



STEEL AUTHORITY OF INDIA LTD
COLLIERIES DIVISION
RAMNAGORE COLLIERY

P.O. RAMNAGORE VIA BARAKAR, PASCHIM BARDHAMAN, W.B. - 713324
Tel: 0341-2523154, email id : ramnagorecollierysail@gmail.com

Ref No: - GM(R)/MoEF/148/2019-20/12

Date : 06.05.2019

To,
The Additional Principal Chief Conservator of Forests (C),
Ministry of Environment, Forest and Climate Change,
Regional Office (EZ), A/3, Chandrasekharpur,
Bhubaneswar - 751023

Sub: Six monthly status of compliance to the conditions stipulated in the Environmental Clearance granted by MoEF for Begunia Underground Coal Mine Project (EC granted by vide letter no.J-11015/59/2011-IA-II.(M), dated 16th January 2015) for the period ending 30th September'18.

Dear Sir,

The Environmental Clearance of Begunia Underground Coal Mine Project of M/s Steel Authority of India Ltd. has been granted by MOEF & CC, New Delhi vide letter no. J-11015/59/2011-IA-II.(M), dated 16th January 2015.

With reference to the above, please find enclosed the report on six monthly compliance status of conditions stipulated in the environmental clearance for the period ending **1st October'18 to 31st March'19** for your kind perusal please.

Hard copy and soft copy of the compliance report are enclosed herewith.

It is pertinent to mention that presently selection of MDO for development and operation of Begunia underground mine is under progress and no mining activity has been undertaken at Begunia Underground Coal Mine Project.

Thanking you,

Yours faithfully

(T K Roy)

General Manager

Ramnagore Colliery - SAIL

Encl: As above

Copy:

1. Director, IA, MoEF&CC, GOI, Indira Paryavaran Bhavan, Aliganj, Jor Bagh Road, New Delhi - 110 003.
2. In-charge, Eastern Zone, CPCB, Southern Conclave, Block 502, 5th&6th Floors, 1582 Rajdanga Main Road, Kolkata - 700107 (W. B.)
3. The Member-Secretary, West Bengal State Pollution Control Board, Salt lake, Kolkata.
4. Regional office MoEF & CC, BBSR

**SIX MONTHLY
COMPLIANCE REPORT
OF
ENVIRONMENTAL CLEARANCE CONDITIONS
(Grant Order no: J-11015/59/2011-IA-II.(M), dated 16th January 2015)
OF
Begunia Underground Coal Mine Project (0.33 MTPA)
In Paschim Bardhaman District of West Bengal
For the Period October 2018 to March 2019**



**स्टील अथॉरिटी ऑफ इण्डिया लिमिटेड
STEEL AUTHORITY OF INDIA LIMITED**

COLLIERIES DIVISION

RAMNAGORE COLLIERY

P.O. - RAMNAGORE VIA BARAKAR, DIST. – PASCHIM BARDHAMAN (W.B.) – 713324

Status of compliance to the conditions stipulated in the Environmental Clearance granted by MoEF for Begunia Underground Coal Mine Project (0.33MTPA) for the period ending September 2018 (EC granted by vide no. J-11015/59/2011-IA-II.(M), dated 16th January 2015)

(A) Specific Conditions :

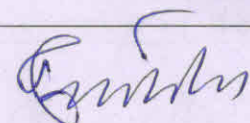
Cond. No.	Conditions/Description	Status as on 31 st March 2019
i.	The maximum production from the mine at any given time shall not exceed the limit as prescribed in the EC.	Presently, production has not started from the block, so during the course of production, this will be strictly followed.
ii.	No mining operation shall be undertaken in the forest land until clearance has been obtained.	In this block, there is no forest land.
iii.	The validity of the EC is for the life of the mine or as specified in the EIA Notification 2006, whichever is earlier.	Agreed.
iv.	Environmental clearance to the proposal is subject to obtaining clearance under the wild life (Protection) Act, 1972 from the Standing Committee of national Board for Wildlife, as applicable.	No notified National Park / Wildlife Sanctuary / Biosphere Reserve / Tiger Reserve are located within 10 kms. from the Mining Lease boundary. Hence it is not applicable to this mining project.
v.	All safety measures need to be taken as per CMR-1957 & related technical circulars.	All safety measures will be taken as per CMR-2017 & related technical circulars during execution of the project.
vi.	The approved mine plan shall be followed in synchronization with the EC conditions.	During execution of the project, the approved mine plan will be implemented strictly in synchronization with the EC conditions.
vii.	There shall be no diversion/disturbance to the aquifer and any nalla/rivers in the vicinity of the mines.	There shall be no diversion/disturbance to the aquifer and any nalla/rivers in the vicinity of the mines during mining operation.
viii.	Adequate no. of piezometers shall be installed around the mines and the ground water tables shall be monitored regularly.	Required number of piezometers shall be installed around the mines and the ground water tables shall be monitored regularly during execution of the project.
ix.	Close monitoring of subsidence and gasses emission shall be done. Safety and monitoring action as recommended by CMPDIL shall be implemented.	During operation of the project close monitoring of subsidence and gasses emission shall be done. Safety and monitoring action as recommended by CMPDIL, Ranchi shall be strictly implemented.
x.	Proponent should provide adequate air conditioning so as to prevent heat and humidity to the underground mining.	Adequate air conditioning will be provided during operation, so as to prevent heat and humidity to the underground mining.

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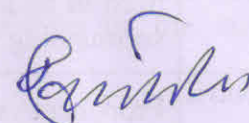
xi.	Local people be recruited/trained and be given preference for appropriate job.	Once the project starts local people shall be recruited/trained and will be given preference for appropriate job.
xii.	All electrical equipments should be flame proof.	All electrical equipments that will be commissioned in the mine will be flame proof only.
xiii.	Measures proposed to prevent possible inundation of the underground mine workings include	All necessary measures shall be included to prevent possible inundation of the underground mine workings.
xiv.	All entries to the mine shall not be less than 1.5m above the HFL; adequate pumping arrangement will be provided; self drainage of water from the panels to the main sump; all other precautions against danger of inundation due to surface and underground water, as required under the provision of CMR 1957 will be taken.	All entries to the mine shall be maintained 3m above the HFL; adequate pumping arrangement will be provided; self-drainage of water from the panels to the main sump; all other precautions against danger of inundation due to surface and underground water, as required under the provision of CMR 2017, will be taken once the project starts operating.
xv.	Coal transportation in pit from underground to surface through conveyors. Surface to siding through covered trucks and loading at siding through covered trucks to the ISP by truck by road.	Coal transportation in pit from underground to surface through conveyors. Surface to siding through covered trucks. From siding, the coal will be transported to ISP through covered trucks by road. These guidelines will be followed strictly during the operation of the project.
xvi.	The production shall be within the same mining lease area.	The production shall be carried out within the same mining lease area.
xvii.	A separate team for subsidence monitoring and surface mitigation measures be constituted and continuous monitoring and mitigation measures be carried out.	As instructed in the EC, a separate team for subsidence monitoring and surface mitigation measures shall be constituted and continuous monitoring and mitigation measures will be carried out during execution of the project.
xviii.	Regular monitoring of subsidence movement on the surface over and around the working area and impact on natural drainage pattern, water bodies, vegetation, structure, roads and surroundings shall be continued till movement ceases completely. In case of observation of any high rate of subsidence movement, appropriate effective corrective measures shall be taken to avoid loss of life and material. Cracks shall be effectively plugged with ballast and clay soil / suitable material.	During operation of the project, regular monitoring of subsidence movement on the surface over and around the working area and impact on natural drainage pattern, water bodies, vegetation, structure, roads and surroundings shall be continued till movement ceases completely. All other necessary & effective corrective measures shall be taken to avoid loss of life and material.

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xix.	If subsidence is found exceeding the permitted limits, then the land owners shall be adequately compensated with mutual agreement of the land owners.	Mining operation will be carried out in conjunction with sand stowing, and as such there is very less chance of any subsidence. However if subsidence is found exceeding the permitted limits, then the land owners shall be adequately compensated with mutual agreement of the land owners.
xx.	Mining shall be carried out as per statute at a safe distance from river/nalla following within adjacent to the lease boundary at the time of depillaring, protective bunds and garland drains shall be provided so that no water from the surface enters the subsidence area and the shaft.	During the operation, Mining shall be carried out as per statute and at a safe distance from river/nalla falling within adjacent to the lease boundary at the time of depillaring, protective bunds and garland drains shall be provided so that no water from the surface enters the subsidence area and the shaft.
xxi.	Sufficient coal pillars shall be left unextracted around the air shaft (within the subsidence influence area) to protect from any damage from subsidence, if any.	When the operation is started, sufficient coal pillars shall be left unextracted around the air shaft (within the subsidence influence area) to protect from any damage from subsidence, if any.
xxii.	Solid barriers shall be left below the roads falling within the blocks to avoid any damage to the roads.	During operation of the project, Solid barriers shall be left below the roads falling within the blocks to avoid any damage to the roads.
xxiii.	Diversion of land shall be done with approval of the approval competent authorities.	Diversion of land if any, shall be done with approval of the competent authorities and will be accordingly followed.
xxiv.	Coal extraction shall be optimized in areas where agricultural production is continuing. Some pillars shall be left below the agricultural land. No depillaring and coal extraction should be carried out below habitation, HT lines and beneath road, water bodies, railway track.	During operation of the project, Coal extraction shall be optimized in areas where agricultural production is continuing. Some pillars shall be left below the agricultural land and No depillaring and coal extraction should be carried out below habitation, HT lines and beneath road, water bodies, railway track.
xxv.	The mined out land should be used for agricultural purpose.	The project is an underground project with sand stowing, there is minimal chance of land degradation.
xxvi.	Safety measures and health issues need to be addressed for workers and surrounding villagers.	Safety measures and health issues shall be addressed for workers and surrounding villagers when the project is started.
xxvii.	Proponent shall implement all the related safety measures with safety equipments.	During operation of the project all the related safety measures with safety equipments shall be implemented.



xxviii.	The CSR cost should be Rs.5/t of coal produced which should be adjusted as per the annual inflation.	<u>During operation of the project</u> , CSR activities shall be undertaken for the adjoining villages as directed by ministry. However in 2015-16, we have spent Rs.14 Lakh in CSR jobs for drinking water and Ladies toilet and bath rooms. In 2016-17 we have spent Rs.6.80 lakhs on CSR jobs for construction of library for the poor people. In 2017-18 we have spent 3.15 Lakh for civil jobs in community hall and preparation of stage for cultural and social programme in the Ramnagore village. In 2018-19 are going to spent about Rs 10.00 Lakh in CSR.
xxix.	At the time of establishing the CHP, it is proposed to established mist spray arrangements and also enclosing the ground level bunkers upto the level of gantry.	At the time of establishing the CHP, mist spray arrangements shall be established and also the ground level bunkers upto the level of gantry shall also be enclosed.
xxx.	An afforestation plan to be prepared for implementation after stabilization of subsidence.	An afforestation plan shall be prepared for implementation after stabilization of subsidence if any, and will be implemented accordingly.
xxxi.	Water spraying arrangements at loading points and mist spray arrangements are to be provided.	Water spraying arrangements at loading points and mist spray arrangements shall be provided during operation.
xxxii.	Mine closure activities include sealing of incline mouth, dismantling of haulage system, clearing and afforestation of coal stock area, plantation on barren land and old abandoned mine.	Mine closure activities including sealing of incline mouth, dismantling of haulage system, clearing and afforestation of coal stock area, plantation on barren land and old abandoned mine shall be done as directed and in accordance with MCP
xxxiii.	3-tier plantation shall be developed 2km stretch of road from the mine using native species.	A 3-tier avenue plantation shall be developed using native species along the main approach roads and coal transportation roads. A plan for plantation of areas with surface rights shall be prepared and implemented and shall include areas under green belt development, areas along roads, infrastructure along ML boundary and township etc. by planting native species in consultation with the local DFO/Agriculture Department.



xxxiv.	Garland drains (size, gradient and length) around the safety areas such as mine opening and mine shaft and low lying areas and sump capacity shall be designed keeping 50% safety margin over and above the peak sudden rainfall and maximum discharge in the area adjoining the mine sites. Sump capacity shall also be provided adequate retention period to allow proper settling of silt material.	Proper garland drains around the safety areas such as mine opening and mine shaft and low lying areas and sump capacity shall be designed keeping 50% safety margin over and above the peak sudden rainfall and maximum discharge in the area adjoining the mine sites. Sump capacity shall also be provided adequate retention period to allow proper settling of silt material.
xxxv.	Water sprinkling system shall be provided to check fugitive emission from loading operations, conveyor system, haulage roads, transfer points, etc. Major approach roads shall be black topped and properly maintained.	During operation of the project, water sprinkling system shall be provided to check fugitive emission from loading operations, conveyor system, haulage roads, transfer points, etc. Major approach roads shall be black topped and properly maintained.
xxxvi.	A progressive afforestation plan shall be prepared and implemented over the mine lease area acquired and shall include areas under green belt development, areas along roads, infrastructure, along ML boundary and township, etc. by planting native species in consultation with the local DFO/agriculture department.	During operation of the project a progressive afforestation plan shall be prepared and implemented over the mine lease area acquired and shall include areas under green belt development, areas along roads, infrastructure, along ML boundary and township, etc. by planting native species in consultation with the local DFO/agriculture department.
xxxvii.	Regular monitoring of ground water level and quality shall be carried out by establishing a network of existing wells and construction of new peizometers. The monitoring for quantity shall be done four times a year in pre monsoon (May), Monsoon (August), post monsoon (November) and winter (January) seasons and for quality in May. Data thus collected shall be submitted to MoEF and to the Central Pollution Control Board quarterly within one month of monitoring.	During the operation of the project, regular monitoring of ground water level and quality shall be carried out by establishing a network of existing wells and construction of new peizometers. The monitoring for quantity shall be done four times a year in pre monsoon (May), Monsoon (August), post monsoon (November) and winter (January) seasons and for quality in May. Data thus collected shall be submitted to MoEF and to the Central Pollution Control Board quarterly within one month of monitoring.
xxxviii.	Acid water treatment plant, volume of water to be treated and disposal of brine should be provided.	During operation of the project, acid water treatment plant, volume of water to be treated and disposal of brine shall be provided.
xxxix.	High root density tree species shall be selected and planted over areas likely to be affected by subsidence.	During mining high root density tree species shall be selected and planted over areas likely to be affected by subsidence.
xl.	Monitoring of drinking water should	Monitoring of drinking water shall be carried out regularly during the operation of the

	be carried out regularly.	project.
xli.	Sewerage treatment plant shall be installed in the township. ETP shall also be provided for treating workshop and CHP effluents.	During the operation of the project, sewerage treatment plant shall be installed in the township. ETP shall also be provided for treating workshop and CHP effluents.
xlii.	For monitoring land use pattern and for mine land use, a times series of land used maps, based on satellite imagery (on a scale of 1:5000) of the core zone and buffer zone, from the start of the project until end of mine life shall be prepared once in three year (for any one particular season which is consistent in the time series), and the report submitted to MoEF and its regional office at Bangalore.	A times series of land used maps, based on satellite imagery (on a scale of 1:5000) of the core zone and buffer zone, from the start of the project until end of mine life shall be prepared once in three year as directed by MoEF&CC.
xliii.	If the water quantity parameter such as F, pH, heavy metals, etc. exceeds the prescribed limits, suitable measures by the proponent be taken to ensure that the local communities are provided alternate source of water for their livelihood.	Since mining will be done through underground with sand stowing, so water parameters will not be affected. However, if the water quantity parameter such as F, pH, heavy metals, etc. exceeds the prescribed limits, suitable measures will be taken by the company for alternate source of water to the local communities.
xliv.	Medical camps should be organize in the area for regular check for workers/villagers/ populations. Detail prevalent disease pattern in the area should be documented and detail of medical facilities provided for the same be made available to the MoEF.	We are regularly organizing the Medical camp in the area with qualified doctors and free medicines. We have also medical dispensary with qualified doctors and other medical staffs for regular check for the workers/villagers/populations. Detail prevalent disease pattern in the area will be documented and detail of medical facilities provided for the same be made available to the MoEF.
xlvi.	Mine discharge water outside the ML should be monitored, particularly for TDS and treated to confirm to prescribed levels before discharge in to the natural environment.	During operation, mine discharge water will be used for stowing purpose and excess water will be monitored, particularly for TDS and treated to confirm to prescribed levels before supplying to the local for cultivation.
xlv.	The company shall put up artificial ground water recharge measures for augmentation of ground water resources, in case water table shows a declining trend. The project authorities shall meet water requirement of nearby village(s) in case the wells go dry due to	During mining operation, if water table shows a declining trend, the company will provide arrangement for artificial ground water recharge measures for augmentation of ground water resources. The Company shall meet water requirement of nearby area in case the wells go dry due to dewatering of mine.

	dewatering of mine.	
xlvi.	Besides carry out regular periodic health checkup of their workers, 10% of the workers identified occupational disease and hearing impairment, if any, through an agency such as NIOH, Ahmadabad within a period of one year and the results reported to the ministry and to DGMS.	In addition to regular periodic health checkup of their workers, 10% of the workers will be identified occupational disease and hearing impairment, if any, through an outside reputed agency within a period of one year and the results reported to the ministry and to DGMS.
xlvi.	The mining in the existing mines should be phased out after expiry of the current mining lease and after reclamation of mined over area. The operating mines any be analysed and monitored for compliance of conditions bearing with moment of wild life and until such time they are closed/phased out.	Will be Complied.
xli.	Project specific CSR for an amount of Rs.5/t of coal production, as adjusted as per the annual inflation, should be provided for the CSR activities under taken and the progress made their on shall be uploaded annually on the company website. Monitoring of the impact of activities under CSR shall be carried out periodically.	During operation of the project, CSR activities shall be undertaken for the adjoining villages as directed by ministry. All the activities carried out under CSR are being uploaded by the concerned department of SAIL in website.
1.	A final mine closure plan along with detailed of corpus fund shall be submitted to the ministry of environment/forest & climatic change 5years in advance of final mine closure for approval.	The final mine closure plan along with detailed of corpus fund will be submitted to the MoEF&CC in advance of final mine closure for approval as stipulated in the EC.
li.	Corporate Environment Responsibility: a) The company shall have a well laid down environment policy approved by the board of directors. b)The environment policy shall prescribed for standard operating process/ procedures to bring into focus any infringements/deviation /violation of the environmental or forest norms/ conditions c) The hierarchical system or administrative order of the company to deal with environmental issues and for ensuring compliance with the environ-mental clearance conditions shall be furnished.	SAIL has always been an environmentally conscious and responsible company. Way back in 1996, it was a pioneer in adopting a Corporate Environmental Policy. In view of the rapid technological advancements in the past two decades and growing stringency of regulatory requirements, SAIL has revised its Environmental Policy and made "Corporate Environmental Vision, Policy and Responsibility" and copy of the same is attached in Annexure – I .

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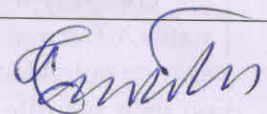
d) To have proper checks and balance, the company shall have a well laid down system of reporting of non-compliances/violations of environmental norms to the board of directors of the company and / or share holders of stock holders at large.	
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(A) **General Conditions :**

Cond. No	Conditions Imposed	Status as on 31 st March 2019
i.	No change in mining technology and scope of working shall be made without prior approval of the Ministry of Environment, Forests & Climate change.	There will be no change in technology and scope of working shall be made without prior approval of the Ministry of Environment, Forests & Climate change during execution of the project.
ii.	No change in the calendar plan of production for quantum of mineral coal shall be made.	When the project is started, no change in the calendar plan of production for quantum of mineral/ coal being produced shall be made.
iii.	Four ambient air quality-monitoring stations shall be established in the core zone as well as in the buffer zone for monitoring PM10, PM2.5, SO ₂ and NO _x . Location of the stations should be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets in consultation with the State Pollution Control Board. Monitoring of heavy metals such as Hg, As, Ni, Cd, Cr, etc. carried out at least once in six months.	Presently, since Begunia is not an operating mine, once the project gets started, ambient air quality-monitoring stations shall be established in the core zone as well as in the buffer zone for monitoring PM10, PM2.5, SO ₂ and NO _x as directed. Monitoring of heavy metals such as Hg, As, Ni, Cd, Cr, etc. shall be carried out at least once in six months.
iv.	Data on ambient air quality (PM ₁₀ , PM _{2.5} , SO ₂ and NO _x and heavy metals such as Hg, As, Ni, Cr etc.) and other monitoring data shall be regularly submitted to the Ministry including its concerned Regional Office and to the State Pollution Control Board and the Central Pollution Control Board once in six months. Random verification of samples through analysis from independent laboratories recognized under the E(P) Rules, 1986 shall be furnished as part of the compliance report.	Monitoring of ambient air quality (PM10, PM2.5, SO ₂ and NO _x and heavy metals such as Hg, As, Ni, Cr etc.) will be started during operation of the project.

Signature

v.	Adequate measures shall be taken for control of noise levels below 85 dB(A) in the work environment. Workers engaged in blasting and drilling operations, operations of HEMM, etc. shall be provided with ear plugs / muffs.	During operation of the project, adequate measures shall be taken for control of noise levels below 85 dB (A) in the work environment as directed.
vi.	Industrial waste water (workshop and waste water from the mine) shall be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19 th May 1993 and 31 st December 1993 or as amended from time to time. Oil and grease trap shall be installed before discharge of workshop effluents.	At presently no mining activity is being undertaken, so no industrial wastewater is generated from the mine and no workshop has been established till date. When the project is started, the condition shall be strictly complied with.
vii.	Vehicular emissions shall be kept under control and regularly monitored. Vehicles used for transportation of the mineral shall be covered with tarpaulins and optimally loaded.	When the project is started, vehicular emissions shall be kept under control and regularly monitored as directed.
viii.	Monitoring of environmental quality parameters shall be carried out through establishment of adequate number and type of pollution monitoring and analysis equipment in consultation with the State Pollution Control Board and data got analyzed through a laboratory recognized under EP Rules 1986.	Monitoring of environmental quality parameters will be started during operation of the project.
ix.	Personnel working in dusty areas shall wear protective respiratory devices and they shall also be provided with adequate training and information on safety and health aspects.	During working all workers shall be provided dust mask and regular training will be provided as per statute.
x.	Occupational health surveillance programme of the workers shall be undertaken periodically to observe any contractions due to exposure to dust and to take corrective measures, if needed and records maintained thereof. The quality of environment due to outsourcing and the health and safety issue of the outsourced manpower should be addressed by the company while outsourcing.	Occupational health surveillance programme of the workers shall be undertaken periodically to observe any contractions due to exposure to dust and to take corrective measures, if needed and records shall be maintained thereof. The quality of environment due to outsourcing and the health and safety issue of the outsourced manpower will be addressed by the company during outsourcing.



xi.	A separate Environmental Management Cell with suitable qualified personnel shall be set-up under the control of a Senior Executive, who will report directly to the Head of the Company.	When the project is started, separate Environmental Management Cell will be set up with suitable qualified personnel.
xii.	The funds earmarked for environmental protection measures shall be kept in separate account and should not be diverted for other purpose. Year wise expenditure shall be reported to this Ministry and its concerned Regional Office.	When the project is started, the funds earmarked for environmental protection measures shall be kept in separate account and would not be diverted for other purpose. Year wise expenditure shall be reported to this Ministry and its Regional Office.
xiii.	The project authorities shall advertise at least in two local newspapers widely circulated around the project, one of which shall be in the vernacular language of the locality concerned, within 7 days 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 may also be seen at web site of the Ministry of Environment, Forests & Climate change at http://envfor.nic.in .	Advertisement was published in two local newspapers i.e. Hindi News Paper on 31.1.2015 (Dainik Jagaran) and Bangla News Paper on 31.1.2015 (Anand Bazar Patrika). The Copies of the paper cuttings has been sent to MoEF & CC.
xiv.	A copy of the environmental clearance letter shall be marked to concerned Panchayat / Zilla Parishad, Municipal Corporation or Urban Local Body and local NGO, if any, from whom any suggestion / representation has been received while processing the proposal. A copy of the clearance letter shall also be displayed on the company's website.	Copy of the Environmental clearance letter has been made available to Kulti municipality. A copy of the clearance letter has also been displayed on the company's website.
xv.	A copy of environmental clearance letter shall also be displayed on the website of the concerned State Pollution Control Board. The EC letter shall also be displayed at the Regional Office, District Industry Centre and Collector's Office / Tehsildar's Office for 30 days.	Copy of the Environmental clearance letter has been made available to the State Pollution Control Board.
xvi.	The clearance letter shall be uploaded on the company's website. The compliance status of stipulated EC conditions shall also be uploaded by the project authorities on their website and updated at least once	The Environmental Clearance has been uploaded on the company's website. The compliance status of stipulated EC conditions shall also be uploaded on the company's website and updated at least

Signature

	in every six months so as to bring the same in the public domain. The monitoring data of environmental quality parameters (air, water, noise and soil) and critical pollutants such as PM ₁₀ , PM _{2.5} , SO ₂ and NO _x (ambient) and critical sectoral parameters shall also be displayed at the entrance of the project premises and mines office and in corporate office and on the company's website.	once in every six months after submission of the report to the concerned authorities.
xvii.	The project proponent shall submit six monthly reports on the status of compliance of the stipulated environmental clearance conditions (both in hard copy and in e-mail) to the respective Regional Office of the Ministry, the respective Zonal offices of CPCB and the SPCB.	Started sending compliance status on six monthly basis to MoEF, Bhubaneswar, CPCB, Kolkata and SPCB.
xviii.	The Regional Office of this Ministry located in the Region shall monitor compliance of the stipulated conditions. The project authorities shall extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information / monitoring reports.	Full co-operation is always extended to State and Central Govt. Officials.
xix.	The environmental statement for each financial year ending 31 st March in Form - V is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Act, 1986, as amended subsequently, shall also be uploaded on the company's website along with the status of compliance of EC conditions and shall be sent to the respective Regional Offices of the MoEF & CC by e-mail.	Shall be strictly complied during operation of the Project.

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Corporate Environmental Vision, Policy and Responsibility

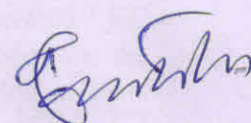
Corporate Environmental Vision statement:

To lead the way in building and environmentally sustainable future for the Indian Iron & Steel Industry by integration environmental and stakeholder concerns through resource optimization and the adoption of cleaner technologies and best practices.

Corporate Environmental Policy

Steel Authority of India Ltd., the largest steel producer of India, in its Endeavour to maintain a clean and sustainable environment in and around its plants and mines is committed to :

- i. Integrate sound environmental practices in all its activities.
- ii. Comply with legal and other requirements pertaining to the environment, forest and wild life and volunteer to go beyond.
- iii. Contribute towards mitigation of Climate change through the adoption of cleaner and energy efficient technology.
- iv. Promote development of innovative environment-friendly processes and products.
- v. Restore ecosystems in mined out landscapes and abandoned sites through ecological restoration.
- vi. Integrate the principle of “reduce, recover, recycle and reuse” in its operations for conservation of natural resources to ensure sustainable future.
- vii. Strive for continual improvement of environmental performance by setting and achieving challenging targets.
- viii. Ensure regular monitoring and review of environmental performance through a robust audit mechanism and a transparent reporting system.
- ix. Continuously monitor emission, discharge and ambient air quality and make data available in the public domain.
- x. Communicate environmental performance to all stakeholders.
- xi. Improve employee commitment and responsibility towards environment protection through capacity building.
- xii. Promote environmentally responsible behaviour amongst contractual work force and suppliers.



Strategies:

To ensure sustainable future and realise the vision, the company has planned some strategies action points, which are summaries below, taking into considerations that the old production units shall co-exist with the new units installed/being installed under the ongoing modernisation-cum-expansion scheme for the coming few years:

- Implementation of sound environmental practices in operations and progressively adopting best available cleaner technologies for minimising emission and discharges.
- Integration of four 'R's principle of Reduce, recover, recycle and reuse in operation for reducing consumption of natural resources through minimizing waste generation, maximizing waste utilization and optimizing use of available resources.
- Reduce waste consumption through improving water management practices and adopting other measures, like centralized and local recycling
- Minimising direct and indirect impact of mining on surrounding forest and wild life through periodic monitoring using advanced methods, developing and implementing site specific conservation plan and other measures.
- Biodiversity conservation through conducting by diversity assessment and management studies, periodic monitoring and stock holder engagement.
- Ecological restoration of mined out areas and abandoned sites through adoption of progressive and integrated Mine closure plan (PMCP & IMCP).
- Undertaking planned massive plantation through plantation drives at units, social forestry, creating chain of nurseries and joint forest management (JFM) with state forest departments to enhance ecosystem services.
- Minimising impact of operations on environments by developing technologies for maximising use of resources and enhancing utilisation/management of waste through well equipped R&D facility.
- Promoting use of renewable resources of energy and green fuels for reducing dependence on conventional energy sources.
- Monitoring, reviewing and reporting environmental parameters and clearance conditions for compliance and improvement.
- Strengthening of environmental administration and management reporting structure.
- Enhancing commitment towards environment protection amongst employees, suppliers and contractors through augmenting employee awareness, increasing competency, capacity building and creating knowledge platforms.
- Implementing an environment management system (EMS) having focus continual improvement, on review, on prevention or mitigation of adverse environmental impacts at all plants/units.



