



सत्यमेव जयते

Government of India
Ministry of Environment, Forest and Climate Change
Compliance Report
2023
01 Dec(01 Apr - 30 Sep)



Proposal Details

Proposal Name		Surjagarh Iron Ore Mines of Lloyds Metals & Energy Ltd.	
Name of Entity / Corporate Office		Lloyds Metals & Energy Ltd.	
Village(s)		N/A	
District		GADCHIROLI	
Proposal No.	IA/MH/MIN/277982/2022	Category	Non-Coal Mining
Plot / Survey / Khasra No.	N/A	Sub-District	N/A
State	MAHARASHTRA	Entity's PAN	NA
MoEF File No.	J-11015/348/2005-IA.II(M)	Entity name as per PAN	NA

Compliance Reporting Details

Reporting Year	2023
Remarks (if any)	Six Monthly EC Compliance Report of Surjagarh Iron Ore Mines of Lloyds Metals & Energy Ltd. for the period April, 2023 to September, 2023
Reporting Period	01 Dec(01 Apr - 30 Sep)

Details of Production and Project Area

Name of Entity / Corporate Office	Lloyds Metals & Energy Ltd.	
	Project Area as per EC Granted	Annual Project Area in Possession
Private	0	0
Revenue Land	0	0
Forest	348.09	348.09
Others	0	0
Total	348.09	348.09

Production Capacity

Sr. no	Product Name	units	Valid Upto	Capacity	Production last year	Capacity as per CTO
1	Iron Ore	Million Tons per Annum (MTPA)	23/02/2032	10	3.58	10

Conditions

Specific Conditions

Sr.No.	Condition Type	Condition Details
1	AIR QUALITY MONITORING AND PRESERVATION	The Project Proponent should install the continuous ambient air quality monitoring stations (CAAQMS) as per the scientific study and in consultation with CPCB/SPCB. The real time data so generated should be displayed digitally at entry and exit gate of mine lease area for public display and shall be linked to server of CPCB/SPCB

PPs Submission: We are abiding the said condition and installed 3 no. of CAAQMS station covering all the aspects as specified in upwind & downwind directions such that an angle of 120 degree is maintained. The ambient air quality is also monitored at prominent places like office, building, canteen etc. as per the site condition to ascertain the exposure characteristics at specific places. The above data is also digitally displayed in front of the main gate of the mine site.

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PPs Submission: The project is carrying the plantation as per approved mining plan and gap filling plantation in safety zone areas, during reporting of FY 2023-24, the project has planted 750 no. of saplings in safety zone areas. It also ensured healthy saplings of native species are planted. The project has also developed a captive Nursery within the ML area having capacity of 5000 nos. The project is also monitoring the survival of the plants and records are maintained. The project is also ensuring the survival of more than 95% with proper care like watering, manuring, weeding etc. The plantation status of the same is being submitted to IRO, MOEF&CC on regular basis.

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PPs Submission: The over burden, waste and topsoil generated during the mining operations shall be stacked at ear marked OB dump sites only and it should not be kept active for a long period of time. The physical parameters of the OB / waste dump / top soil dump like height, width and angle of slope shall be governed as per the approved mining plan and the guidelines / circulars issued by DGMS. The top soil shall be used for land reclamation and planation.

PPs Submission: The over burden is stacked at the ear marked areas within the mines lease area. The top soil generated is utilized for plantation purposes. The OB / waste dump / top soil dump like height, width and angle of slope are maintained as per the approved mining plan and the guidelines / circulars issued by DGMS. The dump slopes are also covered with Coir mat and grass seed

Date:
27/11/2023

applications. The toe of dump is provided with gabion box type retaining walls		
4	Noise Monitoring & Prevention	The peak particle velocity at 500m distance or within the nearest habitation, whichever is closer shall be monitored periodically as per applicable DGMS guidelines.
PPs Submission: Workers engaged in Operations are provided with earplugs/muffs, besides this acoustic enclosure for all machine operating cabins are provided. It is being monitored by Noise Level Meter; the results reveals very well within norms.		Date: 27/11/2023
5	Corporate Environmental Responsibility	The Project Proponent shall submit the time- bound action plan to the concerned regional office of the Ministry within 6 months from the date of issuance of environmental clearance for undertaking the activities committed during public consultation by the project proponent and as discussed by the EAC, in terms of the provisions of the MoEF&CC Office Memorandum No.22-65/2017-IA. III dated 30 September, 2020. The action plan shall be implemented within three years of commencement of the project.
PPs Submission: A time bound action plan is submitted for the activities committed during public consultation and as discussed by the EAC. We are carting the committed works in phased manner; - Construction of 30 bedded Hospital work is completed, - English medium residential school work is under progress - For skill development training to locals, we have trained more than 647 locals in different skills like Driving, Plumbing, Fire Fighting, Auto Electrician, Mechanical, Lathe, Tyre Fitter, Wheel Loader etc. - Solar based pumps provided to farmers - Tribal bhawan work is under progress - Village road augmentation work is under progress.		Date: 27/11/2023
6	Human Health Environment	The Project Proponent should periodically monitor and maintain the health records of the mine workers digitally prior to mining operations, at the time of operation of mine and post mining operations. Regular surveillance shall be carried through regular occupational health check-up every year for mine workers. PP shall also organize medical camp for the benefit of the local people and also the monitor the health impacts due to mining activity.
PPs Submission: The Project is periodically monitoring and maintaining the health records of the mine workers digitally. Regular surveillance is also carried through regular occupational health check-up as per DGMS guidelines. We have also organized number of Mega Medical camp for the benefit of the local people and also the monitoring the health impacts due to mining activity.		Date: 27/11/2023
7	Noise Monitoring & Prevention	The peak particle velocity at 500m distance or within the nearest habitation, whichever is closer shall be monitored periodically as per applicable DGMS guidelines.
PPs Submission: The project is monitoring the peak particle velocity as per DGMS guidelines periodically. There is no presence of any village within 1.75 Kms from the lease boundary. The results are very well within the norms		Date: 27/11/2023
8	PUBLIC HEARING	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, crèche 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.
PPs Submission: We have made the provision for the housing for workers/labors outside the lease		Date:

area with necessary basic infrastructure/ facilities like fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, creche for kids etc.

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General Conditions

Sr.No.	Condition Type	Condition Details
1	Noise Monitoring & Prevention	The PP shall take measures for control of noise levels below 85 dBA in the work environment. The workers engaged in operations of HEMM, etc. Should be provided with ear plugs/muffs. All personnel including labourers working in dusty areas shall be provided with protective respiratory devices along with adequate training, awareness and information on safety and health aspects. The PP shall be held responsible in case it has been found that workers / personals / labourers are working without personal protective equipment.
PPs Submission: Workers engaged in Operations are provided with earplugs/muffs & other safety gadgets, besides this acoustic enclosure for all machine operating cabins are provided. It is being monitored by Noise Level Meter; the results reveals very well within norms.		Date: 28/11/2023
2	WATER QUALITY MONITORING AND PRESERVATION	In case, immediate mining scheme envisages intersection of ground water table, then EC shall become operational after receiving formal clearance from CGWA. In case mining operation involves intersection of ground water table at a large stage, then PP shall ensure that prior approval from CGWA & MOEF&CC is in place before such mining operations. The permission for intersection of GW table shall be essentially be based on detailed hydro-geological study of the area.
PPs Submission: There is no intersection of the ground water table as the ultimate mining working is at 460 RL and ground water table exists at 260 RL.		Date: 28/11/2023
3	WATER QUALITY MONITORING AND PRESERVATION	In case, immediate mining scheme envisages intersection of ground water table, then EC shall become operational after receiving formal clearance from CGWA. In case mining operation involves intersection of ground water table at a large stage, then PP shall ensure that prior approval from CGWA & MOEF&CC is in place before such mining operations. The permission for intersection of GW table shall be essentially be based on detailed hydro-geological study of the area.
PPs Submission: There is no intersection of the ground water table as the ultimate mining working is at 460 RL and ground water table exists at 260 RL.		Date: 28/11/2023
4	WATER QUALITY MONITORING AND PRESERVATION	The PP shall undertake regular monitoring of natural water resources / springs and perennial nalalhs existing / flowing in and around the mines lease including U/S and D/S. Sufficient number of gullies shall be provided at appropriate places within the lease for management of water. The parameters to be monitored shall include their water quality vis-à-vis suitability for usage as per CPCB criteria and flow rate. It shall be ensured that no obstruction and or alteration be made to water bodies during mining operations without justification and prior approval of MoEF&CC. the monitoring of water courses / bodies existing in lease area shall be carried out four times in a year viz. Pre –monsoon (April-May), Monsoon (August), Post monsoon (November) and Winter (January); and the record of monitored data may be sent regularly to Ministry of Environment and Forests and its Regional Office, Central Ground Water Authority and

		Regional Director, Central Ground Water Board, SPCB and CPCB clearly showing the trend analysis on six monthly basis.
<p>PPs Submission: We are abiding by the said condition and carrying out the monitoring of the water bodies as per the guidelines. There is no obstruction of water bodies within the ML area. The project is also carrying flow rate and quality analysis on regular basis as per specified schedule. The reports of same are also submitted to the authorities on six monthly basis.</p>		Date: 28/11/2023
5	WATER QUALITY MONITORING AND PRESERVATION	PP shall plan, develop and implement rainwater harvesting measures on long term basis to augment ground resources in the area in consultation with the Regional Director, Central Ground Water Board / SGWD. A report on amount of water recharged needs to be submitted to RO, MoEF&CC annually.
<p>PPs Submission: The project has already implemented rain water harvesting structures in mines premises having number of Check dams and settling cum harvesting ponds at the strategic location of the project area towards augmentation of the ground water resources</p>		Date: 28/11/2023
6	WATER QUALITY MONITORING AND PRESERVATION	Industrial waste water (workshop and waste water from the mine) should be properly collected and treated so as to conform to the standards prescribed from time to time. The standards shall be prescribed through CTO issued by the concerned SPCB. The workshop effluent shall be treated after its initial passage through Oil and grease trap.
<p>PPs Submission: The project has established oil & grease trap system having oil skimmer for treatment of workshop effluents at the Maintenance Workshop Area. The treated water is being analyzed and test result found to be well within the norms.</p>		Date: 28/11/2023
7	WATER QUALITY MONITORING AND PRESERVATION	The water balance / water audit shall be carried out and measure for reducing the consumption of water shall be taken up and reported to the Regional Office of MoEF&CC and SPCB / Committee.
<p>PPs Submission: We will abide by the said condition and the water balance / water audit will be carried out and measure for reducing the consumption of water shall be taken up and reported to the Regional Office of MoEF&CC and SPCB / Committee.</p>		Date: 28/11/2023
8	WATER QUALITY MONITORING AND PRESERVATION	The water balance / water audit shall be carried out and measure for reducing the consumption of water shall be taken up and reported to the Regional Office of MoEF&CC and SPCB / Committee.
<p>PPs Submission: We will abide by the said condition and the water balance / water audit will be carried out and measure for reducing the consumption of water shall be taken up and reported to the Regional Office of MoEF&CC and SPCB / Committee.</p>		Date: 28/11/2023
9	Noise Monitoring & Prevention	The peak particle velocity at 500m distance or within the nearest habitation, whichever is closer shall be monitored periodically as per applicable DGMS guidelines.
<p>PPs Submission: The project is monitoring the peak particle velocity as per DGMS guidelines periodically for each blasting activity and there is no presence of any village within 1.75 Kms from the lease boundary. The monitoring results found are very well within the norms</p>		Date: 28/11/2023
10	Noise Monitoring & Prevention	The illumination and sound at night at project sites disturb the villages in respect of both human and animal population. Consequent sleeping disorders and stress may affect the health in the villages located close to mining operations. Habitations have a right for darkness and minimal noise levels at night. PPE's must ensure that the biological clock of the villages is not disturbed; by orienting the floodlights/masks away from the villagers and keeping the noise

		levels well within the prescribed limits for day light/night hours.
<p>PPs Submission: There is no presence of any village within 1.75 Kms from lease boundary. No lighting system is facing towards the villages, so there is no disturbance of the biological clock of the villagers. The mine is also carrying the controlled blasting, so there is no impact of dust and noise on the villagers due to blasting.</p>		<p>Date: 28/11/2023</p>
11	LAND RECLAMATION	<p>The over burden, waste and topsoil generated during the mining operations shall be stacked at ear marked OB dump sites only and it should not be kept active for a long period of time. The physical parameters of the OB / waste dump / top soil dump like height, width and angle of slope shall be governed as per the approved mining plan and the guidelines / circulars issued by DGMS. The top soil shall be used for land reclamation and planation.</p>
<p>PPs Submission: The over burden is stacked at the ear marked areas within the mines lease area. The top soil generated is utilized for plantation purposes. The OB / waste dump / top soil dump like height, width and angle of slope are maintained as per the approved mining plan and the guidelines / circulars issued by DGMS. The dump slopes are also covered with Coir mat and grass seed applications. The toe of dump is provided with gabion box type retaining walls followed by garland drains.</p>		<p>Date: 28/11/2023</p>
12	LAND RECLAMATION	<p>The slope of dumps shall be vegetated in scientific manner with suitable native species to maintain the slope stability, prevent erosion and surface run off, the selection of local species regulates climatic parameter and help in adaptation of plant species to the microclimate. The Gullies formed on slopes should be adequately taken care of as it impacts the overall stability of dumps. The dump mass should be consolidated with the help of dozer/compactors thereby ensuring proper filling/ leveling of dump mass. In critical area, use of geo textiles/geo-membranes/clay liners/Bentonite etc. shall be undertaken for stabilization of the dump. .</p>
<p>PPs Submission: The slope of dumps are properly terraced and stabilized with coir mat and grass seed applications. The dumps are compacted with the help of dozer/compactors thereby ensuring proper filling/ leveling of dump mass. In critical area, geo textiles/ geo-membranes are used for stabilization of the dumps.</p>		<p>Date: 28/11/2023</p>
13	LAND RECLAMATION	<p>Catch drain, settling tanks and siltation ponds of appropriated size shall be constructed around the mine working, minerals yards and top Soil/OB/Waste dumps to prevent run off of water and flow of sediments directly into the water bodies (Nallah/River/Ponds 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</p>
<p>PPs Submission: In the entire area, where ever possibility of wash off, flow of sediments etc. is anticipated retaining wall, garland drain and check dam have been. The Retaining wall followed by garland drains, Check dams, Sedimentation pit, silting pit structures got implemented and being de-silted after each monsoon based on the annual average rain fall data. Beside this no's of water check dam cum reservoir has been constructed. Numbers of catch drains and sedimentation pits have been constructed around the mines working area in order to avoid the silt entry into first and second order streams as well as nearby water bodies. Time to time de-silting activity is being followed</p>		<p>Date: 28/11/2023</p>
14	LAND RECLAMATION	<p>Check dams of appropriated size, gradient and length shall be constructed around mine pit and OB dumps to prevent storm run-off and sediment flow into adjoining water bodies. A safety margin of 50% shall be kept for designing of sump structures over and above peak rainfall (based on 50 year data) and maximum discharge in the mine and its adjoin area which shall also help in providing adequate retention time period thereby allowing proper settling of sediments/sit</p>

		materials. The sedimentation pits/sumps shall be constructed at the corner of the garland drain.	
		<p>PPs Submission: In the entire area, where ever possibility of wash off, flow of sediments etc. is anticipated retaining wall, garland drain and check dam have been. The Retaining wall followed by garland drains, Check dams, Sedimentation pit, silting pit structures got implemented and being de-silted after each monsoon based on the annual average rain fall data. Beside this no's of water check dam cum reservoir has been constructed. Numbers of catch drains and sedimentation pits have been constructed around the mines working area in order to avoid the silt entry into first and second order streams as well as nearby water bodies. Time to time de-silting activity is being followed</p>	<p>Date: 28/11/2023</p>
15	AIR QUALITY MONITORING AND PRESERVATION	Effective safeguard measures such as regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of PM10 and PM2.5 such as haul road, loading and unloading point and transfer points. The fugitive dust emissions from all the sources shall be controlled regularly by installation of required equipment's / 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/ CPCB.	
		<p>PPs Submission: The project has installed 3100 m length of fixed sprinkling system on the mines haul roads, engaged 5 X 20, 7 X 10, 2 X 8 KL capacity mobile water tanker sprinklers for dust suppression purposes of the other part of the mines lease area. All the crusher and screen plants are equipped with dry fog system and hoods over the conveyor belts. All the monitoring test results confirms very well within the norms.</p>	<p>Date: 28/11/2023</p>
16	MINING PLAN	The PP shall adhere to approved Mining Plan, inter alia including total excavation, mining technology, lease area, scope of working..	
		<p>PPs Submission: The PP is adhering according to approved Mining Plan, inter alia including total excavation, mining technology, lease area, scope of working as per approved by Indian Bureau of Mines (IBM), GoI.</p>	<p>Date: 28/11/2023</p>
17	MINING PLAN	The land use of the mines lease area at various stages of mining scheme as well as at the end of life shall be governed as per the approved mining plan. The excavations-a-vis backfilling in the mine lease area and corresponding afforestation to be raised in the reclaimed area shall be governed as per approved mining plan. PP shall ensure the monitoring and management of rehabilitated areas until the vegetation becomes self-sustaining. The compliance status shall be submitted half yearly to the MoEF&CC and its concerned Regional Office.	
		<p>PPs Submission: The project is working as per the approved mining plan. There is no such back filling proposal in the scheme of mines until FY 2026-2027.</p>	<p>Date: 28/11/2023</p>
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Additional Remarks:			