

Compliance Status of Environmental Clearance Conditions – “Balda Block Iron Ore Mining Project of M/s Serajuddin and Co.” located in village(s) Balda, Bada kalimati and Nayagarh, Sub-division Champua, District Keonjhar, Orissa.

Sl. No	SPECIFIC CONDITIONS	PRESENT STATUS
i	Environmental clearance is subject to final order of the Honorable Supreme Court of India in the matter of Goa Foundation Vs. Union of India in writ Petition (Civil) no. 460 of 2004, as may be applicable to this project.	The authentic map is showing non-existence of any ecologically sensitive area such as national park/wild life sanctuary/ biosphere reserve/elephant reserve etc within 10Km radius.
ii	Environmental clearance is subject to obtaining clearance under the Wild life (Protection) Act, 1972 from the competent authority.	As such the authenticated map indicating non-existence of any National sanctuaries, Biological reserves, Elephant reserves, etc. within 10Km radius buffer. Besides this site specific wild life conservation plan got submitted at authority for approval. This is under process of approval.
iii	All the conditions stipulated by the State pollution Control Board in their Consent to establish should be effectively implemented.	After due compliance, it has granted consent to operate. The copy of its compliance is enclosed as annexure-1 .
iv	The environmental clearance is subject to grant of forestry clearance. The project proponent shall obtain requisite prior forestry clearance under the Forest (Conservation Act), 1980 for working in the forest area.	Presently the operations are restricted to DLC (Forest) broken-up forest area only and will extend further in FC granted area of 24.446 Ha. The copy of the same is enclosed as annexure-2 .
v	The mining operations shall be restricted to above ground water table and it should not intersect groundwater table. Prior approval of the Ministry of Environment & Forests and Central Ground Water Authority shall be obtained for mining below water table.	As such mining activity does not intersect ground water of the area and we will abide by the condition.
vi	The project proponent shall ensure that no natural watercourse and/or water resources shall be obstructed due to any mining operations.	We ensure that no natural water course will be obstructed due to our Mining Operations. In this regard Guard wall got provided at the Bank of Nalla maintaining the safety zone.
vii	The top soil should temporarily be stored at earmarked site only and should not be kept unutilized for a period more than 3 years. The topsoil should be used for land reclamation and plantation.	The top soil generated during the mining, got utilized for plantation. We will follow the same in the future activity also.

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viii	<p>Over burden shall be stacked at earmarked dump site(s) only and should not be kept active for long period. The maximum height of the dump should not exceed 30m having three terraces of 10 m each. The overall slope of the dump shall not exceed 27 degree. The OB dump should be scientifically vegetated with suitable native species to prevent erosion and surface run off. In critical areas, use of geo textiles shall be undertaken for stabilization of the dump. Monitoring and management of rehabilitated areas should continue until vegetation becomes self-sustaining.</p> <p>Compliance status should be submitted to the Ministry of Environment & Forests and its Regional office, Bhubaneswar on six monthly basis.</p>	<p>Presently OB is being stacked inside ML Area and the dump height is being maintained with proper sloping, terracing and still active.</p> <p>It has also developed with garland drain and retaining wall along with application of mixed grass & plantation towards the vegetation & stabilization of dump.</p> <p>The photo copy of the same is attached as photo # 1 & 2.</p>
ix	<p>Catch drains and siltation ponds of appropriate size should be constructed to arrest silt and sediment flows from mine working, soil, OB and mineral dumps. The water so collected should be utilized for watering the mine area, roads, green belt development etc. The drain should be regularly de-silted particularly after monsoon and maintained properly.</p> <p>Garland drain of appropriate size, gradient and length shall be constructed for mine pit, soil, OB and mineral dumps and sump capacity should be designed keeping 50% safety margin over and above peak sudden rainfall (based on 50 years data) and maximum discharge in the area adjoining the mine site. Sump capacity should also provide adequate retention period to allow proper settling of silt material. Sedimentation pits should be constructed at the corners of the garland drains and de-silted at regular intervals.</p>	<p>In this regard KRG RAIN WATER FOUNDATION, CHENNAI got engaged and the report got prepared in consultation with Regional Director, CGWB and Bhubaneswar.</p> <p>Rain Fall DATA got considered; inline to the same.</p> <p>Check dams, De-silting pits and Rain water harvesting structures are being under execution.</p>
x	<p>Dimension of the retaining wall at the toe of the temporary over burden dumps and OB benches within the mine to check run-off and siltation should be based on the rain fall data.</p>	<p>Retaining wall has been constructed at the toe of the dumps with proper dimensions by considering the rain fall data.</p> <p>Photo of the same are enclosed as Photo# 3.</p>
xi	<p>Plantation shall be raised in an area of 314.859 Ha including a green of adequate width by planting the native species around the ML area, OB dumps, roads etc. in consultation with the local DFO / Agriculture Department. The density of the trees should be around 2500 plants per hectare.</p>	<p>Plantation has covered across the entire safety-zone.</p> <p>The Photo copy of the same is enclosed as Photo# 4.</p>

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xii	Regular water sprinkling should be carried out in critical areas prone to air pollution and having high levels of SPM and RPM such as haul road, loading and unloading point and transfer points. It should be ensured that the Ambient Air Quality parameters conform to the norms prescribed by the Central pollution Control board in this regard.	Regular water sprinkling is being carried out by engaging no. of water tankers on the haulage roads for dust suppressions. Monitoring of AAQ sample is being continued in the core as well as buffer zone and results are well within the norms.
xiii	The project proponent shall set up at least one air quality monitoring station in the South west direction during monitoring of the AAQ.	One of the air quality monitoring station in the South west direction got installed, while fixing the other monitoring stations of the AAQ.
xiv	The project authority should implement suitable conservation measures to augment ground resources in the area in consultation with the Regional Director, Central Ground Water Board.	In this regard KRG RAIN WATER FOUNDATION, CHENNAI got engaged and the report got prepared in consultation with Regional Director, CGWB and Bhubaneswar. Check dams, De-silting pits and Rain Water Harvesting Structures are being under execution.
xv	Regular monitoring of ground water level and quality should be carried out in around the mine lease by establishing a network existing wells and constructing new piezometers during the mining operation. The monitoring should be carried out four times in a year Pre –monsoon (April-May), Monsoon (August), Post monsoon (November) and Winter (January) and the data thus collected may be sent regularly to Ministry of Environment and Forests and its Regional Office, Bhubaneswar, Central Ground Water Authority and Regional Director, Central Ground Water Board.	Regular monitoring of ground water level and quality is being carried in & around the mine lease as specified. The data is enclosed as Annexure-3 .
xvi	Appropriate mitigate measures should be taken to prevent pollution of the Baitarani river in consultation with the State Pollution Control Board.	Site specific mitigation measures to prevent silt carried into nearby natural water bodies, has been initiated like implementation of surface run off management, guard wall across the bank of the nalla. The above are being followed in consultation with SPCB, Orissa.
xvii	The project proponent shall obtain prior permission of the competent Authorities for drawl of requisite	Application got submitted at CGWB, BBSR to get NOC for Ground water

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	quantity of water (surface water and ground water) for the project.	withdrawal to the quantity keeping in view of up-coming projected expansion. Copy of the same is enclosed as annexure-4.
xxviii	Suitable rainwater harvesting measures on long term basis shall be planned and implemented in consultation with Regional Director, Central Ground Water Board.	In this regard KRG RAIN WATER FOUNDATION, CHENNAI got engaged and the report got prepared in consultation with Regional Director, CGWB and Bhubaneswar. Check dams, De-silting pits and Rain Water Harvesting Structures are being under execution.
xix	Vehicular emissions shall be kept under control and regularly monitored. Measures shall be taken for maintenance of vehicles used in mining operations and in transportation of mineral. The vehicles should be covered with a tarpaulin and shall not be overloaded.	Timely preventive measures are taken for maintenance of vehicles used in mining operations and transportation of mineral. Steps were initiated to ensure that the trucks are covered and should not be overloaded.
xx	Blasting operation should be carried out only during daytime. Controlled blasting shall be practiced. The mitigate measures for control of ground vibrations and to arrest fly rocks and boulders should be implemented.	Presently the Controlled blasting is being done by using the Nonel technology. It is being followed in day time only. Ground vibrations are being monitored and the results are well within the norms.
xxi	Drills shall either be operated with dust extractors or equipped with water injection system.	Drilling machine equipped with water injection system is being utilized.
xxii	Consent to operate should be obtained from State Pollution Control Board prior to start of enhanced production from the mine.	Consent to operate has been obtained from the State Pollution Control Board, Orissa.
xxiii	Sewage treatment plant should be installed for the colony. ETP should also be provided for workshop and waste water generated during mining operation.	Not-applicable, as there is no workshop or colony for the mine operation.
xxiv	The project proponent shall take all precautionary measures during mining operation for conservation and protection of endangered fauna namely elephant, sloth bear, etc. spotted in the study area. Action plan for conservation of flora and fauna shall be prepared and implemented in consultation with the State Forest and Wildlife Department. The proponent shall contribute	The site specific Wildlife Management Plan got prepared and submitted for approval before the OFFICE OF THE PRINCIPAL CCF (WILDLIFE) & CHIEF WILDLIFE WARDEN, ORISSA.

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	towards the cost of implementation of the plan and /or Regional Wild life Management Plan for Conservation of schedule-I fauna reported in the study area prepared by the State Government. The amount so contributed shall be included in the project cost. A copy of action plan may be submitted to the Ministry and its Regional Office, Bhubaneswar within 3 months.	The necessary cost as per approval will be submitted.
xxv	A Final Mine Closure Plan along with details of Corpus Fund should be submitted to the Ministry of Environment & Forests 5 years in advance of final mine closure for approval.	Will be followed.

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S. No	GENERAL CONDITIONS	PRESENT STATUS
01	No change in mining technology and scope of working should be made without prior approval of the Ministry of Environment & Forest.	We abide by the said instruction.
02	No change in the calendar plan including excavation, quantum of mineral iron ore and waste should be made.	We abide by the said instruction.
03	Four Ambient Air Quality – Monitoring stations should be established in the core zone as well as in the buffer zone for RPM, SPM, SO ₂ & NO _x monitoring. Location of the stations should be decided based on the metrological data, topographical features and environmentally and ecologically Sensitive targets and frequency of monitoring should be undertaken in consultation with the State Pollution Control Board.	Total six no. of AAQ monitoring stations got established covering the core as well as buffer zone and monitoring is being carried frequently for the parameters in consultation with RO-SPCB, Orissa. The map indicating the same is enclosed as annexure -5
04	Data on ambient air quality (RPM, SPM SO ₂ & NO _x) should be regularly submitted to the Ministry including its Regional office located at Bhubaneswar and the State Pollution Control Board / Central pollution Control Board once in six months.	Data is being submitted. Copy of the same is enclosed as annexure -6 .
05	Fugitive dust emissions from all the sources should be controlled regularly. Water spraying arrangement on haul roads, loading and unloading and transfer points should be provided and properly maintained.	No. of water tankers as well as fixed type water sprinkling arrangements are working for water spraying in all areas as mentioned and it is being maintained properly.
06	Measures should be taken for control of noise levels below 85 dB (A) in the work environment. Workers engaged in operations of HEMM, etc. should be provided with ear plugs / muffs.	Workers engaged in Operations are provided with earplugs / muffs. Besides having acoustic enclosures for all machine operating cabins are provided. It is being monitored by Noise Level Meter; the results are well within norms. Copy of the same is enclosed as Annexure-7 .

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07	Industrial waste water (workshop and waste water from the mine) should be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19 th May, 1993 and 31 th December, 1993 or as amended from time to time. Oil and grease trap should be installed before discharge of workshop effluents.	As such we do not have any township or colony, further no wastewater generates during mining operation, as it is open-cast mining only.
08	<p>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.</p> <p>Occupational health surveillance program of the workers should be undertaken periodically to observe any contractions due to exposure to dust and take corrective measures, if needed.</p>	<p>Workers are provided with protective respiratory devices & time to time training on safety & health aspects is being provided.</p> <p>Occupational Health Surveillance Program of the workers is being undertaken periodically (annually once) along with the PRE-MEDICAL EXAMINATION OF PERSONS EMPLOYED, WHO ARE ENGAGED IN THE PROCESS OF MINING & ARE LIKELY EXPOSED TO DUST to observe any contractions due to exposure to dust and take corrective measures, if needed.</p>
09	A separate environmental management cell with suitable qualified personnel should be setup under the control of a senior executive, who will report directly to the head of the organization.	A separate environmental cell got established under the control of Project head.
10	The funds earmarked for environmental protection measures should be kept in separate account and should not diverted or other purpose. Year wise expenditure should be reported to the Ministry and Regional Office located at Bhubaneswar.	The fund earmarked for environmental protection will be utilized for the said purpose only. The year wise expenditure is enclosed as annexure-8 .
11	The project authorities should inform to the Regional Office located at Bhubaneswar regarding date of financial closures and final approval of the project by the concerned authorized and the date of start of land development work.	It is the expansion of existing mining operations under valid approval from the concerned authorities.

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12	The Regional Office of the Ministry located at Bhubaneswar shall monitor compliance of the stipulated conditions. The project authorities should extend full corporation to the officer (S) of the regional office by furnishing the requisite data / information/ monitoring reports.	We will extend all our cooperation during any such inspections by the Authority.
13	The project proponent shall submit six monthly report on the status of the implementation of the stipulated environmental safeguards to the ministry of Environment and Forests, its Regional Office, Bhubaneswar, Central pollution Control Board and State pollution Control Board.	It is being followed.
14	A copy of clearance latter shall be marked to concerned Panchayat/ Local NGO, if any, from whom suggestions / representations, has been received while processing the proposal.	Complied.
15	State Pollution Control Board should display a copy of the clearance letter at the Regional office, District Industry Centre and Collector’s office/ Tehsildar’s Office for 30 days.	Complied from SPCB, Bhubaneswar.
17	The project authorities should advertise at least in two local newspapers widely circulated, one of which shall be in the vernacular language of the locality concerned, within 7 days of the issue of the clearance letter informing that the project has been accorded environmental clearance and a copy of the clearance letter is available with the State Pollution Control Board and also at web site of the Ministry of Environment and Forests at http:// envfor.nic.in and a copy of the same should be forwarded to the Regional Office of this Ministry located at Bhubaneswar.	Complied.