



EASTERN COALFIELDS LIMITED
(A Subsidiary of Coal India Limited)
Office of the General Manager J K Ropeways

Ref: ECL/GM/JKR/(ENV)/2018/ 82

Date: 5/10/18

To,
General Manager
(Environment and Forest)
Barachak House, P.O- Sitarampur,
Dist- Paschim Bardhaman, West Bengal
Pin- 713359

**Sub: Half Yearly compliance report for Sand Mining in Damodar and Ajoy River
for the period April'18 to September'18**

Dear Sir,

Please find enclosed the half yearly compliance report for sand mining in Damodar River and Ajoy River by J K Ropeways, ECL. This is for your kind information.
Thanking You,

Yours Faithfully


General Manager (Act)
J K Ropeways
GENERAL MANAGER
महा प्रबन्धक
J.K. ROPEWAY
जे० के० रोपवेज
EASTERN COAL FIELDS LTD.

Encl: As Above

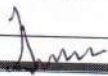
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ECL, H. Q.
DATE 08/10/18
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Sri Rajesh K
Sri R. Samanta
Go through detail of
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improvement
Date: 10.10.18
8/10/18

Half Yearly Compliance Report for Sand Mining in Ajoy River for the period April'18 to September'18

A. Specific Conditions:	Status of Compliance
i. Project Proponent has made the replenishment study and total replenished quantity of sand available each year within the leasehold of ECL for mining purpose will be 5.28 million m ³ of sand whereas the extraction is 2 million m ³ of sand. Project proponent shall decrease / stop the mining of sand, in case the replenishment is lower than the approved rate of production, till the replenishment is completed	The EC capacity of the Project is 2 million m ³ per annum. No extra extraction of sand will be done.
ii. Project proponent shall appoint an occupational health specialist for regular and periodical medical checkup once in six months and necessary medical care/preventive measures under taken accordingly. Recommendations of national institute for labour for ensuring good occupational environment for mine workers would also be adopted.	An occupational health specialist for regular and periodical medical checkup of workers is already appointed. Regular and periodical medical checkup is done.
iii. Project Proponent shall appoint a Monitoring Committee to monitor the replenishment study, traffic management, levels of production, river bank erosion and maintenance of road.	The Monitoring Committee comprising of the following members formed to look after the related matters <ol style="list-style-type: none"> 1. Area Survey Officer 2. Area Engineer Civil 3. Agent, J K Ropeways
iv. Transportation of the minerals by road passing through the village shall not be allowed. A bypass road should be constructed for the purpose of transportation of the minerals so that the impact of sound, dust and accidents could be mitigated. The project proponent shall bear the cost towards the widening and strengthening of existing public road network in case the same is proposed to be used for the project.	Transportation of minerals will be done through public road which does not go through any villages. The project proponent will bear the cost to widen and strengthen the existing road.
v. Project Proponent shall ensure that the road may not be damaged due to transportation of the minerals and transport of the mineral will be as per IRC Guidelines with respect to complying with traffic congestion and density.	The road is maintained periodically and transportation will be complied according to the IRC guidelines.
vi. Implementation of Action Plan on the issues raised during the public hearing. The proponent shall complete all the tasks as per the Action Plan submitted with the budgetary provisions during the Public Hearing.	Issues raised during the public hearing proceedings will be followed accordingly.
vii. The pollution due to transportation load on the environment will be effectively controlled & water sprinkling will also be done regularly. Vehicles with PUC only will be allowed to ply. The mineral transportation shall be carried out through covered trucks only and the vehicles carrying the mineral shall not be overloaded.	Transportation will be done only by covered trucks which have PUC and regular water sprinkling will be done to control air pollution.


Agent/Manager

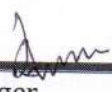
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viii. No mining shall be done within a distance of 7.5 meters from the periphery of agricultural fields if any.	Mining will not be done within 7.5 meters from any agricultural field.
ix. Permanent pillars has to be constructed to demarcate width of extraction of ROM leaving 25% of River width from the bank with depth of 1.5 m below the ground and 1.2 m above the ground to observe its stability.	Permanent pillars have already been constructed and stability of the same is observed and maintained according to the condition.
x. The project proponent shall also take all precautionary measures during mining operation for conservation and protection of endangered flora/fauna, if any, spotted in the study area.	Precautionary measures will be taken for conservation and protection of endangered flora/fauna in the spotted study area.
xi. The illumination and sound at night at project site disturb the villagers in respect of both human and animal population. Consequent sleeping disorders and stress may affect the health in the villages located close to mining operation. Habitations have a right for darkness and minimal noise levels at night. Project proponent must ensure that the biological clock of the villages is not disturbed.	The sand mining will be done during the day time. There will be no night time activity. Working hours will be between 6 am to 7 pm
xii. Transportation of the minerals by road passing through the village shall not be allowed. A 'bypass' road should be constructed for the purpose of transportation of the minerals so that the impact of sound, dust and accidents could be mitigated. The project proponent shall bear the cost towards the widening and strengthening of existing public road network in case the same is proposed to be used for the project. No road movement should be allowed on existing village road network without appropriately increasing the carrying capacity of such roads.	Transportation of minerals will be done by existing road network which does not go through any village. The project proponent will bear the cost towards the widening and strengthening of roads. The carrying capacity of such roads is appropriately increased.
xiii. As per Company Act, the CSR cost should be 2% of the average net profit of last three years. Hence CSR expenses should be as per the Company Act for the Socio Economic Development of the neighborhood habitats which could be planned and executed by the project proponent more systematically based on the 'Need based door to door survey' by established social institutes. The report shall be submitted to the Ministry of Environment, Forest and Climate Change and its Regional office located at Bhubaneswar on six monthly basis.	<p>CSR activities are being done as per the Company Act. Some of the previous activities are</p> <ol style="list-style-type: none"> 1. Construction of Burning Ghat at Madanpur Village 2. Donation of Bench, Chair etc. to Madanpur High School 3. Construction of community hall at Ramprasadpur 4. Construction of Stage in Madanpur Village
xiv. 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 etc. The housing may be in the form of temporary structure to be removed after the completion of the project.	Permanent Structures are already in place with the entire necessary infrastructure for the workers. No temporary housing for laborers is needed.

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<p>xv. A final mine Closure plan along with the details of Corpus Fund shall be submitted to the ministry of Environment, Forest and Climate change 5 years in advance of final mine closure approval.</p>	<p>No Mine Closure Plan is required because the mined area will be replenished naturally.</p>
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B. Special Conditions:	Status of Compliance
i. In case of private land not owned by the lease holder and affidavit should be obtained regarding consent of the concerned land owner(s) for carrying out the mining operation	No private land leased.
ii. Stakeholder awareness and ability to raise concerns and getting it to be addressed.	Stakeholder awareness and their concerns will be addressed properly.
iii. Implementation of Action Plan on the issues raised during the public Hearing. The proponent shall complete all the tasks as per the Action Plan submitted with the budgetary provisions during the Public Hearing.	Issues raised during the public hearing proceedings will be followed accordingly.
iv. Having valid lease and all the permits is very much needed	Agreed and noted.
v. To establish a monitoring committee including Local Panchayat to check on traffic due to transportation and submit an annual report on the same.	Will be complied.
vi. The directions given by the Hon'ble Supreme Court of India vide order dated 27.02.2012 in Deepak Kumar case [SLP(C) Nos. 19628-19629 of 2009] and order dated 05.08.2013 of Hon'ble National Green Tribunal in application no. 171/2013 may be strictly be followed.	Orders given by the Hon'ble supreme Court of India in mentioned case will be strictly followed.
vii. All the provisions made and restrictions imposed as covered in the Minor Mineral Rule, shall be complied with, particularly regarding Environment Management Practices and its fund management and Payment of compensation to the land owners.	Will be complied.
viii. District Level Survey Report should be prepared and area suitable for mining and area prohibited for mining be identified.	Survey report is already prepared by user agency and followed.
ix. The depth of mining in Riverbed shall not exceed one meter or water level whichever is less, provided that the where the Joint Inspection Committee certifies about excessive deposit or over accumulation of minerals in certain reaches requiring channelization, it can go upto 3 meters on defined reaches of the river.	Depth of the sand deposit is one meter so depth of sand mining will not exceed that. The mined out sand gets replenished in the rainy season.



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x.	No River sand mining be allowed in rainy season	There will be no sand mining in the rainy season.
xi.	To submit annual replenishment report certified by an authorized agency. In case the replenishment is lower than the approved rate of production then the mining activity / production levels shall be decreased / stopped accordingly till the replenishment is completed.	Annual replenishment is monitored by suitable committee and mining is done accordingly.
xii.	Ultimate working depth shall be maximum up to 1m from Riverbed level and river channel whichever is reached earlier.	Ultimate working depth will be maximum up to 1m from Riverbed level and river channel whichever is reached earlier.
xiii.	In river flood plain mining a buffer of 3 meter to be left from the river bank for mining.	A buffer of 3 meter will be provided.
xiv.	In mining from agricultural field a buffer of 3 meters to be left from the adjacent field.	A buffer of 3 meters from the adjacent agricultural field will be provided.
xv.	Mining shall be done in layers of 1 meter depth to avoid ponding effect and after first layer is excavated, the process will be repeated for the next layers.	Mining will be done in layers of 1 meter depth to avoid ponding effect.
xvi.	To maintain safety and stability of riverbanks 3 meter or 10% of the width of the river whichever is more will be left intact as no mining zone.	3 meter or 10% of the width of the river will be left intact as no mining zone.
xvii.	No stream should be diverted for the purpose of sand mining. No natural water course or water resources are obstructed due to mining operations.	No stream will be diverted for the purpose of sand mining. No natural water course or water resources will be obstructed due to mining.
xviii.	No blasting shall be resorted to in River mining and without permission at any other place.	No blasting is needed.
xix.	Depending upon the location, thickness of sand, deposition, agricultural land/ riverbed, the method of mining maybe manual, semi mechanized or mechanized; however manual method of mining shall be preferred over any other method.	The method of mining will be manual, semi-mechanized and mechanized. Manual method is preferred.
xx.	Mining should be done only in area identified in the District level Survey report suitable for mining and so certified by the Sub-Divisional Level Committee after site visit.	Mining will be done only in area identified in the District level Survey report suitable for mining. Some of the areas are mentioned below Dist – Burdwan , P.S. – Pandaveswar Pamnagar Village – Plot Nos –236 130,130, 1144, 1193, 1194 etc. Total Area- 220.00 Acre

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	<p>Konda Village- Plot Nos: 278, 593,149 etc – Total Area - 30.65 Acre</p> <p>Dashiopa Village Plot Nos: 175, 610, 68, 651, 652 etc. Total Area 7.79 acre</p> <p>Dist – Birbhum , P.S. – Khalrasole</p> <p>Bolta Vilage Plot Nos: 559/1131,1131/1136, area -36 acre</p> <p>Nabasan Village Plot Nos: 2253 Area- 20 acre</p>
xxi. Mining should begin only after pucca pillar marking the boundary of lease area is erected at the cost of the lease holder after certification by the mining official and its geo coordinates are made available to the District Level Committee.	Will be complied.
xxii. The top soil in case of surface land mining shall be stored temporarily in an earmarked site and concurrently used for land reclamation.	There is no case of top soil removal and subsequent storing and reclamation.
xxiii. The EC holder shall keep a correct account of quantity of mineral mined out, dispatched from the mine, mode of transport, registration number of vehicle, person in-charge of vehicle and mine plan. This should be produced before officers of Central Government and State for inspection.	All the details will be kept by the office.
xxiv. For each mining lease site the access should be controlled in a way that vehicles carrying mineral from that area are tracked and accounted for.	All the vehicles carrying mineral from mining area are tracked and accounted for.
xxv. The State/District Level Environment Committee should use technology like Bar Coding, Information and Communications Technology(ICT) enabled services, mobile SMS app etc to account for weight of mineral being taken out of the lease area and the number of trucks moving out with the mineral.	Agreed and noted.
xxvi. There should be regular monitoring of the mining activities in the State to ensure effective compliance of stipulated EC conditions and of the provisions under the Minor Mineral Concessions Rules framed by the State Government.	Regular monitoring of the mining activities will be done.


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xxvii. Noise arising out mining and processing shall be abated and controlled at source to keep within permissible limit.	Noise will be controlled at the source. Silencers are installed at the machines for noise control within permissible limit.
xxviii. Restricted working hours. Sand mining operation has to be carried out between 6 am to 7pm.	Working hours will be between 6 am to 7 pm.
xxix. The pollution due to transportation load on the environment will be effectively controlled and water sprinkling will also be done regularly.	Water sprinkling will be done regularly to control pollution impact.
xxx. Air pollution due to dust, exhaust emission or fumes during mining and processing phase should be controlled and kept in permissible limits specified under environmental laws.	Air pollution due to dust, exhaust emission or fumes during mining and processing phase will be controlled and kept in permissible limits.
xxxi. The mineral transportation shall be carried out through covered trucks only and the vehicles carrying the mineral shall not be overloaded.	Transportation will be done only by covered trucks without overloading.
xxxii. The mining operations are to be done in a systematic manner so that the operations shall create a major visual impact on the site.	Mining activities will be done in a systematic manner.
xxxiii. Restoration of flora affected by mining should be done immediately. Twice the number of trees destroyed by mining to be planted preferably of indigenous species. Each EC holder should plant and maintain for lease period at least 5 trees per hector in area near lease.	Restoration of flora affected by mining activities will be done. If flora is affected than twice the number of trees will be planted.
xxxiv. No mining Lease shall be granted in the forest area without forest clearance in accordance with the provisions of the Forest Conservation Act, 1980 and the rules thereunder.	There is no forest land within the leasehold area.
xxxv. Protection of turtle and bird habitats shall be ensured.	Protection of turtle and bird habitats will be ensured.
xxxvi. No felling of tree near quarry is allowed. For mining lease within 10 km of National Park / Sanctuary or in Eco-Sensitive Zone of the Protected Area, recommendation of standing committee of National Board of Wild Life have to be obtained as per the Hon'ble Supreme Court order I.A. No. 460 of 2004.	There will be no felling of tree near quarry.
xxxvii. Spring sources should not be affected due to mining activities.	Mining activities will be done in a controlled manner so no spring source will be affected.
xxviii. Removal, stacking and utilization of top soil in mining should be ensured. Where top soil cannot be used concurrently, it shall be stored separately for future use keeping in view that the bacterial organism should not die and should be spread nearby area.	There is no removal of top soil, entire mining operation will be done in the riverbed.

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xxxix. The EC should stipulate conditions for adequate steps to check soil erosion and control debris flow by constructing engineering structures.	Soil erosion will be checked and preventive measure will be taken accordingly.
xl. Use of oversize material to control erosion and movement of sediments.	Will be complied.
xli. No overhangs shall be allowed to be formed due to mining and mining shall not be allowed in area where subsidence of rock is likely to occur due to steep angle of slop.	No overhangs will be formed due to mining.
xlii. No extraction of stone / boulder / sand in landslide prone area.	No extraction of sand will be done in landslide prone area.
xl.iii. Controlled clearance of riparian vegetation to be undertaken.	Controlled clearance of riparian vegetation if any will be done.
xliv. Site clearance and tidiness is very much needed to have less visual impact of mining.	Site clearance and tidiness will be ensured to have less visual impact.
xlv. Dumping of waste shall be done in earmarked places as approved in Mining Plan.	There is no generation of solid waste. Only some machine scraps if generated will dumped in earmarked place and eventually disposed off properly.
xlvi. Rubbish burial shall not be done in the Rivers.	Rubbish burial will not be done in the Rivers
xlvii. The EC holder shall take all possible precautions for the protection of environment and control of pollution.	All the possible precautions for the protection of environment and to control of pollution will be taken
xl.iii. Effluent discharge should be kept to the minimum and it should meet the standards prescribed.	There is no effluent generated.
xl.iii. Mining shall not be undertaken in a mining lease located in 200-500 meter of a bridge, 200 meter upstream and downstream of water supply/ irrigation scheme, 100 meters from the edge of National Highway and railway line, 50 meters from a reservoir, canal or building, 25 meter from the edge of State Highway and 10 meters from the edge of other roads except on special exemption by the Sub-Divisional level Joint Inspection Committee.	Will be complied.
l. For carrying out mining in proximity to any bridge or embankment, appropriate safety zone (not less than 200 meters) should be worked out on case to case basis, taking into account the structural parameters, location aspects and flow rate, and no mining should be carried out in the safety zone so worked out.	Will be complied.
li. Mining activities shall not be done for mine lease where mining can cause danger to site of flood protection works, places of cultural, religious, historical and archeological importance.	Will be complied.

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lii. Vehicles used for transportation of sand are to be permitted only with fitness and PUC certificates.	Vehicles allowed for transportation will have fitness and PUC certificates.
liii. Junction at takeoff point of approach road with main road be properly developed with proper width and geometry required for safe movement of traffic by concession holder at his own cost.	Junction at takeoff point of approach road with main road is already developed. Baktarnagar area junction with NH2 is developed.
liv. Project proponent shall ensure that the road may not be damaged due to transportation of the mineral; and transport of minerals will be as per IRC Guidelines with respect to complying with traffic congestion and density.	The road will be maintained periodically and transportation will be complied according to the IRC guidelines.
lv. No stacking allowed on road side along National Highways.	No stacking will be done on road side along National Highways.
lvi. Project proponent shall undertake phased restoration, reclamation and rehabilitation of land affected by mining and completes this work before abandonment of mine.	There is no degraded land. The mining will be done inside the riverbed which will get replenished.
lvii. Restoration, reclamation and rehabilitation in cluster should be done systematically and jointly by EC holder in that cluster. This should be appropriately reflected as EC condition in each EC in cluster.	If required restoration, reclamation and rehabilitation will be done systematically.
lviii. Site Specific plan with eco restoration should be in place and implemented.	Not required because there will be no degraded land. The mining will be done in the riverbed which will get replenished periodically.
lix. Health and safety of the workers should be taken care of.	Health and safety of the workers will be taken care of
lx. Transport of minerals will not be done through village.	Transportation of minerals will be done by dedicated public road.
lxi. Project proponent shall make arrangement for drinking water, first aid facility in case of emergency for the workers.	Arrangement for drinking water and first aid is done.
lxii. Project proponent shall implement the Disaster Management Plan if the mine lease area is located in Seismic Zone- IV. Project proponent shall appoint a committee to have a check over any disaster to warn workers well before for the safety of the workers. Emergency helpline number will be displayed at all levels.	The mine lease area does not fall into the Seismic Zone- IV.
lxiii. Project proponent shall appoint an Occupational Health Specialist for regular and periodical medical examination of the workers engaged in the project and records maintained; also occupational health check-ups for workers having some ailments like BP, diabetes, habitual smokers etc. shall be undertaken once in six months and necessary remedial/preventive measures taken accordingly.	An occupational health specialist for regular and periodical medical checkup of workers is already appointed. Regular and periodical medical checkup is done.

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Recommendations of National Institute for Labour for ensuring good occupational environment for mine workers would also be adopted.	
ixiv. Project proponent shall report monitoring data on replenishment, traffic management, levels of production, River bank erosion and maintenance of road etc.	Monitoring data will be maintained periodically.
lxv. Use of alternate material such as M-sand in place of natural sand shall be encouraged in order to reduce stress on natural eco system.	Search for alternate material will be done.

C. Procedure for Monitoring for Sand Mining	Status of Compliance
i. Project proponent must ensure that the security features of Transport Permission viz. (a) Printed on Indian Bank Association (IBA) approved Magnetic Ink Character Recognition Code (MICR) paper; (c) Unique Barcode; (d) Unique Quick Response Code (QR); (e) Fugitive Ink Background; (f) Invisible Ink Mark; (g) Void Pantograph; (h) Watermark.	Manual checking of transport permits is done by company appointed person and by CCTV where electricity is available.
ii. Project proponent must ensure that the CCTV camera, Personal Computer(PC), Internet Connection, Power Back up, access control of mine lease site; and arrangement for weight or approximation of weight of mined out mineral on basis of volume of the trailer of vehicle used at mine lease site are available.	There is arrangement of CCTV camera, Personal Computer (PC), Internet Connection where electricity is available however manual checking arrangement for weight or approximation of weight of mined out mineral on basis of volume of the trailer of the vehicle used at the mine lease is available always.
iii. Project proponent must ensure the Scanning of Transport permit or Receipt and Uploading on Server.	Manual checking of Transport permit or Receipt is done by company person.
iv. The State Mines and Geology Department should print the Transport Permits/Receipt with security features enumerated at paragraph (i) above and issue them to the mine lease holder through the District Collector. Once these Transport Permits or Receipts are issued, they would be uploaded on the server against that mine lease area. Each receipt should be preferably with pre-fixed quantity, so the total quantity gets determined for the receipts issued. When the Transport Permit or Receipt gets scanned and invoice is generated, that particular barcode gets used and its validity time is recorded on the server. So all the details of transporting of mined out material can be captured on the server and the Transport Permit or Receipt cannot be reused.	Transport permit is issued by District Collector. Each this permits has a prefixed quantity so that the total quantity gets determined for the receipts issued. Company appointed person checks permit and makes sure no permit is reused.

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<p>v. The Staff deployed for the purpose of checking of vehicles carrying mined materials should be in a position to check the validity of Transport Permit or Receipt by scanning them using website, Android Application and SMS.</p>	<p>There are staffs deployed for the purpose of checking of vehicles carrying mined material and checking of validity of Transport Permit.</p>
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D. General Conditions:	Status of Compliance
<p>i. No. change in mining technology and scope of working shall be made without prior approval of the Ministry of Environment, Forest & Climate Change.</p>	<p>Change in mining technology and scope of working, if any, shall be made with prior approval of the Ministry of Environment, Forests & Climate Change.</p>
<p>ii. No change in the calendar plan of production of quantum of mineral cost shall be made.</p>	<p>There shall be no change in the calendar plan of production for quantum of mineral sand.</p>
<p>iii. The project proponent shall obtain necessary prior permission of the competent authorities for drawl of requisite quantity of surface water and ground water for the project</p>	<p>Water and sand mixture is withdrawn from the riverbed and after removing the sand from the mixture, the water is recirculated back to the river.</p>
<p>iv. Regular monitoring of ground water table to be carried out at the upstream and depth of water available in the dug well is to be measured. Monitoring to be done by establishing a network of existing wells and constructing new piezometers.</p>	<p>There is no interfering with ground water table or removal of ground water will be done during mining.</p>
<p>v. Monitoring of Ambient Air Quality to be carried out based on the 2009 notification, as amended from time to time by the Central Pollution Control Board. Water sprinkling should be increased at places loading and unloading points & transfer point to reduce fugitive emissions.</p>	<p>Monitoring of Ambient Air Quality to be carried out based on the 2009 notification. Water sprinkling will be done at places loading and unloading points & transfer point to reduce fugitive emissions.</p>
<p>vi. The upliftment of scheduled caste/scheduled tribe population, specific programs have been taken into consideration specially with respect to education, health care, livelihood generation, infrastructure development & promotion of sports & culture for SC/ST population and that these will be intensified in future.</p>	<p>The upliftment of scheduled caste/scheduled tribe population with respect to education, health care, livelihood generation, infrastructure development & promotion of sports & culture will be done according to CSR objectives.</p>
<p>vii. Plantation should be raised in a 7.5m wide green belt in the safety zone around the mining lease, backfilled and reclaimed area, around water body, along the roads etc. by planting the native species in consultation with the local DFO/Agriculture department. The density of the trees should be around 2500 plants per ha. Greenbelt shall be developed all along the mine lease area in a phased manner and shall be completed in the first five years.</p>	<p>Plantation will be done in a phased manner to raise a 7.5 wide green belt around the mining sites.</p>

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<p>viii. Dimension of the retaining wall at the toe of over burden dumps and OB benches within the mine to check run-off and siltation shall be based on the rain fall data.</p>	<p>There will be no overburden generation.</p>
<p>ix. Effective safeguard measures such as regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of PM₁₀ and PM_{2.5} such as haul road, loading and unloading point and transfer points. It shall be ensured that the ambient air quality parameters conform to the norms prescribed by the Central Pollution Control Board in this regard.</p>	<p>Effective safeguard measures such as regular water sprinkling will be carried out in critical areas prone to air pollution and having high levels of PM₁₀ and PM_{2.5} such as haul road, loading and unloading point and transfer points</p>
<p>x. Regular monitoring of flow rate of the springs and perennial nallahs flowing in and around the mine lease shall be carried out and records maintained. Regular monitoring of water bodies upstream and downstream of water bodies shall be carried out and record of monitoring data should be maintained and submitted to the Ministry of Environment, Forest & Climate Change, its regional office, Bhubaneswar, Central Groundwater Authority, Regional Director, Central Ground Water Board, State Pollution Control Board and Central Pollution Control Board.</p>	<p>Regular monitoring of flow rate of the springs and perennial nallahs if any flowing in and around the mine lease will be carried out and record will be maintained.</p>
<p>xi. Regular monitoring of ground water level and quality shall be carried out in and around the mine lease by establishing a network of existing wells and constructing new piezometers during the mining operation. The monitoring shall 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, Forest & Climate Change, its regional office, Bhubaneswar, Central Groundwater Authority, Regional Director, Central Ground Water Board.</p>	<p>There is no interfering with ground water table or removal of ground water will be done during mining</p>
<p>xii. The critical parameters such as PM₁₀, PM_{2.5}, NO_x and SO_x 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, Forest & Climate Change, which is available on the website of the Ministry www.envfor.nic.in shall also be referred in this regard for its compliance.</p>	<p>Monitoring will be done by CMPDI and records maintained.</p>

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<p>xiii. Four ambient air quality monitoring stations shall be established in the core s\zone as well as in the buffer zone for PM₁₀, PM_{2.5}, SO₂ and NO_x monitoring. Location of the stations shall 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. Data on ambient air quality should be regularly submitted to the Ministry including its regional office located at Bhubaneswar and State Pollution Control Board and Central Pollution Control Board once in six months.</p>	<p>In conversation with CMPDIL to set up four ambient air quality monitoring stations with consultation from State Pollution Control Board.</p>
<p>xiv. 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 maintained.</p>	<p>Fugitive dust emissions from all the sources will be controlled regularly. Water spraying arrangement on haul roads, loading and unloading and at transfer points will be provided.</p>
<p>xv. Adequate measures shall be taken for control of noise levels below 85dBA in the work environment. Workers engaged in blasting and drilling operations, operation of HEMM, etc shall be provided with ear plugs/muffs.</p>	<p>Noise at the source will be controlled within permissible limit. There will be no blasting or drilling operation.</p>
<p>xvi. Industrial Wastewater (workshop and wastewater from the mine) shall 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 before discharge. Oil and grease trap shall be installed before discharge of workshop effluents.</p>	<p>The sand mining process does not create any waste water.</p>
<p>xvii. Personnel working under dusty area shall wear protective respiratory devices and they shall also be provided with adequate training and information and information safety and health aspects.</p>	<p>Protective respiratory devices will be provided to the workers if required.</p>
<p>xviii. A separate environmental management cell with suitable qualified personals shall be set up under the control of a senior executive, who will report directly to the Head of the Company.</p>	<p>A separate environmental management cell with suitable qualified personnel is setup in the area.</p>
<p>xix. The fund earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purposes. Year wise expenditure should be reported to the Ministry and it's regional office located at Bhubaneswar.</p>	<p>Will be complied.</p>
<p>xx. 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</p>	<p>Will be complied.</p>

Half Yearly Compliance Report for Sand Mining in Ajoy River for the period April'18 to September'18

<p>xxi. The project proponent shall submit six monthly report on the status of the implementation of the stipulated environmental safeguards to the Ministry of Environment, Forest & Climate Change, its regional office, Bhubaneswar, State Pollution Control Board and Central Pollution Control Board.</p>	<p>Six monthly report of compliance of EC conditions are submitted to concerned authorities.</p>
<p>xxii. The Regional Office of the Ministry located in the Region shall monitor compliances of the stipulated conditions. The Project authorities shall extend full cooperation to the office(s) of the Regional Office by furnishing the requisite data/information/monitoring reports.</p>	<p>Agreed and noted.</p>
<p>xxiii. A copy of clearance letter will be marked to concerned Panchayat/local NGO, if any, from whom any suggestions/representation has been received while processing the proposal.</p>	<p>Agreed.</p>
<p>xxiv. State Pollution Control Board should display a copy of the clearance letter at the regional office, District Industry Sector and Collector's Office/Tehsildar's Office for 30 days.</p>	<p>Agreed and noted.</p>
<p>xxv. 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 seven 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 the website of the Ministry of Environment, Forest and Climate Change at http://envfor.nic.in.</p>	<p>Advertisement was given in The Indian Express on 5th August, 2016. The same has also been uploaded in our website www.easterncoalfields.gov.in</p>


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