



Government of India
Ministry of Environment, Forest and Climate Change
(Impact Assessment Division)

To,

The GM (Mining) Environment
Western Coalfields Limited

Subject: Grant of Environmental Clearance (EC) to the proposed Project Activity under the provision of EIA Notification 2006-regarding

Sir/Madam,

This is in reference to your application for Environmental Clearance (EC) in respect of project submitted to the Ministry vide proposal number IA/MP/CMIN/84545/2018 dated 11 Feb 2022. The particulars of the environmental clearance granted to the project are as below.

- | | |
|--|------------------------------|
| 1. EC Identification No. | EC23A042MP142373 |
| 2. File No. | IA-J-11015/163/2018-IA-II(M) |
| 3. Project Type | New |
| 4. Category | A |
| 5. Project/Activity including Schedule No. | 1(a) Mining of minerals |
| 6. Name of Project | TAWA-III UG |
| 7. Name of Company/Organization | Western Coalfields Limited |
| 8. Location of Project | Madhya Pradesh |
| 9. TOR Date | 08 Feb 2019 |

The project details along with terms and conditions are appended herewith from page no 2 onwards.

Date: 11/09/2023

(e-signed)
Lalit Bokolia
Scientist F
IA - (Coal Mining sector)

Note: A valid environmental clearance shall be one that has EC identification number & E-Sign generated from PARIVESH. Please quote identification number in all future correspondence.

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File No. J-11015/163/2018-IA.II(M)
Government of India
Ministry of Environment, Forest and Climate Change
(Impact Assessment Division)

Indira Paryavaran Bhawan,
Jorbagh Road, N Delhi – 3
Email: lk.bokolia@nic.in; Tel: 011-20819417

Dated: 11th September, 2023

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: Tawa III Underground Mine for a production capacity of 0.48 MTPA/ 0.60 MTPA (N/P) in land area of 207.47 by M/s Western Coalfields Limited located at Gandhigram village, Tehsil Ghoradongri, District Betul (Madhya Pradesh) – For Environmental Clearance-reg.

Sir,

This has reference to your online proposal No. IA/MP/CMIN/84545/2018 dated 16th May, 2023 for grant of Environmental Clearance to the above project.

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 project Tawa III Underground Mine for a production capacity of 0.48 MTPA/ 0.60 MTPA (N/P) in land area of 207.47 by M/s Western Coalfields Limited located at Gandhigram village, Tehsil Ghoradongri, District Betul (Madhya Pradesh).

The project/activity is covered under category 'B' of item 1(a) 'Mining of Minerals' the Schedule to the EIA Notification, 2006

3. The proposal was considered by the sectoral Expert Appraisal Committee (EAC) in its 27th meeting held during 3-4 March, 2022 and 45th Meeting on 31st May, 2023 through Video Conferencing. The details of the proposal, as ascertained from the proposal documents and as revealed from the discussions held during the meetings, are given as under:

- (i) The project area is covered under Survey of India Toposheet No. 55 J/4 (IAC Series) and is bounded by the geographical coordinates ranging from Latitude 22°09'59" N to 22°10'35" N and Longitudes 78°10'00" E to 78°11'40" E (WGS-84).
- (ii) Coal linkage of the project is proposed for MPPGCL and other miscellaneous consumer.
- (iii) There is no Joint venture formed.
- (iv) Project does not fall in the Critically Polluted Area (CPA), where the MoEF&CC's vide its OM dated 13th January 2010 has imposed moratorium on grant of environment clearance.

- (v) Employment generation: employment to 729 nos. persons will be provided from the project.
- (vi) The project is reported to be beneficial in terms of Social: The project will lead to development of roads, ancillary industries, Improvement in social & living standards by providing opportunities of direct & indirect employment to local community; Environmental: Conservation of coal. Also, it will lead to positive environmental impacts like mine water utilization, etc.; Financial: A substantial percentage of population is dependent on mining industry directly or indirectly. Because of this mining project some of the local population may take direct employment but a substantial impact will be on creation of indirect job opportunities and employment.
- (vii) This is a green field project.
- (viii) Terms of Reference granted vide J-11015/163/2018.IA-II (M) dated 08.02.2019. ToR validity extended for a period of 1 year as per MOEF&CC gazette notification vide no. S.O. 221(E) dated 18.01.2021
- (ix) Total mining lease area as per block allotment is 207.47 ha. Project Report / Mining Plan (Including Progressive Mine Closure Plan) has been approved by the WCL board vide letter WCL /BD SECTT/2018 /104 dated 01.06.2018. This Mine Closure Plan has provision of ₹ 5.0217 Crore.
- (x) The land usage pattern of the project is as follows:

Pre-mining land used details

S. No.	Land Use	Within ML Area	Outside ML Area	Total
1	Agricultural land	73.688	0.00	73.688
2	Forest land	127.466	0.00	127.466
3	Waste land/Govt. land	6.316	0.00	6.316
4	Grazing land	0.00	0.00	0.00
5	Surface water bodies	0.00	0.00	0.00
6	Settlements	0.00	0.00	0.00
7	Others (specify)	0.00	0.00	0.00
	Total	207.47	0.00	207.47

Post-Mining: Area in Ha

Sl. No	Particulars	Area (ha)
1.	Land under Surface right and All Right	7.65
2.	Land required for Underground Mining Operation	199.82

- (xi) Total geological reserve reported in the mine lease area is 17.602 MT with 17.602 MT mineable reserve. Out of total mineable reserve of 12.599 MT, 7.166 MT are available for extraction. Percent of extraction is 40%.
- (xii) 3 (three) seams with thickness ranging from 0.60 m – 2.90 m are workable. Grade of coal is G-6, gradient is 1 in 7.5 to 1 in 10.
- (xiii) Method of mining operations envisages by Board and Pillar method.
- (xiv) Life of mine is 20 years.
- (xv) The project is a greenfield underground mine.

- (xvi) Transportation of coal has been proposed by conveyors in mine pit head, from surface to consumer by Integrated Coal Transport Road.
- (xvii) 127.466 ha of forest land has been reported to be involved in the project. Approval under the Forest (Conservation) Act, 1980 for diversion of 101.62 ha of forest land for non-forestry purposes has been obtained vide MoEF&CC letter No File No. 8-12/2019-FC dated 27/10/2021 and Approval under the Forest (Conservation) Act, 1980 for diversion of 25.866 ha of forest land for non-forestry purposes has been obtained vide MoEF&CC letter No F. No. 6-MPC 001/2018-BHO/430 dated 27/05/2021
- (xviii) Satpura Reservoir, Pachmadi Bio Reserve, Pench – Satpura Tiger corridor, Melghat – Satpura Tiger Corridor fall within 10 km boundary of the project.
- (xix) Wildlife conservation plan with respect to Schedule-I species prepared for a total provision of Rs 1,59,25,000.0 and has been submitted to MP State (DFO) vide our letter no. WCL/PKD/AGM/PLG/2022/584-A dated 09.02.2022.
- (xx) The ground water level has been reported to be varying between 2.10m to 15.40m during pre-monsoon and between 0.80m to 12.90m during post-monsoon. Total water requirement for the project is 100 KLD.
- (xxi) The NOC has been obtained from CGWA, New Delhi with reference no. CGWA/NOC/MIN/ORIG/2022/14067 on 17/12/2021 valid upto 16/12/2023
- (xxii) Public hearing for the project of 0.60 capacity in an area of 207.47 ha was conducted on 03.01.2020 at Gandhigram Village under the Chairmanship of ADM Betul. Major issues raised in the public hearing include Welfare/CSR works in surrounding villages etc. Water conservation measures like rainwater harvesting, arrangement of drinking water etc. Employment for local populace etc. Pointwise action taken report has been submitted to MPPCB officials. Latest status of compliance against the public hearing issues along with budgetary provisions and timeline has also been incorporated in the EIA-EMP report at Chapter VII.
- (xxiii) Consent to Operate: This is a green field project and Consent to Operate will be obtained after grant of EC.
- (xxiv) The nalla diversion is not envisaged in this project.
- (xxv) Ambient air quality data has been generated during October 2016 to Dec 2016 (post monsoon). Fresh baseline data has been regenerated during March 2020 to June 2020 (Pre Monsoon Season). Results are within the permissible limit. However, socio - economic data and flora fauna have been generated in the month of March'2021 for the proposed project i.e. Tawa III UG mine.
- (xxvi) Further, One season baseline data has been generated from April 2022 to June 2022 and draft EIA –EMP report has been prepared and submitted to Madhya Pradesh Pollution Control Board for issuance of Public Notice. Public Notice in local and national newspapers (namely Dainik Bhaskar, Dainik Jagarn & Navbharat) to seek comments from public has been issued on 01.01.2023. As per the letter from RO. MPPCB, no comments have been received up to 09.02.2023.
- (xxvii) No court cases, violation cases are pending against the project of the PP pertaining to Environment aspect.
- (xxviii) The project does not involve violation of the EIA Notification, 2006 and amendment issued thereunder.
- (xxix) The project does not involve R&R.
- (xxx) Total cost of the project is Rs. 140.9916 Crore. Cost of production is Rs 2469.12 per tonne,

CSR cost is Rs. 2 per tonne, R&R is not involved. Environment Management Cost is Rs 70.80 crores.

4. The proposal was considered by the sectoral Expert Appraisal Committee (EAC) in its 45th EAC meeting held on 31st May, 2023 and the committee recommended for grant of Environment Clearance. Based on recommendations of the EAC, the Ministry of Environment, Forest and Climate Change hereby accords approval of **Tawa III Underground Mine for a production capacity of 0.48 MTPA/ 0.60 MTPA (N/P) in land area of 207.47 by M/s Western Coalfields Limited located at Gandhigram village, Tehsil Ghoradongri, District Betul (Madhya Pradesh)**, under the provisions of Environment Impact Assessment Notification, 2006 and subsequent amendments/circulars thereto subject to the compliance of the following terms & conditions / specific conditions for environmental safeguards as stated below:-

- i. PP shall obtain CTE/CTO from State Pollution Control Board for 0.48/0.6 MTPA (Underground Mine).
- ii. PP shall address public hearing issues with the allocated Public hearing Budget of Rs. 280.87 Lakh and activities to be monitored by through dedicated online monitoring mechanism. The maintenance of all activities shall be covered through recurring cost of Public Hearing which will be part of CSR budget.
- iii. As proposed, PP shall implement the public hearing budget on the items given at 45.2.4 (ix) and EMP budget on the items given above at 45.2.4 (x) of 45th EAC meeting's minutes.
- iv. PP to fulfil all the commitment made in the minutes of public hearing to address the issues raised therein in a time bound manner and a progressive report to be furnished to IRO in every six monthly as compliance report
- v. PP shall implement EMP activities with allocated capital budget of Rs. 429.96 for compliance with the environmental protection and mitigation.
- vi. No wastewater to be discharged from the mine into the river and reservoir. PP must ensure that that no aquatic biodiversity and ecological impact shall arise due to mining activity
- vii. PP shall create a **"Public Grievance Redressal and Monitoring System"** for resolving any issues related to the pollution of mines and complaint has to resolve as soon as possible not beyond 30 days. In this regard, adequate awareness to be spread among the public to address their grievance to company with simple and easy manner and for which company needs to devise the mechanism. The same shall be reported to IRO within 3 months. A log book to be maintained by PP on **"Public Grievance Redressal and Monitoring System."**
- viii. PP shall construct water harvesting structure with the facility of ground water recharge facility.
- ix. PP shall ensure the employment for the Project Affected Families (PAF) on timely basis.
- x. PP shall deploy only 40 tonnes covered trucks/dumper for transportation of coal.
- xi. PP to maintain the transportation road properly to minimize the dust emission. PP to also develop pucca/concrete roads by seeking consent from the panchayat with widening of roads especially roads inter linking the villages within the study area of 10 km radius buffer zone.
- xii. PP to monitor the water quality of the ground water and surface water body located within the core zone and 5 km radius from the periphery of the mine boundary as per procedure laid down by CPCB.

- xiii. PP to install 1 continuous ambient air quality monitoring stations at suitable locations preferably village side with consultation of SPCB. The real time data so generated shall be uploaded on company website and linked it with website of CPCB & SPCB. In addition, data should also be displayed digitally at entry and exit gate of mine lease area for public display.
- xiv. PP must explore innovative technology to recover methane from gases extracted from underground mine while venting.
- xv. PP shall conduct third party audit of compliance of EC condition at an interval six months and its report shall be submitted to IRO, MoEF&CC.
- xvi. The status of mine closure activities must be included in every six months compliance report submitted to the state pollution control board and IRO.
- xvii. PP to install solar lights along the road used for transportation of minerals to avoid the accidents at night and also seek its maintenance. PP is asked to also identify the rural areas for installation of solar light with its maintenance within the study area of 10 km radius buffer zone within one year.
- xviii. PP to provide bio toilets to the villages located within the study areas within 1 year from the grant of this EC.
- xix. PP shall pay to farmers of agricultural land if there is any loss due to pollution found by concerned District Commissioner as per extent rules or norms.
- xx. PP should establish in house (at project site) environment laboratory for measurement of environment parameter with respect to air quality and water (surface and ground. A dedicated team to oversee environment management shall be setup which should comprise of Environment Engineers, Laboratory chemist and staff for monitoring of air, water quality parameters on routine basis. Any non- compliance or infringement should be reported to the concerned authority.
- xxi. PP to implement the recommendation of land subsidence study carried out for underground mine and report shall be submitted to IRO in every six monthly report.
- xxii. PP to accomplish the recruitment of a full-fledged qualified manpower with Environmental Engineer/Environment Science degree background in Environment Management Cell etc. within six months at site and same shall be reported to IRO, MoEF&CC.
- xxiii. PP shall implement Effluent Treatment Plant for wastewater generated from workshop and Sewage Treatment Plan for its colony. No untreated water shall be discharged from mine boundaries to ponds/nallah/river
- xxiv. PP to obtain the star rating as per the guidelines of Ministry of Coal.
- xxv. PP to plant additional plants with three tier plantation along the transportation route, if not completed and identified areas with consent to the gram panchayat within two years.
- xxvi. PP shall maintain at least 10 mtrs width tree plantation of broad leaves and wind break/green-shield of about 10 mts height along the boundary of coal storage yard.

4.1 The grant of environmental clearance is further subject to compliance of the Standard EC conditions as under:

(a) Statutory compliance:

- (i) The Environmental clearance shall be subject to orders of Hon'ble Supreme Court of India, Hon'ble High Courts, NGT and any other Court of Law, from time to time, and as applicable to the project
- (ii) The project proponent shall obtain forest clearance under the provisions of Forest (Conservation) Act, 1986, in case of the diversion of forest land for non-forest purpose involved in the project.
- (iii) The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.
- (iv) The project proponent shall prepare a Site-Specific Conservation Plan / Wildlife Management Plan and approved by the Chief Wildlife Warden. The recommendations of the approved Site-Specific Conservation Plan / Wildlife Management Plan shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report. (in case of the presence of Schedule-I species in the study area)
- (v) The project proponent shall obtain Consent to Establish / Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned State Pollution Control Board/ Committee.
- (vi) The project proponent shall obtain the necessary permission from the Central Ground Water Authority.
- (vii) Solid waste/hazardous waste generated in the mines needs to be addressed in accordance to the Solid Waste Management Rules, 2016 / Hazardous & Other Waste Management Rules, 2016.

(b) Air quality monitoring and preservation

- (i) 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 particulates, SO₂ and NO_x. Location of the stations shall be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive receptors in consultation with the State Pollution Control Board. Monitoring of heavy metals such as Hg, As, Ni, Cd, Cr, etc. to be carried out at least once in six months. Online ambient air quality monitoring station/stations may also be installed in addition to the regular air monitoring stations as per the requirement and/or in consultation with the SPCB
- (ii) The Ambient Air Quality monitoring in the core zone shall be carried out to ensure the Coal Industry Standards notified vide GSR 742 (E) dated 25.9.2000 and as amended from time to time by the Central Pollution Control Board. Data on ambient air quality and heavy metals such as Hg, As, Ni, Cd, Cr and other monitoring data shall be regularly reported to the Ministry/Regional Office and to the CPCB/SPCB.
- (iii) Transportation of coal, to the extent permitted by road, shall be carried out by covered trucks/conveyors. Effective control measures such as regular water sprinkling/rain gun/ mist sprinkling etc., shall be carried out in critical areas prone to air pollution with higher level of particulate matter all through the coal transport roads, loading/unloading and transfer points. Fugitive dust emissions from all 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.
- (iv) Major approach roads shall be black topped and properly maintained.

- (v) The transportation of coal shall be carried out as per the provisions and route proposed in the approved mining plan. Transportation of the coal through the existing road passing through any village shall be avoided. In case, it is proposed to construct a 'bypass' road, it should be so constructed that the impact of sound, dust and accidents could be appropriately mitigated.
- (vi) Vehicular emissions shall be kept under control and regularly monitored. All the vehicles engaged in mining and allied activities shall operate only after obtaining 'PUC' certificate from the authorized pollution testing centres.
- (vii) Coal stock pile/crusher/feeder and breaker material transfer points shall invariably be provided with dust suppression system. Belt-conveyors shall be fully covered to avoid air borne dust. Side cladding all along the conveyor gantry should be made to avoid air borne dust. Drills shall be wet operated or fitted with dust extractors.
- (viii) Coal handling plant shall be operated with effective control measures w.r.t. various environmental parameters. Environmental friendly sustainable technology should be implemented for mitigating such parameters.

(c) Water quality monitoring and preservation

- (i) The effluent discharge (mine waste water, workshop effluent) shall be monitored in terms of the parameters notified under the Water Act, 1974 Coal Industry Standards vide GSR 742 (E) dated 25.9.2000 and as amended from time to time by the Central Pollution Control Board.
- (ii) The monitoring data shall be uploaded on the company's website and displayed at the project site at a suitable location. The circular No. J-20012/1/2006-IA.11 (M) dated 27.05.2009 issued by Ministry of Environment, Forest and Climate Change shall also be referred in this regard for its compliance.
- (iii) Regular monitoring of ground water level and quality shall be carried out in and around the mine lease area by establishing a network of existing wells and constructing new piezometers during the mining operations. The monitoring of ground water levels shall be carried out four times a year i.e. pre-monsoon, monsoon, post-monsoon and winter. The ground water quality shall be monitored once a year, and the data thus collected shall be sent regularly to MOEFCC/RO.
- (iv) Monitoring of water quality upstream and downstream of water bodies shall be carried out once in six months and record of monitoring data shall be maintained and submitted to the Ministry of Environment, Forest and Climate Change/Regional Office.
- (v) Ground water, excluding mine water, shall not be used for mining operations. Rainwater harvesting shall be implemented for conservation and augmentation of ground water resources.
- (vi) The project proponent shall not alter major water channels around the site. Appropriate embankment shall be provided along the side of the river/nallah flowing near or adjacent to the mine. The embankment constructed along the river/nallah boundary shall be of suitable dimensions and critical patches shall be strengthened by stone pitching on the river front side, stabilized with plantation so as to withstand the peak water pressure preventing any chance of mine inundation.
- (vii) Garland drains (of suitable size, gradient and length) around the critical areas i.e. mine shaft and low lying areas, shall be designed keeping at least 50% safety margin over and above the peak sudden rainfall and maximum discharge in the area adjoining the mine sites. The sump

capacity shall also provide adequate retention period to allow proper settling of silt material of the surface runoff

- (viii) The water pumped out from the mine, after siltation, shall be utilized for industrial purpose viz. watering the mine area, roads, green belt development etc. The drains shall be regularly desilted particularly after monsoon and maintained properly.
- (ix) Industrial waste water from coal handling plant and mine water shall be properly collected and treated so as to conform to the standards prescribed under the Environment (Protection) Act, 1986 and the Rules made thereunder, and as amended from time to time. Oil and grease trap shall be installed before discharge of workshop effluent. Sewage treatment plant of adequate capacity shall be installed for treatment of domestic waste water.
- (x) Adequate groundwater recharge measures shall be taken up for augmentation of ground water. The project authorities shall meet water requirement of nearby village(s) in case the village wells go dry due to dewatering of mine.
- (xi) The surface drainage plan including surface water conservation plan for the area of influence affected by the said mining operations shall be prepared, considering the presence of any river/rivulet/pond/lake etc., with impact of mining activities on it, and implemented by the project proponent. The surface drainage plan and/or any diversion of natural water courses shall be as per the provisions of the approved Mining Plan/ EIA-EMP submitted to this Ministry and the same should be done with due approval of the concerned State/GoI Authority. The construction of embankment to prevent any danger against inrush of surface water into the mine should be as per the approved mining plan and as per the permission of DGMS.
- (xii) The project proponent shall take all precautionary measures to ensure reverian/ riparian ecosystem in and around the coal mine upto a distance of 5 km. A revarian /riparian ecosystem conservation and management plan should be prepared and implemented in consultation with the irrigation / water resource department in the state government.

(d) Noise and Vibration monitoring and prevention

- (i) Adequate measures shall be taken for control of noise levels below 85 dB(A) in the work environment. Workers engaged in underground mining operations, operation of HEMM, etc. shall be provided with personal protective equipments (PPE) like ear plugs/muffs in conformity with the prescribed norms/guidelines in this regard. Progress in usage of such accessories to be monitored. Adequate awareness programme for users to be conducted.
- (ii) The noise level survey shall be carried out as per the prescribed guidelines to assess noise exposure of the workmen at vulnerable points in the mine premises, and report in this regard shall be submitted to the Ministry/RO on six-monthly basis.

(e) Mining Plan

- (i) Mining shall be carried out under strict adherence to provisions of the Mines Act 1952 and subordinate legislations made there-under as applicable.
- (ii) No change in mining method *i.e.* UG to OC, calendar programme and scope of work shall be made without obtaining prior approval of the Ministry of Environment, Forests and Climate Change (MoEFCC).
- (iii) Mining shall be carried out as per the approved mining plan (including mine closure plan) abiding by mining laws related to coal mining and the relevant circulars issued by Directorate General Mines Safety (DGMS).

- (iv) Underground work place environmental conditions shall be rendered ergonomic and air breathable with adequate illumination in conformance with DGMS standards.
- (v) No mining activity shall be carried out in forest land without obtaining Forestry Clearance as per Forest (Conservation) Act, 1980 and also adhering to The Scheduled Tribes and Other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006 read with provisions of Indian Forest Act, 1927.
- (vi) Efforts should be made to reduce energy and fuel consumption by conservation, efficiency improvements and use of renewable energy.

(f) Land reclamation

- (i) Digital Survey of entire lease hold area/core zone using Satellite Remote Sensing survey shall be carried out at least once in three years for monitoring land use pattern and report in 1:50,000 scale or as notified by Ministry of Environment, Forest and Climate Change(MOEFC) from time to time shall be submitted to MOEFCC/Regional Office (RO).
- (ii) Post-mining land be rendered usable for agricultural/forestry purposes and shall be handed over to the respective State Government, as specified in the Guidelines for Preparation of Mine Closure Plan, issued by the Ministry of Coal dated 27th August, 2009 and subsequent amendments.
- (iii) Regular monitoring of subsidence movement on the surface over and around the working areas and its impact on natural drainage pattern, water bodies, vegetation, structure, roads and surroundings shall be continued till movement ceases completely. In case of observation of any high rate of subsidence beyond the limit prescribed, appropriate effective mitigation measures shall be taken to avoid loss of life and materials. Cracks should be effectively plugged in with ballast and clay soil/suitable material.
- (iv) Fly ash shall be used for external dump of overburden, backfilling or stowing of mine as per provisions contained in clause (i) and (ii) of subparagraph (8) of fly ash notification issued vide SO 2804 (E) dated 3rd November, 2009 as amended from time to time. Efforts shall be made to utilize gypsum generated from Flue Gas Desulfurization (FGD), if any, alongwith fly ash for external dump of overburden, backfilling or stowing of mines. Compliance report shall be submitted to Regional Office of MoEF&CC, CPCB and SPCB.
- (v) A separate team for subsidence monitoring and surface mitigation measures shall be constituted and continuous monitoring & implementation of mitigation measures be carried out.
- (vi) Thorough inspection of the mine lease area for any cracks developed at the surface due to mining activities below ground shall be carried out to prevent inrush of water in the mine.
- (vii) Native tree species shall be selected and planted over areas affected by subsidence.
- (viii) The project proponent shall make necessary alternative arrangements, if grazing land is involved in core zone, in consultation with the State government to provide alternate areas for livestock grazing, if any. In this context, the project proponent shall implement the directions of Hon'ble Supreme Court with regard to acquiring grazing land.

(g) Green Belt

- (i) The project proponent shall take all precautionary measures during mining operation for conservation and protection of endangered flora/fauna, if any, spotted/reported in the study area. Action plan, in this regard, if any, shall be prepared and implemented in consultation with the State Forest and Wildlife Department.

- (ii) Greenbelt, consisting of three-tier plantation, of width not less than 7.5 m, shall be developed all along the mine lease area in a phased manner. The green belt comprising of a mix of native species shall be developed all along the major approach roads/ coal transportation roads.

(h) Public hearing and Human health issues

- (i) Adequate illumination shall be ensured in all mine locations (as per DGMS standards) and monitored.
- (ii) The Project Proponent shall undertake Occupational Health survey for initial and Periodical medical examination of the workers engaged in the Project and maintain records accordingly as per the provisions of the Mines Rules, 1955 and DGMS Circulars. Besides carrying out regular periodic health check-up of their workers, 20% of the workers engaged in active mining operations shall be subjected to health check-up for occupational diseases and hearing impairment, if any.
- (iii) Personnel (including outsourcing employees) working in dusty areas shall wear protective respiratory devices and shall also be provided with adequate training and information on safety and health aspects.
- (iv) Skill training as per safety norms specified by DGMS shall be provided to all workmen including the outsourcing employees to ensure high safety standards in mines.
- (v) Effective arrangement shall be made to provide and maintain at suitable points conveniently situated, a sufficient supply of drinking water for all the persons employed.
- (vi) Implementation of Action Plan on the issues raised during the Public Hearing shall be ensured. The Project Proponent shall undertake all the tasks as per the Action Plan submitted with budgetary provisions during the Public Hearing. Land oustees shall be compensated as per the norms laid out R&R Policy of the Company/ or the National R&R Policy/ R&R Policy of the State Government, as applicable
- (vii) The project proponent shall follow the mitigation measures provided in this Ministry's OM No. Z-11013/5712014-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'.

(i) Corporate Environment Responsibility

- (i) The company shall have a well laid down environmental policy duly approved by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental / forest / wildlife norms / conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and / or shareholders / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.
- (ii) A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.
- (iii) Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in

separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six Monthly Compliance Report.

- (iv) Self-environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.

(j) Miscellaneous

- (i) The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently.
- (ii) The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.
- (iii) The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.
- (iv) The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.
- (v) The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.
- (vi) The project authorities shall inform to the Regional Office of the MOEFCC regarding commencement of mining operations.
- (viii) The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.
- (ix) The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.
- (vii) No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).
- (viii) Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.
- (ix) The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
- (x) The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
- (xi) 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.
- (xii) The above conditions shall 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, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 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.

(xiii) The proponent shall abide by all the commitments and recommendations made in the EIA/EMP report and also that during presentation to the EAC. All the commitments made on the issues raised during public hearing shall also be implemented in letter and spirit.

5. The 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. The Ministry or any other competent authority may stipulate any further condition for environmental protection.

6. Any appeal against this environmental clearance 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.

7. The coal company/project proponent shall be liable to pay the compensation against the illegal mining, if any, and as raised by the respective State Governments at any point of time, in terms of the orders dated 2nd August, 2017 of Hon'ble Supreme Court in WP (Civil) No.114/2014 in the matter of 'Common Cause Vs Union of India & others.

8. The concerned State Government shall ensure no mining operations to commence till the entire compensation for illegal mining, if any, is paid by the project proponent through their respective Department of Mining & Geology, in strict compliance of the judgment of Hon'ble Supreme Court.

9. This environmental clearance shall not be operational till such time the project proponent complies with the above said judgment of Hon'ble Supreme Court, as applicable, and other statutory requirements.

This issues with the approval of the competent Authority



(Lalit Bokolia)
Director

Copy to: -

1. The Secretary, Ministry of Coal, Shastri Bhawan, New Delhi-1
2. The Secretary, Department of Environment & Forests, Government of Madhya Pradesh, Secretariat, Bhopal.
3. Deputy Director General of Forests (C), Ministry of Env., Forest and Climate Change, Integrated Regional Office, E-5, Kendriya Paryavaran Bhawan, E-5 Arera Colony, Link Road-3, Ravishankar Nagar, Bhopal – 462016 (Madhya Pradesh)
4. Principal Chief Conservator of Forests, Head of Forest Force, Madhya Pradesh Forest Department, Sapura Bhawan, 1st Floor, Bhopal.

5. The Member Secretary, Madhya Pradesh State Pollution Control Board, ParyavaranParisar, E-5, Arera Colony, Bhopal -462 016
6. The Member Secretary, Central Pollution Control Board, CBD-cum- Office Complex, East Arjun Nagar, Delhi-32
7. The District Collector, Singrauli, Government of Madhya Pradesh
8. Monitoring File/Guard File/Record File. 9. PARIVESH Portal


(Lalit Bokolia)