

Six Monthly Compliance Report of Environmental Clearance

NEW SETHIA OPENCAST MINE

[0.50 MTPA in Area of 144.453 HA]

EC No.: J-11015/452/2007-IA.II(M), Date-21.02.2017



Western Coalfields Limited
Pench Area

Po: Parasia, Chhindwara (MP)- 480441

PERIOD: 01.04.2022 to 30.09.2022

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Environment Clearance

No.J-11015/452/2007-IA.II(M)
Government of India
Ministry of Environment, Forest & Climate Change
IA-II (Coal Mining) Division

Indira Paryavaran Bhawan,
Jorbagh Road, N Delhi-3
Dated: 21st February, 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 New Sethia OCP from 0.20 MTPA to 0.50 MTPA of M/s Western Coalfields Limited with increase in mine lease area from 91.503 ha to 144.453 ha located in District Chindwara (Madhya Pradesh) - Environmental Clearance - reg.

Sir,

This is with reference to your application No.WCL/ENV/HQ/8-L/ 340 dated 31.12.2015 along with the online proposal No. IA/MH/CMIN/26250/2012 dated 31.12.2015 and subsequent letter dated 05.02.2016, 08.02.2016, 10.02.2016, 15.02.2016, 08.03.2016, 17.03.2016, 21.07.2016, 28.09.2016, 20.10.2016, 22.10.2016, 13.12.2016, 19.12.2016 & 27.12.2016 on the subject matter.

2. The Ministry of Environment, Forest & Climate Change has considered the application. It is noted that the proposal is for grant of environmental clearance to the expansion of **New Sethia Opencast Coal Mine project** from 0.20 MTPA to 0.50 MTPA of M/s Western Coalfields Limited with increase in mine lease area from 91.503 ha to 144.453 ha located in District Chindwara (Madhya Pradesh).

3. The proposal was considered by the Expert Appraisal Committee (EAC) in the Ministry for Thermal & Coal Mining Projects in its 51st meeting held on 5th February, 2016, 53rd meeting held on 17th-18th March, 2016 and then on 27th December, 2016. The details of the project, as per the documents submitted by the project proponent, and also as informed during the meeting, are reported to be as under:-

- i. TOR was accorded to the proposal vide letter No.J-11015/452/2013-IA.II(M) dated 25th February, 2014. Public hearing was conducted on 17th October, 2014 at Tehsil Parasia, District Chindwara (MP).
- ii. The earlier EC was accorded to the project vide No.J-11015/452/2007-IA.II(M) dated 19th February, 2008 for a capacity of 0.20 MTPA in an area of 91.503 ha.
- iii. The latitude and longitude of the project are 22^o12'31" to 22^o13'19" N and 78^o50'15" to 78^o51'46" E respectively.
- iv. Joint Venture: There is no Joint venture.
- v. Coal Linkage: Sarni Thermal Power Plant of MP Electricity Board.
- vi. Employment generated / to be generated: Direct Manpower for the proposal of expansion is 67. In addition with the proposed expansion, no. 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 peak capacity.

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- viii. The land usage of the project will be as follows:

Pre-Mining:

Sl. No.	Particular	Land (ha)
1.	Agricultural land	50.579
2.	Waste Land	40.924
3.	Already acquired land of company	52.95
	Total	144.453

Post- Mining:

Sl. No.	Land use	Land (ha)
1.	Plantation	43.75
2.	Water body	66.73
3.	Public Use	4.73
4.	Undisturbed/Reclaimed	29.243
5.	Total	144.453

- ix. The total geological reserve is 2.07MT. The mineable reserve 1.88 MT, extractable reserve is 1.88 MT. The per cent of extraction would be 87%.
- x. The coal grade is G7/G8. The stripping ratio is 1:5.26 cum/tonne. The average Gradient is 1 in 10 to 1 in 12. There will be five seams with thickness ranging.

Description	Thickness range (m)
Upper group of seams	
Seam - I	2.33 – 6.21
Parting	2.70 – 6.28
Seam -II	1.36 – 2.70
Parting	1.76 – 7.16
Seam - III	0.81 – 2.00
Major parting between two groups of seams	16 - 20
Lower group of seams	
Seam - IV	0.72 - 2.93
Parting	13.53 - 22.76
Seam - V	0.52 – 2.46

- xi. The total estimated water requirement is 270m³/day. The level of ground water ranges from 0.10 m to 14 m bgl.
- xii. The Method of mining would be Opencast with Shovel-Dumper Combination.
- xiii. There is no external OB dump and two internal dumps with Quantity of 9.88 Mm³ in an area of 21.60 ha.
- xiv. The final mine void would be in 66.73 Ha with depth 97 m. and the Total quarry area is 74.33 ha. Backfilled quarry area of 21.60Ha shall be reclaimed with plantation. A void of 66.73 ha with depth 97 m which is proposed to be converted into a water body.
- xv. The seasonal data for ambient air quality has been documented and all results at all stations are within prescribed limits.
- xvi. The life of mine is 5 years (balance).
- xvii. Transportation: Coal transportation in pit by Dumpers from in pit to pit head coal handling plant, Surface to Siding by Tippers to Pre-weigh Bin and loading at siding by Pay loaders.
- xviii. There is no R & R involved. There are no PAFs.
- xix. Cost: Total capital cost of the project is Rs. 2.22 Crores (additional capital). 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 is used for CSR activity. R&R Cost Nil. Environmental

- Management Cost Rs. 50 lakhs has been envisaged for Environmental protection measures.
- xx. Water body: Pench river passes at a distance of 50 mtrs from the mine site.
- xxi. Approvals: Ground water clearance not applicable as it is not falling in critical area as per CGWA, Board's approval obtained on 28.05.2012. Mining plan has been approved on 28.05.2012. Mine closure plan is an integral part of mining plan.
- xxii. Wildlife issues: There are no national Parks, wildlife sanctuary, biosphere reserves found in the 10 km buffer zone.
- xxiii. Forestry issues: no forest area involved.
- xxiv. Total afforestation plan shall be implemented covering an area of 43.75 ha at the end of mining. Green Belt over an area of 15 ha. Density of tree plantation 2500 trees/ha of plants.
- xxv. There are no court cases/violation pending with the project proponent.
- xxvi. Public Hearing was held on 17.10.2014 at Project site of New Sethia OC, Chhindwara Distt, MP The issues raised in the PH includes drinking water, water pollution, air pollution control, plantation and disposal of OB, water sprinkling & CSR works.
- xxvii. Certified EC Compliance Report: The Regional Office of MoEF&CC at Bhopal has carried out the site inspection on 22/23 August, 2016 to verify the status of compliance of EC conditions granted for New Sethia OCP 0.20 MTPA in mine lease area 91.503 ha of M/s Western Coalfields Limited in District Chindwara (Madhya Pradesh). The monitoring report was forwarded to this Ministry vide their letter No.3-16/208(Env)/375 dated 18th October, 2016, which was deliberated in the EAC meeting. The project proponent presented the action taken on each of the observations made by RO during the site visit.
- xxviii. The mine is having EC for 0.20 MTPA with ML area of 91.503 ha and also CTO (both under Air and Water Act) valid up to 18.02.2017.
- xxix. Presently, the subject mine cannot be reopened because :- The proposal is for working remaining reserves in seams (I, II, III IV, VA & VB2) through opencast method limiting to quarry area of 74.33 ha only in existing New Sethia OC mine, which involves re-handling of 2.14 Mm3 of OB taking into consideration the following:-
1. No generation of external OB dump.
 2. No dumping in the existing area.
 3. Dumping in the already de-coaled void of erstwhile Pench East OC patch which is beyond the EC area (Mine take area).
- xxx. OB management has been planned to prevent further land degradation in the following manner:
- i. No damage to fresh land for accommodation of external OB dumps.
 - ii. OB and Coal winning will be limited to 91.503 ha., which has already been approved in existing EC.
 - iii. Re-use of existing acquired land.
 - iv. No acquisition of land which ensures no issues related to land and house oustees.
 - v. No adverse impact on land.
 - vi. Further this OB management will help in reclamation of already de-coaled land.
- xxxi. The land of erstwhile worked out Pench East OC patch to be annexed to the existing EC approved mine take area for accommodating re-handled OB. The additional land to be annexed is 52.950 ha thus making the total land involvement of 144.453 ha.
1. Mine take Area - 91.503 ha
 2. Additional land to be annexed for OB - 52.950 ha
 3. Total - 144.453 ha
- xxxii. This additional land is already in possession of the company and ensures no issues related R&R.

4. The EAC, after detailed deliberations on the proposal in its meeting held on 27th December, 2016, has recommended the proposal for grant of Environmental Clearance. The Ministry of Environment, Forest and Climate Change hereby accords Environmental Clearance to the expansion of **New Sethia Opencast Coal Mine project from 0.20 MTPA to 0.50 MTPA of M/s Western Coalfields Limited with increase in mine lease area from 91.503 ha to 144.453 ha located in District Chindwara (Madhya Pradesh)** under the provisions of the Environment Impact Assessment Notification, 2006 and subsequent amendments/circulars thereto subject to the compliance of the following terms & 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 for the proposed capacity of 0.50 MTPA before enhancing the production capacity.
- (iv) Transportation of coal should be carried out by covered trucks. Adequate mitigative measures shall be undertaken to control dust and other fugitive emissions all along the roads by providing sufficient numbers of water sprinklers.
- (v) Continuous monitoring of occupational safety and other health hazards, and the corrective actions shall be ensured.
- (vi) Controlled *blasting should be adopted to control ground vibration and fly rocks.*
- (vii) A progressive afforestation plan shall be implemented covering an area of **43.75 Ha** at the end of mining, which includes reclaimed External OB dump area (**6 Ha**), Internal OB dump area (**21.60 Ha**) and Green belt (**15 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.
- (viii) An estimated total **9.88 Mm³** of OB will be generated during the entire life of the mine. There will be no external OB Dump. **9.88 Mm³** of OB will be dumped in **two** internal OB dump covering an area of **21.60 ha**. The height of internal OB dump will be upto ground level. Monitoring and management of reclaimed dump sites shall continue till the vegetation becomes self-sustaining and compliance status shall be submitted to MOEFCC and its Regional Office on yearly basis.
- (ix) Of the total quarry area of **74.33 ha**, the backfilled quarry area of **21.60 ha** shall be reclaimed with plantation and there will be no void left at the end of the mining operations. The land after mining shall be restored for agriculture purpose.

B. General Conditions

(a) Mining

- (i) No change in mining technology and scope of working should be made without prior approval of the Ministry of Environment, Forest and Climate Change.
- (ii) No change in the calendar plan including excavation, quantum of coal and waste should be made.
- (iii) Mining shall be carried out as per the provisions outlined in approved mining plan as well as by abiding to the relevant laws related to coal mining and the circulars issued by Directorate General Mines Safety (DGMS).

(iv) A progressive Mine Closure Plan duly approved by the Ministry of Coal should strictly be complied with. A compliance report in this regard shall be submitted to Regional Office/MOEF&CC every six month from the date of commencement of mining operations.

(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) The reclamation at waste dump sites shall be ecologically sustainable. Scientific reclamation shall be followed. The local species may be encouraged and species are so chosen that the slope, bottom of the dumps and top of the dumps are able to sustain these species. The aspect of the dump is also a factor which regulates some climatic parameters and allows only species adopted to that micro climate.

(iii) 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 about a meter thick top soil. The land after mining should be restored for agriculture use.

(iv) 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 over burden (OB) generated during the mining operations shall be stacked at earmarked dump site(s) only and it should not be kept active for a long period of time. The OB dumps should be scientifically vegetated with suitable native species to prevent erosion and surface run off. In critical areas, use of geo textiles shall be undertaken for stabilization of the dump. 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.

(v) Plantation shall be raised in a 7.5m wide green belt in the safety zone around the mining lease, backfilled and reclaimed area, around water body, along the roads etc. by planting the native species in consultation with the local DFO/Agriculture Department and as per CPCB Guidelines. The density of the trees should be around 2500 plants per ha. Greenbelt shall be developed all along the mine lease area in a phased manner and shall be completed within first five years.

(c) Emissions, Effluents, and Waste Disposal

(i) Effective safeguard measures such as regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of PM₁₀ and PM_{2.5} such as haul road, loading and unloading point and transfer points. 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 Pollution Control Board in this regard.

(ii) Four ambient air quality monitoring stations shall be established in the core zone as well as in the buffer zone for PM₁₀, PM_{2.5}, SO₂ and NO_x monitoring. Location of the stations shall be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets 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.

(iii) Data on ambient air quality (PM₁₀, PM_{2.5}, SO₂ and NO_x) and heavy metals such as Hg, As, Ni, Cd, Cr and other monitoring data shall be regularly submitted to the Ministry including its concerned Regional Office 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 recognised under the EPA rules, 1986 shall be furnished as part of compliance report.

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- (iv) Transportation of the coal by road passing through the village shall not be allowed. A 'bypass' road should be constructed (say, leaving a gap of at least 200 meters) for the purpose of transportation of the coal so that the impact of sound, dust and accidents could be mitigated. The project proponent shall bear the cost towards the widening and strengthening of existing public road network in case the same is proposed to be used for the Project. No road movement should be allowed on existing village road network without appropriately increasing the carrying capacity of such roads. Furthermore, transportation of coal by road should be carried out by covered trucks only. A 3-tier green belt comprising of a mix of native species shall be developed all along the major approach roads.
- (v) The pollution due to transportation load on the environment will be effectively controlled and water sprinkling will also be done regularly. Vehicular emissions shall be kept under control and regularly monitored. Project should obtain 'PUC' certificate for all the vehicles from authorized pollution testing centres.
- (vi) Main haulage road in the mine should be provided with permanent water sprinklers and other roads should be regularly wetted with water tankers fitted with sprinklers. Crusher and material transfer points should invariably be provided with Bag filters and or dry fogging system. Belt-conveyors should be fully covered to avoid air borne dust. Use of effective sprinkler system to suppress fugitive dust on haul roads and other transport roads shall be ensured. Drills shall be wet operated.
- (vii) The Project Proponent should 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.
- (viii) There shall be planning, developing and implementing facility of rainwater harvesting measures on long term basis and implementation of conservation measures to augment ground water resources in the area in consultation with Central Ground Water Board.
- (ix) The Project Proponent has to take care of gullies formed on slopes. Dump mass should be consolidated with proper filling/leveling with the help of dozer/compactors.
- (x) Sufficient number of Gullies to be provided for better management of water. 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. The drains, settling tanks and check dams of appropriate size, gradient and length shall be constructed both around the mine pit and over burden dumps to prevent run off of water and flow of sediments directly into the river and other water bodies and sump capacity should be designed keeping 50% safety margin over and above peak sudden rainfall (based on 50 years data) and maximum discharge in the area adjoining the mine site. Sump capacity should also provide adequate retention period to allow proper settling of silt material. Sedimentation pits shall be constructed at the corners of the garland drains and desilted at regular intervals. 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.
- (xi) Industrial waste water (CHP, 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 workshop effluents. Sewage treatment plant of adequate capacity shall be installed in the existing colony and offices.

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(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.

(iii) The illumination and sound at night at project sites disturb the villages in respect of both human and animal population. Consequent sleeping disorders and stress may affect the health in the villages located close to mining operations. Habitations have a right for darkness and minimal noise levels at night. PPs must ensure that the biological clock of the villages is not disturbed; by orienting the floodlights/ masks away from the villagers and keeping the noise levels well within the prescribed limits for day light/night hours.

(iv) Measures should be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in operations of Coal Handling Plants and HEMM, etc. should be provided with ear plugs / muffs.

(e) Occupational Health & Safety

(i) Proponent shall appoint an Occupational Health Specialist for Regular and Periodical medical examination of the workers engaged in the Project and maintain records accordingly; also, Occupational health check-ups for workers having some ailments like BP, diabetes, habitual smoking, etc. shall be undertaken once in six months and necessary remedial/preventive measures taken accordingly. The prevention measure for burns, malaria and provision of anti-snake venom including all other paramedical safeguards may be ensured before initiating the mining activities.

(ii) 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.

(iii) 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.

(iv) Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.

(v) In case of outsourcing of work through MDO, the project proponent shall ensure the strict compliance 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 & 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 neighborhood Habitats which could be planned in consultation with the Panchayat of the local administration, and executed by the Project Proponent more systematically based on the 'Need based door to door survey' by established Social Institutes/Workers. A report, in consonance with the format prescribed in Annexure of the Companies (Corporate Social Responsibility Policy) Rules, 2014, shall be submitted to the Ministry of Environment, Forest and Climate Change and its Regional Office on six monthly basis.

(iii) The project proponent shall follow the mitigation measures provided in Office Memorandum No.Z-11013/57/2014-IA.II (M), dated 29th October, 2014, titled "Impact of mining activities on Habitations-Issues related to the mining Projects wherein Habitations and villages are the part of mine lease areas or Habitations and villages are surrounded by the mine lease area".

(iv) The Project Proponent shall make necessary alternative arrangements, where required, in consultation with the State Government to provide alternate areas for livestock grazing, if any. In this context, Project Proponent should implement the directions of the Hon'ble Supreme Court with regard to acquiring grazing land. The sparse trees on such grazing ground, which provide mid-day shelter from the scorching sun, should be scrupulously guarded against felling and plantation of such trees should be promoted.

(h) Corporate Environment Responsibility

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

(ii) The Environment Policy should prescribe for standard operating process/procedures to bring into focus any infringements/deviation/violation of the environmental or forest norms/conditions.

(iii) The hierarchical system or Administrative Order of the company to deal with environmental issues and for ensuring compliance with the environmental clearance conditions should be displayed on website of the Company.

(iv) 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.

(v) 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.

(vi) The funds earmarked for environmental protection measures should be kept in separate account and 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 this 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 for this Mining project.

(iii) The Project Proponent shall obtain Consent to Establish and Consent to Operate from

the concerned State Pollution Control Board prior to commencement of mining operations and effectively implement all the conditions stipulated therein.

(iv) The project proponent shall obtain necessary prior permission of the competent authorities for drawl of requisite quantity of water (surface water and ground water) for the project.

(v) Project Proponent shall obtain the necessary prior permission from the Central Ground Water Authority (CGWA) in case of intersecting the Ground water table. The intersecting ground water table can only be commence after conducting detailed hydrogeological study and necessary permission from the CGWA. The Report on six monthly basis on changes in Ground water level and quality shall be submitted to the Regional Office of the Ministry, CGWA and State Pollution Control Board.

(j) Monitoring of Ambient Air & Water Quality and Reporting

(i) Monitoring of Ambient Air Quality to be carried out based on the Notification 2009, as amended from time to time by the Central Pollution Control Board. The critical parameters as per the Notification such as PM₁₀, PM_{2.5}, NO_x, and SO_x etc. in the ambient air within the impact zone, peak particle velocity at 300m distance or within the nearest habitation, whichever is closer shall be monitored periodically. Further, quality of discharged water shall also be monitored [(TDS, DO, PH and Total Suspended Solids (TSS)]. The monitored data shall be uploaded on the website of the company as well as displayed on a display board at the project site at a suitable location near the main gate of the Company in public domain. The circular No. J-20012/1/2006-IA.II (M) dated 27.05.2009 issued by Ministry of Environment, Forest and Climate Change shall also be referred in this regard for its compliance.

(ii) The Proponent shall install online Ambient Air Quality Monitoring System and there should be system for display of digital AAQ data within 03 months at least at three locations as per wind direction. Online provisions of pH and turbidity meters at discharge points of STP and ETP and also at water storage ponds in the mining area may be made. Project Proponent should display the result digitally in front of the main Gate of the mine site.

(iii) 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 project proponent shall ensure that no natural water course and/or water resources shall be obstructed due to any mining operations. 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.

(iv) Regular monitoring of the flow rate of the springs and perennial nallahs flowing in and around the mine lease shall be carried out and records maintain. The natural water bodies and or streams which are flowing in an around the village, should not be disturbed. The Water Table should be nurtured so as not to go down below the pre-mining period. In case of any water scarcity in the area, the Project Proponent has to provide water to the villagers for their use. A provision for regular monitoring of water table in open dug wall located in village should be incorporated to ascertain the impact of mining over ground water table.

(v) Regular monitoring of water quality upstream and downstream of water bodies shall be carried out and record of monitoring data should be maintained and submitted to the Ministry of Environment, Forest and Climate Change and its Regional Office, Central Ground Water Authority, Regional Director, Central Ground Water Board, State Pollution Control Board and Central Pollution Control Board.

(vi) 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.

(vii) 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.

(viii) The activities pertaining to development of green belt/ horticulture shall be reported to concerned DFO/Collector on six monthly basis from the date of commencement of mining operations.

(k) Miscellaneous

(i) 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. Similarly, the annual reports for the financial year should reach the office of the concerned authority on or before 1st June of following year.

(ii) Efforts should be made to reduce energy consumption by conservation, efficiency improvements and use of renewable energy.

(iii) The project authorities should inform to the Regional Office regarding date of financial closures and final approval of the project by the concerned authorities and the date of start of land development work.

(iv) 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.

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

(vi) A copy of the EC letter shall be shall also 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 Sector and Collector's Office/Tehsildar Office for 30 days.

(vii) 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.

(viii) 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.

(ix) 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.

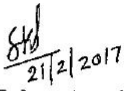
7. The PP shall set up an Environment Audit cell with responsibility and accountability to ensure implementation of all the EC Conditions.

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.

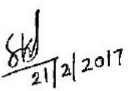
10. Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

11. This EC supersedes the earlier EC granted vide letter No.J-11015/452/2007-IA.II (M) dated 19th February, 2008 for a capacity of 0.20 MTPA in an area of 91.503 ha.


21/2/2017
(S. K. Srivastava)
Scientist E

Copy to:

1. The Secretary, Ministry of Coal, New Delhi.
2. The Chief Conservator of Forests, Regional office (EZ), Ministry of Environment & Forests, E-2/240 Arera Colony, Bhopal – 462016.
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 – 462016.
5. The Member Secretary, Central Pollution Control Board, CBD-cum-Office Complex, East Arjun Nagar, New 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, **Chindwara**, Government of Madhya Pradesh.
8. Monitoring File 9. Guard File 10. Record File 11. Notice Board


21/2/2017
(S. K. Srivastava)
Scientist E

EC Compliance Report

EC Compliance Report

EC letter No. J-11015/452/2007 – IA.II (M) Dt. 19.02.2008. EC enhanced from 0.20 MTPA to 0.50 MTPA vide letter No. J-11015/452/2007-IA.II(M) dated 21.02.2017

Sr. No	Conditions	Compliances
Specific Conditions		
1	The maximum production from the mine at any given time shall not exceed the limit as prescribed in the EC.	Noted.
2	The validity of the EC is for the life of the Mine or as specified in the EIA notification, 2006, whichever is earlier.	Seen.
3	The project proponent shall obtain Consent to Establish for the proposed capacity of 0.50 MTPA before enhancing the production capacity.	Obtained vide CTE-46786 dated 14.03.2017.
4	Transportation of coal should be carried out by covered trucks. Adequate mitigative measures shall be undertaken to control dust and other fugitive emissions all along the roads by providing sufficient numbers of water sprinklers.	Transportation of coal is done with proper covering of laden coal on the truck by tarpaulin. The road is blacktopped all along.
5	Continuous monitoring of occupational safety and other health hazards, and the corrective actions shall be ensured.	Periodical medical examination of all the mine workers done every 5 years upto the age of 45 years. For persons above 45 years, the medical examination done every 3 years. Corrective measure is taken in case of any adverse report.
6	Controlled blasting should be adopted to control ground vibration and fly rocks.	Complied.
7	A progressive afforestation plan shall be implemented covering an area of 43.75 Ha at the end of the mining, which includes reclaimed External OB dump area (6 Ha), Internal OB dump area (21.60 Ha) and Green Belt (15 Ha) and in township located outside the lease by planting native species in consultation	Till now plantation on internal OB dump area is 19.0 ha and on external OB dump is 9.0 ha. At the end of the mining plantation covering an area of 47.75ha will be achieved.

	with 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.	
8	An estimated total 9.88 Mm ³ of OB will be generated during the entire life of the mine. There will be no external OB Dump. 9.88Mm ³ of OB will be dumped in two internal OB dump covering an area of 21.60 ha. The height of internal OB dump will be up to ground level. Monitoring and management of reclaimed dump sites shall be continued till the vegetation becomes self-sustaining and compliance status shall be submitted to MoEF&CC and its Regional Office on yearly basis.	All the generated OB is being dumped internally. After the completion of OB dump, plantation will be done.
9	Of the total quarry area of 74.33 ha, the backfilled quarry area of 21.60 ha shall be reclaimed with plantation and there will be no void left at the end of the mining operations. The land after mining shall be restored for agriculture purpose.	Till now backfilled OB area is 19.0 ha. Plantation on this reclaimed area has been done.
General Conditions		
	Mining	
1	No change in mining technology and scope of working should be made without prior approval of the Ministry of Environment, Forest and Climate Change.	Noted.
2	No change in the calendar plan including excavation, quantum of coal and waste should be made.	Noted.
3	Mining shall be carried out as per the provisions outlined in approved mining plan as well as by abiding to the relevant laws related to coal mining and the circulars issued by Directorate General Mines Safety (DGMS).	Complied.
4	A progressive Mine Closure Plan duly approved by the Ministry of Coal should	Mine closure plan is duly approved by the board of the

	strictly be complied with. A compliance report in this regard shall be submitted to Regional Office/MoEF&CC every six month from the date of commencement of mining operations.	company. Compliance report of the same is submitted to the regional office of MoEF&CC every six months.
	Land Reclamation	
1	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.	It is done by CMPDIL, Ranchi.
2	The reclamation at waste dump sites shall be ecologically sustainable. Scientific reclamation shall be followed. The local species may be encouraged and species are so chosen that the slope, bottom of the dumps and top of the dumps are able to sustain these species. The aspect of the dump is also a factor which regulate some climatic parameters and allows only species adopted to that micro climate.	The plantation on backfilled OB area or OB dump top or slope or plane area is done by M.P.R. V.V.N. Ltd. They are the expert in this field and they select the species most suitable to the local climate.
3	Final mine void depth should not be more than 40m. The void area should be converted into water body. The remaining area should be back filled up to ground level and converted with thick top soil. The land after mining should be restored for agriculture use.	Noted.
4	The top soil, if any, shall temporarily be stored at earmarked site(s) only and it should not be kept unutilized for long. The top soil shall be used for land reclamation and plantation. The over burden (OB) generated during the mining operations shall be stacked at earmarked dump site(s) only and it should not be kept active for a long period of time. The overburden dumps should be scientifically vegetated with suitable native species to prevent erosion and surface run off. In critical areas, use	The top soil has been stored separately. After the OB dump is complete, this soil will be spread over it and plantation will be done. All the OB generated is being backfilled on the earmarked place. Compliance status is submitted to the MoEF&CC and to its Regional Office every six months.

	<p>of geo textiles shall be undertaken for stabilization of the dump. 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. Compliances status shall be submitted to the Ministry of Environment, Forest and Climate Change and its Regional Office on six monthly basis.</p>	
5	<p>Plantation shall be raised in a 7.5m wide green belt in the safety zone around the mining lease, backfilled and reclaimed area, around water body, along the roads etc. by planting the native species in consultation with the local DFO/Agriculture Department and as per CPCB guidelines. The density of the trees should be around 2500 plants per ha. Greenbelt shall be developed all along the mine lease area in a phased manner and shall be completed within first five years.</p>	<p>Plantation has been done on the backfilled area and all along the water body which has been created by mining operation. This water body is used by locals for agriculture purpose. Plantation by the side of the road is also done.</p>
<p>Emissions, Effluents and Waste Disposal</p>		
1	<p>Effective safeguard measures such as regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of PM10 and PM2.5 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 Pollution Control Board in this regard.</p>	<p>Mobile water tanker is used for spraying of water on the haul road. Fixed type of sprinklers have been installed at loading and unloading points. Ambient Air Quality parameter is analysed every fortnight and the result is within prescribed norms.</p>
2	<p>Four ambient air quality monitoring stations shall be established in the core zone as well as buffer zone for PM10, PM2.5, SO2 and NOx monitoring. Location of the stations shall be decided based on the meteorological data,</p>	<p>Four monitoring stations have been established in consultation with State Pollution Control Board. PM10, PM2.5, SO2 and NOx monitoring is done every fortnight. Monitoring of heavy</p>

	<p>topographical features and environmentally and ecologically sensitive targets in consultation with State Pollution Control Board.</p> <p>Monitoring of heavy metals such as Hg, As, Ni, Cd, Cr, etc. carried out at least once in six months.</p>	<p>metals is done every six months.</p>
3	<p>Data on ambient air quality (PM10, PM2.5, SO2 and NOx) and heavy metals such as Hg, As, Ni, Cd, Cr and other monitoring data shall be regularly submitted to the Ministry including its concerned Regional Office and to the State Pollution Control Board and the Central Pollution Control Board once in six months. Random verifications of samples through analysis from independent laboratories recognised under the EPA rules, 1986 shall be furnished as part of compliance report.</p>	<p>Data is submitted regularly to the authorities every six months. Monitoring is done by CMPDIL, Nagpur.</p>
4	<p>Transportation of the coal by road passing through the village shall not be allowed. A 'bypass' road should be constructed (say, leaving a gap of at least 200 meters) for the purpose of transportation of the coal so that the impact of sound, dust and accidents could be mitigated. The project proponent shall bear the cost towards the widening and strengthening of existing public road network in case the same is proposed to be used for the project. No road movement should be allowed on existing village road network without appropriately increasing the carrying capacity of such roads. Furthermore, transportation of coal by road should be carried out by covered trucks only. A 3-tier green belt comprising of a mix of native species shall be developed all along the major approach roads.</p>	<p>The transportation road does not pass through any village. The coal laden on truck is properly and effectively covered with tarpaulin. Some plantation has been done by the sides of the transport road. Due to less space available, 3 –tier plantation could not have been done.</p>
5	<p>The pollution due to transportation load on the environment will be effectively controlled and water sprinkling will also</p>	<p>The transport road is RCC or blacktopped. All the trucks/tippers used for coal</p>

	be done regularly. Vehicular emission shall be kept under control and regularly monitored. Project should obtain 'PUC' certificate for all the vehicles from authorized pollution testing centers.	transportation have valid PUC certificate.
6	Main haulage road in the mine should be provided with permanent water sprinklers and other roads should be regularly wetted with water tankers fitted with sprinklers. Crusher and material transfer points should invariably be provided with Bag filters and or dry fogging system. Belt-conveyors should be fully covered to avoid air borne dust. Use of effective sprinkler system to suppress fugitive dust on haul roads and other transport roads shall be ensured. Drills shall be wet operated.	There is no haulage system in the mine. Mobile tanker is used for wetting haul roads. There is no crusher in the mine. There is no belt conveyer.
7	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.	Noted. Embankment against Pench River is as per DGMS norm. Stone pitching of embankment is not required.
8	There shall be planning, developing and implementing facility of rainwater harvesting measures on long term basis and implementation of conservation measures to augment ground water resources in the area in consultation with Central Ground Water Board.	Some 14 ha of the mined-out area has not been backfilled. This is serving as water reservoir. This water reservoir helps in maintaining ground water level.
9	The Project Proponent has to take care of gullies formed on slopes. Dump mass should be consolidated with proper filling/levelling with the help of dozer/compactors.	Noted. It is regularly complied.
10	Sufficient number of Gullies to be	Garland drains have been cut all

	<p>provided for better management of water. 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 river and other water bodies. The water so collected should be utilized for watering the mine area, roads, green belt development etc. The drains, settling tanks and check dams of appropriate size, gradient and length shall be constructed both around the mine pit and over burden dumps to prevent run off of water and flow of sediments directly into the river and other water bodies and sump capacity should be designed keeping 50% safety margin over and above peak sudden rainfall (based on 50 years data) and maximum discharge in the area adjoining the mine site. Sump capacity should also provide adequate retention period to allow proper settling of silt material. Sedimentation pits shall be constructed at the corners of the garland drains and desilted at regular intervals. 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 eased on the rainfall data.</p>	<p>around the mine. There is no external OB dump, so no catch drain around the OB dump. Mine water first settles in the mine sump from where it is used for internal purpose like dust suppression, fire-fighting, green belt etc.</p>
11	<p>Industrial waste water (CHP, workshop and waste water from 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 effluent. Sewage treatment plant of adequate capacity shall be installed in the existing colony and offices.</p>	<p>There is no workshop or CHP. There is no specific colony earmarked for this mine. Mostly workmen are residing at Shivpuri Colony, where STP is functioning.</p>
<p>Noise & Vibration Control</p>		

1	Adequate measures shall be taken for control of Noise levels below 85dBA in the work environment. Workers engaged in drilling and blasting operations, operation of HEMM, etc shall be provided with ear plugs/muffs.	Noise level is measured every fortnight. It is for below 85 dBA. However, people engaged in blasting, drilling have been given ear muffs. Noise level report is that to the concerned authorities every six months.
2	Controlled blasting techniques should be practiced with use of delay detonators to mitigate ground vibrations and fly rocks.	Implemented.
3	The illumination and sound at night at project sites disturb the villages in respect of both human and animal population. Consequent sleeping disorders and stress may affect the health in the villages located close to mining operations. Habitations have a right for darkness and minimal noise level at night. PPs must ensure that the biological clock of the villages is not disturbed; by orienting the floodlights/ masks away from the villagers and keeping the noise levels well within the prescribed limits for day light/night hours.	There is no village so close to the mine to have any adverse effect of mining.
4	Measures should be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in operations of Coal Handling plants and HEMM, etc. should be provided with ear plugs/muffs.	The noise level is within 85 dBA. There is no coal handling plant. However, workers engaged in HEMM are provided ear plugs/muffs.
Occupational Health & Safety		
1	Proponent shall appoint an Occupational Health Specialist for Regular and Periodical medical examination of the workers engaged in the project and maintain records accordingly; also, occupational health check-ups for workers having some ailments like BP, diabetes, habitual smoking, etc. shall be undertaken once in six months and necessary remedial/preventive measures taken accordingly. The prevention measures for burns, malaria and	Periodical Medical Examination of workmen is done every 5 years. When age cross 45 years, this examination is done every 3 years. Health awareness talk is given every day during safety talk. There is well established hospital which caters the need of all the mines of the area.

	provision of anti-snake venom including all other paramedical safeguards may be ensured before initiating the mining activities.	
2	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 specialized agency/institution within the District/State and the results reported to this Ministry and to DGMS.	The periodical medical examination covers check-up for occupational diseases also 1/5 th or 20% workmen is checked every year.
3	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 shall be held responsible for ensuring compulsory wearing of dust mask.	Persons working in drill and loading machines have been provided dust mask. Training of 20% of workmen is given at vocational training centre.
4	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	Mine is not a constructing company. Hence not applicable.
5	In case of outsourcing of work through MOD, the project proponent shall ensure the strict compliance enforcement of the above conditions.	Noted.
	Biodiversity	
1	The project proponent shall take all precautionary measures during mining operation for conservation and protection of endangered fauna, if any, spotted in the study. 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	Not applicable as there is no endangered fauna.

	the ministry of Environment, Forest and Climate Change and its Regional Office.	
	Implementation of Action Plan as per Public Hearing and CSR Activities	
1	Implementation of Action Plan on the issues raised in 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.	There were only two major demand raised during public hearing. One is construction of approach road to village and another is providing electricity to the village temple. Both have been done. There is no further acquisition of land in the EC (expansion).
2	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 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 Habitats which could be planned in consultation with the panchayat of the local administration, and executed by the Project proponent more systematically based on the 'Need based door to door survey' by established Social Institutes/Workers. A report, in consonance with the format prescribed in Annexure of the companies (Corporate Social Responsibility Policy) Rules, 2014, shall be submitted to the Ministry of Environment, Forest and Climate Change and its Regional Office on six monthly basis.	The company as a whole spends not less than 2% of the average net profit of the company on CSR works. The expenditure details of the mine is submitted six monthly to the said authorities. Although the mine runs in loss, still CSR fund is allotted from Company HQ.
3	The project proponent shall follow the mitigation measures provided in office Memorandum No. Z-11013/57/2014-IA.II (M), dated 29 th October, 2014, titled "Impact of mining activities on	Noted.

	Habitations-issues related to the mining Projects wherein Habitations and villages are the part of mine lease areas or Habitations and villages are surrounded by the mine lease area”.	
4	The Project Proponent shall make necessary alternative arrangements, where required, in consultation with the State Government to provide alternate areas for livestock grazing, if any. In this context, project proponent should implement the directions of the Hon’ble Supreme Court with regard to acquiring grazing land. The spare trees on such grazing ground against felling and plantation of such trees should be promoted.	Not applicable as no land acquisition has been done in EC expansion.
Corporate Environment Responsibility		
1	The company should have a well laid down Environment Policy approved by the Board of Directors.	The project Report and Mine Closure Report of every mine is approved by the Board of Directors.
2	The Environment Policy should prescribe for standard operating process/procedures to bring into focus any infringements/deviation/violation of the environmental or forest norms/conditions.	In case of any deviation/violation, compliance of which is beyond the reach of the mine official, it is conveyed for necessary help to higher official even up to the level of the owner of the company if needed.
3	The hierarchical system or Administrative order of the company to deal with environmental issues and for ensuring compliance with the environmental clearance conditions should be displayed on website of the company.	The hierarchical system is displayed on company website.
4	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 Boards of Directors of the Company and/or shareholders or stakeholders at large.	As in sr. no. (ii) above. The owner of the company takes the matter to the Board of Directors if needed.

5	A separate environment 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.	At mine level SAM, Manager, Civil engineer and surveyor. At area level, Area General Manager assisted by Area Nodal Officer (Env), Staff Officer (Civil), Area Survey Officer and Area Planning officer. At Corporate level, the dept. is headed by General Manager (Env) who is assisted by a group of qualified engineers of different disciplines. The GM (Env) directly reports to the head of the organisation.
6	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 Ministry and its Regional Office.	The fund earmarked for Environment is kept in environment head. It is never diverted. Expenditure on environmental head is reflected in six monthly report.
Statutory Obligations		
1	Environment clearances is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble NGT and any other court of law, if any, as may be applicable to this project.	Noted.
2	This Environmental Clearance is subjected to obtaining requisite NBWL clearance from the standing committee of National Board for Wildlife, if any, as applicable to the project.	Not applicable.
3	The project proponent shall obtain Consent to Establish and Consent to Operate from the concerned State Pollution Control Board prior to commencement of mining operations and effectively implement all the conditions stipulated therein.	CTE obtained vide. No. CTE-46786 dated 14.03.2017 and CTO obtained vide no. AW-47129 dated 27.06.2017.
4	The Project proponent shall obtain the necessary prior permission of the competent authorities for drawl of requisite quantity of water (surface and ground water) for the project.	Permission from Central Ground Water Authority has been obtained.
5	Project Proponent shall obtain the	Noted.

	<p>necessary prior permission from the Central Ground Water Authority (CGWA) in case of intersecting the Ground water table. The intersecting ground water table can only be commence after conducting detailed hydrogeological study and necessary permission from the CGWA. The Report on six monthly basis on changes in Ground water level and quality shall be submitted to the Regional Office of the Ministry, CGWA and State Pollution Control Board.</p>	
<p>Monitoring of Ambient Air & Water Quality and Reporting</p>		
1	<p>Monitoring of Ambient Air Quality to be carried out based on the Notification 2009, as amended from time to time by the Central Pollution Control Board. The critical parameters as per the Notification such as PM10, PM2.5, NO_x and SO_x etc. in the ambient air within the impact zone, peak particle velocity at 300m distance or within the nearest habitation, whichever is closer shall be monitored periodically. Further, quality of discharged water shall also be monitored [(TDS, DO, PH and Total Suspended solids (TSS)]. The monitored data shall be uploaded on the website of the company as well as displayed on a display board at the project site at a suitable location near the main gate of the company in public domain. The circular No. J-20012/1/2006-IA.II (M) dated 27.05.2009 issued by Ministry of Environment, Forest and Climate Change shall also be referred in this regard for its compliance.</p>	<p>Monitoring of ambient air and water quality is done by CMPDIL which is having NABL accredited lab. The monitoring data is uploaded on the company website. It is also made available to the field office of the mine for public domain.</p>
2	<p>The proponent shall install online Ambient Air Quality Monitoring System and there should be system for display of digital AAQ data within 03 months at least at three locations as per wind direction. Online provisions of pH and</p>	<p>The procurement of online ambient air quality monitoring system is beyond the preview of mine and area. The analysis report of air and water which is monitored fortnightly by</p>

	turbidity meters at discharge points of STP and ETP and also at water storage ponds in the mining area may be made. Project proponent should display the result digitally in front of the main gate of the mine site.	CMPDIL, show that all the parameters are within threshold limit.
3	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.	Regular monitoring of ground water level and its quality is done by CMPDIL in the manner as prescribed. The data so collected is sent yearly to the Ministry and its Regional Office, CGWA and its Regional Office and to Central Ground Water Board.
4	Regular monitoring of the flow rate of the springs and perennial nallahs flowing in and around the mine lease shall be carried out and records maintain. The natural water bodies and or streams which are flowing in and around the village, should be disturbed. The water table should be nurtured so as not to go down below the pre-mining period. In case of any water scarcity in the area, the project proponent has to provide water to the villagers for their use. A provision for regular monitoring of water table in open dug wall located in village should be incorporated to ascertain the impact of mining over ground water table.	Pench River flows at a distance of approx. 200m from the mine. Its flow is not disturbed by mining operation. Regular monitoring (four times in a year) of dug well located in the village is done by CMPDIL. As such there is no adverse impact of mining on the water table.
5	Regular monitoring of water quality upstream and downstream of water bodies shall be carried out and record for monitoring data should be maintained and submitted to Ministry of Environment, Forest and Climate	Noted. There is no discharge of water from the mine to the river.

	Change and its Regional Office, Central Ground Water Authority, Regional Director, Central Ground Water Board, State Pollution Control Board and Central Pollution Control Board.	
6	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.	The report is regularly submitted in the form of six-monthly report.
7	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.	Noted. Full co-operation is extended to the officers of the Regional Office of the ministry.
8	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.	Noted.
Miscellaneous		
1	For half yearly monitoring reports, the data should be monitored for the period 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. Similarly, the annual reports for the financial year should reach the office of the concerned authority on or before 1 st June of following year.	Complied.
2	Efforts should be made to reduce energy consumption by conservation, efficiency improvements and use of renewable energy.	Capacitors have been installed to improve power factor. Power factor is always in the range of 0.92 to 0.95. Feasibility of installing solar power is being

		explored.
3	The project authorities should inform to the Regional Office regarding date of financial closures and final approval of the project by the concerned authorities and the date of start land development work.	It is a case of EC expansion. No fresh land acquisition is involved.
4	A copy of clearance letter will be marked to concerned Panchayat/local NGO, if any, from whom suggestion/representation has been received while processing proposal.	Complied.
5	State Pollution Control Board should display a copy of the clearance letter at the Regional office, District Industry Centre and Collector's office/Tehsildar office for 30 days.	Pertain to MPPCB, Regional Office.
6	A copy of the EC letter shall be shall also 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 Sector and Collector's Office /Tehsildar office for 30 days.	Not in the preview of the Project proponent.
7	The EC letter shall be uploaded on the company's website. The compliances 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 parameter (air, water, noise & soil) and critical pollutant such as PM10, PM2.5, SO2 and NOx (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.	The EC and compliance status has been uploaded on the company website. The monitoring data also is uploaded on the company website.
8	The project authorities should advertise at least two local newspapers widely circulated, one of which shall be in the vernacular language of the locality	Published in Divya Express on 26.02.2017, and In Dainik Bhskar, Chhindwara on 26.02.2017.

	<p>concerned, within 7 days of the issue of the clearance letter informing that the project has been accorded environmental clearance and a copy of clearance letter is available with the State Pollution Control Board and also at the website 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.</p>	
9	<p>The Environmental Statement for each financial year ending 31 March in Form-V is mandated to be submitted by the project proponent 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.</p>	<p>Environment Statement in Form-V is uploaded on company website and also on the website of MPPCB.</p>

Mine Manager
New Sethia OC Mine

Sub-Area Manager
New Sethia OC Mine
RWA-CDA Sub-Area

Six Monthly Report

Western Coalfields Limited
WCL, Pench Area
Six Monthly Report
PERIOD: 01.04.2022 to 30.09.2022

PART-1

Name of the Project	New Sethia O.C. Mine
Location & Address	Sub Area Manager /Agent Rawanwara- Chhinda Sub Area C/o Chief General Manager W.C.L. PENCH AREA P.O. PRASIA 480441 Distt – Chhindwara (M.P)
Environment Clearance no & date	J-11015/452/2007-IA II(M) Date 19/02/2008. EC enhanced to 0.50 MTPA vide letter no. J-11015/452/2007-IA.II(M) DATED 21.02.2017
Period of status report	01.04.2022 to 30.09.2022
Date of submission of last report	21.04.2022
Year of Commencement of project work	Production started from 1993
Present Status of Mine	Operational.

STATUS OF LAND

Type of land	As per EMP (in ha)	ACTUAL AREA ACQUIRED
Forest	-	-
Agriculture	50.579	50.579
Waste Land	40.924	40.924
Already acquired land of company	52.950	52.950
Total	144.453	144.453

STATUS OF LEGAL COMPLIANCE

Consent to Establish (CTE)	Consent No. CTE-46786 dt. 14.03.2017
Consent to Operate (CTO)	Consent No. AW-55532 dt. 01.04.2022, Valid up to 31.05.2023
Environment Statement	Environment Statement for 2021-22 uploaded on XGN portal.
Forest Clearance	Not applicable

PART-II

AIR POLLUTION CONTROL		STATUS OF ENVIRONMENT
A	No of Ambient Air Monitoring Station	4
B	Name of the location	1. Sub Area Manager Office 2. New Sethia O.C. Mine. 3. Chhinda Village 4. Colony Chhinda
C	Ambient Air Quality Status for the Average 95% time Weighted values Parameters Prescribed by state Pollution Control Board.	Monitoring report from April, 2022 to September, 2022 are enclosed.

** Detailed Report of Sampling & Analysis of Ambient Air Quality as per the Statute of Standard & by Approved laboratory are enclosed.

WATER POLLUTION CONTROL

A	No. Stations & Frequency of monitoring	01
B	Description of Locations	Mine water discharge point
C	Average concentration of Major Pollutants prescribed by State Pollution Board/Environment protection amendment rule 2000	Within TLV
D	Quantity of effluent discharge to Local Water Course from each source (in m ³)/day	Dry season - nil Wet Season - nil

** Detailed Report of Sampling & Analysis of Water Quality as per the Statute of Standard & by Approved laboratory are enclosed.

NOISE POLLUTION CONTROL

A	No. of Noise monitoring station	02 Nos.	
B	* Description of location and db(A) values	Day-dB (A)	Night-dB(A)
1	Location near Manager Office	Enclosed	enclosed
2	Location Colony (Chinda)	Enclosed	enclosed
	Noise level standard as per environment (protection) Amendment Rules 2000.	75 dB (A)	70 dB (A)

** Detailed Report of sampling & Analysis of Noise Level as per the Statute of Standard & by Approval laboratory are enclosed.

PART III

STATUS OF IMPLEMENTATION OF PROVISIONS OF EMP.

SL.NO.	PARTICULARS	Progressive upto 2021-22
1	Area Excavated, broken area (Hac.)	74.00 ha.
2	Top Soil removed (MM3)	–
3	Overburden Removed (MM3)	165,00,679 cubic meter
4	Overburden Back filled (MM3)	134,89,679 cubic meter
5	Overburden Externally Dumped (MM3)	30,11,000 cubic meter
6	Area Recovered for physical reclamation	34.00 ha.
7	Area Reclaimed Biologically	19.00 ha.
8	Annual Production	0.50 Million Tonne Per Year
9.	Coal Production (2021-22)	Target: 30,000 Tonne Actual: 31647 Tonne

AFFORESTATION

Location	Current Year	Progressive (nos).
OB Dumps & Embankments	Nil	6250
Safety Zone	Nil	Nil
Back Filled Areas	Nil	52550
Other Area (Plain)	Nil	6200
Total	Nil	65000
Area under Plantation (Progressive)	Nil	28.00 hac.
No.of Plants per Hac.	Nil	2,500

REHABILITATION & RESETTLEMENT

1	Project affected Population/families	Old Mine
2	No. of housed lost	NA
3	Compensation paid to acquired land	NA
4	Compensation paid to lieu of employment (2) land	NA
5	Employment given to land oustees Families affected	NA
6	Organization set up to project level (Name & Designation of Personal to be given)	

Expenditure:

Activities	2021-22	Progressive (2015-16 to till now)
Settling tank (part payment)	-	16,54,537
CTO/CTE fee	290,00	15,90,000
Water Cess	124,000	129,814
Subsidence Management / Crack Filling	-	
Environment Statement	-	-
Plantation/Green belt development	-	-
Others		9,966,653
1. Mobile water spraying	276,396	
2. Lime	-	
3. Profile sheet around coal stock yard	-	
4. Fire-fighting arrangement coal stock yard	-	
5. Retaining Wall	-	
6. Transportation Road	-	
TOTAL		13,341,004

* Budget expenditure report will publish at the end of the financial year. Hence expenditure during 2022-23 will be shown in the next six-monthly report.

**Mine Manager
New Sethia OC Mine**

**Sub-Area Manager
New Sethia OC Mine
RWA-CDA Sub-Area**

DATA SHEET

Monitoring the Implementation of Environment Safeguards
Ministry of Environment & Forest
Western Region, Regional Office, Bhopal
DATA SHEET

Sr. No.	Particulars	Details																		
1.	Project Type: RiverValley / Mining / Industry / Thermal / Nuclear/Other (Specify)	Coal Mining																		
2.	Name of the Project	New Sethia OCM																		
3.	Clearance letter (s)/OM No. and date	J-11015/452/2007-IA.II(M) dated 19.2.2008																		
4.	Location a) District b) State c) Location/Latitude/Longitude	Chhindwara Madhya Pradesh 22 ^o 12'32" – 22 ^o 13'19" N 78 ^o 50'15" – 78 ^o 51'46" E																		
5.	Address for correspondence a.) Address of concerned Chief Engineer (With Pin Code & Telephone/talex/fax numbers) b) Address of concerned Project Engineer (With Pin Code & Telephone/talex/fax numbers)	C/O Area General Manager Pench Area WCL, Parasia, Dist: Chhindewara (MP) Pin – 480441 Tel: 07161-220058 Manager New Sethia OCM at post Chhinda, Dist: Chhindwara (MP) Pin – 480441 Tel: 07161-262030																		
6.	Silent Features a.) Of the project	1. Production Capacity: 0.50 MTPA 2. Total Lease area : 144.453 ha Agriculture land : 50.579 ha Waste land (Govt. land): 40.924 ha Additional land : 52.95 ha 3. Capital Investment – 1416.72 lakhs 4. Method of mining – Opencast 5. Seam thickness: - <table border="1" data-bbox="874 1682 1469 1944"> <thead> <tr> <th>Seam</th> <th>Minimum</th> <th>Maximum</th> </tr> </thead> <tbody> <tr> <td>I</td> <td>2.33 mtr</td> <td>6.21 mtr</td> </tr> <tr> <td>II</td> <td>1.36 mtr</td> <td>2.70 mtr</td> </tr> <tr> <td>III</td> <td>0.81 mtr</td> <td>2.00 mtr</td> </tr> <tr> <td>IV</td> <td>0.72 mtr</td> <td>2.93 mtr</td> </tr> <tr> <td>V</td> <td>0.52 mtr</td> <td>2.46 mtr</td> </tr> </tbody> </table> 6. Quality of Coal: Grade D & E (non coking)	Seam	Minimum	Maximum	I	2.33 mtr	6.21 mtr	II	1.36 mtr	2.70 mtr	III	0.81 mtr	2.00 mtr	IV	0.72 mtr	2.93 mtr	V	0.52 mtr	2.46 mtr
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V	0.52 mtr	2.46 mtr																		

	b) Of the Environment management Plan	7. Mineable reserve (Mt.): 1.88 (as on 1.4.16) 1. Large scale plantation shall be carried out within premises. 2. Frequency of air water monitoring noise will be as per EP Rules 2000 3. Controlled blasting as per DGMS norms so as to minimize the adverse effect due to ground vibrates all haul road shall be regularly sprayed with water.
7.	Breakup of the Project Area a) Submerged area: forest & Non-Forest b) Others	Total Lease area : 144.453 ha Agriculture land : 50.579 ha Waste land (Govt. land) : 40.924 ha Additional land : 52.95 ha
8.	Breakup of the project affected population with enumeration of those losing house/dwelling unit only agricultural land, both dwelling unit & agricultural land & land less labours/artisan a) SC, ST, Adivasi b) Others (Pl Indicate whether these figures are based on any scientific and systematic survey carried out give details and year of survey)	Land is already in possession, hence not applicable.
9.	Financial Detail a) Project cost as originally revised estimates and the year of price reference b) allocation made for environment management planes with item wise and year wise break up c) Benefit cost ratio/internal rate of return and the year of assessment d) Whether above includes the cost of environment management as shown in the above e) Actual expenditure incurred on the project so far f) Actual expenditure incurred on the Environment Management Plan so far	a) Rs. 1224 lakh (as originally planned) b) Rs. 6/- per tone c) 12% (2015) d) Yes e) 3.8694915 crores f) Environmental pollution control expenses will be met from a fixed provision of Rs.6/- per ton.

10	<p>Forest Land Requirement</p> <p>a) The status of approval for diversion of forest land for non forestry use</p> <p>b) The status of cleaning felling</p> <p>c) The status of compensatory afforestation, if any</p> <p>d) Comments on the viability & sustainability of compensatory afforestation programme in the light of actual field experience so far</p>	<p>Forest land not involved</p> <p>Nil</p> <p>Not applicable</p>
11	The status of clear felling in non-forest areas (such as submergence area of reservoir, approach roads) if any with quantitative information	No felling of trees.
12	<p>Status of Construction</p> <p>a) Date of commencement (Actual and/or planned)</p> <p>b) Date of completion (Actual and/or planned)</p>	Completed.
13	Reasons for the delay if the project is yet to start	Not Applicable
14	<p>Details of Site visit</p> <p>a) the dates on which the project monitored by the Regional Office on previous occasion, if any</p>	22-23 Aug, 2016

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