	Green belt (Plantation) has been developed all along the mining lease boundary. As per forest act all along the forest boundary line 7.5 m safety
65	The Project Proponent shall carryout plantation/ afforestation in backfilled and reclaimed area of mining lease, around water body. Along the roadsides, in Community areas etc. by planting the native species in consultation with the State Forest Department/ Agriculture Department/ Rural development department/ Tribal Welfare Department/ Gram Panchayat such that only those species be selected which are of use to the local people. The CPCB guidelines in this respect shall also be adhered. The density of the trees should be around 2500 saplings per Hectare Adequate budgetary provision shall be made for protection and care of trees.	Complied. There is no backfilled area inside the mining lease. Further community plantation program are being carried out with consultation of Forest Department & Gram Panchayat. Adequate funds provision is there to take care of the plantation. Plantation carried out in consultation with Forest department & within safety zone is enclosed as Annexure No- 36
66	The Project Proponent shall make necessary alternative arrangements for livestock feed by developing grazing land with a view to compensate those areas which are coming within the mine lease The development of such grazing land shall be done in consultation with the State Government. In this regard, Project proponent should essentially implement the directions of the Hon'ble Supreme Court with regards to acquisition of grazing land. The sparse trees on such grazing ground, which provide mid-day shelter from the scorching sun, should be scrupulously guarded/protected against felling and plantation of such trees should be	It is not applicable as there is no grazing land within the lease area.

	promoted.	
67	The Project Proponent shall undertake all precautionary measures for conservation and protection of endangered flora and fauna and Schedule-I species during mining operation. A Wildlife Conservation Plan shall be prepared for the same clearly delineating action to be taken for conservation of flora and fauna. The Plan shall be approved by Chief Wildlife Warden of the State Govt. and implemented in consultation with the State Forest and Wildlife Department. A copy of Wildlife Conservation Plan and its implementation status (annual) shall be submitted to the Regional Office of the Ministry.	Complied Wildlife Conservation plan has been prepared by accredited Consultant and It is approved from the office of the principle chief conservation of forest. Approval Ref Vide No.: 10183/CWLW-FDWC-FD-0033-2022, dated 11.11.2022. A copy of approved wildlife Management plan is submitted Vide letter No.: OCM/ENV/1571 /2023, dated 28.04.2023
		The copy of the approval along with implementation status is enclosed & as Annexure - 30
VIII	Public Hearing and human health issues	
68	The Project Proponent shall appoint an Occupational Health Specialist for Regular as well as Periodical medical examination of the workers engaged in the mining activities as per the DGMS guidelines. The records shall be maintained properly. PP shall also carryout Occupational health check-ups in respect of workers which are having ailments like BP, diabetes, habitual smoking, etc. The check-ups shall be undertaken once in six months and necessary remedial preventive measures be taken. A status report on the same may be sent to MoEF & CC Regional Office and DGMS on half-yearly basis.	One Occupational Health special is appointed as per DGMS guideline. Check-ups are undertaken once in six month & necessary preventive measures are taken. Status report is sent to MoEF & DGMS on half-yearly basis. The details of the Medical Check up given in Annexure No37 Status report is submitted & copy is enclosed as Annexure No 38
69	A commitment in form of an undertaking for periodical occupational health check-up of the employee and the local people shall be done through an occupational health expert.	All the employees & local people are being undertaken for periodical health check up through an occupational health expert. Undertaking is enclosed as Annexure No39
70	The Project Proponent must demonstrate	Complied
	commitment to work towards Zero Harm from their	Mine management is committed to work for zero

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mining activities and carry out Health Risk Assessment (HRA) for identification workplace hazards and assess their potential risks to health and determine appropriate control measure to protect the health and wellbeing of workers and nearby community. The proponent shall maintain accurate and systematic records of the HRA. The HRA for neighborhood must focus on **Public** Health Problems like Malaria Tuberculosis. HIV, Anaemia, Diarrhoea in children under five respiratory infections due to bio-mass cooking. The proponent shall also create awareness and educate the nearby community and workers for Sanitation Personal Hygiene, Hand washing not to defecate in open, Women Health and Hygiene (Providing Sanitary hazard of tobacco and use. The Proponent shall carryout base line HRA for all the category of workers and thereafter every five years.

harm from the mining activities and carrying out appropriate measures for Risk assessment and identification of workplace hazards and assess the potential risks for health and taking appropriate control measures to protect the health of workers and the nearby community. Mine management is conducting HRA among the neighborhoods to focus on malaria, Dengue, Tuberculosis, HIV, Anaemia, Diarrhoea and ARIs in children and adults. Regular awareness program is being conducted in the nearby villages for sanitization, personal hygiene, hand washing, not to defecate in open places, women health, hazards of smoking tobacco, drinking alcohol. Awareness program are being taken for control of malaria and Dengue and Tuberculosis.

HRA have prepared and enclosed as **Annexure No.-40** and awareness programme have been conducted, enclosed as **Annexure -40A**



The Proponent shall carry out Occupational health surveillance which be a part of RA and include Biological Monitoring where practical and feasible and the tests and investigations relevant to the exposure (e g for Dust a XRay chest,For Noise Audiometric; for Lead Exposure Blood Lead, For Welders Full Ophthalmologlo Assessment; for Manganese Miners a complete Neurological Assessment by a Certified Neurologist, and Manganese (Mn) estimation in Blood; For Inorganic

71

Complied

Steps have been taken to carry out occupational health surveillance for works engaged in mines activities like audiometric tests for blasters, full opthalmolocal tests for welders, for inorganic chromium exposure, fortnightly skin inspection by medical officer.

Since Ostapal Chromite mines is only producing

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Chromium-Fortnightly skin inspection of hands and forearmes by a responsible person. Except routine teste all tests would be carried out in a Lab accredited by NABH. Records of Health Surveillance must be kept for 30 years, including the results of and the records of Physical examination and tests. The record of exposure due to materials like Asbestos, Hard Rock Silica, Gold, Kaolin, Aluminium, Iron, Mining, Manganese, Chromium, Lead, Uranium need to be handed over to the Mining Department of the State in life of the mine case the is less 30 years. It would be obligatory for the State Mines Departments to make arrangements for the safe and secure storage of the records including X-Ray. Only conventional X-Ray will be accepted for record purposes and digital not the X-Ray must meet ILO criteria (17 xl4 inches and of good quality)

chromite ore all other mineral such as Asbestos, Silica, Gold, Kaolin, Aluminium, Iron, Manganese, Lead, Uranium is not applicable Record is maintained and kept properly.

Annexure No.-40B is enclosed for ready reference.

- 72 The Proponent shall maintained a record of performance indicators for workers which includes
 - (a) there should not be a significant decline in their Body Mass Index and it should stay between 18.5-24.9 (b) the Final Chest X-Ray compared with the base line X-Ray should not show any capacities (c) At the end of their leaving job there should be no in their Lung **Functions** Expiratory Volume in one second (FEV1), Forced Vital Capacity (FVC), and the ratio) unless they are smokers which has to be adjusted, and the effect of age, (d)their hearing should not be affected. As a proof an Audiogram (first and last need to be presented), (e) they should not have developed any Persistent Back Pain Neck Pain, and the movement of their Hip, Knee and other joints should have normal range of movement,
 - (f) they should not have suffered loss of any body part.

The record of the same should be submitted to the Regional Office, MoEF & CC annually along with details of the relief and compensation paid to workers having above indications

Performance Indicator for workers & employees are being maintained.

- a) There is no significant decline in their Body Mass Index and it is between 18.5-24.9
- (b) the Final Chest X-Ray compared with the base line X-Ray does not show any capacities (c) At the end of leaving job there is be no Diminution in their Lung Functions Forced Expiratory Volume in one second (FEV1), Forced Vital Capacity (FVC), and the ratio) unless they are smokers which has to be adjusted, and the effect of age,
- (d)Their hearing is not affected. As a proof an Audiogram is presented),
- (e) they have not developed any Persistent Back Pain Neck Pain, and the movement of their Hip, Knee and other joints should have normal range of movement,
- (f) they have not suffered loss of any body part.

Status of the same are given for reference. And the record is also being maintained. Report is also herewith submitted for MoEF & CC, as **Annexure No.-41**.

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73 The Project Proponent shall ensure that Personnel working in dusty areas should wear protective respiratory devices and they should also be provided with adequate training and information on safety and health aspects

Complied.

Person working in dusty area wears protective respiratory devices during work. Further, all the vehicle engaged in operation are closed door vehicle (Having A/C facilities).

Regular awareness training is provided to all employees on safety & health.





Close door vehicle used

Training on safety Health

Further, Monthly Safety Town hall is conducted for creating more awareness on safety & Health.



Safety Town hall on March'2023

74 Project Proponent shall make provision for the housing for workers/labors or shall construct labor camps within/outside (company owned land) with necessary basic infrastructure/ facilities like fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, creche for kids etc. The housing may be provided in the form of temporary structures which can be removed after the Completion of the project related infrastructure. The domestic waste water should be treated with STP in order to avoid contamination of underground water.

Complied

All most all the workers/labors are coming from local area. So, colony is not required for them. There are two STP Provided having capacity 30KLD (20 + 10 KLD) for treatment of domestic effluents





20 KLD STP

10 KLD

75	The proponent shall implement the mitigative	To prevent contamination of Hexavalent
, ,	measures as suggested in the Study Report on effect	chromium study has conducted by NIT , Rourkela.
	of chromite mines to nearest human habitation	All the suggestions are strictly implemented.
		Details have been given in Annexure No2.
IX	Corporate Environment Responsibility (CER)	
76	As per the MoEF & CC, Govt. of India Office Memorandum dated 30,.09.2020, the project proponent is enquired to prepare and implement Corporate Environment Responsibility (CER) Plan. The activities proposed under CER shall be restricted to the affected area around the project. The company shall undertake all relevant measures for improving the socio-economic conditions of the surrounding area. CSR activities shall be undertaken by involving local villages and administration. The activities proposed for CER shall be implemented and to be completed within three years and annual report of implementation of the same along with documentary proof viz. photographs, purchase documents, latitude & longitude of infrastructure developed & road constructed needs to be submitted to Regional Office MoEF & CC annually along with audited statement and to the District Collector. It should be posted on the website of the project proponent.	CER action plan has been prepared and submitted in EIA. Activities proposed under CER is restricted to only affected area. All the improvement is being undertaken by involving local community. All the CER proposal will be completed within the timeline. Work is under progress, and it is a continuous process. Details of the CSR Expenses and evidence are enclosed in Annexure No9
77	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 of MoEF & CC, Bhubaneswar, SPCB Odisha	The report is submitted to MoEF & CC and to the District Collector, Jajpur vide letter No. OCM/ENV/1554/2023, dated 20.04.2023., Ref Annexure No 9A. And the same also posted in website www.facorgroup.in EMP action plan has been prepared & approved from competent authority & implemented accordingly. Year wise funds earmarked is maintained in separate account provision. The details expenditure towards EMP is enclosed as Annexure - 10
	along with the Six Monthly Compliance Report.	
Χ	Miscellaneous	
78	The Project Proponent shall prepare digital map (land use & land cover of the entire lease area once in five years purpose of monitoring land use pattern and submit a report to concerned Regional Office of the MoEF & CC	Complied. We are having a digital map for the entire lease and submitted to IBM. The details of the land use pattern is already submitted to Regional office MoEF & CC , vide letter No.OCM/ENV/1142/2022, dated 08.08.2022 The submitted letter is enclosed as Annexure No42

	The Project Authorities should inform to the Regional	It is NA as of now.
79	Office regarding date of financial closures and final	Currently the mines is in running condition and
	approval of the project by the concerned authorities	therefore, the final closer is not required.
	and the date of start of land development work.	therefore, the final closer is not required.
80	The project proponent shall establish a solar power	Complied.
	plant with 30KVA capacity within the lease area as	Employees are staying outside the lease area and
	proposed.	in that area there in solar power installed of
		about 40 KVA, for house hold use.
81	It shall be mandatory for the project management to	Complied.
	submit six (06) monthly compliance reports on post	The six-monthly compliance report is submitted
	environmental monitoring in respect of the stipulated	along with all the environment monitoring
	terms and conditions in this Environmental Clearance	report.
	to the State Environment	And it is also uploaded in the website.
	Impact Assessment Authority (SEIAA) Odisha. SPCB&	
	Regional Office of the Ministry of Environment &	The last six-monthly Environment Compliance
	Forest. Odisha in hard and soft copies on 1 June and 1	report was submitted on 30.11.2022 vide letter
	December of each calendar year. The proponent shall	number OCM/ENV/1208/2022
	also upload the	
	Compliance report including results of monitored data	The submitted copy of last six-monthly
	as applicable in the website of the Ministry for	compliance copy is attached in Annexure No-43
	monitoring of EC Conditions	
82	The environmental statement for each Financial year	Complied.
	ending 31 March in Form-V as mandated to be	Environment statement copy is submitted to
	submitted by the project proponent to the Odisha	Odisha State Pollution Control Board, Regional
	State Pollution Control Board as prescribed under the	Pollution Control Board & Regional office of
	Environment (Protection) Rules 1986, as amended	MoEF & CC.
	subsequently, shall also be put on the website of the company along with the status of compliance of EC	And It is also uploaded in the website for last FY 2021-22 in the
	conditions and shall also be sent to the respective to	Website link:
	the MoEF & CC & its concerned Regional Office,	https://www.facorgroup.in/esg/compliances/
	Central Pollution Control Board and State Pollution	inteps.//www.racorgroup.in/esg/compilances/
	Control Board.	Submitted ref. letter copy of Environment
	control Board.	Statement vide letter No.:OCM/ENV/1357/2022,
		dated 29.09.2022, is enclosed as Annexure - 44
83	The proponent shall submit/upload six monthly	Complied.
	reports on the status of compliance of the stipulated	After Submitting the six monthly compliance
	Environmental Clearance conditions, including results	report for the period Oct'22 to Mar'23 ,it will be
	of monitored data on their website and shall update	uploaded in the website & it is uploaded
	the same periodically. It shall simultaneously be sent	periodically, and same is also submitted to
	to the Regional Office of MoEF &CC, Govt. of India,	Regional office, MoEF & CC, Regional Office of
	the respective Zonal Office of CPCB and the SPCB. The	the State Pollution Control Board.
	criteria pollutant levels namely: SPM, RSPM, SOz. NOx	All the critical parameters are monitored and also
	(ambient levels as well as stack emissions) or critical	displayed near main gate.
	sectoral parameters, indicated for the project shall be	
	monitored and displayed at a convenient location	
	near the main gate of the company in the public	
1 1	domain	

		T
		SERVICE DE TONOMO CONTROLLE ANNA CON
		Digital display Board Near Mian Gate
84	The Project Proponent shall submit six monthly compliance reports on the status of the implementation of the stipulated environmental safeguards to the MoEF &CC & its concerned Regional Office, SEIAA, Odisha, Central Pollution Control Board and State Pollution Control Board	Complied. Six monthly compliance report is submitted to MoEF & CC & Regional office of the State Pollution Control Board. The last Six Monthly Compliance report was submitted on 30.11.2022 vide letter number OCM/ENV/1208/2022
		The last Six Monthly Compliance submitted ref. copy is enclosed as Annexure No43
85	The SEIAA, Odisha may revoke or suspend this EC. if implementation of any of the above conditions is not satisfactory. The SEIAA, Odisha reserves the right to alter modify the above conditions or stipulate any further condition in the interest of environment protection.	Complied. All the implementations are as per the standards & complied.
86	The project proponent shall augment infrastructure	Complied.
	on drinking water, health care and education in nearby villages as per time bound action plan submitted	It is implemented as per action plan. Details of work done in the field of Drinking water , Health & Education is eclosed in Annexure No9
87	The project proponent shall obtain permission from DGMS under 106(2b) to carry out blasting operation within the lease area.	of MMR'1961 to carry out blasting operation ,obtained vide permission No.: NO: 180020 SEZ Bhubaneshwar Region Exemp 2021 8922, dated Date: 28/05/2021.Copy of permission is enclosed as Annexure – 45
88	The site will be visited by the sub-Committee of SEAC after six months to review the progress of recommendations of SEAC on specific conditions	All the condition mentioned are implemented & ready for review.
89	The concerned Regional Office of the MoEF & CC shall randomly monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the MoEF & CC officer(s) by furnishing the requisite data information / monitoring reports	It is ensured to extend the full support to the authority as per their requirement.

EC Identification No.: EC22B001OR120821, Dated: 04.04.2022

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90	The above conditions will be enforced inter alia,	Complied.
	under the provisions of the water Prevention &	
	Control of Pollution Act 1974, the Air (Prevention &	
	Control of Pollution) Act 1981, the Environment (Protection) Act 1986 and the Public	
	(Protection) Act 1986 and the Public Lability insurance Act, 1991 along with their	
	amendments and rules made there under and also	
	any other orders passed by the Hon'ble Supreme	
	Court of India High Court and any other Court of Law	
	relating to the subject matter	
91	This Environmental Clearance (EC) is subject to	
	orders/judgment of Hon'ble Supreme Court of India,	
	Hon'ble High Court. Hon'ble NGT and any other Court	HARDWINGSON I BOOK PROPERTIES
	of Law, Common Cause Conditions as may be applicable	
92	Any appeal against this environmental clearance shall	No appeal filed against this Environment
	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	
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MINES MANAGER 10 05 2023
OSTAPAL CHROMITE MINES