

SBIOM/MINE/ENV/23-24/1301

Date: 30.12.2023

To,
Regional Officer,
Integrated Regional Office,
Ministry of Environment, Forests and Climate Change
Ground Floor, Aranya Bhawan, North Block, Sector- 19,
Naya Raipur, Atal Nagar, Chhattisgarh – 492002

Sub: Submission of Six monthly Compliance Report for the period April'23 to Sept'23.

Ref: Environment Clearance No. 248/EC/KANKER/795 dated 18.05.2020 for capacity expansion from 0.6 MTPA to 1.2 MTPA (1.0 MTPA Above threshold value, +45% Fe and 0.2 MTPA Below threshold value, -45% Fe which is part of overburden) and Amendment in Environment Clearance Vide letter No.- 979/EC/KANKER/795 dated 01.09.2020, From SEIAA C.G., Govt. of India, Ministry of Environment and Forests, for Shri Bajrang Power & Ispat Ltd. Hahaladdi Iron Ore Mine (1.2 MTPA) at Village – Hahaladdi, Bhanupratappur Mandal, Dist. Kanker (C.G.)


Dear Sir,

With reference to above cited subject, please find enclosed herewith Six-monthly Compliance Report for the **April'23 to Sept'23**, as desired by your good office in compliance of Environment Clearance granted by SEIAA C.G., Government of India, Ministry of Environment & Forests (MoEF), New Delhi, vide **Environment Clearance No. 248/EC/KANKER/795 dated 18.05.2020** for **Capacity Expansion from 0.6 MTPA to 1.2 MTPA** (1.0 MTPA (Above threshold value, +45% Fe) and 0.2 MTPA (Below threshold value -45% Fe which is part of overburden) and Amendment in Environment Clearance Vide EC No. - 979/EC/KANKER/795 dated 01.09.2020.

Hope, you will find the above in order.

Thanking you,

For SHRI BAJRANG IRON ORE MINES
(of Shri Bajrang Power and Ispat Limited)



G R Telang
(DGM – EHS)

Encl: As Above

C/C – 1. Regional Officer, Chhattisgarh Environment Conservation Board, Jagdalpur (C.G.).
2. Member Secretary, Chhattisgarh Environment Conservation Board, North Block,
Sector – 19, Atal Nagar Raipur Chhattisgarh.

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COMPLIANCE CONDITIONS OF IRON ORE MINES WITH MINING CAPACITY - 1.2 MTPA (1.0 MTPA (ABOVE THRESHOLD VALUE, +45% FE) AND 0.2 MTPA (BELOW THRESHOLD VALUE, -45% FE WHICH IS PART OF OVERBURDEN)) AND IRON ORE BENEFICIATION PLANT OF 0.48 MTPA (WET) FOR UTILIZATION OF LOW GRADE IRON ORE.

Ref No. : Environment Clearance No. 248/EC/KANKER/795 dated 18.05.2020 and Amendment in Environment Clearance vide letter no. 979/EC/KANKER/795 dated 01.09.2020.

Sr. No.	Compliance Conditions	Status as on 30/09/2023
(I) STATUTORY COMPLIANCES		
01	This Environment Clearance (EC) is subject to orders/judgement 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.	Noted and Agreed.
02	The Project Proponent complies with all the statutory requirements and judgement of Hon'ble Supreme Court dated 2nd August 2017 in Writ Petition (Civil) No 114 of 2014 in matter of Common Cause versus Union of India & Ors before commencing the mining operations.	Agreed and being followed.
03	The State Government concerned shall ensure that mining operation shall not be commenced till the entire compensation levied if any for illegal mining paid by the Project Proponent through their respective Department of Mining & Geology in strict compliance of Judgement of Hon'ble Supreme Court dated 2nd August 2017 in Writ Petition (Civil) No. 114 of 2014 in matter of Common Cause versus Union of India & Ors.	This is an operating mine and instant case is for capacity expansion. We have already obtained NOC from respective Department of Mining & Geology and complying all related compliances.
04	This Environmental Clearance shall become operational only after receiving formal NBWL Clearance from MOEF&CC subsequent to the recommendations of the Standing Committee of National Board for Wildlife, if applicable to the Project.	This is an operating mine and instant case is for capacity expansion. We have already obtained NBWL clearance from MOEF&CC.
05	This Environmental Clearance shall become operational only after receiving formal Forest Clearance (FC) under the provision of Forest Conservation Act, 1980, if applicable to the project.	This is an operating mine and instant case is for the capacity expansion. We have already obtained FC vide letter : F. No.-8-34/2009-FC. Copy of FC is attached as Annexure- I
06	The mining lease holders shall, after ceasing mining operations, undertake re-grassing the mining area and any other 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..	Agreed and shall be complied with as per approved final mine closure plan after ceasing mining operation.
07	Project proponent (PP) shall obtain Consent to Operate after grant of EC and effectively implement all the conditions stipulated therein. The mining activity shall not commence prior to obtaining Consent to Establish/Consent to Operate from the concerned State Pollution Control Board/Committee.	We have been granted CTE cum CTO from state pollution control board vide letter no. 3229/TS/CECB2020 dated 09.07.2020 for capacity expansion of existing mines as well as CTE for proposed beneficiation plant. We have been granted renewal of CTO from CECB vide letter no. 9465/TS/CECB/2021 date 01.02.2021 which is valid upto 29.02.2024
08	The PP shall adhere to the provision of the Mines Act, 1952, Mines and Mineral (Development & Regulation), Act, 2015 and rules & regulations made there under. PP shall adhere to various circulars issued by Directorate General Mines Safety (DGMS) and Indian Bureau of Mines from time to time.	Agreed and shall be followed.
09	The Project Proponent shall obtain consents from all the concerned land owners, before start of mining operations, as per the provisions of MMDR Act, 1957 and rules made there under in respect of lands which are owned by it.	This is an operating mine and instant case is for capacity expansion of our existing mine within earlier allotted lease area of 75 hec. (Forest Land) the forest Clearance already been obtained before commencement of mining operation vide letter no. F. No. 8-34/2009-FC, dated 04.08.2014.

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10	The Project Proponent shall follow the mitigation measures provided in MoEFCC's Office Memorandum No. Z-11013/57/2014-IA-II (M), dated 29th october. 2014, titled "Impact of mining activities on Habitations-issues related to the mining Projects wherein Habitations and villages are part of mine lease areas or Habitations and villages are surrounded by the mine lease area".	Agreed. We are following all the mitigation measures provided in MoEFCC's Office Memorandum No. Z-11013/57/2014-IA-II (M), dated 29th october. 2014.
11	the Project proponent shall obtain necessary prior permission of the competent authorities for drawl of requisite quantity of surface water and from CGWA for withdrawal of ground water for the project.	At present, we are not using surface water for our mine operation purpose. However, we have already obtained the permission from CGWA for withdrawal of required ground water quantity to the tune of 290 KLD.
AIR QUALITY MONITORING AND PRESERVATION		
01	The Project Proponent shall install a minimum of 3 (three) online Ambient Air Quality Monitoring Stations with 1 (one) in upwind and 2 (two) in downwind direction based on long term climatological data about wind direction such that an angle of 120° is made between the monitoring locations to monitor critical parameters, relevant for mining operations, of air pollution common/criterion parameters relevant to the main pollutant released (e.g. PM ₁₀ and PM _{2.5} in reference to PM emission, and SO ₂ and NO _x in reference to SO ₂ and NO _x emissions) as per the methodology mentioned in NAAQS Notification No. B-29016/20/90/PCI/I. dated 8.11.2009 covering the aspects of transportation and use of heavy machinery in the impact zone. The ambient air quality shall also be monitored at prominent places like office building, canteen etc. as per the site condition to ascertain the exposure characteristics at specific places. The above data shall be digitally displayed within 03 months in front of the main Gate of the mine site.	We have already installed 3 (three) nos. Online Ambient Air Quality Monitoring Stations at different locations and the data are being digitally displayed in front of the main Gate of the mine site. Online Ambient Air Quality Monitoring reports are enclosed as Annexure II .
02	Effective safeguard measures for prevention of dust generation and subsequent (like regular water sprinkling, metalled road construction etc.) shall be carried out in areas prone to air pollution wherein high levels of PM ₁₀ and PM _{2.5} are evident such as haul road, loading and unloading point and transfer points. The fugitive dust emissions from at sources shall be regularly controlled by installation of required 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 MoEFCC/ Central Pollution Control Board.	Effective safeguard measures like water sprinkling by water tanker on haul roads, regular operation of fixed and movable water sprinklers at loading, unloading area and transfer points are being taken for control of fugitive dust emission, during transportation as well as Mine operation, which are helping to control the Air pollution level well within the standards, prescribed by the MoEFCC/ Central Pollution Control Board.
03	The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through labs recognized under Environment (Protection) Act, 1986.	Fugitive emissions within the Mine premises are being monitored by labs recognized under Environment (Protection) Act, 1986 once in every quarter and records are being maintained and shall be complied in future also. Reports are enclosed as Annexure-III .
04	The project proponent shall submit monthly summary report of continuous stack emission and air quality monitoring and results of manual stack monitoring and manual monitoring of air quality/fugitive emissions to Regional Office of MoEF&CC, Zonal office of CPCB and Regional Office of SPCB along with six-monthly monitoring report.	As our mine is an open cast Mine, hence stack not required for mining operation. However Ambient Air quality and fugitive emissions are being monitored by recognized Env. Labs on regular basis and reports are being submitted to Regional Office of MoEF&CC, Zonal office of CPCB and Regional Office of SPCB along with six-monthly monitoring report. Ambient Air Monitoring reports are enclosed as Annex. IV .
05	Appropriate Air pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources, so as to comply prescribed stack emission and fugitive emission standards.	To control and maintain fugitive emission, Fixed and movable water sprinklers, mist water spray system are installed at different locations of Mine area. No stack emission is envisaged in open cast mining.
06	The project proponent use leak proof trucks/dumpers carrying ore and other raw materials and cover them with tarpaulin	We are using leak proof trucks/ dumpers for carrying ore and other raw materials dully covered with tarpaulin to avoid of any spillage of materials and avoid fugitive emission.

07	Wind shelter fence and chemical spraying shall be provided on the raw material stock piles.	Movable water sprinklers are provided on the raw materials stock piles.
08	Design the ventilation system for adequate air changes as per ACGIH document for all tunnels, motor houses, Oil Cellars.	Not applicable as our mine is an open cast mine.
(III) Water Quality Monitoring and Preservation		
01	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 MoEFCC 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.	The mine is located on a hilly terrain with maximum elevation at 632 m RL. And minimum elevation of 450 m RL. The minimum depth of working pit at conceptual period will be 520 m. RL. The minimum depth of water table as observed in surrounding area in water well in 30 meter from the general ground level and maximum depth is 35 meter, hence working will never intersect ground water table at any stage of mining.
02	Regular monitoring of the flow rate of the springs and perennial nallahs flowing in and around the mine lease shall be carried out and records maintain. The natural water bodies and or streams which are flowing in an around the village, should not be disturbed. The Water Table should be nurtured so as not to go down below the pre-mining period. In case of any water scarcity in the area, the project proponent has to provide water to the villagers for their use. A provision for regular monitoring of Water table in open dug wall located in village should be incorporated to ascertain the impact of mining over ground water table. The report on changes in Ground water level and quality shall be submitted on six-monthly basis to the Regional office of the ministry, CGWA and state Groundwater Department/ State pollution Control Board.	There is no springs and perennial nallahs flowing in and around the mine lease area. Ground water level and quality are being monitored and reports are being submitted on six-monthly basis to the Regional office of the ministry, CGWA and state Groundwater Department/ State pollution Control Board.
03	The Project Proponent shall regularly monitor and maintain records w.r.t. ground water level and quality in and around the mine lease by establishing a network of existing wells as well as new piezo-meter installations during the mining operation in consultation with Central Ground Water Authority/ State Ground Water Department. The Report on changes in Ground water level and quality shall be submitted on six-monthly basis to the Regional Office of the Ministry, CGWA and State Groundwater Department / State Pollution Control Board.	Agreed and being followed. We have installed telemetry type digital Piezometer for online monitoring of ground water level. Ground Water quality in and around the mine area are being monitored by outside authorized agency and reports are being submitted on six-monthly basis to the Regional office of the ministry, CGWA and state Groundwater Department/ State pollution Control Board.
04	The project Proponent shall undertake regular monitoring of natural water course/water resources/springs and perennial nallahs existing/flowing in and around the mine lease and maintain its records. The project proponent shall undertake regular monitoring of water quality upstream and downstream of water bodies passing within and nearby /adjacent to the mine lease and maintain its records. Sufficient number of gullies shall be provided at appropriate places within the lease for management of water. PP shall carryout regular monitoring w.r.t pH and included the same in monitoring plan.*The parameters to be monitored shall include their water quality vis-a-vis suitability for usage as per CPCB criteria and flow rate. it shall be ensured that no obstruction and/or alteration be made to water bodies during mining operations without justification and prior approval of MoEFCC. 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, Forest and Climate Change and its Regional Office, Central ground Water Authority and Regional Director, Central Ground Water Board, State Pollution Control Board and Central Pollution Control Board. Clearly showing the trend analysis on six-monthly basis.	Agreed and shall be followed. However there are no springs and perennial nalah flowing in and around the mine lease area. Ground water quality as well as monitoring of water courses/bodies existing in lease are being monitored by outside authorized agency and reports are being submitted to ministry of environment forest and climate change and its regional office Central ground water authority and regional director, central ground water board, state pollution control board and central pollution control Board.

05	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 run-off shall be monitored along with Total Dissolved Solids (TDS), Dissolved Oxygen (DO), pH and Total Suspended Solids (TSS). The monitored data shall be uploaded on the website of the company as well as displayed at the project site in public domain, on a display board, at a suitable location near the main gate of the company. The circular No. I-20012/1/2006-IA.II (M) dated 27.05.2009 issued by Ministry of Environment, Forests and Climate Change may also be referred in this regard.	Our mine is a open cast Mine and there is no generation of waste water from mining operation.
06	The project proponent shall plan, develop and implement rainwater long term basis to augment ground water resources in the area in consultation with Central Ground Water Board/ State Groundwater Department. A report on amount of water recharged needs to be submitted to Regional Office MoEFCC annually.	We have constructed 5 nos. rain water harvesting pits at different location of mine area connected with garland drain of lease area so run-off Rain water of mine area during Mansoon season stored in these RWH pits. For Beneficiation plant, separate Rain Water Harvesting system will be developed. Report on amount of water recharged are being submitted to Regional Office MoEFCC annually. Photographs & quantum of recharge water of rain water harvesting as Annexure-V.
07	Industrial waste water (workshop and waste water from the mine) should be properly collected and treated so as to conform to the notified standards prescribed from time to time. The standards shall be prescribed through Consent to Operate (CTO) issued by concerned State pollution Control Board (SPCB). The workshop effluent shall be treated after its initial passage through Oil and grease trap.	There is no generation of industrial waste water from mining operation. No workshop is in mine area. Generated domestic waste water of mine area is being collected in settling tank and being utilized for plantation.
08	The water balance/water auditing shall be carried out and measure for reducing the consumption of water shall be taken up and reported to the Regional Office of the MoEF&CC and State pollution Control Board/ Committee.	Agreed and shall be followed. Water audit for mine area has been carried out by out side Authorized agency and effective measures are being taken for reduction in the consumption of water and reports are being submitted to the Regional Office of the MoEF&CC and State pollution Control Board.
09	The project proponent shall provide the slime disposal facility with impervious lining and collection wells for seepage. The water collected from the slime pond shall be treated and recycled.	At present there is no generation of industrial waste water from mining operation. For proposed Beneficiation plant, paste thickener technology will be implemented. However slime pond facility with impervious lining will be provide and waste water shall be recycled and used as fresh water in beneficiation plant.
10	The project proponent shall provide adequate facility for proper treatment of industrial effluent. Sewage Treatment arrangement shall be provided for treatment of domestic effluent to meet the prescribed standards. Project proponent shall ensure the treated effluent quality within standard prescribed in Environment (Protection) Rules 1986 and connected to SPCB and CPCB online servers and calibrate these systems from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.	There is no generation of industrial effluent from mining operation. For domestic effluent septic tank followed by soak pit provided. For Beneficiation plant generated waste water will be recycled by use of paste thickener technology to the tune of 110 KLD and will be used as fresh water in process of beneficiation plant.
11	The project proponent shall monitor regularly ground water quality at least twice a year (pre and post monsoon) at sufficient of piezometers/ sampling wells in the plant and adjacent areas through labs recognized under Environment (Protection) Act, 1986 and NABL accredited laboratories.	Ground water quality is being monitored by labs recognized under Environment Protection Act, 1986 and NABL accredited laboratories, twice a year (Pre and Post Monsoon) in the mine area and records are being Maintained. Reports enclosed as Annexure -VI.
12	The project proponent shall submit monthly summary report of effluent monitoring and results of manual effluent testing and manual monitoring of ground water quality to Regional Office of Ministry of Environment, Forest and Climate Change, Nagpur, Zonal office of CPCB and Regional Office of Chhattisgarh Environment Conservation Board (CECB) along with six-monthly monitoring report.	There is no generation of effluent from mining operation. Ground water quality is being monitored by out side authorized agency and reports are being submitted at Regional Office of Ministry of Environment, Forest and Climate Change and Regional Office of Chhattisgarh Environment Conservation Board ,Raipur(C.G.)

13	Adhere to "Zero Liquid Discharge". No effluent shall be discharged out of plant premises under any circumstances. Any liquid effluent what so ever generated shall not be discharged into the river or any surface water bodies under any circumstances, and it shall be reused wholly in the process/ plantation within plant area.	Neither industrial nor domestic effluent is being discharged out of Mine premises under any circumstances. Zero Liquid Discharge condition is being maintained all the time.
14	Garland drains and collection pits shall be provided for each stock pile to arrest the run-off in the event of heavy rains and to check the water pollution due to surface run off.	Garland drains and collection pits have been provided at Mine area to arrest the run off in the event of heavy rains and to check the water pollution due to surface run off, For proposed Beneficiation plant same will be provide at the time of its installation.
15	The project proponent shall practice rainwater harvesting to maximum possible extent.	05 Nos. Rain water harvesting pits were constructed at mine area and fencing has been done all around the periphery of the pit to prevent trespassing. Under expansion phase, Mine Management will provided adequate number of Rainwater harvesting pits as per prescribed norms of CGWA.

Noise and Vibration monitoring and prevention

01	The peak particle velocity at 500m distance or within the nearest habitation, whichever is closer shall be monitored periodically as per applicable DGMS guidelines.	There is no habitation within 1.0 Km area, however at present, peak particle velocity at 500 m are being periodically monitored, as per applicable DGMS Guidelines.
02	The illumination and sound at night at project sites disturb the villages in respect of both human and animal population. Consequent sleeping disorders and stress may affect the health in the villages located close to mining operations. Habitations have a right for darkness and minimal noise levels at night. PPs must ensure that the biological clock of the villages is not disturbed; by orienting the floodlights/masks away from villagers and keeping the noise levels well within the prescribed limits for day/night hours.	At present mine operation is being restricted to day time only however in future when two shift operation will commence it shall be maintained as per prescribed norms. There are no villages falling within 1.0 Km radius area, hence mine & proposed plant activities will not disturb the human and animal population of nearby villages. however, we will take proper steps for smooth operations of Mine & Plant without disturbing them by maintaining noise level well within the prescribed limits for day/night hours.
03	The Project Proponent shall take measures for control of noise levels below 85 dBA in the work environment. The worker engaged in operations of HEMM etc. should be provided with ear plugs/muffs. All personnel including laborers working in dusty areas shall be provided with protective respiratory devices along with adequate training. Awareness and information on safety and health aspects. The PP shall be held responsible in case it has been found that workers/ personals/ laborers are working without personal protective equipment.	At present noise level is being maintained well within the prescribed norms, in and around the mine area and the worker engaged in operations of HEMM etc. are being provided PPEs like ear plugs/muffs and same shall be maintained in future also. All personnel including laborers working in dusty areas are being provided with protective respiratory devices along with adequate training on Awareness and Information on Safety and Health aspects and same shall be maintained in future also.
04	Noise level survey shall be carried as per the prescribed guidelines and report in this regard shall be submitted to Regional officer of the Ministry of Environment, Forest and Climate Change, Nagpur as apart of six-monthly compliance report.	Noise level monitoring is being carried as per the prescribed guidelines and reports are being submitted to Regional officer of the Ministry of Environment, Forest and Climate Change, Raipur as apart of six-monthly compliance report and same will be followed in future also. Report are enclosed as Annexure-VII.
05	The ambient noise levels should conform to the standards prescribed under Environment (Protection) Rules, 1986 viz. 75 dB(A) during day time and 70 dB (A) during night time.	The Ambient noise level is being maintained well within the prescribed limits for day/night hours and same will be maintained in future also.

(V) Mining Plan

01	The Project Proponent shall adhere to the working parameters of mining plan which was submitted at the time of EC appraisal wherein year-wise plan was mentioned for total excavation i.e., quantum of mineral, waste, over burden, inter burden and top soil etc., No change in basic mining proposal like mining technology, total excavation, mineral & waste production, lease area and scope of working (viz. method of mining, overburden & dump management, O.B & dump mining, mineral transportation mode, ultimate depth of mining etc.) shall not be carried out without prior approval of the Ministry of Environment, Forest and Climate Change, which entail adverse environmental impacts, even if it is a part of approved mining plan modified after grant of EC or granted by State Govt. in the form to Short Term Permit (STP), Query license or any other name.	We are adopting all the working parameters of mining plan which was submitted at the time of EC appraisal, wherein year-wise plan was mentioned for total excavation i.e., quantum of mineral, waste, over burden, inter burden and top soil etc. and same will be followed in future also. Without prior approval of the Ministry of Environment, Forest and Climate Change, no changes will be made on same.
02	The Project Proponent shall get the Final Mine Closure Plan along with Financial Assurance approved from Indian Bureau of Mines/Department of Mining & Geology as required under the Provision of the MMDR Act, 1957 and Rules/ Guidelines made there under. A copy of approved final mine closure plan shall be submitted within 2 months of the approval of the same from the competent authority to the concerned Regional Office of the Ministry of Environment, Forest and Climate Change for record and verification.	Agreed and shall be followed.
03	The land-use of the mine lease area at various stages of mining scheme as well as at the end-of-life shall be governed as per the approved Mining Plan. The excavation vis-a-vis backfilling in the mine lease area and corresponding afforestation to be raised in the reclaimed area shall be governed as per approved mining plan. PP shall ensure the monitoring and management of rehabilitated areas until the vegetation becomes self-sustaining. The compliance status shall be submitted half-yearly to the MoEFCC and its concerned Regional Office.	Agreed and shall be followed. The compliance status are being submitted half-yearly to the MoEFCC and its concerned Regional Office and same will be maintained in future also.
(VI) LAND RECLAMATION		
01	The Overburden (O.B.) generated during the mining operations shall be stacked at earmarked OB dump site(s) only and it should not be kept active for a long period of time. The physical parameters of the OB dumps like height, width and angle of slope shall be governed as per the approved Mining Plan as per the guidelines/circulars issued by D.G.M.S w.r.t safety in mining operations shall be strictly adhered to maintain the stability of top soil/OB dumps. The topsoil shall be used for land reclamation and plantation.	The Overburden (O.B.) generated during the mining operations are being stacked at earmarked OB dump site(s) only and it is not being kept active for a long period of time. Overburden dump is being maintained as per approved mining plan. The inactive part of the dump has been stabilized by plantation, Geotextile Coir matting & Grass seeding.
02	The reject/waste generated during the mining operations shall be stacked at earmarked waste dump site(s) only. The physical parameters of the waste dumps like height, width and angle of slope shall be governed as per the approved Mining Plan as per the guidelines/circulars issued by DGMS w.r.t safety in mining operations shall be strictly adhered to maintain the stability of waste dumps.	Agreed and is being followed for existing operation of mine. The rejected/Waste generated during mining operation is being stacked at earmarked waste dump site as per approved mining plan approved by IBM. The entire dump area has been provided with retaining wall to avoid spillage. Garland drains area to guide the surface run off to the ground water recharging pits.
03	The reclamation of waste dump sites shall be done in scientific manner as per the Approved Mining Plan cum Progressive Mine Closure Plan.	Agreed and shall be followed.
04	The slope of dumps shall be vegetated in scientific manner with suitable native species to maintain the slope stability, prevent erosion and surface run off. The selection of local species regulates local climatic	Agreed and being followed. Presently Dump is an active dump in an earmarked area within mine premises. The entire dump area is provided with retaining wall of 920 M in length to

	village/ rural roads shall be allowed in consultation with nodal State Govt. Department only after required strengthening such that the carrying capacity of roads is increased to handle the traffic load. The pollution due to transportation load on the environment will be effectively controlled and water sprinkling will also be done regularly. Vehicular emissions obtain Pollution Under Control (PUC) certificate for all the vehicles from authorized pollution testing centers.	
01	The Main haulage road within the mine lease should be provided with a permanent water sprinkling arrangement for dust suppression. Other roads within the mine lease should be wetted regularly with tanker-mounted water sprinkling system. The other areas of dust generation like crushing zone, material transfer points, material yards etc. should invariably be provided with dust suppression arrangements. The air pollution control equipment's like bag filters, vacuum suction hoods, dry fogging system etc. shall be installed at Crushers, belt-conveyors and other areas prone to air pollution. The belt conveyor should be fully covered to avoid generation of dust while transportation. PP shall take necessary measures to avoid generation of fugitive dust emissions.	Fixed and movable water sprinklers are installed at different locations like crushing zone, material transfer points, material yards etc. of Mine area for dust suppression, while on roads within the mine lease are being watered regularly with tanker-mounted water sprinkling system.
VIII) Green Belt		
01	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 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 by the ministry irrespective of the stipulation made in approved mine plan.	We have already developed a greenbelt in 7.5m wide safety zone all along the mine lease boundary. Extensive plantation, in and around the mine area. is being done by us, as per mining plan.
02	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.	As per the approved Mining Plan, plantation to the tune of 1000 nos. of plants every year is being carried out, inside the mine premises (i.e. at Safety Zone, Near office building, Near Crusher Area, Near Main gate, E-Point and D-Point) along with plantation in mine premises. We have also taken up plantation outside the mine area (i.e. nearby village, Schools and Gram panchayat) by planting the native species as per prescribed norms. Adequate budgetary provision has been made for protection and care of trees.
03	The project Proponent shall make necessary alternative arrangements for livestock feed by developing grazing land with a view to compensate those areas which are coming within the mine lease. The development of such grazing land shall be done in consultation with the State Government. In this regard, Project Proponent should essentially implement the directions of the Hon'ble Supreme Court with regard to acquisition of grazing land. The sparse trees on such grazing ground, which provide mid-day shelter from the scorching sun, should be scrupulously guarded/ protected against felling and plantation of such trees should be promoted.	Mine is in operation, since Feb'2015. There was no grazing land within mine lease. The entire lease is forest land. However We have Developed fodder farming by spending an amount of Rs 3,81,827/- in village Karamad in scientific manner which is supporting State Government's Scheme of Gautham only.

	parameters and help in adaptation of plant species to the microclimate. The gullies formed on slopes should be adequately taken care of as it impacts the overall stability of dumps. The dump mass should be consolidated with the help of dozer/compactors thereby ensuring proper filling/leveling of dump mass. In critical areas, use of geo textiles/geo-membranes/ clay liners / Bentonite etc. shall be undertaken for stabilization of the dump.	avoid spillage and angle of repose of waste dump will be terraced into benches. As much no top Soil is present in our mine area only lateritic soil which will be spread along with fertilizer. Garland drain are provided all along the dump area to guide the surface run off to the ground water recharging pits. The above measures for slop of dumps and stabilization are as per approved mining plan.
05	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.	Agreed and followed.
06	Catch drains settling tanks siltation ponds of appropriate size shall be constructed around the mine working, mineral yards and Top Soil/OB/Waste dumps to prevent run off of water and flow of sediments directly into the water bodies (Nallah/ River/ Pond etc.) The collected water should be utilized for watering the mine area, roads, green belt development, plantation etc. The drains/sedimentation sumps etc. shall be de-silted regularly, particularly after monsoon season, and maintained properly.	As our Mine is operational with existing capacity 1.20 MTPA, hence Catch drains settling tanks siltation ponds of appropriate size has already been constructed around the mine working, mineral yards and OB/Waste dumps to prevent run off of water and flow of sediments directly into the water bodies (Nallah/ River/ Pond etc.). The collected water is being utilized for watering the mine area, roads, green belt development, plantation etc. The drains/sedimentation sumps etc. are being de-silting regularly, particularly after monsoon season, and maintaining properly.
07	Check dams of appropriate size, gradient and length shall be constructed around mine pit and OB dumps to prevent storm run-off and sediment flow into adjoining water bodies. A safety margin of 50% shall be kept for designing of sump structures over and above peak rainfall (based on 50 years data) and maximum discharge in the mine and its adjoining area which shall also help in providing adequate retention time period thereby allowing proper settling of sediments/silt material. The sedimentation pits/sumps shall be constructed at the corners of the garland drains.	As our Mine is operational with existing capacity 1.20 MTPA, hence Check dams of appropriate size, gradient and length has already been constructed around mine pit and OB dumps to prevent storm run-off and sediment flow into adjoining water bodies. The sedimentation pits/sumps has already been constructed at the corners of the garland drains.
08	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.	As such no top Soil is present in our mines area only lateritic soil which will be spread along with fertilizer.
(VII) Transportation		
01	No transportation of the minerals shall be allowed in case of roads passing through villages/habitations. In such cases, PP shall construct a 'bypass' road for the purpose of transportation of the minerals leaving an adequate gap (say at-least 200 meters) so that the adverse impact of sound and dust along with chances of accidents could be mitigated. All costs resulting from widening and strengthening of existing public road network shall be borne by the PP in consultation with nodal State Govt. Department. Transportation of minerals through road movement in case of existing	Road for transportation of the minerals are not passing through villages/habitations. A separate road (from mine to main road) for mineral transportation is being used. Widening, strengthening and maintenance of existing road is being taken care by us. Water sprinkling on road is being done by us, by using water tanker on regular basis.

04	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 Wild Life Warden of the State Govt. and implemented in consultation with the State Forest and Wildlife Department. A copy of life Conservation Plan and its implementation status (annual) shall be submitted to the Regional Office of the Ministry.	All precautionary measures have been taken for conservation and protection of endangered flora and fauna. Wildlife Conservation Plan has already been prepared, approved and an amount of Rs. 3.5 Crores has been Deposited with Forest Department.
IX. Energy Conservation Measures		
i.	Provide solar power generation on roof tops of buildings, for solar light system for all common areas, street lights, parking around project area and maintain the same regularly.	Solar street lights are provided at nearby villages.
ii.	The project proponent shall ensure use of LED lights in their offices and residential areas.	LED lights are being used in our offices and mine area..
X. Waste Management		
i.	The waste oil, grease and other hazardous waste shall be disposed off as per the Hazardous & other waste (Management & Transboundary Movement) Rule,2016	we have obtained hazardous Waste Authorization from State pollution Control Board CECB Raipur (C.G.) vide letter no. 4114/HSMD/HO/CECB/2019 Atal Nagar Raipur 07.09.2019 valid up to 08 April 2024, for our existing mining capacity. Generated Hazardous Waste is being disposed off as per the Hazardous & other Waste (Management & tars Boundary Movement) Rule 2016.
ii.	The project proponent shall utilize fly ash bricks/blocks etc. in all construction activities.	Fly ash bricks/blocks are being used in all construction activities.
iii.	Kitchen waste (if any) shall be composted or converted to biogas for further use.	Kitchen waste from canteen is being used as manure in plantation after primary composting treatment.
XI. Public Hearing and Human Health Issues		
i.	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 ins six months and necessary remedial/preventive measures be taken. A status report on the same may be sent to MoEFCC Regional office and DGMS on half-yearly basis.	A well-equipped Occupational Health centre unit has been developed with specialist doctor and paramedical staff and Periodical Medical Examination of the workers are being carried out from time to time and records are being maintained. Recommendations made by National Institute for Labour for good occupational environment for mine workers are also being adopted. Status report of the same is being sent to MoEFCC Regional office and DGMS on half-yearly basis.
ii.	The project proponent must demonstrate commitment to work towards 'Zero Harm' from their mining activities and carry out Health Risk Assessment (HRA) for identification workplace hazards and assess their potential risks to health and determine appropriate control measures to protect the health and wellbeing of workers and nearby community. The proponent shall maintain accurate and systematic records of the HRA. The HRA for neighbourhood has to focus on Public Health Problems like Malaria, Tuberculosis, HIV, Anaemia, and Diarrhoea in children under five respiratory infections due to bio-Mass cooking. The proponent shall also create	Agreed and followed. Regular health check-up camps are being organized from time to time to ascertain zero harm from mining activities of the workers and records of such are being maintained at regular intervals.

	awareness and educate the nearby community and workers for sanitation, Personal Hygiene, Hand washing, not to defecate in open, Women Health and Hygiene (Providing Sanitary napkins), Hazards of tobacco and alcohol use. The proponent shall carryout baseline HRA for all the category of workers and thereafter five years.	
iii.	The proponent shall carry out Occupational Health surveillance which be a part of HRA and include Biological Monitoring where practical and feasible ,and the tests and investigations relevant to the exposure (e.g. for Dust a X- Ray chest; For Noise audiometric; for lead exposure blood test, for Welders Full ophthalmologic Assessment; For Manganese Miners a complete Neurological Assessment by a certified Neurologist ,and Manganese (Mn) estimation in blood; For Inorganic Chromium - Fortnightly skin inspection of hands and forearms by a responsible person. Except routine tests all tests would be carried out in a lab accredited by NABH. Records of Health Surveillance must be kept for 30 years, including the results of and the records of Physical examination and tests. The records of exposure due to materials like Asbestos, Hard rock mining, Silica, Gold, Kaolin, and Aluminium. Iron, Manganese, Chromium, Lead, Uranium need to be handed over to the Mining Department of the State in case the life of the mine is less than 30 years. It would be obligatory for the State Mines Departments to make arrangements for the Safe and secure storage of the records including X-Ray. Only conventional X-Ray will be accepted for record purposes and not the digital one).X-Ray must meet ILO Criteria (17x 14 inches and of good quality).	All the tests and investigations relevant to the Mine operation as well as recommendations made by National Institute for Labour for good occupational environment for mine workers are a being carried out and records are being maintained.
iv.	The proponent shall maintain 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 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 proof and audiogram (First and last need to be presented), (e) they should not have developed any Persistent Back Pain, Neck Pain, and the movement of their Hip, Knee and other joints should have normal range of movement,(f) they should not have suffered loss of any body part. The record of the same should be submitted to the Regional office, MoEFCC annually along with details of the relief compensation paid to workers having above indications.	All the tests and investigations relevant to the Mine operation as well as recommendations made by National Institute for Labour for good occupational environment for mine workers are being carried out and records are being maintained. The report of the same is being submitted to the Regional office, MoEFCC.
v.	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.	Personnel working in dusty areas are being provided work related PPEs like Helmet, Nose mask, Goggle, Safety shoe hand globes, Ear plug etc. and providing them adequate work related training and information on safety and health aspects.
vi	Project Proponent shall make provision for the housing for workers/labours or shall construct labour 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	Most of the employees are local and living near Mine area, hence no need of housing for them, although all infrastructure and Facilities such as toilets, Safe drinking water, medical health care, canteen etc. has been provided at site area. The domestic waste water is being treated with Septic tank followed by soak pit and is being utilized for

	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.	plantation.																							
vii	The activities proposed in Action plan prepared for addressing the issues raised during the Public Hearing shall be completed as per the budgetary provisions mentioned in the action Plan and within the stipulated time frame. The Status Report on implementation of action plan shall be submitted to the concerned Regional office of the Ministry along with District Administration.	Agreed and being followed.																							
(XII) Corporate Environment Responsibility																									
i	<p>The project proponent shall comply with the provisions of the Ministry of the Environment, Forest and Climate Change, New Delhi OM vide F. No. 22-65/2017-IA .III dtd 1st May 2018, as applicable, regarding corporate Environment Responsibility. As per proposal submitted following activities shall be carried out;</p> <table border="1"> <thead> <tr> <th rowspan="2">Additional Capital Investment (in Lakhs)</th> <th rowspan="2">Percentage of capital investment to be spent</th> <th rowspan="2">Amount required for CER Activities (in Lakh)</th> <th colspan="2">Amount proposed and Details for CER Activities (in lakhs)</th> </tr> <tr> <th>Particulars</th> <th>CER Fund Allocation (in Rs Lakh)</th> </tr> </thead> <tbody> <tr> <td rowspan="5">Rs 5,000</td> <td rowspan="5">1%</td> <td rowspan="5">Rs 50</td> <td colspan="2">Following activities at Govt. School & Hospital within 10 K.m. radius of the project site</td> </tr> <tr> <td>Rain water Harvesting</td> <td rowspan="5">50</td> </tr> <tr> <td>Solar light facility</td> </tr> <tr> <td>Overhead tank for running water</td> </tr> <tr> <td>Awareness programme in school of surrounding villages regarding conservation of Environment, water etc.</td> </tr> <tr> <td>Plantation</td> </tr> <tr> <td colspan="3">Total</td> <td>Rs. 50</td> <td></td> </tr> </tbody> </table>	Additional Capital Investment (in Lakhs)	Percentage of capital investment to be spent	Amount required for CER Activities (in Lakh)	Amount proposed and Details for CER Activities (in lakhs)		Particulars	CER Fund Allocation (in Rs Lakh)	Rs 5,000	1%	Rs 50	Following activities at Govt. School & Hospital within 10 K.m. radius of the project site		Rain water Harvesting	50	Solar light facility	Overhead tank for running water	Awareness programme in school of surrounding villages regarding conservation of Environment, water etc.	Plantation	Total			Rs. 50		Agreed and being followed.
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ii.	The project proponent shall complete the corporate	Agreed and being followed.																							

	Environmental Responsibility activity within 02 years.	
iii.	The company shall have a well laid don environment policy duly approve by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/ deviation/ violation of the environmental/forest /wildlife norms/conditions and /Shareholders/stake holders. The copy of the board resolution in this regard shall be submitted to the Ministry of Environment, Forest and Climate change, New Delhi/SEIAA, Chhattisgarh as part of six-monthly report.	We have a well laid down environment policy duly approved by the Board of Directors. The copy of the board resolution shall be submitted to the Ministry of Environment, Forest and Climate change, New Delhi/SEIAA, Chhattisgarh as part of six-monthly report.
iv.	A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set-up under the control of Senior executive, who will directly report to the head of the organization.	A separate Environmental Cell at mine site as well as Head office with qualified personnel has been set-up under the control of Senior executive, who is directly reporting to the head of the organization.
v.	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 environment for environmental protection measures shall be kept in separate account and not be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Regional Office, Ministry of Environment, forest and Climate Change, Nagpur/SEIAA, Chhattisgarh along with the six Monthly compliance reports.	Agreed.
vi	Self-Environmental Audit shall be conducted annually. Every three years third party environmental audit shall be carried out.	Agreed and being followed.
vii	All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the plants (if any) shall be implemented.	Agreed.
XIII. Miscellaneous		
i.	The Project proponent shall prepare digital map (land use and 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.	Agreed and being followed. Digital map of entire lease area is prepared by authorized third party M/s Tecdatum infoservices Private Limited. Report of the same is already submitted to Regional office of MoEF&CC and State pollution Board. Ack. Copy is attached as Annexure VIII.
ii.	The project Authorities should inform to the Regional Office regarding date of Financial closures and final approval of the project by the concerned authorities and the date of start of land development work.	Agreed and being followed. This is operating mine and instant case is for capacity expansion of our existing mine and installation of beneficiation plant shall be commenced after grant of CET & CTO only.
iii.	Local persons shall be given employment during mining, development and operation of the site.	More than 80% local persons are working from the beginning of mine.
iv.	The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in vernacular language within 07 days and in addition, this shall also be displayed in the project proponent's website permanently.	We have published the information of grant of EC for our project in two local newspapers of the District and made arrangement for display in our website permanently.
v.	The copies of the environmental clearance shall be submitted by the project in addition to the Heads of Local Bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.	Copies of the granted environmental clearance have been submitted to the Heads of Local Bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government for display at their office.
vi.	The project proponent shall upload the status of compliance of the stipulated Environment clearance conditions, including results of monitored data on their website and update the same on half yearly basis.	Agreed and being followed.

vii.	The project proponent shall monitor the criteria pollutants level namely; PM ₁₀ , SO ₂ , NO _x (ambient levels as well as stack emissions) or critical sectoral parameters (if any), indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company.	Agreed and being followed.
viii.	The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate change at environment clearance portal.	Agreed and being followed.
ix.	The project proponent shall submit the environmental statement for each financial year in Form-V to Chhattisgarh Environment Conservation Board (CECB) as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company. The project proponent shall inform the Regional office ,Ministry of Environment ,Forest and Climate Change, Nagpur as well as SEIAA, Chhattisgarh the date of Financial closure and Final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.	We have already submitted environment statement for FY 2022-23 to the Chhattisgarh Environment Conservation Board (CECB) on vide letter No. SBIOM/ENV/MINES/23-24/795 dtd. 18/09/2023
x.	The project authorities must strictly adhere to the stipulations made by the Chhattisgarh Environment Conservation Board (CECB) and the State Government.	Presently we are following all the stipulations made by the Chhattisgarh Environment Conservation Board (CECB) and the State Government. and shall be followed in future also.
xi.	The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report and also that during their presentation to the State Expert Appraisal Committee.	Agreed and shall be followed.
xii.	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change, New Delhi/SEIAA, Chhattisgarh.	Agreed and shall be followed.
xiii.	Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act,1986.	Agreed.
xiv.	SEIAA, Chhattisgarh may revoke or suspend the clearance, if implementation of any of the above condition is not satisfactory.	Agreed.
xv.	SEIAA, Chhattisgarh may reserves the right to stipulate additional conditions if found necessary. The company in a time bound manner shall implement these conditions.	Agreed and shall be followed.
xvi.	The Regional officer Ministry of Environment, Forest and Climate Change, Nagpur shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional office by furnishing the requisite data/information/monitoring reports.	Agreed and shall be followed.
xvii	The above conditions shall be enforced, inter-alia under the provisions of the water (Prevention & Control of Pollution) Act,1974, the air (Prevention & Control of Pollution) Act,1981,the Environment (Protection) Act,1986, Hazardous and other wastes (Management and Transboundary Movement) Rules ,2016 and the Public Liability Insurance Act,1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India/High Courts and any other Court of Law relating to the subject matter.	Agreed and shall be followed.

<p><u>xvii</u> <u>i</u></p>	<p>Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under section 16 of the National Green Tribunal Act,2010.</p>	<p>Agreed.</p>
<p><u>xix.</u></p>	<p>Environment clearance will be valid as per the provision of EIA Notification, 2006 (as Amended)</p>	<p>Agreed.</p>

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F. No. 8-34/2009 - FC
Government of India
Ministry of Environment & Forests
(FC Division)

Paryavaran Bhawan,
CGO Complex, Lodhi Road,
New Delhi - 110510
Date: 4th August, 2014

To
The Principal Secretary (Forests),
Government of Chhattisgarh,
Raipur.

Sub: **Diversion of 76.50 ha of forest land for iron ore mining in East Bhanupratapur Forest Division in Kanker district of Chhattisgarh in favour of M/s shri Bajrang Metallics & Power Limited –reg.**

Sir,

I am directed to refer to the Govt. of Chhattisgarh letter no. F/5-9/2009/10-2 dated 27.05.2009 on the above subject seeking prior approval of the Central Government under section-2 of the Forest (Conservation) Act, 1980. After careful examination of the proposal by the Forest Advisory Committee constituted under section-3 of the said Act, 'in-principle' approval was granted vide this Ministry's letter of even number dated 3.05.2013 subject to fulfillment of certain conditions prescribed therein. The State Government has furnished compliance report in respect of the conditions stipulated in the 'in-principle' approval and has requested the Central Government to grant final approval.

The State Government, in the compliance report dated 19.03.2013 has proposed to raise compensatory afforestation over 580.798 ha of Revenue forest land (*Chhote bade Jhad ka Jungle*), double in extent to the area proposed for diversion. The matter was examined in the Ministry in light of Guidelines given under para 3.2 (i) read with clarifications given thereunder. As per the provisions of the said Guidelines, the revenue land (*Chhote bade Jhad Ka Jungle*), on which provisions of Forest (Conservation) Act, 1980 are applicable, may be considered for the purpose of compensatory afforestation at par with non-forest land provided such lands on which compensatory afforestation is proposed shall be notified as Rf under the Indian Forest Act, 1927.

In this connection, I am directed to say that on the basis of the compliance report furnished by the State Government, vide letter no. *Bhu-Prabandh Khanij*:331-13/1163 dated 2.06.2014, 25.06.2014 and letter dated 17.07.2014, final approval of the Central Government is hereby granted under section-2 of the Forest (Conservation) Act, 1980 for diversion of 76.50 ha of forest land for iron ore mining in East Bhanupratapur Forest Division in Kanker district of Chhattisgarh in favour of M/s Bajrang Metallics & Power Limited subject to fulfillment of the following conditions:

1. Legal status of the diverted forest land shall remain unchanged;
2. Compensatory afforestation over the *chhote bade Jhad Ka Jungle* (revenue Forest Land), twice in extent to the forest land being diverted as proposed by the State Government shall be raised and maintained by the State Forest Department from the funds already provided by the User Agency;

3. The *chhote hade Jhad Ka Jungle* transferred and mutated in favour of the State Forest Department shall be notified by the State Government as RF under Section-4 or PF under Section-29 of the Indian Forest Act, 1927 or under the relevant Section(s) of the local Forest Act, 1927 latest within a period of six months from the date of issue of Stage-II approval. The Nodal Officer shall report compliance in this regard along with a copy of the original notification declaring the non-forest land under Section 4 or Section 29 of the Indian Forest Act, 1927, as the case may be, within the stipulated period to the Central Government for information and record:
4. Wherever possible and technically feasible, the User Agency shall undertake by involving local community, the afforestation measures in the blanks within the lease area, as well as along the roads outside the lease area diverted under this approval, in consultation with the State Forest Department at the project cost:
5. The User Agency shall pay the additional amount of NPV, if so determined, as per the final decision of the Hon'ble Supreme Court of India:
6. The period of diversion of the said forest land under this approval shall be for a period co-terminus with the period of the mining lease proposed to be granted under the Mines and Minerals (Development & Regulation) Act, 1957, or Rules framed there under, subject to a maximum period of 30 years:
7. User agency either himself or through the State Forest Department shall undertake gap planting and soil & moisture conservation activities to restock and rejuvenate the degraded open forests (having crown density less than 0.40), if any, located in the area within 100 m. from outer perimeter of the mining lease:
8. The user agency shall undertake mining in a phased manner after taking due care for reclamation of the mined over area. The concurrent reclamation plan as per the approved mining plan shall be executed by the User Agency from the very first year, and an annual report on implementation thereof shall be submitted to the Nodal Officer, Forest (Conservation) Act, 1980, in the concerned State Government and the concerned Regional Office of the Ministry. If it is found from the annual report that the activities indicated in the concurrent reclamation plan are not being executed by the User Agency, the Nodal Officer or the Chief Conservator of Forests (Central) may direct that the mining activities shall remain suspended till such time, such reclamation activities are satisfactorily executed.
9. Following activities shall be undertaken by the user agency for the management of safety zone:
 - i. User agency shall ensure demarcation of boundary of safety zone (7.5 meter strip all along the outer boundary of the mining lease area), and its protection by erecting adequate number of 4 feet high RCC boundary pillars inscribed with DGPS coordinates and deploying adequate number of watchers under the supervision of the State Forest Department.
 - ii. In case of the mining leases adjoining the habitation stretch of the boundary of the safety zone of the lease adjacent to the habitation/roads should be properly fenced by the user agency at the project cost to protect the vegetation /regeneration activities in the safety zone.
 - iii. Safety zone shall be maintained as green belt around the mining lease and to ensure dense canopy cover in the area, regeneration shall be taken in this area by the user agency at the project cost under the supervision of the State Forest Department.
 - iv. Afforestation on degraded forest land, to be selected elsewhere, measuring one and a half times the area under safety zone shall also be done by the user agency at the project cost under the supervision of the State Forest Department.




10. The user agency shall undertake de-silting of the village tanks and other water bodies located within five km from the mine lease boundary so as to mitigate the impact of siltation of such tanks/water bodies, whenever required:
11. Following activities shall be undertaken by the User Agency at the project cost as per the scheme submitted by user agency and approved by the state Government:
 - i. Implementation of plan containing appropriate mitigative measures to minimize soil erosion and choking of streams:
 - ii. Planting of adequate drought hardy plant species and sowing of seeds in the appropriate area within the mining lease to arrest soil erosion:
 - iii. Construction of check dams, retention /toe walls along the contour to arrest sliding down of the excavated material:
 - iv. Stabilize the overburden dumps by appropriate grading/benching so as to ensure that that angles of repose at any given place is less than 28 : and
 - v. Strict adherence to the prescribed top soil management.
12. No labour camp shall be established on the forest land:
13. The User Agency shall provide fuels preferably alternate fuels to the labourers and the staff working at the site so as to avoid any damage and pressure on the nearby forest areas:
14. The boundary of the diverted forest land, mining lease shall be demarcated on ground at the project cost, by erecting four feet high reinforced cement concrete pillars, each inscribed with its serial number, forward and back bearing and distance from pillar to pillar:
15. The layout plan of the proposal shall not be changed without the prior approval of the Central Government.
16. The forest land shall not be used for any purpose other than that specified in the proposal:
17. The forest land proposed to be diverted shall under no circumstances be transferred to any other agency, department or person without prior approval of the Central Government:
18. No damage to the flora and fauna of the adjoining area shall be caused:
19. Any tree felling shall be done only when it is unavoidable and that too under strict supervision of the State Forest Department.
20. Cost of benefits such as grazing, collection of tendu leave and other NTFP etc. presently accrued from the forest land proposed for diversion to the tribal and other residents of the adjoining habitations, as assessed by the State Government will be distributed among the project affected families:
21. Realistic baseline data prepared by the user agency shall be utilized for periodic monitoring and change depiction of the ecological aspects including flora and fauna in and around the lease area:
22. Recommendations of the specific study to be conducted by a group of experts/reputed organization constituted by the State Government of Chattisgarh, vide letter No.Bhu.Prabandh/Khanj/331-13/589 dt 17.07.2014 and approved by the Ministry of Environment, Forest & Climate Change vide No.8-34/2009-FC dt 01.08.2014 to assess cumulative impact of the mining in the landscape will be binding on the user agency:
23. The State Government shall ensure that the mining shall be done progressively and area shall be reclaimed successively as specified in the environmental clearance. Carefully selected endemic and pioneer species only shall be used for reclamation.
24. Only primary crushing should be allowed at mine site to facilitate ore transportation. No other ore processing unit or beneficiation activity should be allowed in and around the mining site.
25. Transportation of ore to be done in covered vehicles specially designed/ modified.



26. Proper run-off control structure to be erected to prevent damage to neighboring agricultural field and drainage leading to rivers flowing on northern and southern portion of proposed lease. Rain water harvesting to be done.
27. No mining or ancillary activities should be allowed between sun set and sun rise.
28. No housing facility to be created within lease area.
29. The corridor (Indravai-Sitanandi) falling under the jurisdiction of the East Bhanupratapur Forest Division should be restored/rejuvenated in the area as per the Plan prepared by the Forest Department in consultation with the WII, as per the NFCA Guidelines.
30. Eco-development initiatives (at least 5 village/hamlet clusters) in the notified buffer peripheral area of the Indravati Tiger reserve, and peripheral area of the Bhamragarb Wildlife Sanctuary, as a part of an 'off site offset' measure, shall be undertaken by the project proponent as per the Plan prepared by the Forest Department in consultation with the local people.
31. The user agency shall submit the annual self compliance report in respect of the above conditions to the State Government and to the concerned Regional Office of the Ministry regularly.
32. Any other condition that the concerned Regional Office of this Ministry may stipulate, from time to time, in the interest of conservation, protection and development of forests & wildlife: and
33. The User Agency and the State Government shall ensure compliance to provisions of the all Acts, Rules, Regulations and Guidelines, for the time being in force, as applicable to the project.


Yours faithfully,


(M. Rajkumar)

Assistant Inspector General of Forests

Copy to:

1. The Principal Chief Conservator of Forest, Government of Chhattisgarh, Raipur.
2. The Addl. Principal Chief conservator of Forest (Central), Western Regional Office, Bhopal.
3. The Nodal Officer (FCA), Office of the PCCF, Government of Chhattisgarh, Raipur.
4. User Agency (M/s. Shri. Bajrang Metals and Power limited, Village Ghondwara, Urla Industrial Complex, Raipur-493221).
5. Monitoring cell, FC Division.
6. Guard File.


(M. Rajkumar)

Assistant Inspector General of Forests

Data Report

FromTime : 18 Sep 2023 00:00:00 ToTime : 18 Sep 2023 00:00:00 Interval : Hour

Time	Bajrang Iron Ore Mines--AAQMS-2-- PM10--ug/m3	Bajrang Iron Ore Mines--AAQMS-2-- PM2.5--ug/m3	Bajrang Iron Ore Mines--AAQMS-2-- SO2--ug/m3	Bajrang Iron Ore Mines--AAQMS-2-- NO2--ug/m3	Bajrang Iron Ore Mines--AAQMS-2-- CO--mg/m3	Bajrang Iron Ore Mines--AAQMS-2-- O3--ug/m3
18 Sep 2023 00:00	20.1	9.06	6.47	12.61	0.43	6.05
18 Sep 2023 01:00	22.75	10.48	6.87	13.02	0.41	5.03
18 Sep 2023 02:00	20.33	9.17	6.67	11.59	0.42	5.92
18 Sep 2023 03:00	17.98	8.09	6.07	13.89	0.44	5.83
18 Sep 2023 04:00	12.28	5.61	6.15	12.91	0.5	5.57
18 Sep 2023 05:00	11.78	5.25	6.23	12.36	0.4	5.29
18 Sep 2023 06:00	10.5	4.61	6.33	12.8	0.39	5.42
18 Sep 2023 07:00	10.4	4.4	6.69	12.53	0.45	5.82
18 Sep 2023 08:00	8.3	3.45	6.44	13.28	0.45	5.22
18 Sep 2023 09:00	9.18	4.06	6.07	12.58	0.41	5.5
18 Sep 2023 10:00	11.94	5.68	5.98	12.31	0.46	5.38
18 Sep 2023 11:00	16.38	8.31	6.21	13.05	0.45	5.34
18 Sep 2023 12:00	10.75	4.96	6.62	12.8	0.42	5.84
18 Sep 2023 13:00	7.88	3.36	6.57	12.13	0.45	5.77
18 Sep 2023 14:00	8.2	3.76	6.93	13.13	0.48	5.25
18 Sep 2023 15:00	6.6	2.85	5.72	11.13	0.48	5.4
18 Sep 2023 16:00	7.9	3.35	6.47	13.49	0.48	5.27
18 Sep 2023 17:00	6.93	2.86	6.14	12.46	0.5	5.53
18 Sep 2023 18:00	7.98	3.32	6.65	11.73	0.45	5.18
18 Sep 2023 19:00	8.18	3.45	7.21	12.19	0.46	5.23
18 Sep 2023 20:00	10.25	4.38	6.89	12.81	0.4	5.79
18 Sep 2023 21:00	15.23	6.83	5.85	12.85	0.47	5.64
18 Sep 2023 22:00	23.15	10.7	6.54	11.39	0.51	5.99
18 Sep 2023 23:00	25.85	11.88	6.62	12.14	0.46	5.42

Data Report

FromTime : 18 Sep 2023 00:00:00 ToTime : 18 Sep 2023 00:00:00 Interval : Hour

Time	Bajrang Iron Ore Mines--AAQMS-3-- PM10--ug/m3	Bajrang Iron Ore Mines--AAQMS-3-- PM2.5--ug/m3	Bajrang Iron Ore Mines--AAQMS-3-- SO2--ug/m3	Bajrang Iron Ore Mines--AAQMS-3-- NO2--ug/m3	Bajrang Iron Ore Mines--AAQMS-3-- CO--mg/m3	Bajrang Iron Ore Mines--AAQMS-3--O3-- ug/m3
18 Sep 2023 00:00	31.84	17.98	0.03	9.24	0.15	5.29
18 Sep 2023 01:00	36.48	21	0.03	9.24	0.17	5.22
18 Sep 2023 02:00	32.6	18.39	0.03	9.24	0.14	5.5
18 Sep 2023 03:00	29.12	16.35	0.03	9.25	0.13	5.38
18 Sep 2023 04:00	20.16	11.47	0.03	9.09	0.13	5.34
18 Sep 2023 05:00	18.68	10.54	0.03	9.09	0.12	5.84
18 Sep 2023 06:00	17.2	9.4	0.02	9.24	0.2	3.37
18 Sep 2023 07:00	16.24	8.6	0.03	9.11	0.12	3.49
18 Sep 2023 08:00	13.52	7.03	0.03	9.28	0.2	3.81
18 Sep 2023 09:00	14.2	7.85	0.04	9.16	0.2	5.83
18 Sep 2023 10:00	18.2	10.8	0.04	9.32	0.32	5.57
18 Sep 2023 11:00	25.64	16.37	0.05	9.34	0.33	5.29
18 Sep 2023 12:00	17.24	9.84	0.06	9.36	0.44	5.42
18 Sep 2023 13:00	13.24	7.27	0.07	9.37	0.52	5.82
18 Sep 2023 14:00	13.28	7.56	0.09	9.39	0.67	3.25
18 Sep 2023 15:00	10.68	5.72	0.1	9.41	0.74	3.37
18 Sep 2023 16:00	11.92	6.28	0.09	9.41	0.62	3.49
18 Sep 2023 17:00	11.28	5.83	0.06	9.34	0.33	3.81
18 Sep 2023 18:00	12.48	6.51	0.05	9.31	0.15	3.44
18 Sep 2023 19:00	13.44	7.03	0.04	9.29	0.22	5.77
18 Sep 2023 20:00	15.92	8.43	0.04	9.27	0.17	5.25
18 Sep 2023 21:00	24.08	13.54	0.03	9.27	0.18	5.4
18 Sep 2023 22:00	37.08	21.45	0.03	9.26	0.1	5.27
18 Sep 2023 23:00	41.84	24.08	0.03	9.25	0.16	5.53

Data Report

FromTime : 18 Sep 2023 00:00:00 ToTime : 18 Sep 2023 00:00:00 Interval : Hour

Time	Bajrang Iron Ore Mines-- AAQMS-1--PM10-- ug/m3	Bajrang Iron Ore Mines--AAQMS-1-- PM2.5--ug/m3	Bajrang Iron Ore Mines--AAQMS-1-- SO2--ug/m3	Bajrang Iron Ore Mines-- AAQMS-1--NO2--ug/m3	Bajrang Iron Ore Mines--AAQMS-1-- CO--mg/m3	Bajrang Iron Ore Mines--AAQMS-1--O3 -ug/m3
18 Sep 2023 00:00	16.08	13.58	15.15	17.52	0.48	3.34
18 Sep 2023 01:00	18.2	15.72	14.39	16.84	0.56	3.61
18 Sep 2023 02:00	16.22	13.72	14.83	18.81	0.49	3.76
18 Sep 2023 03:00	14.36	12.12	15.33	18.52	0.49	3.66
18 Sep 2023 04:00	9.76	8.37	14.99	18.68	0.52	3.6
18 Sep 2023 05:00	9.4	7.85	15.65	18.11	0.51	3.25
18 Sep 2023 06:00	8.4	6.9	15.02	16.54	0.47	3.37
18 Sep 2023 07:00	8.32	6.6	15.39	17.06	0.51	3.49
18 Sep 2023 08:00	6.66	5.19	14.7	18.63	0.56	3.81
18 Sep 2023 09:00	7.34	6.09	15.45	18.77	0.47	3.44
18 Sep 2023 10:00	9.53	8.48	14.92	17.17	0.49	3.64
18 Sep 2023 11:00	13.04	12.4	14.78	18.4	0.49	3.55
18 Sep 2023 12:00	8.56	7.41	14.83	16.9	0.48	3.43
18 Sep 2023 13:00	6.35	5.08	15.57	19.46	0.49	3.7
18 Sep 2023 14:00	6.58	5.66	15.14	16.52	0.52	3.62
18 Sep 2023 15:00	5.28	4.28	14.86	16.55	0.46	3.78
18 Sep 2023 16:00	6.32	5.02	14.68	16.31	0.46	3.59
18 Sep 2023 17:00	5.45	4.22	15.09	19.12	0.46	3.17
18 Sep 2023 18:00	6.49	5.06	15.35	16.23	0.54	3.71
18 Sep 2023 19:00	6.54	5.18	14.58	17.27	0.43	3.7
18 Sep 2023 20:00	8.2	6.57	14.39	19.65	0.53	3.27
18 Sep 2023 21:00	12.18	10.25	15.36	18.36	0.46	3.52
18 Sep 2023 22:00	18.52	16.04	14.79	17.22	0.48	3.47
18 Sep 2023 23:00	20.68	17.83	14.94	17.43	0.51	3.44



HDD-272, Phase III - Near JP Chowk
Ring Road No.-2, Kabir Nagar, Raipur (C.G.) - 492099
Ph : 0771 - 4027777 | Email : ultimatenviro@gmail.com

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<i>Name & Address Of The Customer</i>		REPORT NO.	UES/TR/23-24/03572	
TO, M/s Shri Bajrang Iron Ore Mines, Vill.-Hahaladdi, Teh-Bhanupratappur, Dist.-North Bastar-Kanker(C.G.)		LAB REF NO.	UES/23-24/FE/06858	
		DATE OF SAMPLING	27/08/2023	
		DATE OF RECEIPT	28/08/2023	
		DATE OF REPORT	01/09/2023	
		DATE OF ANALYSIS	START: 28/07/2023	END: 01/09/2023
SAMPLE DETAILS				
MONITORING FOR	FUGITIVE EMISSION			
CUSTOMER REF. NO.	SBPIL/MINE/ENV./2023-24/691 DATE: 26/08/2023			
SAMPLING LOCATION	AS DESCRIBED BELOW			
DURATION OF SAMPLING	8 HOURS			
SAMPLE COLLECTED BY	LABORATORY CHEMIST			
SAMPLING PROCEDURE	AS PER METHOD REFERENCE			
SAMPLE QUANTITY/PACKING	GMF FILTER PAPER (8 X 10 INCH): 1X1 NO.			

TEST REPORT




SR. NO.	PARAMETER	UNIT	RESULT			NAAQM Standard	METHOD REFERENCE
			NEAR CRUSHER	NEAR MAIN GATE	NEAR MINE PIT		
1	Total Suspended Particulate Matter (SPM)	$\mu\text{g}/\text{m}^3$	332	498	426	500	EPA Method IO-2.1

Note: All results are on the basis of 8hour sampling.

REMARKS: RESULTS ARE AS ABOVE

Terms & conditions

- The report for publication, arbitration or as legal dispute is forbidden.
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- This is for information as the party has asked for above test(s) only

 REVIEWED BY		For ULTIMATE ENVIROLYTICAL SOLUTIONS  AUTHORIZED SIGNATORY
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-----End of the test report-----



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<i>Name & Address Of The Customer</i>		REPORT NO.	UES/TR/23-24/03569	
To, M/s Shri Bajrang Iron Ore Mines Vill.-Hahaladdi, Teh- Bhanupratappur, Dist.-North Bastar-Kanker(C.G.)		LAB REF NO.	UES/23-24/AAQM/06855	
		DATE OF SAMPLING	26/08/2023 to 27/08/2023	
		DATE OF RECEIPT	28/08/2023	
		DATE OF REPORT	01/09/2023	
		DATE OF ANALYSIS	START: 28/08/2023	END: 01/09/2023
SAMPLE DETAILS				
MONITORING FOR	AMBIENT AIR QUALITY MONITORING			
CUSTOMER REF. NO.	SBPIL/MINE/ENV./2023-24/691 DATE: 26/08/2023			
SAMPLING LOCATION	PRIMARY SCHOOL CHAHCHAD (BHANUPRATAPPUR, DIST: KANKER)			
DURATION OF SAMPLING	24 HOURS			
SAMPLE COLLECTED BY	LABORATORY CHEMIST			
SAMPLING PROCEDURE	AS PER METHOD REFERENCE			
SAMPLE QUANTITY/PACKING	FILTER PAPER (PM ₁₀): 1X1 NO., FILTER PAPER (PM _{2.5}): 1X1 NO. SO ₂ : 30MLX1 NO. PVC BOTTLE, NO ₂ : 30MLX1 NO. PVC BOTTLE.			

TEST REPORT

SR. NO.	PARAMETER	UNIT	RESULT	NAAQM STANDARD	METHOD REFERENCE
1	Particulate Matter size less than 10 microns (PM ₁₀)	µg/m ³	65	100	IS: 5182 (Part-23) : 2017
2	Particulate Matter size less than 2.5 microns (PM _{2.5})	µg/m ³	33	60	IS: 5182 (Part-24) : 2019
3	Sulphur Dioxide (SO ₂)	µg/m ³	20	80	IS: 5182 (Part-2) : 2017
4	Nitrogen Dioxide (NO ₂)	µg/m ³	23	80	IS: 5182 (Part-6) : 2017
5	Carbon Monoxide (as CO)	mg/m ³	0.3	4.0	IS 5182 (Part 10) : 1999, RA 2003

Note: All results are on the basis of 24 hour sampling.

REMARKS: RESULTS ARE AS ABOVE

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Subhajeet
01/09/23

REVIEWED BY



For ULTIMATE ENVIROLYTICAL SOLUTIONS

Subhajeet

AUTHORIZED SIGNATORY

-----End of the test report-----



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Name & Address Of The Customer To, M/s Shri Bajrang Iron Ore Mines Vill.- Hahaladdi, Teh- Bhanupratappur, Dist.- North Bastar- Kanker (C.G.)	REPORT NO.	UES/TR/23-24/03570	
	LAB REF NO.	UES/23-24/AAQM/06856	
	DATE OF SAMPLING	26/08/2023 to 27/08/2023	
	DATE OF RECEIPT	28/08/2023	
	DATE OF REPORT	01/09/2023	
	DATE OF ANALYSIS	START: 28/08/2023	END: 01/09/2023
SAMPLE DETAILS			
MONITORING FOR	AMBIENT AIR QUALITY MONITORING		
CUSTOMER REF. NO.	SBPIL/MINE/ENV./2023-24/691 DATE: 26/08/2023		
SAMPLING LOCATION	NEAR BANJARI MATA MANDIR		
DURATION OF SAMPLING	24 HOURS		
SAMPLE COLLECTED BY	LABORATORY CHEMIST		
SAMPLING PROCEDURE	AS PER METHOD REFERENCE		
SAMPLE QUANTITY/PACKING	FILTER PAPER (PM ₁₀): 1X1 NO., FILTER PAPER (PM _{2.5}): 1X1 NO. SO ₂ : 30MLX1 NO. PVC BOTTLE, NO ₂ : 30MLX1 NO. PVC BOTTLE.		

TEST REPORT

SR. NO.	PARAMETER	UNIT	RESULT	NAAQM STANDARD	METHOD REFERENCE
1	Particulate Matter size less than 10 microns (PM ₁₀)	µg/m ³	61	100	IS: 5182 (Part-23) : 2017
2	Particulate Matter size less than 2.5 microns (PM _{2.5})	µg/m ³	31	60	IS: 5182 (Part-24) : 2019
3	Sulphur Dioxide (SO ₂)	µg/m ³	18	80	IS: 5182 (Part-2) : 2017
4	Nitrogen Dioxide (NO ₂)	µg/m ³	22	80	IS: 5182 (Part-6) : 2017
5	Carbon Monoxide (as CO)	mg/m ³	0.1	4.0	IS 5182 (Part 10) : 1999, RA 2003

Note: All results are on the basis of 24 hour sampling.

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Subhajeet

AUTHORIZED SIGNATORY

-----End of the test report-----

RAINWATER HARVESTING MEASURES

Five Rainwater Harvesting Pits have been constructed in the Mine area. The surface rain fall water is being collected in the pits, which are acting as artificial ground water recharge structures to augment ground water extracted from the Bore wells. Fencing has been done all around the periphery of the pit to prevent trespassing.

DIMENSIONS OF RAINWATER HARVESTING PIT

S.NO.	DIMENSIONS L X B X H	VOLUME	Location
01.	24 m x 14 m x 4 m	1344 m ³	Near Mine office
02.	22 m x 17 m x 4 m	1496 m ³	Near Fixed crusher point
03.	20 m x 20 m x 4.5 m	1800 m ³	Near ROM Stock yard
04.	12 m x 8 m x 4 m	384 m ³	At point C
04.	22 m X 14 m X 2.5 m	770 m ³	Near hill area point 4 (point A)
Total Volume		5794 m³	~ 6000 m ³

1. Rainwater Harvesting Pit - 1 (Near Mine office - Canteen)**2. Rain Water Harvesting Pit - 2 (Near Fixed Crusher point)**

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3. Rain Water Harvesting Pit - 3 (Near ROM stock yard)



4. Rain Water Harvesting Pit - 4 (at Point C)



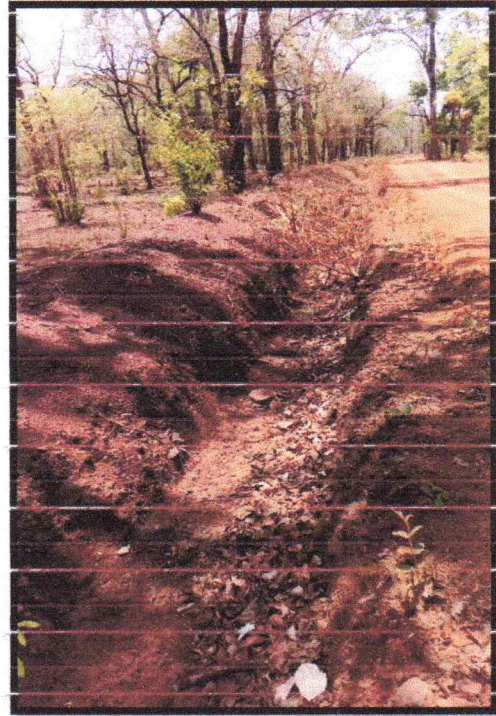
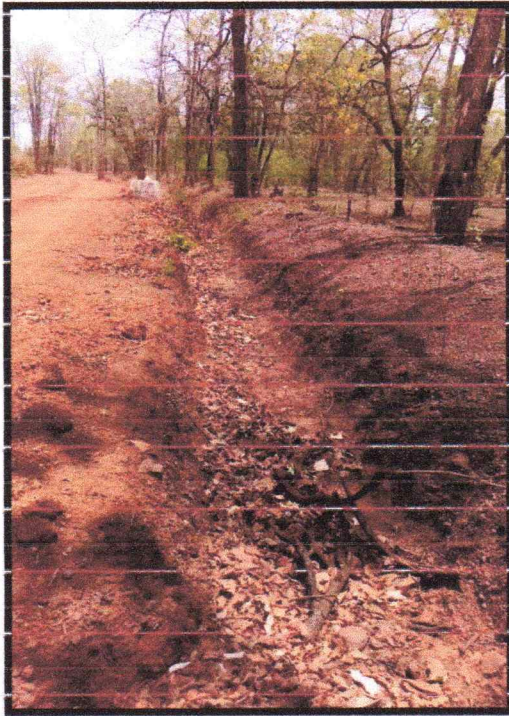
5. Rain Water Harvesting Pit - 5 (Near point - 4 hill area)



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Apart from it Garland Drains and check dam are also constructed at desired locations.

GARLAND DRAINS



Wof



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<i>Name & Address Of The Customer</i>		REPORT NO.	UES/TR/23-24/03573		
TO, M/s Shri Bajrang Iron Ore Mines Vill.-Hahaladdi,Teh-Bhanupratappur, Dist.-North Bastar-Kanker(C.G.)		LAB REF NO.	UES/23-24/W/06859		
		DATE OF SAMPLING	27/08/2023		
		DATE OF RECEIPT	28/08/2023		
		DATE OF REPORT	01/09/2023		
		DATE OF ANALYSIS	START:28/07/2023	END:01/09/2023	
		SAMPLE DETAILS			
SAMPLE TYPE	GROUND WATER				
ORDER /REFERENCE:	SBPIL/MINE/ENV./2023-24/691 DATE: 26/08/2023				
CUSTOMER SAMPLE ID	NEAR OFFICE BUILDING (BOREWELL WATER)				
PACKING OF SAMPLE	4 L X 1 NO. PVC CAN, 1 L X 1 NO. GLASS BOTTLE		(SEALED)		
SAMPLE COLLECTED BY	LABORATORY CHEMIST				
SAMPLING PROCEDURE	IS:3025(PART I):1987 RA 2003; APHA 22 ND ED. 2012, 1060-B, 1-39				

TEST REPORT

SR. NO.	PARAMETER	UNIT	METHOD OF TEST	STANDARD LIMIT (IS:10500:2012)	RESULT
1	pH	-	IS3025:(PART-11)	6.5 to 8.5	7.45
2	Turbidity	NTU	IS 3025:(PART-10)	1.0 (max)	0.36
3	Total Dissolved Solids	mg/l	IS3025:(PART-16)	500 (max)	280.0
4	Alkalinity Total (as CaCO ₃)	mg/l	IS 3025:(PART-23)	200 (max)	142.0
5	Total Hardness (as CaCO ₃)	mg/l	IS 3025:(PART-21)	200 (max)	172.0
6	Calcium (as Ca)	mg/l	IS 3025:(PART-40)	75 (max)	46.49
7	Magnesium(as Mg)	mg/l	IS 3025:(PART-46)	30 (max)	13.61
8	Chloride (as Cl)	mg/l	IS 3025:(PART-32)	250 (max)	26.9
9	Sulphate (as SO ₄)	mg/l	IS 3025:(PART-24)	200 (max)	13.41
10	Nitrate (NO ₃)	mg/l	IS 3025:(PART-34)	45 (max)	3.13
11	Phosphate (as P)	mg/l	IS 3025:(PART-31)	--	N.D.
12	Sodium (as Na)	mg/l	IS 3025:(PART-45)	--	11.46
13	Iron (as Fe)	mg/l	IS 3025:(PART-53)	0.3(max)	0.16
14	Potassium (as K)	mg/l	IS 3025:(PART-45)	--	4.96

Note: mg/lit.: milligram per liter, N.D.: Not Detected.

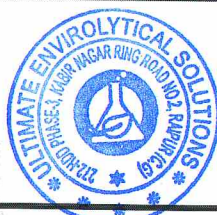
REMARKS: RESULTS ARE AS ABOVE

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- > This is for information as the party has asked for above test(s) only

Subhajeet
01/09/23

REVIEWED BY



For ULTIMATE ENVIROLYTICAL SOLUTIONS

Subhajeet

AUTHORIZED SIGNATORY

-----End of the test report-----



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<i>Name & Address Of The Customer</i>		REPORT NO.	UES/TR/23-24/03574	
TO, M/s Shri Bajrang Iron Ore Mines Vill.-Hahaladdi,Teh-Bhanupratappur, Dist.-North Bastar-Kanker(C.G.)		LAB REF NO.	UES/23-24/W/06860	
		DATE OF SAMPLING	27/08/2023	
		DATE OF RECEIPT	28/08/2023	
		DATE OF REPORT	01/09/2023	
		DATE OF ANALYSIS	START:28/07/2023	END:01/09/2023
SAMPLE DETAILS				
SAMPLE TYPE	GROUND WATER			
ORDER /REFERENCE:	SBPIL/MINE/ENV./2023-24/691 DATE: 26/08/2023			
CUSTOMER SAMPLE ID	NEAR STORE OFFICE(BOREWELL)			
PACKING OF SAMPLE	4 L X 1 NO. PVC CAN, 1 L X 1 NO. GLASS BOTTLE	SEALED		
SAMPLE COLLECTED BY	LABORATORY CHEMIST			
SAMPLING PROCEDURE	IS:3025(PART I):1987 RA 2003; APHA 22ND ED. 2012, 1060-B, 1-39			

TEST REPORT

SR. NO.	PARAMETER	UNIT	METHOD OF TEST	THE STANDARD LIMIT (IS:10500:2012)	RESULT
1	pH	-	IS3025:(PART-11)	6.5 to 8.5	7.36
2	Turbidity	NTU	IS 3025:(PART-10)	1.0 (max)	0.44
3	Total Dissolved Solids	mg/l	IS3025:(PART-16)	500 (max)	204.0
4	Alkalinity Total (as CaCO ₃)	mg/l	IS 3025:(PART-23)	200 (max)	124.0
5	Total Hardness (as CaCO ₃)	mg/l	IS 3025:(PART-21)	200 (max)	144.0
6	Calcium (as Ca)	mg/l	IS 3025:(PART-40)	75 (max)	44.89
7	Magnesium (as Mg)	mg/l	IS 3025:(PART-46)	30 (max)	7.78
8	Chloride (as Cl)	mg/l	IS 3025:(PART-32)	250 (max)	24.9
9	Sulphate (as SO ₄)	mg/l	IS 3025:(PART-24)	200 (max)	25.6
10	Nitrate (NO ₃)	mg/l	IS 3025:(PART-34)	45 (max)	3.26
11	Phosphate (as P)	mg/l	IS 3025:(PART-31)	--	N.D.
12	Sodium (as Na)	mg/l	IS 3025:(PART-45)	--	10.21
13	Iron (as Fe)	mg/l	IS 3025:(PART-53)	0.3(max)	0.14
14	Potassium (as K)	mg/l	IS 3025:(PART-45)	--	3.61

Note: mg/lit.: milligram per liter, N.D.: Not Detected.

REMARKS: RESULTS ARE AS ABOVE

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- > Test sample will be retained for 07 days after issue of test report unless otherwise agreed with customer.
- > This is for information as the party has asked for above test(s) only.

Subhajeet
20/09/23

REVIEWED BY



For ULTIMATE ENVIROLYTICAL SOLUTIONS

Subhajeet

AUTHORIZED SIGNATORY

-----End of the test report-----



HDD-272, Phase III - Near JP Chowk
Ring Road No.-2, Kabir Nagar, Raipur (C.G.) - 492099
Ph : 0771 - 4027777 | Email : ultimatenviro@gmail.com

Recognized by Ministry of Environment Forest and Climate Change under EP act 1996

<i>Name & Address Of The Customer</i>		REPORT NO.	UES/TR/23-24/03575	
TO, M/s Shri Bajrang Iron Ore Mines Vill.- Halaladdi, Teh- Bhanupratappur, Dist.-North Bastar - Kanker(C.G.)		LAB REF NO.	UES/23-24/W/06861	
		DATE OF SAMPLING	27/08/2023	
		DATE OF RECEIPT	28/08/2023	
		DATE OF REPORT	01/09/2023	
		DATE OF ANALYSIS	START:28/07/2023	END:01/09/2023
SAMPLE DETAILS				
SAMPLE TYPE	GROUND WATER			
ORDER /REFERENCE:	SBPIL/MINE/ENV./2023-24/691 DATE: 26/08/2023			
CUSTOMER SAMPLE ID	NEAR BANJARI TEMPLE ROAD			
PACKING OF SAMPLE	4 L X 1 NO. PVC CAN, 1 L X 1 NO. GLASS BOTTLE	SEALED		
SAMPLE COLLECTED BY	LABORATORY CHEMIST			
SAMPLING PROCEDURE	IS:3025(PART I):1987 RA 2003; APHA 22ND ED. 2012, 1060-B, 1-39			

TEST REPORT

SR. NO.	PARAMETER	UNIT	METHOD OF TEST	THE STANDARD LIMIT (IS:10500:2012)	RESULT
1	pH	-	IS3025:(PART-11)	6.5 to 8.5	7.54
2	Turbidity	NTU	IS 3025:(PART-10)	1.0 (max)	0.47
3	Total Dissolved Solids	mg/l	IS3025:(PART-16)	500 (max)	176.0
4	Alkalinity Total (as CaCO ₃)	mg/l	IS 3025:(PART-23)	200 (max)	112.0
5	Total Hardness (as CaCO ₃)	mg/l	IS 3025:(PART-21)	200 (max)	128.0
6	Calcium (as Ca)	mg/l	IS 3025:(PART-40)	75 (max)	40.88
7	Magnesium (as Mg)	mg/l	IS 3025:(PART-46)	30 (max)	6.32
8	Chloride (as Cl)	mg/l	IS 3025:(PART-32)	250 (max)	22.9
9	Sulphate (as SO ₄)	mg/l	IS 3025:(PART-24)	200 (max)	10.04
10	Nitrate (NO ₃)	mg/l	IS 3025:(PART-34)	45 (max)	1.28
11	Phosphate (as P)	mg/l	IS 3025:(PART-31)	--	N.D.
12	Iron (as Fe)	mg/l	IS 3025:(PART-45)	0.3(max)	0.11
13	Sodium (as Na)	mg/l	IS 3025:(PART-53)	--	10.66
14	Potassium (as K)	mg/l	IS 3025:(PART-45)	--	6.46

Note: mg/lit.: milligram per liter, N.D.: Not Detected.

REMARKS: RESULTS ARE AS ABOVE

Terms & conditions

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- > This is for information as the party has asked for above test(s) only

Subhajeet
01/09/23

REVIEWED BY



For ULTIMATE ENVIROLYTICAL SOLUTIONS

Subhajeet

AUTHORIZED SIGNATORY

-----End of the test report-----



HDD-272, Phase III - Near JP Chowk
Ring Road No.-2, Kabir Nagar, Raipur (C.G.) - 492099
Ph : 0771 - 4027777 | Email : ultimatenviro@gmail.com

Recognized by Ministry of Environment Forest and Climate Change under EP act 1996

<i>Name & Address Of The Customer</i>		REPORT NO.	UES/TR/23-24/03576
TO, M/s Shri Bajrang Iron Ore Mines, Vill.-Hahaladdi, Teh-Bhanupratappur, Dist.-North Bastar – Kanker (C.G.)		LAB REF NO.	UES/23-24/N/06862-06866
		DATE OF SAMPLING	26/08/2023 to 27/08/2023
		DATE OF REPORT	31/08/2023
		SAMPLE DETAILS	
MONITORING FOR	NOISE LEVEL MONITORING		
CUSTOMER REF. NO. & DATE	SBPIL/MINE/ENV./2023-24/691 DATE: 26/08/2023		
SAMPLING LOCATION	INSIDE AND OUTSIDE MINES (AS DESCRIBED BELOW)		
SAMPLE COLLECTED BY	LABORATORY CHEMIST		
SAMPLING PROCEDURE	MANUFACTURER'S INSTRUCTION		

TEST REPORT					
LOCATION	UNIT	RESULT		LIMIT (INDUSTRIAL ZONE)	
		DAY TIME	NIGHT TIME	DAY TIME	NIGHT TIME
MINES D POINT	dB (A)	73.1	65.4	75	70
HILL NO-04 WORKING PIT	dB (A)	68.6	57.1		
NEAR MAIN GATE	dB (A)	70.5	58.7		
NEAR BANJARI MATA MANDIR	dB (A)	61.7	46.5		
PRIMARY SCHOOL CHAHCHAD	dB (A)	58.6	50.0		

REMARKS: RESULTS ARE AS ABOVE

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Subhojeet
31/08/23

REVIEWED BY



For ULTIMATE ENVIROLYTICAL SOLUTIONS

Subhojeet

AUTHORIZED SIGNATORY

-----End of the test report-----

Date: 18.01.2022

SBIOM/MINE/ENV/2021-22/2323

To,
Regional Officer
Integrated Regional Office
Ministry of Environment, Forest and Climate Change
Ground Floor, Aranya Bhawan, North Block, Sector - 19,
Naya Raipur, Atal Nagar, Chhattisgarh

Subject: Submission of "Report on Change Analysis of Land Use/Land Cover within mine lease area & Feasibility/Identification of System for channellizing runoff from mine lease area" of Shri Bajrang Iron Ore Mine, Hahaladdi Kanker Chhattisgarh.

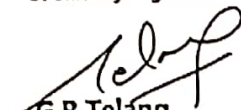
Ref.: EC Condition (XIII) Miscellaneous of subsection (I) of Environment Clearance No. 248/EC/KANKER/795 Dated 18.05.2020

Respected Sir,

In reference to above mention subject, we are submitting herewith "Report on Change Analysis of Land Use/Land Cover within mine lease area & Feasibility/Identification of System for channellizing runoff from mine lease area" w.r.t. our Shri Bajrang Iron Ore Mines, Hahaladdi Kanker Chhattisgarh which has been prepared by Authorized Agency "M/s Tecdatum Infoservices Pvt. Ltd. Hyderabad".

This is for your kind information and record, please.

Thanking You
You're Sincerely
For, Shri Bajrang Iron Ore Mines
of Shri Bajrang Power and Ispat Limited


G R Telang
(AGM- EHS)



C/c : Regional Officer, Chhattisgarh Environment Conservation Board H.I.G., 5 and 6 Aghanpur housing Board Colony, Chitrakot Road, Jagaldapur (C.G.)

Encl: As Stated Above

CIN No. : U27106CT2002PLC015184

Regd. Office / Works : Vill. Borjhara, Urla-Guma Road, Urla Growth Center, Raipur 492003 (C.G.)

Ph. : +91-771-4288019 / 29 / 39, Fax : +91-771-4288123

E-mail : info.bjr@goelgroup.co.in, commercial.bjr@goelgroup.co.in

Corporate Office : 808/A, C Wing One BKC, G Block BKC, Bandra East, Mumbai 400050 (MH)

Ph. : +91-22-67087328



Date: 18.01.2022

SBIOM/MINE/ENV/2021-22/2323

To,
Regional Officer
Integrated Regional Office
Ministry of Environment, Forest and Climate Change
Ground Floor, Aranya Bhawan, North Block, Sector - 19,
Naya Raipur, Atal Nagar, Chhattisgarh

Subject: Submission of "Report on Change Analysis of Land Use/Land Cover within mine lease area & Feasibility/Identification of System for channelizing runoff from mine lease area" of Shri Bajrang Iron Ore Mine, Hahaladdi Kanker Chhattisgarh.

Ref.: EC Condition (XIII) Miscellaneous of subsection (I) of Environment Clearance No. 248/EC/KANKER/795 Dated 18.05.2020

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This is for your kind information and record, please.

Thanking You
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C/c : Regional Officer, Chhattisgarh Environment Conservation Board H.I.G., 5 and 6 Aghanpur housing Board Colony, Chitrakot Road, Jagaldapur (C.G.)

Encl: As Stated Above

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