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15 FEB 2018



SOUTH EASTERN COALFIELDS LIMITED
(A Miniratna PSU Company)
Office of the Colliery Manager
Gayatri U/G Mine, RGK Sub Area, Bishrampur Area
Distt. Surguja, Chhattisgarh-497229

a

NO: SOM/GP/66/2018/ 1970

Date: 26.01.2018

To,
10909
6 Monthly
Compliance
Report

The Additional Principal Chief Conservator of Forest
Ministry of Environment, Forest & Climate Change
Regional Office, (WCZ), Ground Floor
East Wing, New Secretariat Building, Civil Line,
Nagpur (Maharashtra)-440001

Subject: Implementation status of Environmental Clearance conditions in respect of Gayatri U/G mine of M/S South Eastern Coalfields Limited, Bishrampur Area as per MOEF letter No. J-11015/26/2000-IA.II (M) Dated 27.11.2002.

Dear Sir,

Please find enclosed herewith the compliance report of the conditions laid in the Environmental Clearance granted vide letter no. J-11015/26/2000-IA.II (M) dated 27.11.2002 to Gayatri UG Mine for the period July 17 to Dec 17.

Thanking You.

Encl: As above.

Yours Faithfully

M. M.
26.1.18
Sr. Manager (M)/Colliery Manager
Gayatri UG Mine

Copy to:-

1. General Manager (Envvt), Bilaspur HQ.
2. Nodal Officer (Envvt), Bishampur Area.
3. Sub Area Manager, RGK Sub Area.

HALF YEARLY COMPLIANCE REPORT

(PERIOD: JULY'17-DEC'17)

OF

GAYATRI UG MINE

BISHRAMPUR AREA, SECL

VILLAGE: GETRA, POST: KETKA

DISTRICT: SURGUJA

STATE: CHATTISGARH

PIN: 497229

ENVIRONMENTAL CLEARANCE GRANTED

VIDE LETTER NO. J-11015/26/2000-IA.II (M), DATED 27.11.2002.

ISSUED BY GOVERNMENT OF INDIA, MINISTRY OF ENVIRONMENT & FOREST, NEW DELHI.

SPECIFIC CONDITIONS

1. Regular monitoring of subsidence movement on the surface over working area and impact on water bodies / vegetation / structures / surrounding should be continued till movement ceases completely. In case of observation of any high rate of subsidence movement, appropriate measures should be taken to avoid loss of life and material. Cracks should be effectively plugged with ballast and clayey soil/suitable material.

Status of Compliance

At present not applicable.

2. The project authorities should check the possibility of existence of fault(s) before deciding about the thickness of safe barrier required to be maintained between the working face and the river in consultation with the Director General Mines & Safety (DGMS). De-pillaring should also be carried out after taking prior approval of the DGMS.

Status of Compliance

The project is development mine and no depillaring panel exist. Constant liaison is being maintained with DGMS.

3. Garland drains should be constructed around the mine to prevent ingress of surface run off.

Status of Compliance

Garland drain of adequate size and gradient has been provided around Inline Mouth and Air shaft to prevent ingress of surface run off. Approx Length: 350 m.

4. Coal handling plant should be provided with adequate number of high efficiency dust extraction system. Loading and unloading area including all the transfer points should also have efficient dust control arrangements. These should be properly maintained and operated.

Status of Compliance

Spraying system has been provided on the main belt to wet the coal before its temporary storage in bunker.

15 nos. fixed sprinklers have been provided all along the road for efficient dust control arrangement and also properly maintained.

Coal spillage is disposed off regularly and properly

5. A green belt of adequate width should be raised by planting the local species along the mine boundary, waste rock dumps, ventilation fan, roads and in selected open areas In consultation with local DFO / Agriculture Department. Density of tree should be at least 2500 plants/ha.

Status of Compliance

Plantation has already been done area available within mine premises.

Dense and natural vegetation all around the mine premises as "RESERVE FOREST"

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26/1/18
खान प्रबंधक
COLLIERY MANAGER
गायत्री भूमिगत खदान
GAYATRI UNDER GROUND MINE

6. Study report on subsidence and stage wise development plan starting from 5th year of operation till the end of the mine at an interval of 5 years should be submitted to the Ministry within six months.

Status of Compliance

Presently it is not applicable as only development panel exist in the project.

7. The project authority should implement suitable conservation measures to augment, ground water resources in the area In consultation with the Regional Director, Central Ground Water Board, Chhattisgarh region.

Status of Compliance

Very limited scope of rain water harvesting at mine premises.

Roof top rain water harvesting is done in residential complexes at RGK sub area.

Rain water collected from 2 C types block is channelized and collected in a soak pit.

Size of recharge Pit : 11m x 3m x 3m
No. of borehole : 2 Nos
Borehole : 6" Dia with perforated PVC Pipe
Depth of Borehole : 20 mtrs each
Cost : Rs. 2.77 Lac (Appx.)
Year of Construction: 2012-13

8. Regular monitoring of ground water level and quality should be carried out by establishing a network of existing wells and constructing new piezometers during the mining operation. The interval of monitoring should be 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 MOEF and to the Central ground Water Authority.

Status of Compliance

It is being regularly monitored.

Network of wells established by identifying few wells on nearby villages.

9. Adequate measures for safety should be provided for in storage, handling and use of explosives during the project period.

Status of Compliance

Adequate measures for safety provided in storage, handling and use of explosive.

Double layered fencing, watch tower, round the clock gun man provided.

Lic. No. : E/CC/CG/22/488(E68440) Dt : 24/09/2013 and Valid upto 31/03/2018

10. A detailed mine decommissioning plan should be submitted to the Ministry of Environment and forests five years in advance for approval.

Status of Compliance

Life of Mine as per project report: 47 Years

Date of Opening : 01/10/1997

Detailed mine decommissioning plan shall be submitted to the Ministry of Environment and forests five years in advance for approval.

Handwritten signature and date:
26/11/18

11. Consent to operate should be obtained from SPCB before starting mining activities.

Status of Compliance

Consent to operate has been obtained from CECB. Vide letter no.

6400/TS/CECB/2007 Raipur dated **23/11/2007** and subsequently renewed vide letter no. **6196/TS/CECB/2016 Raipur** dated **15/03/2016** under Sec 25/26 of the Water (Prevention and Control of Pollution) Act, 1974 valid till 28/11/2016 and again applied for renewal vide application ID 304399 dated 27.10.2016

6402/TS/CECB/2007 Raipur dated **23/11/2007** and subsequently renewed vide letter no. **6198/TS/CECB/2016 Raipur** dated **15/03/2016** under Sec 21 of the Air (Prevention and Control of Pollution) Act, 1981 valid till 28/11/2016 and again applied for renewal vide application ID 304399 dated 27.10.2016

12. Vehicular emissions should be kept under control and regularly monitored.

Status of Compliance

Vehicular emission kept under control and also being monitored. Vehicles are allowed to enter the mine premises for coal transportation only after scrutiny of documents related to vehicle fitness and a valid "Pollution under Control" certificate.

13. Land oustees should be compensated as per the State Government norms and Coal India Policy.

Status of Compliance

Land oustees have been provided compensation and service as per the State Govt. norms and Coal India policy.

GENERAL CONDITIONS.

1. No change in mining technology and scope of working should be made without prior approval of the Ministry of Environment and Forests.

Status of Compliance

It is being strictly followed. Bord & Pillar method is being used for mining.

2. No change in the calendar plan including excavation, quantum of mineral coal and waste should be made.

Status of Compliance

Agreed.

<u>Year</u>	<u>Production</u>
2016-17	297363 te
2015-16	226607 te
2014-15	219000 te
2013-14	226710 te
2012-13	229015 te

20148

3. Four ambient air quality monitoring stations should be established in the core zone as well as the buffer zone for RPM, SPM, SO₂, NO_x and CO monitoring. 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.

Status of Compliance

Monitoring stations established as stated and as per guideline of SPCB.

Monitoring Station

1. Gayatri Mine Office
 2. Pondi Village
 3. Lainga Village
 4. Mani Village
4. Data on ambient air quality (RPM, SPM, SO₂, NO_x and CO) should be regularly submitted to the Ministry including its Regional Office at Bhopal and to the State Pollution Control Board/Central Pollution Control Board once in six months.

Status of Compliance

It is being submitted on monthly basis by CMPDIL (Govt. of India undertaking) and reports being submitted.

5. Drills should be wet operated or with dust extractors.

Status of Compliance

Provided

6. Fugitive dust emissions from all the sources should be controlled regularly monitored and data recorded properly. Water spraying arrangements on haul roads, wagon loading, dumps, loading & unloading points should be provided and properly maintained.

Status of Compliance

The mine is an u/g mine. Coal which comes to surface is naturally wet. Wet coal is stored temporarily in bunker and wet coal is transported to sidings in tarpaulin covered vehicles.

Permanent water sprinklers are installed within the mine premises.

CMPDIL (Govt. of India undertaking) engaged for monitoring & measurement of air pollutants level.

7. Adequate measures should be taken for control of noise levels below 85 db in the work environment. Workers engaged in blasting and drilling operations, operations of HEMM, etc., should be provided with ear plugs/muffs.

Status of Compliance

Adequate measures have been taken to control noise level

Noise level is monitored by CMPDIL and it is within permissible limit.

Ear plugs / muffs have been provided as and when necessary.

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8. Industrial waste water (workshop and waste water from the mine) should be properly collected, treated so as to conform to the standards prescribed under GSR 422(E) dated 19th May 1993 and 31st December 1993 or as amended from time to time. Oil and grease trap should be installed before discharge of effluents from workshop.

Status of Compliance

Three stage settling plant is constructed and maintained.

Mine discharge water is channelized through this settling tank before discharging into local water bodies.

Regular effluent discharge quality monitoring is done and parameters are within prescribed norms.

Specification of Settling Tank

Primary Tank Capacity	:	372.00 m ³
Secondary Tank Capacity	:	142.00 m ³ each : Two nos
Constructed in two phases	:	2002-2003 & 2006-07 with cost of Rs. 474026 & Rs. 57643 resp.
Size of primary tank	:	18.50 x 8.40 x 2.40 m
Size of secondary tank	:	26.00 x 5.43 x 1.35 m

9. Acid mine water, if any has to be treated and disposed of after conforming to the standard prescribed by the competent authority.

Status of Compliance

Mine water is not acidic, hence is not applicable.

10. Personnel working in dusty areas should wear protective respiratory devices and they should also be provided with adequate training and information on safety and health aspects. Occupational health (surveillance programme of the workers should be undertaken periodically to observe any contractions due to exposure to coal dust and take corrective measures, if needed.

Status of Compliance

Initial & Periodical medical examination of workers are being done at Central Hospital, Bishrampur (S.E.C.L.) and necessary protective/corrective measures are being taken as per the statutes laid in The Mines Act, 1952 & The Mines Rules, 1956. The test are performed as per Form "O".

<u>Year</u>	<u>No of Workers medically examined</u>
2017	221
2016	181
2015	202
2014	226

11. Environmental laboratory should be established with adequate number and type of pollution monitoring and analysis equipment in consultation with the State Pollution Control Board.

Status of Compliance

Monitoring is done through CMPDI, a Govt. U/T agency as per guideline / notification.

20.1.19
खान प्रबंधक
COLLIERY MANAGER
गायत्री भूमिगत खदान
GAYATRI UNDER GROUND MINE

12. A separate environmental management cell with suitable qualified personnel should be set up under the control of a senior Executive who will report directly to the Head of the organization.

Status of Compliance

Environmental management cell has been established. It comprises Project Officer, Survey Officer, Nodal Officer (Envt.) at Sub area & Area Level.

13. The funds 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 Regional Office (CZ), Bhopal of the MOEF and to the Ministry.

Status of Compliance

It is not being diverted and expenditure is being reported in the six monthly compliance report.

14. The Regional Office of this Ministry located at Bhopal shall monitor compliance of the stipulated conditions. The Project authorities should extend full cooperation to the officer(s) of the Regional Office by furnishing requisite data/information/ monitoring reports.

Status of Compliance

Agreed.

15. A copy of the clearance letter will be marked to the concerned Panchayat /local NGO if any, from whom any suggestions/representation has been received while processing the proposal.

Status of Compliance

Already done. Clearance letter marked to Sarpanch of Getra village vide letter SAS/RGP/2003/729 dated 04/2/2003

16. The project authorities should inform to the Regional Office located at Bhopal regarding date of financial closures and final approval of the project by the concerned authorities and the date of start of land development work.

Status of Compliance

Being done.

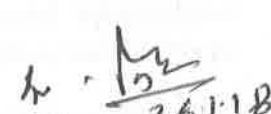
17. State Pollution Control Board should display a copy of the clearance letter at the Regional Office, District Industry Center and Collector's/ Tehsildar's Office for 30 days.

Status of Compliance

18. The project authorities should advertise at least in two local newspapers widely circulated, one of which shall be in the vernacular language of the locality concerned, within 7 days of the issue of the clearance letter informing that the project has been accorded environmental clearance and a copy of the clearance letter is available with the State Pollution Control Board and may also be seen at web site of the Ministry of Environment and Forests at <http://envior.nic.in>.

Status of Compliance

Already done


26.1.18
Sr. Mgr. (M)/ Colliery Manager
Gayatri UG Mine

**STATUS OF IMPLEMENTATION OF ENVIRONMENT SAFEGUARDS
SIX MONTHLY MONITORING REPORT ENDING DEC 2017**

Part - I

- 1 Name of the Project : Gayatri U/G Mine, SECL Bishrampur Area.
- 2 No. & Date of MOEF Clearance letter : J-11015/26/2000-1A-JI (M) Dt. 27.11.2002
- 3 Area involved in the project and breakup purpose wise, if any :
- | | | | |
|--------------|---|----------------|----------------------|
| Forest Land | : | 416.772 | Hect. (Phase I & II) |
| Govt. Land | : | 41.000 | Hect. |
| Tenancy Land | : | 49.700 | Hect. |
| | | <u>507.472</u> | Hect. |
- 4 Location : 18 Km. South of Surajpur
- Districts (S) : Surguja
- State : Chhattisgarh
- Latitudes : Latitudes : 23°05'15" (N) 23°07'30" (N)
- Longitudes : Longitudes : 82°53'32" (E) 82°56'53" (E)

PART - II

- 5 Present status including work progress : JULY 2017 to EDC 2017.
- 6 Total Manpower and civil amenities including free fuel distribution for the construction phase. : 831 employees & reimbursement of one gas cylinder has been provided to each and every employee.
- 7 Project cost original/revised (year of revision) : 21.09 Crores.
- 8 Financial allocation for Environmental safeguards : Rs. 20 Lakhs (for financial year 2016-17)
- 9 Monitoring cell established yes or no, if any details. If no give reasons. : Yes
- 10 How regular/quarterly six monthly progress reports are submitted to the ministry. : Monitoring reports are being submitted on monthly basis.
- 11 Fire fighting system/Emergency plan details : Rescue station has been established at Area level.

PART - III (Rehabilitation / Reclamation Programme)

- 12 No. of families / person displaced : Nil
- 13 Rehabilitation site identified : Nil
- 14 No. of displaced person/families employed and kind of job skilled : N.A.
- 15 Quantity of solid waste/over Burdon produced year wise : N.A.
- 16 Plan for reclaiming the Excv. Area/Quarry sites and borrow site through filling levelling establishing the exposed slopes etc. : N.A.
- 17 Location and total area to be reclaimed / restored : N.A.
- 18 The year wise financial allocation for rehabilitation. : N.A.
- 19 The phase programme of expenditure for rehabilitation already incurred/future. : N.A.

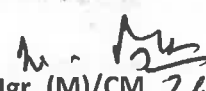
26.1.18
खान प्रबंधक
COLLIERY MANAGER
गायत्री भूमिगत खदान
GAYATRI UNDER GROUND MINE

PART - IV

- 20 Facilities provided to collected industrial waste water & sewage. : 1) Septic Tank & Soak Pit system provided
2) Settling Tank has been constructed.
- 21 Quantity per day discharge : 1962 KL/Day
- 22 Monitoring of treated effluent frequency : It is being done
No. of sampling point
- 23 Air quality analysis and its monitoring frequency No. of monitoring station : Frequency - Fortnightly
Sampling - 4 Nos.
- 24 Noise pollution monitoring station : Frequency - Fortnightly
Sampling - 4 Nos.
- 25 Preventive measures for Air Noise & Water : Air - 1. Water spraying arrangement
2. Plantation in provision
: Noise - 1. Plantation
2. Timely maintenance of equipments.
: Water - 1. Settling Tank Provided
2. Treatment of effluent water settle down the suspended solid.
- 26 A) Financial allocation Capital/ Revenue : Rs. 14.69 lakhs (from Jan 17 to Dec 17)
B) Expenditure done from July 17 to Dec 17. : Rs. 11.51 lakhs

(Green Belt and Afforestation etc.)

- 27 No. of Trees planted and species : Plants have already been planted within boundary of the mine and further to be planted as per availability of land.
- 28 Financial (Future) allocation : Provided
- 29 Present condition of Plantation : Dense & natural Forest is available all around the Mine.


Sr. Mgr. (M)/CM 26.1.18
Gayatri U/G Mine