

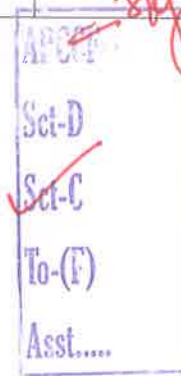
<p>साउथ ईस्टर्न कोलफील्ड्स लिमिटेड (कोल इण्डिया की एक अनुषंगी कम्पनी) कार्यालय खान प्रबंधक, महामाया भूमिगत खदान पो0 भटगाँव, जिला-सूरजपुर (छ0ग0) 497235 ई मेल- <b>mahamayaugmine@gmail.com</b></p>		<p>SOUTH EASTERN COALFIELDS LIMITED (A Subsidiary of Coal India Limited) OFFICE OF THE COLLIERY MANAGER MAHAMAYA UG MINE PO-BHATGAON, DIST-SURAJPUR (C.G.) 497235, E-mail: mahamayaugmine@gmail.com</p>
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Ref no: SECL/CM/MM/ENVT/CVL/18/ 1637

Date: 13.01.2018

To,  
The Additional Principal Chief Conservator of Forest,  
Ministry of Environment Forest and Climate Change,  
Regional Office, (WCZ)  
Ground Floor, East Wing,  
New Secretariat Building, Civil Lines,  
Bhopal (M.S) – 440001.

1 MAR 2018



**Subject:** Implementation status of environment clearance report of Mahamaya UG Mine of  
M/S South Eastern Coalfields Limited, Bhatgaon Area. (For the period of July 2017 to  
December 2017)

Dear Sir,

Compliance on terms & condition of environment clearance in respect of Mahamaya Underground  
Mine as per letter No: J-11015/1096/2007-IA:II (M) dated 18.02.2011.

Sl. No. 2	CONDITION	COMPLIANCE
A.	<b>SPECIFIC CONDITIONS</b>	
i	Sufficient coal pillars shall be left un-extracted around the air shaft (within the 3 subsidence influence area) to protect from any damage from subsidence, if any.	Sufficient coal pillars have left un-extracted around air shaft.
ii	Solid barriers shall be left below the 4 roads failing within the blocks to avoid any damage to the roads.	Agreed, the mining operation below the road is carried out as per DGMS permission.
iii	No depillaring operation shall be carried out below the town ship/ colony.	Agreed, the mining operation is carried out as per DGMS permission.
iv	Depression due to subsidence resulting in water accumulating within the low lying areas shall be filled up drained out by cutting drains.	Agreed, at present there is no depressions.
v	While extracting panels in the lower seam, all water bodies. In the subsidence area shall be changed. Dewatering of the old goaves if the upper seam shall be continued as long as the lower seam in worked to prevent accumulation of large water bodies over working area.	While extracting panels in the lower seam, all water bodies shall be emptied.
vi	High roof density tree species shall be selected and planted over areas likely to be affected by subsidence.	Agreed, the plantation work is carried out by Chhattisgarh Rajya Van Vikas Nigam Ltd.
vii	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 materials. Cracks shall be effectively plugged with ballast and clayey soil/suitable material.	Regular monitoring of subsidence movement is being done and records are being kept as per DGMS permission.
viii	Garlands surface drains (size, gradient and length ) around the safety areas such as mine shaft and low lying areas and sump capacity shall be designed keeping 50 % safety margin over an above the peak sudden rainfall and maximum discharge in the area adjoining the mine	Agreed, Garland drain and surface drain around the incline mouths, air shaft and subsidence area have been

6 Months Compliance Report

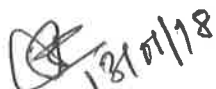
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	sites. Sump capacity shall also be provided adequate retention period to allow proper setting of silt material, sufficient number of pumps of adequate capacity shall be deployed to pump out mine water curing peak rainfall.	constructed.
ix	CHP shall be operated with high efficiency bag filters, water sprinkler system shall be provided to check fugitive emissions from crushing operations, conveyor system, haulage roads, transfer points etc.	Mine has only surface bunker of 200 Tonne capacity and water sprinklers has been installed in surface road stock yard and discharge point.
x	Drills shall be wet operated only.	Mine is naturally wet. Drilling is being done as per guide lines of DGMS.
xi	The major approach roads from Mine used for mineral Transportation shall be black topped and a 3 tier avenue plantation developed using a mix of native speckles.	The entire approach road to mine and within the campus is black topped.
xii	A progressive afforestation plan shall be prepared and implemented for the area acquired and shall include areas along roads, infrastructure, township, CHP along ML boundary, etc. by planting native species in consultation with the local DFO/Agriculture Department. The density of the trees shall be around 2500 plants per ha.	Plantation is being carried out over goaved out areas by Rajya Van Vikas Nigam.
xiv	Regular monitoring of ground water level and quality shall be carried out by establishing a network of existing wells and construction of new Piezometer. The monitoring for quantity shall be done for times a year in pre-monsoon (August) post monsoon (November) and winter (January) seasons and for quality in May. Data thus collected shall be submitted to Ministry of Environment & forests and to the Control Pollution Control Board quarterly within One month of monitoring.	Piezometers are in the process of installation. Water quality is monitored by CMPDI every month.
xvi	The company shall put up artificial ground water recharges measures for augmentation of ground water resource In case monitoring shows a declining trend of ground water level. The project authorities shall meet requirement of nearby villagers in case the village wells go dry due to dewatering of mine.	Mine water is treated in settling pond and reused for Dust suppression. There is no case of dried well in the nearby villages.
xvii	Sewage treatment plant shall be installed in the township. ETP shall also be provided treating workshop and CHP effluents. Effluents treated to confirm to prescribe name shall be discharged in surface waters.	Township is common for all mines where STP in under process of construction.
xviii	Land losers shall be provided compensation as per norms which are not less than the National R & R Policy and the R & R Policy of the State Govt. whichever is higher.	Complied.
xv	Project specific CSR should be prepared & activities under CSR under taken for the neighboring villages shall be for less than Rs. 5 per tone of Coal and the progress made thereon shall be uploaded on the company annually on the company website. An annual recurring budget of Rs. 5 tone of coal is provided towards CSR. The company shall set up a Monitoring cell for monitoring the CSR issues and engage an independent organization for undertaking Social Audit.	CSR policy has already been implemented as per guidelines of the company.
xviii	For monitoring land use pattern and for post mining land use, a time series of land use maps, based on satellite imagery (on 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 3 years (for any one particular season which is consistent in the time series) and the report submitted to MOEF and its Regional office at Bhopal.	Land use maps, based on satellite imagery of the core zone and buffer zone, is prepared by CMPDI.
xix	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 shall be submitted to MOEF 5 years in advance of final mine closure
<b>B.</b>	<b>GENERAL CONDITIONS</b>	

i	No change in technology and scope of working shall be made without prior approval of the Ministry of Environment and Forests.	Agreed
ii	No change in the calendar plan including quantum of mineral coal and waste being produced shall be made.	Agreed
iii	Four ambient air quality monitoring stations shall be established in the core zone as well as in the buffer zone for monitoring PM 10, PM2.5m /SO x and No x . Location of the stations shall 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, in RSPM etc. shall be carried out at least once in Six months.	Four Ambient air quality monitoring stations are provided within core and buffer zones of the mine. Fortnightly monitoring is done by CMPDI. Monitoring reports are enclosed.
iv	Data on ambient air quality (PM 10, PM2.5, SOx and heavy metals such as Hg, As, Ni, Cr, etc) and other monitoring data shall be regularly submitted to the Ministry including its Regional office at Bhopal 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 EP Rules, 1986 shall be furnished as part of the compliance report.	Monitoring is being done every month and for heavy metals Monitoring is done once in six months by CMPDIL for the parameters as described. (Test reports enclosed)
v	Adequate measures shall be taken for control of noise levels below 85 DBA in the work environment. Workers engaged in blasting and drilling operation, operation of HEMM, etc shall be provided with ear plugs/muffs.	Measures have been taken to control noise level within the limits. Ear muffs are being provided.
vi	Industrial waste water (work shop and waste water from the mine) shall be properly collected and treated so as to conform to the standards including for heavy metals before discharge prescribed under GSR 422 (E) dated 31 st December 1993 or as amended from time to time. Oil and grease trap shall be installed before discharge of workshop effluents.	There is no such work in the work shop is carried out as it is underground mine where no waste water is generated.
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.	Vehicular emission is monitored time to time. And tarpaulin is used to cover the coal in transportation trucks.
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 rule 1986.	The work is being carried out through CMPDIL.
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. Occupational health surveillance programmed of the workers shall be undertaken periodically to observe any contractions due to exposure to dust and to take corrective measures, if needed.	Dust mask has already been provided to the persons working in dusty atmosphere and occupational health / PME is carried out at fixed intervals for the employees.
x	A separate environmental management cell with suitable qualified personnel shall be set up under the control of a Senior Executives, who will report directly to the Head of the company.	A separate environmental management cell is already established in Area HQ.
xi	The funds earmarked for environmental protection measures shall be kept in separate account and shall not be diverted for other purpose. Year- wise expenditure shall be reported to this Ministry and the regional Office at Bhopal.	Separate account is being maintained for environmental protection measures.

xii	The projects 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	Complied
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	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 & Forests at <a href="http://envior.nic.in">http://envior.nic.in</a>	
xiii	A copy of the environmental clearance letter shall be marked to concerned Panchayat/ Zillah 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 website.	complied
xiv	A copy of the clearance letter shall 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 Center and Collector's Office/Tehsildar's Office for 30 days.	complied
xv	The clearance letter shall be uploaded on the company's website. The compliance status of the stipulated EC conditions shall also be uploaded by the project authorities on their website and updated at least once 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 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.	Agreed
xvi	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 MOEF, the respective Zonal office of CPCB and the SPCB.	Agreed
xvi i	The Regional office of the Ministry located at Bhopal shall monitor compliance of the stipulated conditions. The project authorities shall extend full cooperation to the offices (S) of the Regional office by furnishing the requisite data /information/monitoring reports.	Agreed.
xvi ii	The environmental statement for each financial year ending 31st March in forms-V is mandated to be submitted by the project proponent 101 the concerned State Pollution Control Board as prescribed under the Environment (protection) Rules, 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 Officers of the MOEF by E-mail.	Agreed
3.	The ministry of any other competent authority may stipulate any further condition for environmental protection.	Agreed
4.	Failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract the provisions of the Environment (Protection) Act, 1986.	Agreed
5.	The above conditions will be enforced inter-alia, under the provision of the water (prevention & Control of Pollution) Act 1974, the Air (prevention & Control of Pollution) Act 1981, the Environment (Protection) Act 1986 and the public liability Insurance Act 1991 along with their amendments and Rules. The proponent shall ensure to undertake and provide for the costs incurred to taking up remedial measures in case of soil contamination, Contamination of ground water and surface water and occupational and other diseases due to the mining operations.	Agreed

  
 13/11/18  
 Sub Area Manager  
 Mahamaya UG Mine,  
 Bhatgaon Sub Area.  
 SECL, Bhatgaon Area.

  
 13/11/18  
 Colliery Manager  
Mahamaya Project

**STATUS OF IMPLEMENTATION OF ENVIRONMENT SAFEGUARDS  
SIX MONTHLY MONITORING REPORT (JULY 2015 TO DECEMBER 2015)**

1. Name of Project	:	Mahamaya UG Mine
2. No. & date of MOEF clearance letter	:	J-11015/1096/2007-IA-II (M) dated 18.02.11
3. Area involved in the project and breakup Purpose wise if any.	:	Forest land 243.80 Hector Govt. Land 31.62 Hector Tenancy Land 487.05 Hector
4. Location	:	Mahamaya UG Mine Situated 35Km. from Ambikapur to Banaras Road
District ( S)	:	Surajpur
State	:	Chhattisgarh
Latitudes	:	23°-21`to 23°-23` N
Longitudes	:	82°-26`02” to 83°-02`34”

**PART.**


5. Present Status including work progress	:	July 2017 to December 2017 (Running old mine)
6. Total Manpower and civil amenities Including free fuel distribution for the Construction phase.	:	Fuel distribution is being done to each employee (Gas Cylinder)
7. Project cost Original revised (year of revision )	:	79.85 Crore.
8. Financial allocation for Environmental Safeguards.	:	-
9. Monitoring cell established yes or no. If any details. If no give reason.	:	Yes
10. How regular quarterly/Six monthly Progress reports are submitted to the Ministry.	:	Reports are being submitted to the ministry on regular basis.
11. Fire Fighting system/Emergency plan Detail.	:	Fire Fighting equipments kept at Mine Area.
12. No. of families/persons displaced	:	
13. Rehabilitation identified	:	NA
14. No. of displaced person/families Employed and kind of job skilled.	:	Nil.
15. Quantity of solid waste/over Burden Produces year wise.	:	Nil.
16. Plan for reclaiming the Exca. area/quarry: Sited, and borrows sits through filling leveling establishing the exposed slopes etc.	:	NA.
17. Location and total area to be reclaim Per stored.	:	NA.
18. The year wise financial allocation for Rehabilitation.	:	NA.


19. The phase programme of expenditure for:  
Rehabilitation already incurred/future. : NA.
20. Facility provided to collect industrial  
Waste water & sewage. : Settling tanks provided.
21. Qty. day discharge : Industrial - 1478.16 KL/day
22. Monitoring of treated effluent frequency : Freq. - being done monthly  
No of sampling point.
23. Air quality analysis and is monitoring : Freq. - being done monthly  
Frequency No. of monitoring station.
24. Noise pollution monitoring station : Freq. - being done monthly
25. Preventive measures for Air Noise &  
Water. : 1. water spraying arrangement  
2. Plantation in provision.  
NOISE:  
1. Plantation  
2. Timely maintenance of equipments  
WATER:  
1. Settling tanks provided
26. A. Financial allocation capital/recurring :

B. Expenditure done from July 2017 to December 2017. Rs. 248868.00

**(GREEN BELT AND AFORESTATION ETC)**

27. No. of trees planted and speckles : Aforestation is being done over goaved out panels.  
Plantation till date  
Plantation proposal for the next year
28. Financial (Future) allocation : Nil
29. Present condition of Plantation : Satisfactory

  
13/01/18  
Sub Area Manager  
Mahamaya UG Mine,  
Bhatgaon Sub Area.  
SECL, Bhatgaon Area.

  
13/01/18  
Colliery Manager  
Mahamaya Project