

No.J-11015/35/2001-IA-II (M)
Government of India
Ministry of Environment, Forest and Climate Change
IA-II (Coal Mining) Division

Indira Paryavaran Bhawan,
Jorbagh Road, N Delhi-3
Dated: 30th November, 2017

To,

The General Manager (Environment),
M/s Western Coalfields Ltd,
Coal Estate, 9th Floor, Civil Lines,
Nagpur - 1 (Maharashtra)

Email: gmenvironment.wcl@nic.in; wclenv@yahoo.in

Sub: Expansion of Nahariya Underground Coal Mine Project from 0.36 MTPA to 0.54 MTPA of M/s Western Coalfields Limited in ML area of 300 ha located in Tehsil Parasia, District Chhindwara (Madhya Pradesh) - For amendment in EC - reg

Sir,

This has reference to your letter No WCL/HQ/Env/8-K&20-C/720-722 dated 28.08.2017 along with online proposal No.IA/MP/CMIN/8645/2001, and subsequent letters dated 21.10.2017 and 27.10.2017 on the above-mentioned subject.

2. The Ministry of Environment, Forest and Climate Change has considered the proposal for amendment in environmental clearance granted vide letter No. J-11015/35/2001-IA.II(M) dated 28th March, 2017 in favour of M/s Western Coalfields Limited for expansion of Nahariya Underground Coal Mine Project from 0.36 MTPA to 0.54 MTPA in mine lease area of 300 ha located in Tehsil Parasia, District Chhindwara (Madhya Pradesh).

3. The proposal was considered by the Expert Appraisal Committee (EAC) in the Ministry for Thermal & Coal Mining Projects in its 21st meeting held on 27th October, 2017. The EAC, has recommended for amendment in the environmental clearance dated 20th March, 2017 for the above project, in respect of certain general conditions stipulated therein, to be deleted/replaced with and now read as under:-

General Conditions

(b) Land reclamation

(i) Deleted

(ii) Deleted

(iii) Deleted

(iv) Green belt should be developed in conformity with the post mining land-use plan, which remains an integral part of the approved mining plan and the EIA/EMP submitted to this Ministry.



(c) Emission, Effluents & Waste Disposal

(iii) Adequate ambient air quality monitoring stations shall be established in the core zone as well as in the buffer zone for monitoring of pollutants namely, PM_{10} , $PM_{2.5}$, SO_2 and NO_x . Locations 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.

(iv) Crushers/feeder and breaker material transfer points should be provided with dust suppression system, if any. Belt -conveyors should be fully covered to avoid air borne dust and drills shall be wet operated or fitted with dust extractors, as applicable.

(v) Deleted

(vii) Deleted

(viii) Industrial wastewater (CHP), workshop if any, and waste water from the mine should be properly collected and treated to conform to the standards prescribed under the Environment (Protection) Act, 1986 and the Rules made there under, and as amended from time to time. Oil and grease trap should be installed before discharge of workshop effluents.

(d) Noise & vibration Control

(i) Adequate measures shall be taken for control of noise levels below 85 dB (A) in the work environment. Workers exposed to noisy environment shall be provided with ear plugs/muffs.


(ii) Deleted

(f) Biodiversity

(i) The project proponent shall take all precautionary measures during mining operations for conservation and protection of endangered fauna, if any, spotted in the study area. Action plan for conservation of flora and fauna shall be prepared and implemented in consultation with the State Forest and Wildlife Department. A copy of the Action plan, as applicable shall be submitted to the Ministry of Environment, Forest and Climate Change and its Regional Office.

4. Based on the recommendations of the EAC, the Ministry of Environment, Forest and Climate Change hereby accords approval to the proposed amendment in the environmental clearance dated 28th March, 2017 for the project 'Expansion of Nahariya Underground Coal Mine from 0.36 MTPA to 0.54 MTPA' of M/s Western Coalfields Limited in ML area of 300 ha located in Tehsil Parasia, District Chhindwara (Madhya Pradesh), in respect of general conditions, as mentioned in para 3 above.

5. All other terms and conditions stipulated in the said Environmental Clearance dated 28th March, 2017 shall remain unchanged.


30/11/2017
(S K Srivastava)
Scientist E

Copy to:

1. The Secretary, Ministry of Coal, Shastri Bhawan, New Delhi

2. The APCCF, MOEF&CC, Regional Office (EZ), E-5 Arera Colony, Bhopal – 462 016
3. The Secretary, Department of Environment & Forests, Government of Madhya Pradesh, Secretariat, Bhopal
4. The Member Secretary, Madhya Pradesh State Pollution Control Board, Paryavaran Parisar, E-5, Arera Colony, Bhopal – 462 016
5. The Member Secretary, Central Pollution Control Board, CBD-cum-Office Complex, East Arjun Nagar, Delhi -32
6. The Member Secretary, Central Ground Water Authority, Ministry of Water Resources, Curzon Road Barracks, A-2, W-3 Kasturba Gandhi Marg, New Delhi
7. The District Collector, **Chhindwara**, Government of Madhya Pradesh
8. Monitoring File 9. Guard File 10. Record File 11. Notice Board


30/11/2017
(S K Srivastava)
Scientist E

No.J-11015/35/2001-IA.II(M)pt file
Government of India
Ministry of Environment, Forest and Climate Change
IA-II (Coal Mining) Division

Indira Paryavaran Bhawan,
Jorbagh Road, N Delhi-3
Dated: 28th March, 2017

To,

The General Manager (Environment),
M/s Western Coalfields Ltd,
Coal Estate, 9th Floor, Civil Lines,
Nagpur - 1 (Maharashtra)

Email: gmenvironment.wcl@nic.in; wclenv@yahoo.in

Sub: Expansion of Naheriya Underground Coal Mine Project from 0.36 MTPA to 0.54 MTPA of M/s Western Coalfields Limited in ML area of 300 ha located in Tehsil Parasia, District Chhindwara (MP) - Environmental Clearance - reg.

Sir,

This is with reference to your application No.WCL/ENV/HQ/8-K & 20/44 dated 21.01.2016 along with the online proposal No. IA/MP/CMIN/8645/2001 dated 04.02.2016 and subsequent letter dated 08.03.2016, 14.03.2016, 17.03.2016, 05.05.2016, 06.05.2016, 09.05.2016, 18.05.2016, 17.08.2016, 23.08.2016, 20.10.2016, 23.01.2017 & 31.01.2017 on the subject matter.

2. The Ministry of Environment, Forest and Climate Change has considered the application. It is noted that the proposal is for grant of environmental clearance to the expansion of Naheriya Underground Coal Mine Project from 0.36 MTPA to 0.54 MTPA of M/s Western Coalfields Limited in the existing ML area of 300 ha located in Tehsil Parasia, District Chhindwara (Madhya Pradesh).

3. The proposal was considered by the Expert Appraisal Committee (EAC) in the Ministry for Thermal & Coal Mining Projects in its 53rd meeting held on 17-18 March, 2016, 62nd meeting held on 23-24 August, 2016 and 4th meeting held on 30-31 January, 2017. The details of the project, as per the documents submitted by the project proponent, and also as informed during the meeting, are as under:-

- (i) The project was accorded EC vide letter J-11015/35/2001-IA.II(M) dated 15.11.2002 for the production capacity of 0.36 MTPA
- (ii) It is an operating Underground coal mine.
- (iii) The latitude and longitude of the project are 22° 16'32" to 22° 12' 53" N and longitude 78° 57' 58" to 78° 59' 50" E
- (iv) Joint Venture: No
- (v) Coal Linkage: Thermal Power plants of MPPGCL and & Miscellaneous consumers.
- (vi) Employment generated / to be generated: The existing manpower at the project is 1018. Direct Manpower for the proposed expansion is 120 which is to be arranged from internal resources. In addition with the proposed expansion, 100 no's of indirect employment opportunities will also be created.
- (vii) Benefits of the project: The proposed expansion will bridge the gap between demand & availability of Coal to the extent of the mine capacity.



(viii) The land usage of the project will also be as follows:

Pre-Mining / Existing

S.No	Particular	Land (Ha)
1.	Forest Land	206.562
2.	Non-Forest Land	93.438
	Total	300.0

The mining will be carried out with due care for protection of surface land so as to maintain it as undisturbed following the statute.

(ix) The total geological reserve is 34.259 MT. The total mineable reserve is 32.603 MT, The balance extractable reserve as on 01.04.2015 is 8.50 MT. The percentage of extraction would be 38 %.

(x) The grade of coal is G6. The average Gradient is 1:11 to 1:18. There are five seams in the mine area & the details are as follows:

Description	Thickness Range (m)
V	1.19 - 3.80
Parting	0.77 – 8.85
IV	0.65 - 5.04
Parting	3.51 – 11.47
III	0.18 - 2.34
Parting	0.37 – 6.31
II	0.31 - 3.13
Parting	0.35 – 5.30
I C	0.05 - 3.43
Parting	0.35 – 7.32
I B	0.12 - 0.12

(xi) The total estimated water requirement is 444 m³/day. The level of ground water ranges from 0.70 m to 12.35 m bgl.

(xii) The method of mining would be underground with LHDs.

(xiii) The seasonal data for ambient air quality has been documented and all results at all stations are within prescribed limits.

(xiv) The balance life of mine is 15 years.

(xv) Transportation: Coal transportation is being done through Conveyor belt from incline to Coal bunkers and to Stock yard. From stock yard, coal is being transported by tippers to the Railway siding wherein coal is loaded onto wagons by pay loaders.

(xvi) There is no R & R involved. There are no PAFs.

(xvii) Cost: The additional Capital cost of the expansion proposal is Rs. 8.62 Crores. CSR cost as per extant CSR Policy 2% of last three years average net profit or Rs.2/ton of company production, whichever is higher. R & R Cost is Nil. An annual recurring cost of Rs.23.0 Lakhs / year has been provisioned as Environment cost for Environment Protection measures.

(xviii) Water body: River Gunor, Dhankasa nallah flows adjacent to mine.

(xix) Approvals: Ground water clearance is not applicable as it is not falling in critical area as per CGWA. The approval of competent authority for the expansion proposal has been obtained on 12.01.2016. Mine Closure plan was approved by WCL Board on 28.01.2013, Escrow Account has been opened and is in operation.

(xx) Wildlife issues: There are no national parks, wildlife sanctuary, biosphere reserves found in the 10km buffer zone.



(xxi) Forestry issues: Out of the total area of 300 ha, forest land involved is 206.562 ha, for which stage-I FC has been obtained on 11th April, 2001. Forest Clearance has been obtained for 206.562 ha vide letter no 8-37/2000 - FC dated 11.04.2001.

(xxii) Total afforestation plan shall be implemented covering an area of 9 ha at the end of the mining, out of which Green belt covers an area of 2 ha. Density of tree plantation 2500/ha of plants.

(xxiii) There are no court cases / violation pending.

(xxiv) The project of Nahariya U/G Coal Mine of capacity 0.36 MTPA in an area of 300 ha was accorded EC on 15th November, 2002, after the public hearing conducted on 11th August, 2001. Public Hearing is not applicable since the proposal is for consideration under u/s 7(ii) of the EIA Notification, 2006.

(xxv) The Regional office of MoEF&CC has inspected the coal mine on 28th October, 2015, and the certification has been issued on 18th November, 2015. As per the report, eco-development measures have been undertaken, in addition to subsidence monitoring and routine monitoring of environmental attributes as well as ground water levels.

(xxvi) Ambient Air quality in Nahariya Village: Nahariya Village is located about 610 m in west direction from the Nahariya U/G mine. The predominant wind direction is from north-west. Coal transportation road is about 100 m south w.r.t habitation. As such there is no impact of mining and allied activities on the ambient air quality of Nahariya village. The impact is due to local domestic & transport activities.

(xxvii) Acidic nature of mine discharge: Acidic nature of mine water is a recent phenomenon and is intermittent in nature. Presently entire mine water coming out of the mine, after sedimentation and lime dozing (whenever required) is used inside the mine premises for dust suppression (both in UG and on surface), plantation etc. The discharge outside is nil. Additionally treatment plant with lime bed and Typha plants is under construction - to be made operational by 30th May, 2016.

4. The EAC, after detailed deliberations on the proposal in the 4th Meeting on 30th -31st January, 2017 decided for exempting the proposal from the requirement of fresh ToR and fresh public hearing, and recommended the proposal for grant of Environmental Clearance. The Ministry of Environment, Forest and Climate Change hereby accords Environmental Clearance for **expansion of Nahariya Underground Coal Mine Project from 0.36 MTPA to 0.54 MTPA of M/s Western Coalfields Limited in the existing ML area of 300 ha located in Tehsil Parasia, District Chhindwara (Madhya Pradesh)** under the provisions of the Environment Impact Assessment Notification, 2006 read with subsequent amendments/circulars thereto subject to the compliance of the following terms and conditions and environmental safeguards mentioned below:-

A. Specific Conditions

(i) The maximum production from the mine at any given time shall not exceed the limit as prescribed in the EC.

(ii) The validity of the EC is for the life of the Mine or as specified in the EIA Notification, 2006, whichever is earlier.

(iii) The project proponent shall obtain Consent to Establish from the State Pollution Control Board for the proposed capacity of 0.54 MTPA prior to commencement of the increased production.

(iv) A progressive afforestation plan shall be implemented covering an area of **(9 ha)** at the end of mining which includes Green belt **(2 ha)** and in township located outside the lease by planting native species in consultation with the local DFO/Agriculture Department. The density of the trees shall be around **2500** plants per ha. Massive plantation shall be carried out in open



spaces in and around the mine and a 3-tier avenue plantation along the main approach roads to the mine.

B. General Conditions

(a) Mining

- (i) No change in mining technology and scope of work shall be made without prior approval of the Ministry of Environment, Forest and Climate Change. No change in the calendar plan including excavation, quantum of coal and waste should be made.
- (ii) Mining shall be carried out as per the approved mining plan, and also abiding by the relevant laws related to coal mining and the circulars issued by Directorate General Mines Safety (DGMS). An approved progressive Mine Closure Plan shall strictly be complied with and submitted.

(b) Land Reclamation

- (i) Digital processing of the entire lease area using remote sensing technique shall be carried out regularly once in three years for monitoring land use pattern and report submitted to Ministry of Environment, Forest and Climate Change its Regional Office.
- (ii) Final mine void depth should not be more than 40 m. The void area should be converted into water body. The remaining area should be back filled up to the ground level and covered with thick top soil. The land after mining should be restored for agriculture or forestry purpose.
- (iii) The top soil, if any, shall temporarily be stored at earmarked site(s) only and it should not be kept unutilized for long. The topsoil shall be used for land reclamation and plantation. The overburden dumps should be vegetated with suitable native species to prevent erosion and surface run off. The entire excavated area shall be backfilled and afforested in line with the approved Mine Closure Plan. Monitoring and management of rehabilitated areas should continue until the vegetation becomes self-sustaining. Compliance status shall be submitted to the Ministry of Environment, Forest and Climate Change and its Regional Office on six monthly basis.
- (iv) Greenbelt shall be developed all along the mine lease area in a phased manner. The width of the green belt along forest area should not be less than 7.5 m, and the total area covered by 3 tier green belt shall not be less than 100 ha. A 3-tier green belt comprising of a mix of native species shall be developed all along the major approach roads.

(c) Emissions, Effluents, and Waste Disposal

- (i) Transportation of coal by road should be carried out by covered trucks only. Effective 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. Fugitive dust emissions from all the sources shall be controlled regularly. It shall be ensured that the Ambient Air Quality parameters conform to the norms prescribed by the Central/State Pollution Control Board in this regard.
- (ii) Vehicular emissions shall be kept under control and regularly monitored. Project should obtain 'PUC' certificate for all the vehicles from authorized pollution testing centres.
- (iii) Adequate ambient air quality monitoring stations shall be established in the core zone as well as in the buffer zone for monitoring of pollutants, namely PM₁₀, PM_{2.5}, SO₂ 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, etc carried out at least once in six months.

(iv) Crusher/feeder and breaker material transfer points should invariably be provided with dust suppression system. Belt-conveyors should be fully covered to avoid air borne dust. Drills shall be wet operated or fitted with dust extractors.

(v) The project proponent shall not alter the major channels around the site. Appropriate embankment should be provided along the side of the river/nallah flowing near or adjacent to the mine. The embankment constructed along the river/nallah boundary should be of suitable dimensions and critical patches should be strengthened by stone pitching on the river front side and stabilised with plantation so as to withstand the peak water flow and prevent mine inundation.

(vi) Rainwater harvesting shall be implemented for conservation and augmentation of ground water resources in the area in consultation with Central Ground Water Board.

(vii) Catch drains and siltation ponds of appropriate size shall be constructed around the mine working, coal heaps and OB dumps to prevent run off of water and flow of sediments directly into the river and other water bodies. The water so collected should be utilized for watering the mine area, roads, green belt development etc. The drains shall be regularly desilted particularly after monsoon and maintained properly. Sump capacity should provide adequate retention period to allow proper settling of silt material. Dimension of the retaining wall to be constructed at the toe of the dumps and OB benches within the mine to check run-off and siltation should be based on the rainfall data.

(viii) Industrial waste water (CHP, workshop and waste water from the mine) should be properly collected and treated so as to conform to the standards prescribed under the Environment (Protection) Act, 1986 and the Rules made there under, and as amended from time to time. Oil and grease trap should be installed before discharge of workshop effluents.

(d) Noise & Vibration Control

(i) Adequate measures shall be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in blasting and drilling operations, operation of HEMM, etc shall be provided with ear plugs/muffs.

(ii) Controlled blasting techniques should be practiced with use of delay detonators to mitigate ground vibrations and fly rocks.

(e) Occupational Health & Safety

(i) Besides carrying out regular periodic health check-up of their workers, 20% of the workers identified from workforce engaged in active mining operations shall be subjected to health check-up for occupational diseases and hearing impairment, if any, through an specialised agency /institution within the District/State and the results reported to this Ministry and to DGMS.

(ii) 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. Supervisory staff shall be held responsible for ensuring compulsory wearing of dust mask.

(iii) In case of outsourcing of work through MDO, the project proponent shall ensure the strict enforcement of the above conditions.

(f) Biodiversity

(i) The project proponent shall take all precautionary measures during mining operation for conservation and protection of endangered fauna, if any, spotted in the study area. Action plan for conservation of flora and fauna shall be prepared and implemented in consultation with the State Forest and Wildlife Department. A copy of action plan shall be submitted to the Ministry of Environment, Forest and Climate Change and its Regional Office.

(g) Implementation of Action Plan as per Public Hearing and CSR Activities

(i) Implementation of Action Plan on the issues raised during the Public Hearing shall be ensured. The Project Proponent shall complete all the tasks as per the Action Plan submitted with budgetary provisions during the Public Hearing. Land oustees should be compensated as per the norms laid out R&R Policy of the Company or the National R&R Policy or R&R Policy of the State Government, whichever is higher.

(ii) The Board of every company, shall ensure that the company spends, in every financial year, at least two per cent. of the average net profits of the company made during the three immediately preceding financial years, in pursuance of its Corporate Social Responsibility Policy under Section 135 of the Companies Act, 2013, for the socio economic development of the neighbourhood.

(h) Corporate Environment Responsibility

(i) The Company should have a well laid down Environment Policy approved by the Board of Directors.

(ii) To have proper checks and balances, the Company should have a well laid down system of reporting of non-compliances/violations of environmental norms to the Board of Directors of the Company and/or shareholders or stakeholders at large.

(iii) 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.

(iv) The funds earmarked for environmental protection measures should not be diverted for other purpose. Year wise expenditure should be reported to the Ministry and its Regional Office.

(i) Statutory Obligations

(i) Environmental clearance is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court, NGT and any other Court of Law, if any, as may be applicable to the project.

(ii) This Environmental Clearance is subject to obtaining requisite NBWL Clearance from the Standing Committee of National Board for Wildlife, if any, as applicable to the project.

(iii) The project proponent shall obtain Consent to Establish and Consent to Operate from the concerned State Pollution Control Board prior to increase in capacity of washery and effectively implement all the conditions stipulated therein.

(iv) Project Proponent shall obtain the necessary prior permission from the Central Ground Water Authority (CGWA) for drawl of water (surface and ground water).

(j) Monitoring of Project

(i) 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 and Climate Change and its Regional Office, Central Ground Water Authority and Regional Director, Central Ground Water Board.

(ii) The project proponent shall submit six monthly reports on the status of the implementation of the stipulated environmental safeguards to the Ministry of Environment, Forest and Climate Change, its Regional Office, Central Pollution Control Board and State Pollution Control Board.

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

(iv) The activities pertaining to development of green belt/horticulture shall be reported to concerned Regional Office of MoEF&CC on six monthly basis from the date of commencement of mining operations.

(v) For half yearly monitoring reports, the data should be monitored for the period of April to September and October to March of the financial years and submitted to the concerned authorities within 2 months of the completion of periodicity of monitoring.

(k) Miscellaneous

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

(ii) An electronic copy of the EC letter shall be marked to the concerned State Pollution Control Board, Regional Office, District Industry Sector and Collector's Office/Tehsildar Office for information in public domain within 30 days.

(iii) The EC 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 public domain. The monitoring data of environmental quality parameter (air, water, noise and soil) and critical pollutant such as PM₁₀, PM_{2.5}, SO₂ and NO_x (ambient) and critical sectoral parameters shall also be displayed at the entrance of the project premises and mine office and in corporate office and on company's website.

(iv) 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 also at web site of the Ministry of Environment, Forest and Climate Change at www.environmentclearance.nic.in and a copy of the same should be forwarded to the Regional Office.

(v) The Environmental Statement for each financial year ending 31 March in Form-V is mandated to be submitted by the PP for 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 Offices of the MoEF&CC by e-mail.

5. The PP shall abide by all the commitments and recommendations made in the EIA/EMP report and also that during their presentation to the EAC. The commitment made by the project proponent to the issue raised during Public Hearing shall be implemented by the proponent.

6. The project proponent shall obtain all necessary clearances/approvals that may be required before the start of the project. The Ministry or any other competent authority may stipulate any further condition for environmental protection.


7. The PP shall set up an Environment Audit cell with responsibility and accountability to ensure implementation of all the EC Conditions.

8. Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this EC and attract action under the provisions of Environment (Protection) Act, 1986.

9. The above conditions will be enforced inter-alia, under the provisions 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 and any other orders passed by the Hon'ble Supreme Court of India/High Courts and any other Court of Law relating to the subject matter. The PP shall ensure to undertake and provide for the costs incurred for taking up remedial measures in case of soil contamination, contamination of groundwater and surface water, and occupational and other diseases due to the mining operations.


10. Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

11. This EC supersedes the earlier EC granted vide letter No.J-11015/35/2001-IA.II(M) dated 15th November, 2002 for a capacity of 0.36 MTPA in an area of 300 ha.


28/3/2017
(S. K. Srivastava)
Scientist E

Copy to:

1. The Secretary, Ministry of Coal, Shastri Bhawan, New Delhi
2. The Chief Conservator of Forests, Regional office (EZ), Ministry of Environment & Forests, E-2/240 Arera Colony, Bhopal – 462 016
3. The Secretary, Department of Environment & Forests, Government of Madhya Pradesh, Secretariat, Bhopal
4. The Member Secretary, Madhya Pradesh State Pollution Control Board, Paryavaran Parisar, E-5, Arera Colony, Bhopal – 462 016
5. The Member Secretary, Central Pollution Control Board, CBD-cum-Office Complex, East Arjun Nagar, Delhi -110032
6. The Member-Secretary, Central Ground Water Authority, Ministry of Water Resources, Curzon Road Barracks, A-2, W-3 Kasturba Gandhi Marg, New Delhi
7. The District Collector, **Chhindwara**, Government of Madhya Pradesh
8. Monitoring File 9. Guard File 10. Record File 11. Notice Board


28/3/2017
(S. K. Srivastava)
Scientist E

No.J.11015/35/2001-IA.II(M)
Government of India
Ministry of Environment & Forests



Paryavaran Bhawan,
C.G.O. Complex, Lodi Road,
New Delhi-110003.

Dated: 15th November 2002

To

✓ The General Manager (Env.),
M/s Western Coalfields Ltd.,
Seepat Road, P.O.No.60,
BILASPUR- 495 006.
CHHATTISGARH.

**Sub: Naheriya underground coal mine of M/s Western Coalfields Ltd.,
located in Naheriya village, Tehsil Parasia, Chindwara district, Madhya
Pradesh – ex-post-facto environmental clearance-reg.**

Sir,

This has reference to Ministry of Coal's letter No. 43011/36/2001-CPAM dated 03/12.2001 and your letters dated 18/01.2002, 11.02.2002, 24.04.2002, 20.09.2002, and 22.10.2002 on the above mentioned subject. The Ministry of Environment and Forests has examined the application. It has been noted that the mine development work started without prior approval of the ministry of Environment and Forests and has therefore violated the provisions of the EIA Notification, 1994. The total mining lease area is 300.0 ha out of which 204.95 ha is forestland. Forestry clearance has been obtained for 206.562 ha on 03.01.2001. Naheriya village is in the core zone, displacement of families from the mine is not involved. The annual targeted production capacity of the mine is 0.36 million tonnes. Approval from the State Pollution Control Board has been obtained on 05.12.2001. Public hearing was held on 11.09.2001. Water requirement of 480 m3/day (400m3/d for domestic/township usage and 80 m3/d for dust suppression) will be met from mine discharge. No solid waste will be generated. The project was approved by the Ministry of Coal on 04.06.1996. Capital cost of the project is Rs. 4617.08 lakhs.

2. The Ministry of Environment and Forests hereby accords ex-post-facto environmental clearance to the above mentioned coal mine of M/s Western Coalfields Limited for 0.36 MTA production involving lease area of 300.0 ha under the provisions of the Environment Impact Assessment Notification 1994 as amended on 04.05.1994

File
S. K. Sharma



Naheriya file

and 10.04.1997 subject to the compliance of the terms and conditions mentioned below:

A. Specific conditions

- (i) The action plan for eco-development measures around the project area including welfare measures for the local community should be prepared and submitted to the Ministry within 3 months. These measures would be in addition to measures proposed in the EMP and such measures already undertaken. The cost of such measures to be undertaken should be at least 1% of the project cost of Rs. 46.17 crores.
- (ii) Regular monitoring of subsidence movement on the surface over and around the working area and impact on natural drainage pattern, water bodies, vegetation, structures, roads, surroundings should be continued till movement ceases completely. In case of observation of any high rate of subsidence movement, appropriate effective corrective measures should be taken to avoid loss of life and material. Cracks should be effectively plugged with ballast and clayey soil, suitable material.
- (iii) 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 of Environment and Forests (MOEF) within six months.
- (iv) The project authorities should check possibility of existence of fault(s) before deciding about thickness of safe barrier required to be maintained between the working face and the river in consultation with the Director General of Mines Safety (DGMS). De-pillaring should only be carried out with prior approval of DGMS.
- (v) A green belt of adequate width should be raised by planting the local plant species along the mine boundary, waste rock dumps, roads, coal handling plant (CHP) and in selected open areas in consultation with the local DFO/Agriculture Department. Density of trees should be at least 2500 plants/ha.
- (vi) Regular monitoring of ground water level and quality should be carried out by establishing a network of existing wells and construction of 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 (Delhi) for record.
- (vii) A detailed mine decommissioning plan should be submitted to the Ministry of environment and Forests five years in advance for approval.

- (viii) Vehicular emissions should be kept under control and regularly monitored.
- (ix) ETP should be installed in the township for treatment of domestic wastes.

B. General conditions

- (i) No change in the mining technology and scope of working should be made without prior approval of the Ministry of Environment & Forests.
- (ii) No change in the calendar plan including excavation, quantum of mineral coal and waste should be made.
- (iii) Three 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 .
- (iv) Data on ambient air quality (RPM, SPM, SO_2 , & NO_x) should be regularly submitted to the Ministry including its Regional Office at Bhopal and to the State Pollution Control Board/Central Pollution Control Board.
- (v) Drills should be wet operated.
- (vi) Fugitive dust emissions from all the sources should be regularly monitored and the data recorded properly. Water spraying arrangement on haul roads, wagon loading, dump trucks (loading & unloading) should be properly provided for and properly maintained.
- (vii) Adequate measures should be taken for control of noise levels below 85dBA in the work environment. Workers engaged in blasting and drilling operations, operations of HEMM, etc. should be provided with ear plugs/muffs.
- (viii) Industrial wastewater (workshop and wastewater 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 workshop effluents.
- (ix) Acid mine water, if any, has to be treated and disposed of after conforming to the standard prescribed by the competent authority.
- (x) Environmental laboratory should be established with adequate number and type of pollution monitoring and analysis equipment in consultation with the State Pollution Control Board.

- (xi) 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.
 - (xii) 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.
 - (xiii) The funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for any other purpose. Year-wise expenditure should be reported to the Regional Office of the ministry located at Bhopal.
 - (xiv) The Regional Office shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer(s) of the regional Office by furnishing the requisite data/information/monitoring reports.
 - (xv) The project authority should inform to the Regional Office at Bhopal as well as to the MOEF regarding date of financial closures and final approval of the project by the concerned authorities and the date of start of land development work.
 - (xvi) A copy of the clearance letter will be marked to the concerned Panchayat/local NGO, if any from whom any suggestions/representation had been received while processing the proposal.
 - (xvii) The State Pollution Control Board should display a copy of the clearance letter at the Regional Office, District Industry Centre and Collector's Office/Tehsildar's Office for 30 days.
 - (xviii) The project authorities should advertise in at-least 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 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 the website of the Ministry of Environment and forests at <http://envfor.nic.in>
3. The Ministry or any other competent authority may stipulate any further condition for environmental protection.
4. Failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance.

5. The above conditions will be enforced, *inter-alia*, under the provisions 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.

(Dr.T.Chandini)
Additional Director

Copy to:

1. Secretary, Ministry of Coal, Government of India, Shastri Bhawan, New Delhi.
2. Secretary, Department of Environment & Forests, Govt. of Madhya Pradesh, Secretariat, Bhopal.
3. Chief Engineer, Coal India Ltd., Surya Kiran Building, Kasturba Gandhi Marg, New Delhi.
4. Chief Conservator of Forests (Central), Ministry of Environment & Forests, Regional Office, E-2/240 Area Colony, Bhopal- 462016.
5. Chairman, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex, East Arjun Nagar, New Delhi-110032.
6. Chairman, M.P.Pollution Control Board, Bhopal.
7. Monitoring File.
8. Guard File.
9. Record File.

(Dr.T.Chandini)
Additional Director