



दामोदर घाटी निगम DAMODAR VALLEY CORPORATION

No. HQ/Mining/Tubed/EC/152

dated 08.04.2022

To
Ministry of Environment Forest and Climate Change,
Integrated Regional Office,
Government of India,
Bungalow No. A-2, Shyamali Colony,
Ranchi — 834002

Sub: Compliance Report on Environmental Clearance condition for Tubed Coal Mine for the period October 2021 to March 2022

Ref: Environment Clearance vide Letter No. J-11015/54/2017-IA.II(M) dated 28th April, 2020

Dear Sir,

Kindly refer to above.

As per conditions of the Environment Clearance issued by Ministry of Environment Forest and Climate Change, Government of India vide letter dated 28th April, 2020 in respect of Tubed Coal Mine of Damodar Valley Corporation, Half Yearly Compliance Report of Tubed Coal Mine from **October 2021 to March 2022** is enclosed herewith for your kind needful.

Enclosure: as above.

Yours faithfully,

08.04.22
Chief Engineer - II (Mining)

Copy to:

1. Jharkhand State Pollution Control Board, H.E.C., Dhurwa, Ranchi-834004 (Jharkhand)

डी.वी.सी. टावर्स, वीआइपी रोड, कोलकाता - ७०००५४

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Half yearly Environmental Compliance report for the period from October 2021 to March 2022

[Ref: F.No. J-11015/54/2017-IA. II (M) dated 28th April, 2020]

| A. | Specific conditions | |
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| Sl. No | Condition | Compliance |
| (i) | The project proponent shall obtain Consent to Establish/Operate from the State Pollution Control Boards for the proposed peak capacity of 6 MTPA prior to commencement of the increased production. | CTE has been issued on 28.09.2021 by Jharkhand State Pollution Control Board. |
| (ii) | Transportation of coal from Coal Handling Plant shall be through covered trucks. | Will be adhered to. |
| (iii) | To control the production of dust at source, the crusher and in-pit belt conveyors shall be provided with mist type sprinklers. | Will be adhered to. |
| (iv) | Mitigation measure shall be undertaken to control dust and other fugitive emissions all along the roads by providing sufficient water sprinklers. Adequate corrective measures shall be undertaken to control dust emissions, which would include mechanised sweeping, water sprinkling/mist spraying in haul roads and loading sites, long range misting/fogging arrangement, wind barrier wall & vertical greenery system, green belt, dust suppression arrangement at loading and unloading points, etc. 2-3 tier of native tree with broad leaves of plantation shall be carried out all along the road transportation till Ritchughuta railway station (as proposed). | Mitigative measure will be undertaken by deploying water sprinkler fitted with mist/fogging arrangement and green belt will be developed all along the periphery of the lease hold area. |
| (v) | The company shall obtain approval of CGWA for use of groundwater for mining operations at its enhanced capacity of 6 MTPA. All the stipulated in the NOC vide no' CGWA/NOC/MIN/ORIG/2019/5876 valid from 14.08.2019 to 13.08.2021 shall be complied. | No objection from CGWA has been obtained and all the condition stipulated and NOC will be complied. NOC is valid upto 13.08.2023. |
| (vi) | Continuous monitoring of occupational safety and other health hazards and the corrective actions need to be ensured. | Will be adhered to as per the norm of personal safety and health surveillance. |
| (vii) | Persons of nearby villages shall be given training on livelihood and skill development to make them employable | Persons of nearby villages shall be given training on livelihood and skill development on regular basis. |
| (viii) | To ensure health & welfare of nearby villages, regular medical camps shall be organised at least once in six months. | Will be complied with. |
| (ix) | Thick green belt of adequate width at final boundary in the down wind direction of the project site shall be developed to mitigate/check the dust pollution. No shrubs/bushes shall be planted and only trees of native species shall be planted. | Will be adhered to. |
| (x) | Efforts shall be made for utilising alternate sources of surface water, abandoned mines or else whatsoever and thus minimising the dependability on a single source. | Will be adhered to. |



| A. Specific conditions | | |
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| Sl. No | Condition | Compliance |
| (xi) | The activities and fund provisions for CER shall be made as per the guidelines issued by the ministry regarding CER on 1 st May 2018. | Fund provision will be made as per the guideline |
| (xii) | Project proponent shall obtain blasting permission from DGMS for conducting mining operation near villages and also explore deployment of rock breakers of suitable capacity in the project to avoid blasting very near to villages. There shall be no damages caused to habitation/ structures due to blasting activity. | Blasting Permission from DGMS will be taken before conducting mining operation and trial blast will be done by CIMFR. |
| (xiii) | Distance of 100 meters shall be maintained from the bank of Surkhi river (both side) during mining operation till the permission for diversion of river is obtained from concerned statutory authority. | Will be adhered to |
| (xiv) | All the recommendations of approved Wild Life Conservation Plan shall be compiled. | Will be adhered to. |
| (xv) | No transportation of coal shall be carried by road after commission of proposed railway siding near the coal mine i.e. after 36 months from the date of issue of EC. | Shall be complied |
| (xvi) | The project proponent shall comply with all the statutory requirements and judgement of Hon'ble Supreme Court dated 2nd august 2017 in Writ Petition (Civil) No 114 of 2014 in the matter of Common Cause versus Union of India and Ors. State Government shall ensure that the entire compensation levied, if any, for illegal mining paid by the Project Proponent through their respective Department in strict compliance of judgement of Hon'ble Supreme Court dated 2 nd august 2017 in Writ Petition (Civil) No 114 of 2014 in the matter of Common Cause versus Union of India and Ors. | Will be adhered to. |
| (xvii) | 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 commenced after conducting detailed hydro geological 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. | Will be complied. |



| A. | Specific conditions | |
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| Sl. No | Condition | Compliance |
| (xviii) | 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 ailments like BP, diabetes, habitual smoking, etc. shall be undertaken once in six months and necessary remedial/preventive measures taken accordingly. The Recommendation of National Institute for ensuring good occupational environment for mine workers shall be implemented; 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. | Will be adhered to as per the guideline given by the DGMS in different circular. |
| (xix) | 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" | Will be adhered to. |
| (xx) | 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 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/mask away from the villagers and keeping the noise levels well within the prescribed limits for day light/night hours. | Will be adhered to by Electric High mast tower and noise level will be kept minimum. |
| (xxi) | 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. | Will be adhered to. |
| (xxii) | Study the stability of OB dump beyond 90 m and further necessary permission for DGMS shall be taken for increasing the height of OB. Recommendation of the study shall be implemented and further submitted to Ministry's Regional Office. | Dump and Slope Stability Report has been prepared by CIMFR and recommendation will be implemented. |
| (xxiii) | Install in-pit conveyor from the pit bottom upto the silo loading point/rapid loading system within 3 years and further no transportation shall be carried over by trucks to railway siding. | Will be complied |
| (xxiv) | Necessary permission from water resources department shall be taken to dump OB for | Will be complied |



| A. | | Specific conditions |
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| Sl. No | Condition | Compliance |
| | embankment within one year of dumping OB near Sukri river. | |
| (xxv) | Hon'ble Supreme Court in an Writ Petition(s) Civil No. 114/2014. Common Cause vs Union of India & Ors vide its judgement dated 8 th January 2020 has directed the Union of India to impose a condition in the mining lease and a similar condition in the environment clearance and the mining plan to the effect that the mining lease holders shall, after ceasing mining operations, undertake re-grassing the mining area and any other area which may have been disturbed due to their mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna, etc. Compliance of this condition after the mining activity is over at the cost of the mining lease holders/Project Proponent. The implementation report of the above said condition shall be sent to the Ministry's Regional Office for site inspection/verification. | Approved Mine Closure plan by the Ministry of Coal will be implemented. |
| 5.1 | Standard EC Conditions | |
| (a) | Statutory compliance | |
| (i) | 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. | Forest Clearance Stage-II issued by Ministry of Environment Forest and Climate Change, Government of India on 28.03.2022. |
| (ii) | The project proponent shall obtain clearance from the National Board for Wildlife, if applicable. | Not applicable |
| (iii) | 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) | Wild Life Management plan has been approved by PCCF, Jharkhand. |
| (iv) | 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. | CTE has been issued on 28.09.2021 by Jharkhand State Pollution Control Board. |
| (v) | The project proponent shall obtain the necessary permission from the Central Ground Water Authority. | Central Ground Water Authority has issued NOC for abstraction of ground water valid from 14.08.2019 and valid upto 13.08.2023. |
| (vi) | Solid/ hazardous waste generated in the mines needs to addressed in accordance to the Solid Waste Management Rules, 2016/ Hazardous & Other Waste Management Rules, 2016. | Will be adhered to. |

Signature

| A. | Specific conditions | |
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| Sl. No | Condition | Compliance |
| (b) | Air quality monitoring & preservation | |
| (i) | Continuous ambient air quality monitoring station as prescribed in the statute be established in the core zone as well as in the buffer zone for monitoring of pollutants, namely PM ₁₀ , PM _{2.5} , SO ₂ , NO _x . Location of the stations shall be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets in consultation with the State Pollution Control Board. Online ambient air quality monitoring stations may also be installed in addition to the regular monitoring stations as per the requirement and/or in consultation with the SPCB. Monitoring of heavy metals such as Hg, As, Ni, Cd, Cr, etc. to be carried out at least once in six months. | Ambient air quality monitoring and Noise Level monitoring has been done by Central Laboratory of JSPCB. The report has been attached in ANNEXURE-I. |
| (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 th September, 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. | Ambient air quality monitoring and Noise Level monitoring has been done by Central Laboratory of JSPCB. The report has been attached in ANNEXURE-I. |
| (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/mist sprinkling/rain gun etc. shall be carried out in critical areas prone to air pollution (with higher values of PM ₁₀ /PM _{2.5}) such as haul road, 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. | Will be adhered to. |
| (iv) | The transportation of coal shall be carried out as per the provisions and route envisaged in the approved Mining Plan or environment monitoring plan. Transportation of 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 so that the impact of the sound, dust and accidents could be appropriately mitigated. | Will be adhered to. |
| (v) | 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 authorised pollution testing centres. | Will be adhered to. |
| (vi) | 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 | Water sprinkling system will be arranged in loading and unloading point of the belt conveyor in order to suppress air borne dust. Wet |



| A. | | |
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| Sl. No | Condition | Compliance |
| | along the conveyor gantry should be made to avoid air borne dust. Drills shall be wet operated or fitted with dust extractors. | drill machine will be operated. |
| (vii) | 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. | Not applicable |
| (c) | Water quality monitoring & 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 th September, 2000 and as amended from time to time by the Central Pollution Control Board. | Will be adhered to. |
| (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-20012/1/2006-1A.II (M) dated 27 th May, 2009 issued by Ministry of Environment, Forest and Climate Change shall also be referred in this regard for its compliance. | Will be adhered to. |
| (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. | Will be adhered to. |
| (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. | Will be adhered to. |
| (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. | Only mine water will be used for water spraying in the haul road and stockyard. |



| A. | Specific conditions | |
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| Sl. No | Condition | Compliance |
| (vi) | Catch and/or garland drains and siltation ponds in adequate numbers and appropriate size shall be constructed around the mine working, coal heaps & OB dumps to prevent run off of water and flow of sediments directly into the river and water bodies. Further, dump materials shall be properly consolidated/ compacted and accumulation of water over dumps shall be avoided by providing adequate channels for flow of silt into the drains. The drains/ponds so constructed shall be regularly desilted particularly before onset of monsoon and maintained properly. Sump capacity should provide adequate retention period to allow proper settling of silt material. The water so collected in the sump shall be utilised for dust suppression and green belt development and other industrial use. Dimension of the retaining wall constructed, if any, at the toe of the OB dumps within the mine to check run-off and siltation should be based on the rainfall data. The plantation of native species to be made between toe of the dump and adjacent field/habitation/water bodies. | Will be adhered to. Provision of garland drain around the OB dump and coal stock yard will be provided. Dumping will be done in bench formation and terrace will be provided. De-silting will be done in every year. Additional sump will be provided with larger dimension to catch all the runoff water. Retaining wall around the OB dump will be provided and plantation will be done in the dump terraces. |
| (vii) | Adequate ground water recharge measures shall be taken up for augmentation of ground water. The project authorities shall meet water requirement of nearby villages after due treatment conforming to the specific requirements (standards). | Will be adhered to. Water recharge pit will be constructed all along project boundary for recharging ground water. |
| (viii) | Industrial waste water generated from CHP, workshop and other waste water, shall be properly collected and treated so as to conform to the standards prescribed under the standards prescribed under Water Act 1974 and Environment (Protection) Act, 1986 and the Rules made there under and as amended from time to time. Adequate ETP/ STP needs to be provided. | Will be adhered to. Adequate capacity of ETP will be provided. |
| (ix) | The water pumped out from the mine, after siltation, shall be utilised 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. | Will be adhered to. |
| (x) | The surface drainage plan including surface water conservation plan for the area of influence affected by the said mining operations, considering the presence of river/rivulet/pond/lake etc. shall be prepared and implemented by the project proponent. The surface drainage plan and/or any diversion of natural water courses shall be as per the approved Mining Plan/EIA/EMP report and 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 or any other authority as prescribed by the law. | Will be complied. |



| A. | Specific conditions | |
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| Sl. No | Condition | Compliance |
| (xi) | The project proponent shall take all precautionary measures to ensure riverine/riparian ecosystem in and around the coal mine up to a distance of 5 km. A riverine/riparian ecosystem conservation and management plan should be prepared and implemented in consultation with the irrigation/ water resource department in the state government. | Will be complied. |
| (d) | Noise and Vibration monitoring and prevention | |
| (i) | Adequate measures shall be taken for control of noise levels as per Noise Pollution Rules, 2016 in the work environment. Workers engaged in blasting and drilling operations, operation of HEMM, etc. shall be provided with personal protective equipments (PPE) like ear plugs/muffs conformity with the prescribed norms and guidelines in this regard. Adequate awareness program for users to be conducted. Progress in usage of such accessories to be monitored. | Will be complied. |
| (ii) | Controlled blasting techniques shall be practised in order to mitigate ground vibrations, fly rocks, noise and air blast etc. as per the guidelines prescribed by the DGMS. | Controlled blasting techniques will be adopted as per the study report of CIMFR. |
| (iii) | 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. | Will be complied with. Adequate measure will be taken for monitoring the noise level at vulnerable points. |
| (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. | Will be adhered to. |
| (ii) | 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 Mine Safety (DGMS). | Mining will be carried as per the Approved mine plan. |
| (iii) | No mining shall be carried out in forest land without obtaining Forestry Clearance as per Forest (Conservation) Act, 1980. | Forest Clearance Stage-II issued by MoEF&CC, GoI on 28.03.2022. |
| (iv) | Efforts should be made to reduce energy and fuel consumption by conservation, efficiency improvements and use of renewal energy. | Will be complied with. |
| (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 (MOEFCC) from time to time shall be submitted to MOEFCC/ Regional Office (RO). | Will be complied |



| A. | Specific conditions | |
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| Sl. No | Condition | Compliance |
| (ii) | The final mine void depth should preferably be as per the approved Mine Closure Plan, and in case it exceeds 40 m, adequate engineering interventions shall be provided for sustenance of aquatic life therein. The remaining area shall be backfilled and covered with thick and alive top soil. Post-mining land be rendered usable for agricultural/forestry purposes and shall be diverted. Further action will be treated as specified in the guidelines for Preparation of Mine Closure Plan issued by the Ministry of Coal dated 27 th August, 2009 and subsequent amendments. | Will be complied. |
| (iii) | The entire excavated area, backfilling, external OB dumping (including top soil) and afforestation plan shall be in conformity with the "during mining" / "post mining" land use pattern, which is an integral part of the approved Mining Plan and the EIA/EMP submitted to this Ministry. Progressive compliance status vis-a-vis the post mining land use pattern shall be submitted to MOEFCC/RO. | Will be complied. |
| (iv) | Fly ash shall be used for external dump of overburden, backfilling or stowing of mine as per provision contained in clause (i) and (ii) of paragraph (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 utilise gypsum generated from Flue Gas Desulfurization (FGD), if any, along with fly ash for external dump of overburden, backfilling of mines. Compliance report shall be submitted to Regional Office of MoEF&CC, CPCB and SPCB. | Will be complied. |
| (v) | Further, it may be ensured that as per the time schedule specified in mine closure plan it should remain live till the point of utilisation. The top soil shall temporarily be stored at earmarked site(s) only and shall not be kept unutilised. The top soil shall be used for land reclamation and plantation purposes. Active OB dumps shall be stabilised with native grass species to prevent erosion and surface run off. The other over burden dumps shall be vegetated with native flora species. The excavated area shall be backfilled and afforested in line with the approved Mine Closure Plan. Monitoring and management of rehabilitated areas shall continue until the vegetation becomes self-sustaining. Compliance status shall be submitted to the Ministry of Environment. Forest and Climate Change/Regional Office. | Will be complied with and Top soil and will be stacked separately. |
| (vi) | 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 direction of Hon'ble Supreme Court with regard to | Will be complied. |



| A. | Specific conditions | |
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| Sl. No | Condition | Compliance |
| | acquiring grazing land. | |
| (g) | Green Belt | |
| (i) | The project proponent shall take all precautionary measures during mining operation for conservation and protection of endangered /endemic flora/fauna, if any, spotted/reported in the study area. The Action Plan in this regard, if any, shall be prepared and implemented in consultation with the State Forest and Wildlife Department. | Will be complied |
| (ii) | Greenbelt consisting of 3-tier plantation of width not less than 7.5m shall be developed all along the mine lease area as soon as possible. The green belt comprising mix of native species (endemic species should be given priority) shall be developed all along the major approach/coal transportation roads. | Will be complied |
| (h) | Public hearing and Human health issues | |
| (i) | Adequate illumination shall be ensured in all mine locations (as per DGMS standards) and monitored weekly. The report on the same shall be submitted to this ministry & it's RO on six-monthly basis. | Will be adhered to, mines will be illuminated by erecting high mass tower and result of testing of illumination standard will be submitted to the Ministry and Ro as stipulated in this condition. |
| (ii) | The Project proponent shall undertake occupational health survey for initial and periodical medical examination of the personnel engaged in the project and maintain records accordingly as per the provision of the Mines Rules, 1955 and DGMS circulars. Besides regular periodic health check-up, 20% of the personnel identified from workforce engaged in active mining operations shall be subjected to health check-up for occupational diseases and hearing impairment, if any, as amended time to time. | Will be adhered to and provision given in Mines rule 1955 and in different circular of DGMS will be complied with. |
| (iii) | Personnel (including outsourced employees) working in core zone shall wear protective respiratory devices and shall also be provided with adequate training and information on safety and health aspects. | All the person working in the mine will be provided with PPE as per Coal Mines Regulation. |
| (iv) | Implementation of the action plan on the issue raised during the public hearing shall be ensured. The project proponent shall undertake all the tasks/measures as per the action plan submitted with budgetary provisions during the public hearing. Land oustees shall be compensated as per norms laid down in the R&R policy of the company/State Government/Central Government as applicable. | Will be adhered to. |

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| A. | Specific conditions | |
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| Sl. No | Condition | Compliance |
| (v) | The project proponent shall follow the mitigation measures provided in this ministry's OM No. Z-11013/5712014-IA.II (M) dated 29 th 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'. | Will be adhered to. |
| (i) | Corporate Environment Responsibility | |
| (i) | The project proponent shall comply with the provisions contained in the Ministry's OM vide F.No.22-65/2017-IA.III dated 1 st May 2018, as applicable, regarding Corporate environment Responsibility. | Will be complied with. |
| (ii) | The company shall have a well laid down environmental policy duly approve 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 environmental / forest / wildlife norms/conditions and/or shareholders/ stakeholders. | Will be complied with. |
| (iii) | 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 organisation. | Will be complied. |
| (iv) | 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. | Will be adhered to. |
| (v) | Self-environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out. | Will be complied with. |
| (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 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. | Environment Clearance has been submitted to all Government official including Gram Panchayat and published in local newspaper of the state namely, Hindustan Dt.06.01.2021 |



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| Sl. No | Condition | Compliance |
| (ii) | The copies of the environmental clearance shall be submitted by the project proponents to the Head 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. | Environment Clearance has been submitted to all Government official including Gram panchayet and published in local Newspaper of the state namely, Hindustan Dt.06.01.2021 |
| (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. | Will be adhered to. |
| (iv) | The project proponent shall monitor the criteria pollutants level namely; PM ₁₀ , SO ₂ , NO _x , (ambient levels) or critical sectorial parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company. | Will be adhered to. |
| (v) | The project proponent shall submit six-monthly reports on the status of the compliance of stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal. | Will be adhered to. |
| (vi) | The project proponent shall follow the mitigation measures provided in this Ministry's OM No. Z-11013/5712014-IA.II (M) dated 29 th 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'. | Will be complied and all mitigative measure will be taken. |
| (vii) | 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. | Will be adhered to. |
| (viii) | The project authorities shall inform to the Regional Office of the MOEFCC regarding commencement of mining operations. | The project has not started yet. On commencement it will be informed to the Regional Office of MOEF&CC |
| (ix) | The project authorities must strictly adhere to the stipulation made by the State Pollution Control Board and the State Government. | All the condition that will be enforced by the State Government and State Pollution Control Board through the CTE and CTO will be complied with. |
| (x) | 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. | Will be adhered to |



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| Specific conditions | | |
| Sl. No | Condition | Compliance |
| (xi) | No further expansion or modification in the plant shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change. | Will be adhered to. |
| (xii) | Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provision of Environment (Protection) Act, 1986. | Noted |
| (xiii) | The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory. | Noted |
| (xiv) | The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions. | Noted if any additional condition is stipulated by the ministry that will be complied with. |
| (xv) | 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, the project authority will extend all cooperation to the office of the regional office by furnishing the requisite data/ information/ monitoring reports. |
| (xvi) | The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Trans-boundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by Hon'ble Supreme Court of India/ High courts and any other Court of Law relating to the subject matter. | Noted |

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JHARKHAND STATE POLLUTION CONTROL BOARD
Central Laboratory, Hatia, Ranchi, Phone: - 0651- 2291449

Ref. No.:148/21

Ranchi, Dated

R&D
AMBIENT AIR QUALITY REPORT


Name of the Industry : M/s Tubed Coal Mines, Vill.-Tubed, Mangra, Dihi,
Ambhajharan, Dhobiajharan, Nawari, Dist-Latehar
Date of Sampling : 23-24/12/2021
Weather Condition : Clear

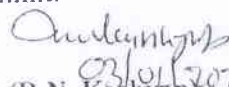
No. of Sampling Points : 3
Sampling Position :
1. Near Latehar Balumath Road
2. Near Ambhajharan
3. Near Dihi Village

| Time | SO ₂ | NO _x | RSPM |
|------------------------|-----------------|-----------------|-------|
| Point 1 | | | |
| 1.00 P.M. to 5.00 P.M. | 16.24 | 18.91 | 81.18 |
| 5.00 P.M. to 9.00 P.M. | 14.18 | 17.02 | |
| 9.00 P.M. to 1.00 A.M. | 13.01 | 16.24 | 61.24 |
| 1.00 A.M. to 5.00 A.M. | 12.92 | 14.76 | |
| Maximum | 16.24 | 18.91 | 81.8 |
| Average | 14.09 | 16.73 | 71.21 |
| Point 2 | | | |
| 1.15 P.M. to 5.15 P.M. | 15.18 | 17.18 | 80.19 |
| 5.15 P.M. to 9.15 P.M. | 15.02 | 17.24 | |
| 9.15 P.M. to 1.15 A.M. | 13.24 | 15.31 | 60.92 |
| 1.15 A.M. to 5.15 A.M. | 12.96 | 14.21 | |
| Maximum | 15.18 | 17.24 | 80.19 |
| Average | 14.10 | 15.99 | 70.56 |
| Point 3 | | | |
| 1.30 P.M. to 5.30 P.M. | 16.24 | 16.81 | 79.84 |
| 5.30 P.M. to 9.30 P.M. | 15.34 | 14.89 | |
| 9.30 P.M. to 1.30 A.M. | 14.21 | 13.91 | 60.13 |
| 1.30 A.M. to 5.30 A.M. | 12.07 | 12.17 | |
| Maximum | 16.24 | 16.81 | 79.84 |
| Average | 14.47 | 14.45 | 69.99 |

Note : All values are expressed in micro gram/cubic metre :

Remarks :- The value of all parameters were found within the prescribed limit.


(S.R. Singh)
ASO


(R.N. Kashyap)
Board Analyst





JHARKHAND STATE POLLUTION CONTROL BOARD
Central Laboratory, Mano Balram Bhawan, Hatia, Ranchi, Phone: - 0651- 2291449

Lab. Ref. No.- 148N /21


Ranchi, Dated

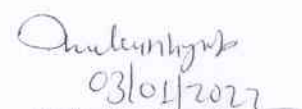
R&D

Ambient Noise Level monitoring report in LAeqdB(A) at various locations in premises of M/s. Tubed Coal Mines, Vill.-Tubed, Mangra, Dihi, Ambhajharan, Dhobiajharan, Nawari, Dist-Latehar at day time on 23/12/2021

| Sl. No. | Monitoring Location | Status of unit Operation/No n- Operation | Time Duration 10 Minute interval | Avg. Noise level LAeq/dB (A) | Prescribed limit in day time LAeqdb(A) |
|---------|-------------------------------|--|-------------------------------------|------------------------------------|---|
| 1 | Near Latehar Balumath Road | Operation | 3.30 PM to 3.40 PM | 68.2 | 75db(A) |
| 2 | Near Ambhajharan | Operation | 3.45 PM to 3.55 PM | 67.6 | 75db(A) |
| 3 | Near Dihi Village | Operation | 4.00 PM to 4.10 PM | 69.5 | 75db(A) |

Remarks : Noise Level of all points were found within the prescribed limit.


(S.K. Singh)
ASO


03/01/2022
(R.N. Kashyap)
Board Analyst