



भारत सरकार
GOVERNMENT OF INDIA
 पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय
**MINISTRY OF ENVIRONMENT, FORESTS &
 CLIMATE CHANGE**

Regional Office (WCZ)
 Ground Floor, East Wing
 New Secretariat Building
 Civil Lines, Nagpur - 440001
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F. No: 3-12/2002 (Env)/1950

Dated: 23rd June, 2017

To

✓ The Scientist 'E'
 IA Division (Coal Mining),
 Ministry of Environment, Forest & Climate Change
 Vayu Wing, 3rd Floor, Indira Paryavaran Bhawan,
 Aliganj, Jorbagh Road,
 New Delhi-110003

(Kind Attention: Shri S. K. Srivastava)

Sub: A report on the status of compliance of conditions stipulated in the environment clearance dated 27.11.2002 accorded by the MOEF&CC, New Delhi in respect to Gayatri Underground mine project of M/s SECL in Surguja District in the State of Chhattisgarh – regarding.

Ref: Project proponent's letter no. GM/BSPR/Env/04/2017/3798 dated 19.01.2017 and 22.03.2017

Sir,

I am directed to refer to the above subject and letter under reference above wherein the project proponent has requested this office to issue a certificate on the monitoring of the compliance of conditions stipulated in Environment Clearance dated 27.11.2002 accorded to M/s South Eastern Coalfields Limited for Gayatri underground mining of coal at Getra village in Ambikapur Tehsil in Surguja District in the State of Chhattisgarh and to say that monitoring of the conditions stipulated in the EC was carried out by the undersigned on 19.05.2017. A monitoring report in the matter is enclosed. Based on the inspection of the mining lease of the PP, the following is concluded:

1. The Gayatri UG mining lease of SECL is located at Lakhanpur Tehsil in Surguja District in the State of Chhattisgarh. Environment clearance to the mine was accorded by the Central Government vide its letter no. J-11015/26/2000- IA. II (M) dated 27.11.2002 for a production capacity of 0.30 MTPA.
2. The mining lease involves forest area of 416.772 ha comprising of 1.040 ha of forest land for surface rights. Forest clearance over an area of 547.012 ha was obtained from the Central Government under the Forest (Conservation) Act, 1980 for combined mining leases of Rehar and Gayri (Rehar UG – 130.240 ha and Gayatri UG 416.772 ha) vide letter no. 8-90/1999-FC dated 27.09.2000. Now the PP has proposed amendment in the environment clearance on account of their proposal for capacity expansion from 0.30 MTPA to 1.30 MTPA.
3. **Conditions complied with partially**
 - i. Condition no. (iii) Maintenance of the garland drains was not observed be appropriate as at certain locations water through these drains was observed flowing outside the lease area into the forest land.
 - ii. Condition no. (iv) - Dust control system installed by the PP needs to be further strengthened as considerable coal dust was observed in the entire premises of the PP earmarked for surface rights.
 - iii. Condition No. (v) - PP has undertaken plantation within their mining premises and at railway siding. However, it is further observed that still there are open areas in the premises which can be used for green belt development to reduce the fugitive emission. The PP has been advised to undertake extensive plantation of indigenous species with the area available in their premises especially in the common area and along the road.

P-J-0

- iv. Condition no. (viii) - It is observed that 4 Piezometers, constructed by the PP have been choked and are not in use. The PP has informed new piezometers will be constructed and for the monitoring of ground water.
- v. Condition no. (vi) of general conditions- Dust control system installed by the PP needs to be further strengthened as considerable coal dust was observed in the entire premises of the PP earmarked for surface rights.

4. Conditions not complied with by the PP

- i. Condition no. (i) PP has informed that as per practice, the monitoring of the subsidence analysis is done after de-pillaring as during the development of mine i.e. during the process of formation of gallery, no impact is observed on the surface. However, PP could not produce any guidelines issued by the competent department/organization to support their claim. Further, during inspection no such areas with depression were observed in the lease of the PP. Currently, the mining operations of the PP are in the development stage. The PP has been advised to keep a vigil on the extent of subsidence during the advancement of mining operations.
- ii. Condition no. (vi) - No study has been conducted by the PP on the subsidence analysis. The PP has informed that presently development operations are going on, in the mine and condition will be complied during starting of depillaring working.
5. The PP has submitted a declaration stating that no show notices issued by the Chhattisgarh State Environment Conservation Board are pending against their Gayatri Underground mining lease.
6. It is also observed during the inspection that several trucks used for transportation have been parked in the forest area adjacent to the mining lease. A considerable space of the forest land is being used for the parking of vehicles unauthorizedly.

A detailed inspection report on the point wise compliance of conditions stipulated in the environment clearance is enclosed herewith.

This issues with the approval of the Addl. PCCF (Central), Regional Office (West Central Zone) MoEF&CC, Nagpur.


Encl: as above

Yours faithfully,


Charan Jeet Singh
Scientist 'C'

Copy to:

1. Director RO HQ, Ministry of Environment, Forest & Climate Change, Government of India, 1st Floor Agni Wing, Indira Paryavaran Bhawan, Jorbagh Road, New Delhi- 110 003.
2. Member Secretary, State Level Environment Impact Assessment Authority & Secretary, Housing and Environment Department, Government of Chhattisgarh, Mantralay Mahanadi Bhawan, New Raipur, Chhattisgarh
3. Director (Monitoring Cell), Ministry of Environment, Forest & Climate Change, Indira Paryavaran Bhawan, Aliganj, Jorbagh Road, New Delhi-110003
4. General Manager, SECL, Bishrampur Area, Bishrampur Colliery, Surajpur – 497226 Chhattisgarh.
5. Guard File.


Charan Jeet Singh
Scientist 'C'

A REPORT ON THE STATUS OF COMPLIANCE OF CONDITIONS STIPULATED IN THE ENVIRONMENT CLEARANCE DATED 27.11.2002 ACCORDED BY THE MoEF&CC, NEW DELHI IN RESPECT TO GAYATRI U/G MINE PROJECT IN SURGUJA DISTRICT IN THE STATE OF CHHATTISGARH

1. The Gayatri UG mining lease of SECL is located at Lakhanpur Tehsil in Surguja District in the State of Chhattisgarh. Environment clearance to the mine was accorded by the Central Government vide its letter no. J-11015/26/2000- IA. II (M) dated 27.11.2002 for a production capacity of 0.30 MTPA.
2. The mining lease involves forest area of 416.772 ha comprising of 1.040 ha of forest land for surface rights. Forest clearance over an area of 547.012 ha was obtained from the Central Government under the Forest (Conservation) Act, 1980 for combined mining leases of Rehar and Gayri (Rehar UG – 130.240 ha and Gayatri UG 416.772 ha) vide letter no. 8-90/1999-FC dated 27.09.2000.
3. Now the PP has proposed amendment in the environment clearance on account of their proposal for capacity expansion from 0.30 MTPA to 1.30 MTPA.
4. Inspection of the above mentioned UG coal mine was undertaken on 19.05.2017. Currently, mining operations in the lease are ongoing within the approved production levels. A report on the status of compliance of conditions stipulated in the environment clearance dated 27.11.2002 is given below:

S. No.	Conditions stipulated in the environment clearance	Status of compliance
A. Specific Conditions		
i.	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.	<p>Not complied with</p> <p>The PP has informed that presently development of mining operations is going on, so this is not applicable in present. After start of depillaring operations, regular monitoring of subsidence movement on the surface over working area and impact on water bodies / vegetation / structures / surrounding will be done. To support their claim, the PP has also informed that as per practice, the monitoring of the subsidence analysis is done after de-pillaring as during the development of mine i.e. during the process of formation of gallery, no impact is observed on the surface. However, PP could not produce any guidelines issued by the competent department/organization. Further, during inspection no such areas with depression were observed in the lease of the PP. Currently, the mining operations of the PP are in the development stage. The PP has been advised to keep a vigil on the extent of subsidence during the advancement of mining operations. The PP has consented to abide by this condition in future with the advancement of mining operation.</p>
ii.	The project authorities should check the possibility of existence of fault (s) before deciding about the thickness	<p>Complied with</p> <p>It is informed that currently development operations are going on and all the necessary precautions and safety</p>

	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.	are being ensured as per guidelines / approvals of the Director General of Mines Safety (DGMS).
iii.	Garland drains should be constructed around the mine to prevent ingress of surface run off.	Partially complied with It is observed that garland of drain 0. 3m x 0.8 x 0.65m dimensions have been constructed in the area earmarked for surface rights. Maintenance of the garland drains was not observed be appropriate as at certain locations water through these drains was observed flowing outside the lease area into the forest land.
iv.	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.	Partially complied with It is observed that coal from the underground mine is discharged into the Bunker constructed at the surface through belt conveyor. Spraying arrangement has been provided on the belt conveyor and at the top of Bunker to wet the coal before its discharge into the bunker. However, dust control system installed by the PP needs to be further strengthened as considerable coal dust was observed in the entire premises of the PP earmarked for surface rights.
v.	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.	Partially complied with It is observed that PP has undertaken plantation within their mining premises and at railway siding. However, it is further observed that still there are open areas in the premises which can be used for green belt development to reduce the fugitive emission. The PP has been advised to undertake extensive plantation of indigenous species with the area available in their premises especially in the common area and along the road. Area of the PP earmarked for the surface rights is surrounded by the fairly good forest vegetation (sal forests)
vi.	Study report on subsidence and stage wise development plan starting from 5 th year of operation till the end of the mine at an interval of 5 years should be submitted to the Ministry within six months.	Not complied with No study has been conducted by the PP on the subsidence analysis. The PP has informed that presently development operations are going on, in the mine and condition will be complied during starting of depillaring working.

vii.	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.	<p>Being complied with</p> <p>No measures were observed to the undertaken by the PP for the augmentation of the ground water in the lease area. However, the PP has informed that ground water pumped out from the mining lease, after treatment, is made available to the nearby villagers for agriculture. The PP has informed that ponds have been constructed in the villages to augment the ground water re-charge from the water pumped out from the mining lease.</p> <p>PP has also informed that ground water recharge pit has been constructed in the colony and residential complex.</p>
viii.	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.	<p>Partially complied with</p> <p>It is observed that regular monitoring of ground water level and quality are being carried out by the PP through the existing wells only. No detail pertaining to the ground water quality monitoring reports was made available by the PP. However, a report on the monitoring of ground water level has been submitted and the same is enclosed at Annexure-I.</p> <p>It is observed that 4 Piezometers, constructed by the PP have been choked and are not in use. The PP has informed new piezometers will be constructed and for the monitoring of ground water.</p>
ix.	Adequate measures for safety should be provided for storage, handling and use of explosives during the project period.	<p>Being complied with</p> <p>It is informed that measures for handling and use of explosives in accordance with the statutory regulation stipulated under Coal Mines Regulation 1957. The PP has also informed that Dy. Controller of Explosive, Govt. of India, Ministry of Commerce and Industry, Petroleum and Explosives safety organization (PESO) conducts inspection on regular basis and after ensuring all safety measures license no. E/CC/CG/22/488(E68440) is granted on 27.09.2013 which is valid upto 31.03.2018.</p>
x.	A detailed mine decommissioning plan should be submitted to the Ministry of Environment and forests five years in advance for approval.	<p>The PP has consented to this condition. The PP has also informed that a progressive mine closure plan has been prepared and approved by SECL Board of Directors in its meeting held on 27.01.2014. The PP has further informed that life of the mine is 47 years and detailed mine decommissioning plan will be submitted to the Ministry of Environment and forests in advance for approval</p>

xi.	Consent to operate should be obtained from SPCB before starting mining activities	<p>Complied with</p> <p>The PP has obtained the Consent to Establish from the Chhattisgarh Environment Conservation Board, Raipur and subsequently renewal of Air & Water Consent is obtained vide letter no. 6198/TS/CECB/2016 Raipur dated 15/03/2016</p> <p>The PP has further informed that online application for obtaining renewal of Air and Water consent for the period Nov'2016-17 to 2018-19 have already been submitted to the CECB on 30.10.2016.</p>																																	
xii.	Vehicular emissions should be kept under control and regularly monitored.	<p>Being complied with</p> <p>The PP has informed that vehicular emissions are being regularly monitored. Only those vehicles are being allowed to run having "Pollution under Control" certificate and reports finds within the permissible limit. In addition to the above coal loaded trucks are permitted for transportation only after covering of coals by Tarpaulin.</p>																																	
xiii.	Land oustees should be compensated as per the State Government norms and Coal India Policy.	<p>Complied with</p> <p>The PP has informed that Project affected families have been rehabilitated as per CIL R&R policy/CG R&R Policy.</p>																																	
B.	GENERAL CONDITIONS																																		
i.	No change in mining technology and scope of working should be made without prior approval of the Ministry of Environment and Forests.	<p>Being complied with</p> <p>No change has been made in mining technology and scope of work. If desired necessary prior approval of the Ministry of Environment, Forest & Climate change will be taken before changing in mining technology & scope of work.</p>																																	
ii.	No change in the calendar plan including excavation, quantum of mineral coal and waste should be made.	<p>Being complied with</p> <p>It is observed that there is no change in the calendar plan including excavation, quantum of mineral coal has been done by the PP. Details of Coal Productions since start of mine are follows:</p> <table border="1"> <thead> <tr> <th>Year</th><th>Sanctioned capacity (MTPA)</th><th>Actual Production (MT)</th></tr> </thead> <tbody> <tr><td>2003-04</td><td>0.30</td><td>0.010</td></tr> <tr><td>2004-05</td><td>0.30</td><td>0.049</td></tr> <tr><td>2005-06</td><td>0.30</td><td>0.081</td></tr> <tr><td>2006-07</td><td>0.30</td><td>0.084</td></tr> <tr><td>2007-08</td><td>0.30</td><td>0.106</td></tr> <tr><td>2008-09</td><td>0.30</td><td>0.107</td></tr> <tr><td>2009-10</td><td>0.30</td><td>0.230</td></tr> <tr><td>2010-11</td><td>0.30</td><td>0.282</td></tr> <tr><td>2011-12</td><td>0.30</td><td>0.245</td></tr> <tr><td>2012-13</td><td>0.30</td><td>0.229</td></tr> </tbody> </table>	Year	Sanctioned capacity (MTPA)	Actual Production (MT)	2003-04	0.30	0.010	2004-05	0.30	0.049	2005-06	0.30	0.081	2006-07	0.30	0.084	2007-08	0.30	0.106	2008-09	0.30	0.107	2009-10	0.30	0.230	2010-11	0.30	0.282	2011-12	0.30	0.245	2012-13	0.30	0.229
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		2015-16	0.30	0.227																				
		2016-17	0.30	0.297																				
iii.	Four ambient air quality monitoring stations should be established in the core zone as well as the buffer zone for RPM, SPM, SO ₂ , 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.	Being complied with It is observed that four ambient air quality monitoring stations have been established in core and buffer zone for SPM, RPM, SO ₂ , NO _x and CO monitoring and PM10 & PM2.5. The PP has informed that locations of the monitoring station have been decided based on meteorological data, topographical features and environmentally and ecologically sensitive targets in consultation with the officials of State Pollution Control Board:																						
iv.	Data on ambient air quality (RPM, SPM, SO ₂ , 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.	<table><tr><th>S. No.</th><th>Name of Monitoring Station</th><th>S. No.</th><th>Name of Monitoring Station</th></tr><tr><td>1</td><td>Gayatri Mine Site Office</td><td>5</td><td>Pondi Village</td></tr><tr><td>2</td><td>Exhaust Fan House</td><td>6</td><td>Lainga Village</td></tr><tr><td>3</td><td>Transport Tiraha</td><td>7</td><td>Mani village</td></tr><tr><td>4</td><td>Check Post</td><td>8</td><td>Pendrokhi Village</td></tr></table> Monitoring report on the AAQ for the period of April 2017 is enclosed Annexure – II Examination of the data on monitoring of Ambient Air Quality revealed the parameters are in conformity with the CECB.			S. No.	Name of Monitoring Station	S. No.	Name of Monitoring Station	1	Gayatri Mine Site Office	5	Pondi Village	2	Exhaust Fan House	6	Lainga Village	3	Transport Tiraha	7	Mani village	4	Check Post	8	Pendrokhi Village
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v.	Drills should be wet operated or with dust extractors.	Being complied with It is informed by the PP that wet drilling arrangements have been provided.																						
vi.	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.	Partially complied with It is observed that coal from the underground mine is discharged into the Bunker constructed at the surface through belt conveyor. Spraying arrangement has been provided on the belt conveyor and at the top of Bunker to wet the coal before its discharge into the bunker. However, dust control system installed by the PP needs to be further strengthened as considerable coal dust was observed in the entire premises of the PP earmarked for surface rights.																						
vii.	Adequate measures should be taken for control of noise levels below 85db in the work environment. Workers engaged in blasting and drilling operations, operations of HEMM,	Being complied with All the workers engaged in blasting and drilling operations etc. are being provided ear plugs / muffs. Monitoring of noise levels are being done on fortnightly basis and reports are being submitted regularly to the																						

	etc., should be provided with ear plugs/muffs.	Chhattisgarh Environment Conservation Board and to the Regional office, MOEF & CC, Bhopal / Nagpur. which are within the permissible limit. A copy of the same is available at Annexure-II .																					
viii.	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 19 th May 1993 and 31 st December 1993 or as amended from time to time. Oil and grease trap should be installed before discharge of effluents from workshop.	<p>Being Complied with</p> <p>It is observed that 3 underground sump of capacity of 41.91 Lakh Gallon (in cum) has been constructed in the underground mining lease to collect and to settle the mine effluent water. Thereafter, mine water is pumped into 3 settling tanks constructed at the surface where water is treated to confirm to the standards prescribed by the CPCB / SPCB. Treated water is used in various surface mining activities and is also provided to the nearby villagers for its use as irrigation.</p> <p>It is also observed that a Continuous Water Quality Monitoring Station has been set up by the PP to continuously monitor the mine water.</p>																					
ix.	Acid mine water, if any has to be treated and disposed of after conforming to the standard prescribed by the competent authority.	<p>Being complied with</p> <p>It is observed that mine water is not acidic, hence is not applicable.</p>																					
x.	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.	<p>Being complied with</p> <p>It is observed that protective respiratory devices / dust mask are provided to the personnel working in dusty areas and information's with adequate training on safety and health aspects are being provided to the work persons.</p> <p>Initial and periodical medical examination of workers are being done at Central Hospital, Bishrampur Area (S.E.C.L.). Details of the medical health check up of the workers in the mine is given as under;</p> <table border="1"> <thead> <tr> <th>Years</th><th>Target</th><th>Achieved</th></tr> </thead> <tbody> <tr> <td>2011</td><td>205</td><td>223</td></tr> <tr> <td>2012</td><td>195</td><td>204</td></tr> <tr> <td>2013</td><td>195</td><td>201</td></tr> <tr> <td>2014</td><td>225</td><td>226</td></tr> <tr> <td>2015</td><td>202</td><td>202</td></tr> <tr> <td>2016</td><td>175</td><td>181</td></tr> </tbody> </table>	Years	Target	Achieved	2011	205	223	2012	195	204	2013	195	201	2014	225	226	2015	202	202	2016	175	181
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xi.	Environmental laboratory should be established with adequate number and type of pollution monitoring and analysis equipment in consultation with the State Pollution Control Board.	<p>Being complied with</p> <p>It is informed that environmental monitoring of the mine is being done by independent ISO certified agency. CMPDIL is an ISO - 9001 Certified / NABL accredited company has its own environmental lab, equipped with adequate number and type of pollution monitoring and analysis equipment and does the monitoring and analysis works of Environmental parameters for the Project.</p>																					

xii.	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.	Complied with It is informed that a separate environmental management cell has been constituted as per organization hierarchy given below : Area Level: 1. GENERAL MANAGER 2. GENERAL MANAGER (Operation) 3. NODAL OFFICER (ENV) Project / Unit Level : 1. PROJECT OFFICER 2. COLLIERY MANAGER 3. NODAL OFFICER (ENVIRONMENT)
xiii.	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.	Partially complied with It is informed that funds earmarked in separate account for environmental protection measures and it is not diverted for any other purposes. However, detail pertaining to the year wise expenditure incurred on the environment protection measures was not made available by the PP.
xiv.	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.	The PP has consented to this condition.
xv.	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.	Complied with The PP has informed that a copy of environment clearance has been communicated to the Sarpanch of Getra village vide letter SAS/RGP/2003/729 dated 4.02.2013
xvi.	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.	Complied with. The Regional Office of the MoEF&CC has been informed about the financial closure of the project on.....
xvii.	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.	Complied with The representative of the CECB has informed that condition has been complied with by the CECB.

xviii.	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 .	The PP has informed that condition has been complied with. However, supporting detail was not made available by the PP.
xix.	The ministry or any other competent authority may stipulate any further condition for environmental protection.	The PP has consented to this condition.
xx.	Failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance.	The PP has consented to this condition.
xxi.	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 PP has consented to this condition.

5. From the examination of the above following is observed:

Conditions complied with partially

- i. Condition no. (iii) Maintenance of the garland drains was not observed be appropriate as at certain locations water through these drains was observed flowing outside the lease area into the forest land.
- ii. Condition no. (iv) - Dust control system installed by the PP needs to be further strengthened as considerable coal dust was observed in the entire premises of the PP earmarked for surface rights.
- iii. Condition No. (v) - PP has undertaken plantation within their mining premises and at railway siding. However, it is further observed that still there are open areas in the premises which can be used for green belt development to reduce the fugitive emission. The PP has been advised to undertake extensive plantation of indigenous species with the area available in their premises especially in the common area and along the road.
- iv. Condition no. (viii) - No detail pertaining to the ground water quality monitoring reports was made available by the PP. It is observed that 4 Piezometers, constructed by the PP have been choked and

are not in use. The PP has informed new piezometers will be constructed and for the monitoring of ground water.

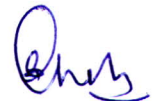
- v. Condition no. (vi) of general conditions- Dust control system installed by the PP needs to be further strengthened as considerable coal dust was observed in the entire premises of the PP earmarked for surface rights.
- vi. Condition no. (xiii) - Detail pertaining to the year wise expenditure incurred on the environment protection measures was not made available by the PP.
- vii. Condition no. (xviii)- The PP has informed that condition has been complied with, however, supporting detail i.e. copies of new paper cuttings indicating the date of publication was not made available by the PP.

Conditions not complied with by the PP

- i. Condition no. (i) PP has informed that as per practice, the monitoring of the subsidence analysis is done after de-pillaring as during the development of mine i.e. during the process of formation of gallery, no impact is observed on the surface. However, PP could not produce any guidelines issued by the competent department/organization to support their claim. Further, during inspection no such areas with depression were observed in the lease of the PP. Currently, the mining operations of the PP are in the development stage. The PP has been advised to keep a vigil on the extent of subsidence during the advancement of mining operations.
- ii. Condition no. (vi) - No study has been conducted by the PP on the subsidence analysis. The PP has informed that presently development operations are going on, in the mine and condition will be complied during starting of depillaring working.

It is also observed during the inspection that several trucks used for transportation have been parked in the forest area adjacent to the mining lease. A considerable space of the forest land is being used for the parking of vehicles unauthorizedly.

The PP has submitted and declaration stating that no show notices issued by the Chhattisgarh State Environment Conservation Board are pending against their Gayatri Underground mining lease.



Charan Jeet Singh
Scientist 'C'