

HALF YEARLY COMPLIANCE REPORT OF ENVIRONMENTAL CLEARANCE CONDITIONS

01. Name of the Project: Enhancement of Production of Iron Ore from 3.6 million TPA to 7.5 million TPA and installation of Iron ore Beneficiation Plant with a capacity of 0.7 million TPA throughput of M/s. ESSEL MINING & INDUSTRIES LIMITED, at Kasia Iron & Dolomite Mines, Keonjhar District of Odisha State.

02. MoEF Clearance Letter No. & Date: J-11015/960/2007-IA.II (M) on 29.11.2010.

03. Period of Compliance Report: From 01.10.2013 to 31.03.2014.

SL NO.	SPECIFIC CONDITION	COMPLIANCE
i	The project proponent shall obtain Consent to Establish and Consent to Operate from the State Pollution Control Board, Orissa and effectively implement all the conditions stipulated therein.	Consent to establish for production of 7.5 MTPA has been obtained from the State Pollution Control Board, Odisha on 24.12.2010 and Consent to operate for production of 7.5 MTPA has also been obtained from the State Pollution Control Board, Orissa on 15.03.2012 for a period valid up to 31.03.2016. The conditions stipulated therein are being complied with.
ii	The environmental clearance is subject to approval of the State Land use Department, Government of Orissa for diversion of agricultural land for non-agricultural use.	We have been paying surface rent to State Government for entire leasehold area of 194.196 Ha. All our activities are confined within the granted surface right area.
iii	Environmental clearance is subject to grant of forestry clearance. Necessary forestry clearance under the Forest (Conservation) Act, 1980 for an area of 173.039ha forestland involved in the project shall be obtained before starting mining operation in that area. No mining shall be undertaken in the forest area without obtaining requisite prior forestry clearance.	The mine has obtained the stage-II Forest Clearance vides MoEF's letter F. No.8-95/1996-FC (pt) dated 18.11.2011 over an area of 173.039 ha of forest land. <i>Presently the production and dispatch was suspended by Dy. Director of Mines, Joda in line with the circular for grant of 2nd and subsequent renewal to captive mines only by the state govt., Odisha.</i>
iv	Environmental clearance is subject to final order of the Hon'ble 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 final order of the Hon'ble Supreme Court of India shall be honestly abided by.

v	Environmental clearance is subject to obtaining clearance under the Wildlife (Protection) Act, 1972 from the competent authority, as may be applicable to this project.	<p>A site specific wild life conservation plan has been prepared and approval is obtained vide Memo. No. 4053/1WL(C) SSP-166/2011 dated 13.06.2011 from PCCF cum Chief Wild life warden, Odisha.</p> <p>A copy of approved wildlife conservation plan has already been submitted to the Regional Office of the Ministry of Environment and Forests, Bhubaneswar.</p>
vi	The mining operations shall be restricted to above ground water table and it should not intersect the groundwater table. In case of working below the ground water table, prior approval of the Ministry of Environment and Forests and the Central Ground Water Authority shall be obtained, for which a detailed hydro-geological study shall be carried out.	Present depth of mining operations is at 455m RL and the level of ground water table is at 432m RL in lease area. Thus there is no intersection of ground water table by mining activity. Necessary permission will be obtained from CGWA and MoEF in case of working below the Ground water table.
vii	The project proponent shall ensure that no natural watercourse and/or water resources shall be obstructed due to any mining operations. Adequate measures shall be taken for conservation and protection of the seasonal nallah passing through the mine lease and also the first order and the second order streams, if any emanating/passing through the mine lease area during the course of mining operation.	No natural watercourse is emanating/passing through the lease hold area. As such the question of obstruction of water resources due to any mining operation does not arise.
viii	The top soil, if any shall temporarily be stored at earmarked site(s) only and it should not be kept unutilized for long. The topsoil shall be used for land reclamation and plantation.	At present mining operation suspended temporarily. However, in future after resumption of mining operation, while working in virgin area if top soil will be encountered, it will be stacked separately and used for greenbelt development, reclamation and rehabilitation of mined out area etc.

ix	<p>The over burden generated during the mining operation shall be stacked at earmarked dump site(s) only and it should not be kept active for a long period of time and its phase-wise stabilization shall be carried out. Backfilling shall commence from the year 2020-2021 onwards. Proper terracing of the OB dumps shall be carried out so that the overall slope of the dumps shall be maintained to 27°. The over burden dump shall 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. Out of the total excavated area of 101.888ha, an area of 57.705ha shall be backfilled and reclaimed by plantation Monitoring and management of rehabilitated areas shall continue until the vegetation becomes self-sustaining. Compliance status shall be submitted to the Ministry of Environment & Forests and its Regional Office located at Bhubaneswar on six monthly basis.</p>	<p>OB is dumped as per approved mining plan and within the earmarked area. Inactive portions of the OB dump are gradually stabilized and rehabilitated by plantation. The slope of the dump is terraced and the overall slope angle is maintained less than 28 degree. Retaining walls of total running meterage of 3095 m (approx.) have been constructed around the dumps to arrest the wash off effectively. As regard to reclamation excavated land, this will be done as per progressive mine closure plan and shall be achieved at the end of mine life. Inactive dumps have been stabilized /rehabilitated through afforestation programme. The rehabilitated dumps are being monitored for five years to ensure self sustenance of the vegetation.</p> <p>Compliance status is being submitted regularly to the Ministry of Environment & Forest and its regional office located at Bhubaneswar once in every six months.</p>
x	<p>Catch drains and siltation ponds of appropriate size shall be constructed around the mine working, OB and mineral dump(s) to prevent run off of water and flow of sediments directly into the agricultural fields, the seasonal nallah, the Karo River and other water bodies. The water so collected should be utilized for watering the mine area, roads, green belt development etc. The drains shall be regularly desilted particularly after the monsoon and maintained properly.</p> <p>Garland drains, settling tanks and check dams of appropriate size, gradient and length shall be constructed around the mine pit and OB and mineral dump(s) to prevent run off of water and flow of sediments directly into the agricultural fields, the seasonal nallah, the Karo River and other water bodies 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 shall be constructed at the corners of the garland drains and desilted at regular intervals.</p>	<p>Till now catch drains of running meterage 2450 meter (approx.) & siltation ponds are constructed around the OB and mineral dumps to prevent run off of water and flow of sediments directly into the agricultural fields, the seasonal nallah, the Karo River and other water bodies. The water so collected is utilized for watering the mine area, roads, green belt development etc. The drains are regularly desilted particularly after the monsoon and maintained properly.</p> <p>The overall slope angles of OB dumps are maintained within the natural angle of repose of the waste. The retaining wall and garland drain with sedimentation pit at corners near toe at low lying area and uplift portion of OB dump has been constructed. Their dimensions are matching the requirements to prevent run off of water and flow of sediments to nearby water bodies.</p>

xi	Dimension of the retaining wall at the toe of the over burden dumps and the OB benches within the mine to check run-off and siltation shall be based on the rain fall data.	Retaining wall (1.5m height) has been constructed at the toe of the OB dumps to check run-off and siltation of low lying lands.
xii	The void left unfilled in an area of 44.183 ha shall be converted into water body. The higher benches of excavated void/mining pit shall be terraced and plantation done to stabilize the slopes. The slope of higher benches shall be made gentler for easy accessibility by local people to use the water body. Peripheral fencing shall be carried out along the excavated area.	Following the conceptual mining plan 44.183 ha worked out pit area shall be converted into water reservoir for pisciculture at the end of life of the mine, when the measures like terracing and plantation along the slopes shall be done to stabilize the higher benches of the excavated voids. The slope shall also be made gentler and the area shall be subjected to peripheral fencing.
xiii	The water recovery and spill way system shall be so designed that the natural water resources are not affected and that no spill water goes into the nearby Karo River and other water bodies.	When Beneficiation plant & tailing pond will be operational necessary arrangement will be made based on the design proposed in detailed project report with respect to Beneficiation plant & tailing pond to ensure that water resources are not affected and no spill water goes into the nearby Karo River and other water bodies .
xiv	The project proponent shall carry out conditioning of the ore with water to mitigate fugitive dust emission, without affecting flow of ore in the ore processing and handling areas.	High pressurized dry fog system installed at every transfer points of screening & crushing unit and all conveyor belts are covered with GI sheet towards conditioning of the ore with water to mitigate fugitive dust emission there by the flow of the ore in the ore processing and handling areas are not affected.
xv	The effluent from the ore beneficiation plant shall be treated to conform to the prescribed standards and the tailings slurry shall be transported through a closed pipeline to the tailing dam.	The Beneficiation Plant is yet to be commissioned. On commissioning of the plant the stipulation to conform the prescribed standards of effluent shall be maintained and the tailing slurry shall be transported through a closed pipe line to the tailing dam.
xvi	The project proponent shall take necessary safeguard measures to ensure that there is no leaching from the tailing pond.	The stipulation shall be implemented after commissioning of the Beneficiation plant.
xvii	The decanted water from the tailing ponds shall be re-circulated and there should be zero discharge from the tailing ponds. Acid mine water, if any, shall be neutralized and reused within the plant.	The stipulation shall be implemented after commissioning of the Beneficiation plant.
xviii	Plantation shall be raised in an area of 140.003 ha including a 7.5m wide green belt in the safety zone around the mining lease by planting the native species around reclaimed area, OB dumps, mine	As envisaged the plantation shall be raised over an area of 140.003 ha including a 7.5m wide green belt in safety zone around the mining area following progressive green belt development programme and shall be

	benches, around water body, around beneficiation plant and tailing ponds, along the roads etc. in consultation with the local DFO/Agriculture Department. The density of the trees should be around 2500 plants per hectare. Greenbelt shall be developed all along the mine lease area in a phased manner and shall be completed within first five years.	completed at the end of life of mine. As of now we have completed plantation within safety zone area of 7.5 m along the ML boundary.
xix	Effective safeguard measures such as regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of particulate matter such as around crushing and screening plant, loading and unloading point and transfer points. Extensive water sprinkling shall be carried out on haul roads. It should be ensured that the Ambient Air Quality parameters conform to the norms prescribed by the Central Pollution Control Board in this regard.	Water sprinkling through mobile water tanker at loading & unloading points and fixed water sprinklers along haulage roads are provided along with dry fog system at Screening & Crushing plants. Monitoring of fugitive dust is carried out in all critical areas like crushing & screening Plant, loading & unloading point in mining areas. Further for control of fugitive dust emission mobile water tankers of 28 KL capacity (two nos.) & 12 KL (two nos.) are also deployed for dust suppression at various loading & unloading points as well as along transportation roads. The Ambient Air Quality parameters conform to the norms prescribed by the Central Pollution Control Board in this regard.
xx	The project authority should implement suitable conservation measures to augment ground water resources in the area in consultation with the Regional Director, Central Ground Water Board.	A scheme on Rain Water Harvesting & Artificial Ground Water Recharge has been prepared in consultation with Regional Director, CGWB, Bhubaneswar & duly forwarded to CGWA, New Delhi and same is under the process of implementation now. To add more, we have already carried out an Integrated Watershed Development Programme in & around Kasia Mines under CSR scheme in consultation with RWSS, Govt. of Odisha & District Administration, Keonjhar. The same will be implemented to augment the water resources of the area.
xxi	Regular monitoring of ground water level and quality shall be carried out in and around the project area (mine lease, beneficiation plant and tailing ponds) by establishing a network of existing wells and installing new piezometers during the operation. The periodic monitoring [(at least four times in a year- pre-monsoon (April-May), monsoon (August), post-monsoon (November) and winter (January); once in each season)] shall be carried out in consultation with the State Ground Water Board/Central Ground Water Authority and the data thus collected may be sent regularly to the Ministry of Environment and Forests and its Regional Office Bhubaneswar, the Central Ground Water Authority and the Regional Director, Central Ground Water Board. If at any stage, it is observed that the groundwater table is getting depleted due to the mining activity; necessary corrective measures shall be carried out.	Regular monitoring of ground water level and quality is being carried out at the upstream, downstream and within the lease hold area. We have already established three numbers of piezometers within core and buffer zone for regular monitoring of ground water level and quality. We are also monitoring the depth of water available in the dug well located outside the lease hold area in buffer zone. The report is being sent to MOEF, Central Ground Water Authority and Regional Director Central Ground Water Board regularly. The ground water level and quality monitoring results are enclosed as Annexure 1. As observed from the monitoring data there is no sign of depletion of ground water table due to mining activity.

xxii	Appropriate mitigative measures should be taken to prevent pollution of the Karo River in consultation with the State Pollution Control Board.	Karo river is situated at a distance of 06 kilometers from the Mine lease area with intervening forest patch in between. Further, we have undertaken protective measures such as check dam, garland drain, settling pits, toe walls etc to avoid any pollution of Karo river. We have also undertaken renovation & desiltation of the village ponds, seasonal nallah etc situated within 05 Kms radius of the lease boundary as a supplementary mitigative measures.
xxiii	The project proponent shall obtain necessary prior permission/NOC of the competent authorities for drawl of requisite quantity of water required for the project.	Ground water abstraction is carried out only after obtaining NOC from CGWA. NOC for ground water drawal obtained vide letter No.21-4(18)/SER/CGWA/2007-1454 dated 06.12.2007. Renewal application has been filed in order to obtain the NOC.
xxiv	The groundwater and surface water in and around the mine including tailing ponds shall be regularly monitored at strategic locations for heavy metals. The monitoring stations shall be established in consultation with the Regional Director, Central Ground Water Board and the State Pollution Control Board.	<p>The monitoring stations for ground water and surface water in and around the mines have been established in consultation with Regional office of State Pollution control Board. Trace metals such as Fe, Cr+6, Cu, Se, As, Cd, Hg, Pb, Zn and Mn at specific locations for both surface water (downstream & upstream) and ground water is being periodically monitored by referring to the standards as per BIS : 10500. The analysis results are well within the permissible standards while other parameters are below detection level.</p> <p>The ground water level and quality monitoring results are enclosed as Annexure 1.</p>
xxv	The project proponent shall practice suitable rainwater harvesting measures on long term basis and work out a detailed scheme for rainwater harvesting in consultation with the Central Groundwater Authority and submit a copy of the same to the Ministry of Environment and Forests and its Regional Office, Bhubaneswar.	<p>A scheme on Rain Water Harvesting & Artificial Ground Water Recharge has been prepared in consultation with Regional Director, CGWB, Bhubaneswar & duly forwarded to CGWA, New Delhi and same is under the process of implementation now. To add more, we have already carried out an Integrated Watershed Development Programme in & around Kasia Mines under CSR scheme in consultation with RWSS, Govt. of Odisha & District Administration, Keonjhar. The same will be implemented to augment the water resources of the area.</p> <p>The copy of such report has been forwarded to MOEF and its Regional office, Bhubaneswar.</p>
xxvi	Vehicular emissions shall be kept under control and regularly monitored. Measures shall be taken for maintenance of vehicles used in mining operations and in transportation of mineral. The mineral transportation shall be carried out through the covered	The transportation of minerals is carried out through trucks covered with tarpaulin under permissible load. Vehicular emissions are kept under control and are regularly monitored. The monitoring results are enclosed as Annexure 1 .

	trucks only and the vehicles carrying the mineral shall not be overloaded. No transportation of ore outside the mine lease area shall be carried out after the sunset.	
xxvii	No blasting shall be carried out after the sunset. Blasting operation shall be carried out only during the daytime. Controlled blasting shall be practiced. The mitigative measures for control of ground vibrations and to arrest fly rocks and boulders should be implemented.	Blasting is being carried out during day time i.e. 1:30 PM to 2:30 PM. Controlled blasting technique using delay detonator adopted to control ground vibration and arrest of fly rock etc.
xxviii	Drills shall either be operated with the dust extractors or equipped with water injection system.	The drills used in mines are equipped with DCT system i.e., there is provision of dust extraction as well as dust suppression system with injection of water. To make it further effective, mock gels are also used in the fractured strata as & when required.
xxix	Mineral handling area shall be provided with adequate number of high efficiency dust extraction system. Loading and unloading areas including all the transfer points should also have efficient dust control arrangements. These should be properly maintained and operated.	The Mineral handling areas and transfer points are provided with dry fog system for effective dust suppression. Extensive water sprinkling by static sprinklers and mobile water sprinklers is also being carried out in loading and unloading areas and at transfer points.
xxx	Sewage treatment plant shall be installed for the colony. ETP shall also be provided for the workshop and wastewater generated during the mining operation.	The Sewage treatment plant is working within colony. As regards ETP there is hardly any waste water generation in the workshop since only minor repair & maintenance is being done at the workshop. Further, there is no waste water generation during the mining operation.
xxxii	Effective safeguard measures should be taken to control fugitive emissions so as to ensure that RSPM (PM10) levels are within prescribed limits.	Extensive water sprinkling along haul roads, loading and unloading points and at transfer points is being carried out to ensure that RSPM (PM10) levels are maintained within prescribed limits.
xxxiii	Pre-placement medical examination and periodical medical examination of the workers engaged in the project shall be carried out and records maintained. For the purpose, schedule of health examination of the workers should be drawn and followed accordingly.	Pre-placement medical examination and periodical medical examination of the workers engaged in the mines is being carried out regularly and records are also maintained.
xxxiiii	The project proponent shall take all precautionary measures during mining operation for conservation and protection of endangered fauna namely elephant, Indian wolf, leopard, pangolin, python etc. in the study area fauna found in the study area. Action plan for conservation of flora and fauna prepared shall be implemented in consultation with the State Forest and Wildlife Department. All the	A site specific wild life conservation plan has been prepared for the conservation of flora and fauna in consultation with the State Forest and Wildlife Department. Approval is obtained vide Memo. No. 4053/1WL(C) SSP-166/2011 dated 13.06.2011. The copy of the Wild life Conservation plan duly approved by PCCF (WL) is sent to the Regional Office of MoEF, Bhubaneswar.

	safeguard measures brought out in the Wildlife Conservation Plan prepared specific to this project site shall be effectively implemented. Necessary allocation of funds for implementation of the conservation plan shall be made and the funds so allocated shall be included in the project cost. A copy of action plan shall be submitted to the Regional Office of the Ministry of Environment and Forests, Bhubaneswar.	
xxxiv	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	Housing in the form of temporary structures for the construction labor within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc has been provided.
xxxv	The critical parameters such as RSPM (Particulate matter with size less than 10 micron i.e., PM10) and NOX in the ambient air within the impact zone, peak particle velocity at 300m distance or within the nearest habitation, whichever is closer shall be monitored periodically . Further, quality of discharged water shall also be monitored [(TDS, DO, PH and Total Suspended Solids (TSS)]. The monitored data shall be uploaded on the website of the company as well as displayed on a display board at the project site at a suitable location near the main gate of the Company in public domain. The Circular No. J-20012/1/2006-IA.II(M) dated 27.05.2009 issued by Ministry of Environment and Forests, which is available on the website of the Ministry www.envfor.nic.in shall also be referred in this regard for its compliance.	Ambient air quality monitoring covering PM10, PM2.5, SO ₂ , NO _x , CO is being carried out in core & buffer zone. The report is being submitted to the Ministry's Regional Office at Bhubaneswar and to the State Pollution Control Board/Central Pollution Control Board half yearly. As per the DGMS guidelines peak particle velocity during blasting is also carried out. The monitored data is being uploaded in the company website (www.esselmining.com) as well as being displayed electronically on the main gate of the company in public domain. The environmental monitoring report during this compliance period is enclosed in Annexure-I .
xxvi	A Final Mine Closure Plan along with details of Corpus Fund shall be submitted to the Ministry of Environment & Forests 5 years in advance of final mine closure for approval.	A Final Mine Closure Plan along with details of Corpus Fund will be submitted to the Ministry of Environment & Forests 5 years in advance of final mine closure for approval.

SL NO.	GENERAL CONDITION	COMPLIANCE									
i	No change in mining technology and scope of working should be made without prior approval of the Ministry of Environment & Forests.	Necessary permission will be taken from MoEF if any changes to be made in mining technology or scope of working.									
ii	No change in the calendar plan including excavation, quantum of mineral iron ore and waste should be made.	Calendar plan is being strictly adhered to. The excavation details for the year 2013-14 are as given in the following table. The figures are in Metric Tonnes									
		<table border="1" data-bbox="1094 440 2020 488"> <thead> <tr> <th data-bbox="1094 440 1360 488">Category</th> <th data-bbox="1360 440 1740 488">Excavation Plan</th> <th data-bbox="1740 440 2020 488">Achieved</th> </tr> </thead> <tbody> <tr> <td data-bbox="1094 488 1360 532">ROM</td> <td data-bbox="1360 488 1740 532">7500236</td> <td data-bbox="1740 488 2020 532">Nil</td> </tr> <tr> <td data-bbox="1094 532 1360 586">Overburden</td> <td data-bbox="1360 532 1740 586">5000</td> <td data-bbox="1740 532 2020 586">Nil</td> </tr> </tbody> </table>	Category	Excavation Plan	Achieved	ROM	7500236	Nil	Overburden	5000	Nil
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iii	At least four ambient air quality-monitoring stations should be established in the core zone as well as in the buffer zone for RSPM (Particulate matter with size less than 10micron i.e., PM10) and NOX monitoring. Location of the stations should be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets and frequency of monitoring should be undertaken in consultation with the State Pollution Control Board.	For the monitoring of Ambient air quality 7 stations in the core zone and 4 stations in the buffer zone has been installed based on the meteorological data, topographical features and environmentally and ecologically sensitive targets in consultation with SPCB, Odisha. To this effect all the monitoring stations are duly authenticated in consultation with Regional Officer, OSPCB.									
iv	Data on ambient air quality [(RSPM(Particulate matter with size less than 10micron i.e., PM10) and NOX] 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.	Ambient air quality [(RSPM(Particulate matter with size less than 10 micron i.e., PM ₁₀) and NO _x] is being regularly monitored and 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. It is observed that the Maximum concentration of Respirable Particulate Matter (PM ₁₀) is in the range of 42 µg/m ³ - 79 µg/m ³ and Fine particulate Matter (PM _{2.5}) is in the range of 15 µg/m ³ - 38 µg/m ³ . The PM ₁₀ and PM _{2.5} concentrations were found to be well within the limits of the National Ambient Air Quality Standard (NAAQS). The Maximum concentration of Sulphur Dioxide (SO ₂), Nitrous Oxide (NO _x) and Carbon Monoxide (CO) are well within the limits of NAAQS. The details of Ambient Air Quality are enclosed as Annexure-1 .									
v	Fugitive dust emissions from all the sources should be controlled regularly. Water spraying arrangement on haul roads, loading and unloading and at transfer points should be provided and properly	Fugitive dust has been controlled by sprinkling water on haul roads. Dry fog system with high jet water sprinkler is installed at all transfer point, loading/unloading points to control fugitive dust emission.									

	maintained.	
vi	Measures should be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in operations of HEMM, etc. should be provided with ear plugs / muffs.	In order to control the noise levels shock absorbent linings are provided in vibrating parts, the machineries & equipments are properly maintained & up kept. Controlled blasting techniques using delay
vii	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 19th May, 1993 and 31st December, 1993 or as amended from time to time. Oil and grease trap should be installed before discharge of workshop effluents.	There is no workshop within the mine premise nor there any waste water generation from mines due to mining activities at Kasia Mines. We have the programme to construct a workshop within the mines when we will construct the oil & grease traps before discharge of workshop effluents as suggested.
viii	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. 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.	Dust masks are provided to employees (departmental & contractual) engaged in dusty operations. It is also ensured that they use the same. Employees are undergoing Periodical Medical Examination which is inclusive of lungs function test and audiometry. All the personnel are trained on safety in work place and continuous awareness programmes are being conducted for all employees. Periodical Medical Examination of employees (departmental & contractual) are conducted as per prescribed norms of Mines Rule, 1955. The initial and periodical examination includes blood haematology, blood pressure, detailed cardiovascular assessment, neurological examination etc. All chest radiographs are being classified for detection of pneumoconiosis, diagnosis and documentation made in accordance to ILO classifications.
ix	A separate environmental management cell with suitable qualified personnel should be set-up under the control of a Senior Executive, who will report directly to the Head of the Organization.	A separate Environmental Management cell is under operation consisting Sr. GM(Planning, Quality & Environment), Sr. GM(CSR & Admin & Security) and Chief Medical Officer who reports directly to Sr. Vice President(Operation), Head of the Cell.
x	The funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year wise expenditure should be reported to the Ministry and its Regional Office located at Bhubaneswar.	Account of expenditure for Environmental protection is maintained separately and is spent only for environment related purposes. Year wise expenditure is being submitted to MoEF's Regional Office, Bhubaneswar. During the year 2013-14 an amount Rs. 64.42 lakhs was spent towards environmental protection measures in respect of Kasia Iron & Dolomite Mines.

xi	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 authorities and the date of start of land development work.	This is an ongoing mining project & is operational since 1955. Accordingly the clause is not applicable to us.
xii	The project proponent shall submit six monthly reports on the status of compliance of the stipulated environmental clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the Ministry of Environment and Forests, its Regional Office, Bhubaneswar, the respective Zonal Office of Central Pollution Control Board and the State Pollution Control Board. The proponent shall upload the status of compliance of the environmental clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of the Ministry of Environment and Forests, Bhubaneswar, the respective Zonal Officer of Central Pollution Control Board and the State Pollution Control Board.	Both in hard copies and by e-mail, half yearly environmental compliance status report including environmental monitoring report is being submitted to the Ministry of Environment and Forests, its Regional Office, Bhubaneswar, the Zonal Office of Central Pollution Control Board, Kolkata and the State Pollution Control Board. Periodically, we have also uploaded the status of compliance of the environmental clearance conditions, including results of monitored data on our company website.
Xiii	The Regional Office of this Ministry located at Bhubaneswar 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.	We are extending full co-operation during inspection by MoEF officers of Regional Office, Bhubaneswar by furnishing the requisite data/ information/ monitoring reports etc.
Xiv	A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parisad/ Municipal Corporation, Urban Local Body and the Local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the Company by the proponent.	Copy of environment clearance letter has been submitted to the Sarpanch, Bhadrasahi Gram panchayat and local NGOs for information. The Clearance letter has also been put on the website of the company.
Xv	The State Pollution Control Board should display a copy of the clearance letter at the Regional office, District Industry Centre and the Collector's office/ Tehsildar's Office for 30 days	Environment clearance letter has been displayed by State Pollution Control Board for 30 days at the Regional Office, District Industry Centre and Collector's Office/ Tehsildar's Office.
xvi	The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the	We have submitted the Environmental statement in Form-V for the FY 2012-13 to the Member Secretary & Regional Officer, SPCB, Odisha on dated 29.07.2013. The same is also submitted herewith to the Regional Office of the Ministry of Environment and Forests, Bhubaneswar by e-mail.

	company along with the status of compliance of environmental clearance conditions and shall also be sent to the respective Regional Office of the Ministry of Environment and Forests, Bhubaneswar by e-mail.	
xvii	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.	Information regarding obtaining EC along with the availability of clearance order under with SPCB and MOEF website have been duly published in two widely circulated Oriya daily The Samaj and Sambad on dated 04.12.2010. The copy of the same is also forwarded to the Regional Office of the MoEF, Bhubaneswar.