



File No: EN/T-II-1/051/2024

Government of India
Ministry of Environment, Forest and Climate Change
(Issued by the State Environment Impact Assessment
Authority(SEIAA), WEST BENGAL)



Dated 30/05/2024



To,

JITENDRA SINGH
JITENDRA SINGH

Radharaman Constructions and Marketing Private Limited 3rd floor, Plot No.- 388/389, Biscuit Factory road, Digha, Danapur, PATNA, BIHAR, 800012
mamudpurmine2@gmail.com

Subject: Grant of EC under the provision of the EIA Notification 2006-regarding.

Sir/Madam,

This is in reference to your application for Grant of EC under the provision of the EIA Notification 2006-regarding in respect of project Mamudpur Sand Mine of Radharaman Constructions And Marketing Private Limited submitted to Ministry vide proposal number SIA/WB/MIN/467039/2024 dated 23/03/2024.

2. The particulars of the proposal are as below :

(i) EC Identification No.	EC24C0107WB5611952N
(ii) File No.	EN/T-II-1/051/2024
(iii) Clearance Type	EC
(iv) Category	B2
(v) Project/Activity Included Schedule No.	1(a) Mining of minerals
(vii) Name of Project	Mamudpur Sand Mine of Radharaman Constructions And Marketing Private Limited
(viii) Name of Company/Organization	JITENDRA SINGH
(ix) Location of Project (District, State)	BANKURA, WEST BENGAL
(x) Issuing Authority	SEIAA
(xii) Applicability of General Conditions	no
(xiii) Applicability of Specific Conditions	no

3. In view of the particulars given in the Para 1 above, the project proposal interalia including Form-1(Part A and B) were submitted to the Ministry for an appraisal by the State Environment Impact Assessment Authority(SEIAA) under the provision of EIA notification 2006 and its subsequent amendments.

4. The above-mentioned proposal has been considered by SEIAA in the meeting held on 26/04/2024. The minutes of the meeting and all the project documents are available on PARIVESH portal which can be accessed from the PARIVESH portal by scanning the QR Code above.
5. The brief on the salient features of the project as submitted by the project proponent in Form 1 (Part A and B) in the reports are as follows This is a proposal for Mamudpur Sand Mine at the 0121DM038 sand block over an area of 4.72 ha (11.66 Acres) on the river Damodar at Plot no: 914, 916; J.L. No.- 61, Mouza: Mamudpur, P.S. Patrasayer, District: Bankura, West Bengal.
6. Earlier, the project proponent has obtained EC issued by DEIAA vide Memo No. 120/864/DLEIAA dated 25.05.2017. The ADM and DL & LRO, Bankura through letter vide Memo No. 44/M.M./L.R./2024 dated 01.02.2024 has directed that after receipt of EC, the mining lease is to be extended for 11 months. On the basis of the above, the production schedule in the Mine Plan has been prepared for a period of 11 months.
7. As required under the West Bengal Minor Mineral Concession Rules, 2016, the PP got a composite 'Mining Plan' prepared for proposed sand Mine at the site by an RQP. The Plan has been approved by the State Government on 19.03.2024 and the approved plan has been uploaded at the PARIVESH portal by the PP.

8. The production details as per the DSR uploaded by the PP are given below :-

Total Area (ha)	Safety Zone (ha)	Production Area (ha)	Thickness (M)
4.72	0.63	4.09	3.00

Geological, Mineable and production details

Months	Total Area (ha)	Mineable area (ha)	Thickness (M)	Geological Reserve (Cu.M)	Mineable reserve (Cu.M)	Replenishment Rate
12	4.72	4.09	3.00	141600	122700	100%
Total reserve				141600	122700	

Production / Excavation calculated based on 11 months as per the order (Memo No. 44/M.M./L.R./2024 dated 01.02.2024)

Months	Mineable Area (ha)	Thickness (m)	Production / Excavation (cum)
			(1,22,700/12)*11
11	4.09	3.00	1,12,475
Total Production / Excavation			1,12,475

The PP has uploaded pre-feasibility report for the proposed project, valid Letter of Intent from the competent authority, need-based EMP for the project and non-cluster certificate from the competent authority. The mine block is not forming cluster with any adjacent mining lease.

The project site falls within the DSR potential zone code PO_BNK_DA_PS_27.

9. The SEIAA, in its meeting held on 26/04/2024, based on information & clarifications provided by the project proponent and after detailed deliberations recommended the proposal for grant of EC under the provision of EIA Notification, 2006 and as amended thereof subject to stipulation of specific and general conditions as detailed in Annexure (1).
10. The SEIAA has examined the proposal in accordance with the Environment Impact Assessment (EIA) Notification, 2006 & further amendments thereto and after accepting the recommendations of the State Expert Appraisal Committee hereby decided to grant EC for instant proposal of M/s. JITENDRA SINGH under the provisions of EIA Notification, 2006 and as amended thereof.
11. The Ministry reserves the right to stipulate additional conditions, if found necessary.
12. The EC to the aforementioned project is under provisions of EIA Notification, 2006. It does not tantamount to approvals/consent/permissions etc. required to be obtained under any other Act/Rule/regulation. The Project Proponent is under obligation to obtain approvals /clearances under any other Acts/ Regulations or Statutes, as applicable, to the

project.

13. This issues with the approval of the Competent Authority.

Annexure 1

Specific EC Conditions for (Mining Of Minerals)

1. Conditions Imposed By Seac –

S. No	EC Conditions
1.1	1. In case the mining area or a part thereof is private land not owned by the Project Proponent (PP), then a written permission should be obtained regarding consent of the land owner(s) concerned for carrying out the mining operation before commencement of any mining activity. 2. The PP shall complete all the tasks as per the Action Plan submitted with the budgetary provisions during the Public Hearing, if held. 3. Apart from possessing a valid lease the proponent shall obtain all other necessary permissions before commencement of any mining or allied activity at the lease hold area. 4. The directions given by the Hon'ble Supreme Court of India vide order dated 27.02.2012 in Deepak Kumar case [SLP(C) Nos. 19628-19629 of 2009] and order dated 05.08.2013 of the Hon'ble National Green Tribunal in application No. 171/2013 must be followed strictly. 5. It shall be the responsibility of the PP to abide by and to comply with all the provisions made and restrictions imposed, - particularly those regarding environment management practices, by and under the West Bengal Sand (Mining, Transportation, Storage and Sale) Rules, 2021 and the West Bengal Minor Minerals Concession Rules, 2016, failing which the EC shall be liable to be cancelled. 6. The EC is granted on the condition that the lease area falls under the potential sand mining area earmarked in the District Level Survey Report (DSR). Mining shall be done only in an area/ stretch which has been identified in the DSR as well as in the approved Mining Plan. 7. No river bed mining shall be allowed beneath 3 meters of the river bed. 8. The depth of mining in riverbed shall also not exceed one meter above groundwater (base flow) level. 9. No River sand mining shall be carried out in monsoon season, as declared by the concerned District Authority. 10. The PP shall submit Annual Replenishment Report certified by an authorized agency. In case the replenishment is lower than the approved rate of production, then the mining activity / production levels shall be decreased accordingly. 11. If the lease hold area is located in hilly terrain, it is to be ensured by the PP that the mine working depth is limited to 1.0 metre below the riverbed level. 12. In case the lease area, or a part of it, falls in the river flood plain^[1], a buffer of three metre to be left from the river bank for mining. (non river-bed sand mining) 13. In case the lease area, or a part of it, is an agricultural field, a buffer of three metre land shall be left between the mine boundary and the adjacent field. (non river-bed sand mining) 14. Mining shall be done in layers of not more than 1 metre depth to avoid ponding effect and only after the first layer is excavated, the process will be repeated for the second layer and so on. 15. The PP shall get the baseflow and groundwater level (water table) monitored on monthly basis. The water level should be referenced to both the 'mean sea level' and the 'local ground level'. During sand mining operations, a network of existing wells shall be established around the sand mining area and piezometers shall be installed at all sand quarry sites. A minimum of four piezometers shall be installed in the no-mining zone around the sand quarrying area. Monitoring of groundwater quality in the vicinity (one km radius from the sand quarrying site) shall be carried out once in every two months. Same shall be submitted with six monthly compliance report..

S. No	EC Conditions
	16. Any area falling within 7.5 metre or 12.5% of the river width, whichever is more, from the river bank (towards the channel) will be left intact as no mining zone. Subject to above the PP shall identify the central 3/4 part of river on map where there is a deposition of sand and remaining 1/4 part shall be left intact as no mining zone for the protection of the bank. 17. No stream shall be diverted for the purpose of sand mining. No natural water course and/or water resources shall be obstructed due to mining operations. 18. No blasting shall be resorted to in river bed sand/ gravel mining and no blasting operation shall be carried out without permission at any other place. 19. Irrespective of the location, thickness of sand deposition, agricultural land/ riverbed, the method of mining shall conform to the orders / directions passed by any Court of Law / Tribunal time to time and in compliance with the Sustainable Sand Mining Guidelines 2016 and the Enforcement & Monitoring Guidelines for Sand Mining, 2020. 20. Mining shall begin only after pucca pillars marking the boundary of lease area are erected at the cost of the lease holder at every corner of the lease-hold area. Only after certification in this regard with the geo coordinates of the corner pillars is issued by the district mining officials, mining can commence. The geo coordinates of the corner pillars shall be made available to the District Level Committee. 21. The top soil in case of surface land mining shall be stored temporarily in an earmarked site and shall be, as far as practicable, concurrently used for land reclamation. {non river bed sand mining} 22. The EC holder shall keep a correct account of quantity of sand mined out, dispatched from the mine, mode of transport, registration number of vehicle, person in-charge of vehicle and mine plan. This shall be produced before officers of the Central Government and/ or the State Government for inspection. 23. Noise arising out of mining and processing unit(s) shall be abated and controlled at source to keep noise level within permissible limit. 24. No sand mining activity shall be carried out between dusk to dawn, or as permitted by the local authority. 25. Infrastructure and facilities erected for the mine shall conform to the provisions made for the purpose at the sand ghat designated and demarcated (with geo referencing) and laid out for the purpose by the District administration. 26. In particular the PP shall ensure that the approach road, - from the proposed sand ghat to the sand storage depot, is planned and maintained with prior consent of the local Administration. 27. There shall be a single point of entry and exit point for all vehicles. In case it is necessary to have more than one entry/exit, all such points shall have check points with all digital monitoring facilities as mentioned in the 'Enforcement and Monitoring Guidelines for Sand Mining' (January, 2020) issued by the Ministry of Environment, Forest and Climate Change. All other possible ways of entry /exit shall be closed using barriers. All provisions shall be made to make it impossible for any vehicle to enter or exit without an entry into the computerized system. 28. All such points shall have 24x7 CCTV coverage; the footage of the CCTV coverage shall be submitted to the District Collector by the PP at mutually agreed frequencies (Photographic evidence to be included in 6 monthly compliance report). 29. The PP shall ensure that pollution due to transportation is effectively controlled. The PP shall also ensure regular sprinkling of water. 30. Only potable water may be collected from nearby locality with prior permission of the authority concerned. Water for other purposes shall be taken from the river. 31. It shall be the duty and responsibility of the PP to ensure that air pollution due to dust, exhaust emission or fumes during mining and processing phase are controlled and kept within permissible limits specified under environmental laws. 32. The mineral transportation shall be carried out through covered trucks/ tractors only and the vehicles carrying the mineral shall not be overloaded. Wheel washing facility should be installed and used.

S. No	EC Conditions
	33. The mining operations are to be done in a systematic manner so that the operations shall not create a major visual impact on the site. 34. Restoration of flora affected by mining must be done immediately. Five times the number of trees destroyed by mining shall be planted (preferably of indigenous species) and maintained over the entire lease period. 35. The PP shall ensure that, there is no damage to any fauna and its habitats/ nestings located close to the sand mining site, if any. The PP should receive clearance from the local Biodiversity Management Committee (BMC)[2] of the district concerned in this regard. 36. No felling of trees in or within the precincts of the mine shall be allowed. If a mining lease area, or a part of it, falls within 10 km from the periphery of any National Park/ Sanctuary or an Eco-Sensitive Zone or a Protected Area, no mining or related activity shall be undertaken without first obtaining a no objection certificate from the Standing Committee of National Board of Wild Life (NBWL), in compliance to the Hon'ble Supreme Court's order in I.A. No. 460 of 2004. 37. The PP shall take all necessary protective measures to ensure that no spring sources are affected due to mining activities. 38. Removal, stacking and utilization of top soil in mining area shall be ensured. Where top soil cannot be used concurrently, it shall be stored properly for future use. 39. No overhangs shall be allowed to be formed due to mining and mining shall not be undertaken in areas where landslide is likely to occur due to unfavourable steep angle of slope. 40. No extraction of stone/ boulder/ sand shall be undertaken in landslide prone areas. 41. If clearance of riparian vegetation is to be undertaken it must be done under the supervision and control of an appropriate government authority. It shall be the responsibility of the project proponent to ensure absolute compliance with the relevant provisions of the West Bengal Trees (Protection and Conservation in Non Forest Areas) Act, 2006, and the Rules framed there under. 42. To reduce visual impact of mining the PP shall ensure tidiness. 43. Dumping of waste, if any, shall be done only in earmarked places as approved in the mining plan. 44. No rubbish shall be disposed in the river bed. 45. The PP shall take all possible precautions for the protection of environment and control of pollution. 46. Effluent discharge should be kept to the minimum and it should meet the standards prescribed. 47. No mining shall be undertaken in a mining lease located within 1 km from bridges, highways and railway lines on both upstream and downstream sides, or five times (5x) of the span (x) of bridge, public civil structure (including water intake point) on upstream side and ten times (10 x) the span of such bridge on downstream side, subjected to a minimum of 250 metres on the upstream and 500 metres on the downstream side. 48. Mining activities shall not be done for mine lease where mining can cause danger to site of flood protection works, places of cultural, religious, historical, and archaeological importance. 49. Only such vehicles as are having valid fitness and PUC Certificates, shall be used for transportation of sand. 50. The PP shall develop proper junction at takeoff points of approach road with main road, with proper width and geometry required for safe movement of traffic, at his own cost. 51. The PP shall ensure that the road may not be damaged due to transportation of the mineral; and transport of minerals will be as per IRC Guidelines with respect to complying with traffic congestion and density. 52. No stacking shall be allowed on road side along State/ National Highways. 53. Suitable sand depots will be located in the vicinity of the sand quarry site to facilitate the sale of sand. While selecting the site for depots, it must be ensured that the site is within 25 km from the sand quarry site and has an area of around 04-06 ha (10-15 acres) with parking facility and proper entry and exit for smooth movement of the vehicles. The depot site shall preferably be a Government poramboke land[3]. 54. The PP shall undertake phased restoration, reclamation and rehabilitation of land affected by

S. No	EC Conditions
	mining and shall complete this work before abandonment of mine. 55. Restoration, reclamation and rehabilitation in cluster should be done systematically and jointly by each EC holder in that cluster. 56. The site specific plan for eco-restoration submitted by the proponent along with the EC application shall be properly implemented. 57. Transport of mineral shall not be done through villages/ habitations. 58. The route of mineral transportation vehicle from source to destination shall be tracked through the system using checkpoints, Radio-frequency identification (RFID) tags, and GPS tracking. 59. The PP shall make arrangement for drinking water, first aid facility (along with species specific anti-venom provisioning) in case of emergency for the workers (Photographic evidence to be included in 6 monthly compliance report).. 60. The PP shall implement the Disaster Management Plan if the mine lease area is located in Seismic Zone-IV. The Project Proponent shall appoint a Committee to have a check over any disaster to warn workers well before for the safety of the workers. Emergency helpline number will be displayed at all levels. 61. The PP shall appoint an Occupational Health Specialist for Regular and Periodical medical examination of the workers engaged in the Project. Personal Health data like BP ECG, chest X-ray, PFT, smoking habits, blood and urine test etc. shall be undertaken once in six months to take necessary remedial/preventive measures. In this regard recommendations of National Institute of Occupational Health (NIOH) / Central Labour Institute (CLI) / All India Institute of Hygiene and Public Health (AIIPH&PH) shall be adopted for ensuring good work-environment for mine workers. 62. The PP shall report monitoring data on replenishment, traffic management, levels of production, river-bank erosion, maintenance of roads etc. 63. A year-wise excavation schedule showing the breakup of pay-mineral (sand) and waste (if any) may be clearly drawn up and areas may be demarcated for waste dumping. Site for intermediate stockpiling of the mineral may also be clearly demarcated and shown in the surface plan. 64. The PP shall review the Progressive Mine Closure Plan every two years from the date of opening of the mine and shall submit the same to the officer authorised by the State Government in this behalf, for its approval under the West Bengal Minor Mineral Concession Rules, 2016. In the event of the progressive mine closure being not approved, or not deemed to be approved, the mining activities shall be discontinued. 65. One year prior to the proposed closure of the mine the proponent shall submit a Final Mine Closure Plan for approval under the West Bengal Minor Mineral Concession Rules, 2016, to the officer authorised by the State Government in this behalf. 66. The PP shall ensure that the protective measures contained in the Mine Closure Plan referred to hereinabove including the reclamation and rehabilitation work are carried out in accordance with the approved Mine Closure Plan or with such modifications as are approved by the officer authorised by the State Government in this behalf under the West Bengal Minor Mineral Concession Rules, 2016. 67. In addition to regular submission of environmental compliance reports as required under the EIA Notification, 2006, the PP shall submit to the Officer authorised by the State Government in this behalf, a yearly report before 1st of July every year setting forth the extent of protective and rehabilitative works carried out as envisaged in the approved Mine Closure Plan, and if there is any deviation, reasons thereof. 68. For the purpose of carrying out mining operation in the area, the PP shall furnish financial assurance. The amount of financial assurance^[4] shall be as laid down in the West Bengal Minor Mineral Concession Rules, 2016. The financial assurance may be in any of the forms referred to in the said Rules. 69. The PP shall prepare a dust and noise minimization plan with adequate details and shall implement the same. 70. Needs of the locality shall be assessed and the social part of the EMP shall be undertaken as stipulated by MoEF&CC Office Memorandum F. No. 22-65/2017.IA.III dated 30.09.2020.

S. No	EC Conditions
	Beneficiary of the social component of EMP should be identified and to be displayed at site. Need based activities for local people is part of the EMP. The project proponent has submitted that 2% of the total project cost will be used towards need based activity. The PP shall submit geo-tagged photographs regarding the implementation of need based activities with actual expenses incurred. The need based activities and plantation will have to be implemented within first two years of starting of mining operation. Photographic evidence of the activities and relevant bills/vouchers are to be given in 6 monthly compliance report. 71. The PP shall ensure that the provisions every relevant Acts, Rules Guidelines etc. shall be complied in both letter and spirit. 72. In particular, the PP shall ensure compliance with the provisions laid down in the following Acts/ Rules/ Guidelines. a. The West Bengal Minor Minerals Concession Rules, 2016; b. Sustainable Sand Mining Management Guidelines, 2016, issued by the Ministry of Environment, Forest and Climate change, Government of India; c. Sand Mining Framework, 2018, issued by the Ministry of Mines, Government of India; d. Enforcement & Monitoring Guidelines for Sand Mining, 2020, issued by the Ministry of Environment, Forest and Climate change, Government of India; e. The West Bengal Sand Mining Policy, 2021; and, f. The West Bengal Sand (Mining, Transportation, Storage and Sale) Rules, 2021. 73. Non-compliance of any of the terms and conditions mentioned hereinabove may lead to cancellation of the environmental clearance granted. 74. The Environmental Clearance is being issued without prejudice to any action initiated under the Environment (Protection) Act, 1986 or any court case pending in any court of law, and it does not mean that the project proponent has not violated any environmental law in the past, and all future decisions made or directives/ orders/ notifications/ circulars issued under the Environment (Protection) Act, 1986 shall be binding on the Project Proponent. Similarly, all verdicts/ orders of the Hon'ble Court will be binding on the project proponent. Hence, this clearance does not give immunity to the project proponent in the case(s) filed against her/ him, if any, or any action initiated against her/ him under the Environment (Protection) Act, 1986. 75. In case of submission of false document and non-compliance of stipulated conditions, Authority/ Environment Department will revoke or suspend the Environmental Clearance without any intimation and initiate appropriate legal action under the Environment (Protection) Act, 1986. 76. The Environmental Clearance for the project will be valid till the validity of lease period as specified in the letter issued by the ADM and DL & LRO, Bankura through letter vide Memo No. 44/M.M./L.R./2024 dated 01.02.2024 and the approved Mining Plan submitted dated 19.03.2024. 77. The EC is granted for the project as proposed. In case any deviation or alteration in the project is contemplated the proponent will apply afresh for Environmental Clearance for the proposed modifications and/ or expansion of the project. 78. The stipulations made under other relevant Acts, - in particular the Wild Life (Protection) Act, 1972, the Water (Prevention and Control of Pollution) Act, 1974, the Forest (Conservation) Act, 1980, the Air (Prevention and Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, and the Public Liability Insurance Act, 1991, and the rules and regulations made there under, shall be strictly complied with. 79. The State Government may, in its own discretion, impose such further conditions as it may deem fit, necessary or expedient. All such conditions will have to be complied with. 80. Non-compliance to any of the stipulated terms and conditions may lead to cancellation of the EC. 81. If you are aggrieved by the grant of this Environmental Clearance or by any of the terms and conditions imposed herein, you may, in your own discretion, within a period of thirty days from today, prefer an appeal before the National Green Tribunal (Eastern Zonal Bench, Kolkata), HFXC+VR5, Kadampukur Village, Newtown, New Town, West Bengal 700156, under Section 16 of the National Green Tribunal Act, 2010.

S. No	EC Conditions
	82. Monthly monitoring of base flow level at four points of the project should be conducted by installing piezometer and to be reported in the six monthly compliance report. 83. Stipulated plantation should preferably be done adjacent to the project. If not possible due to unavailability of suitable land, plantation may be done at other location in the same block. The particular plantation area should be dedicated and marked for the particular project and to be certified by the respective BDO. 84. Sieve analysis report for grain size distribution should be provided along with six monthly compliance report. 85. Status of the need-based activities to be reported during six monthly progress report. 86. Transportation plan should be provided in six monthly compliance report. 87. Basic amenities, safety and occupational health examinations for labourers to be provided along with six monthly compliance reports. 88. Species of the plant selected should local species and be self-sustaining in that particular region. Geotagged photographs of actual plantation done to be submitted along with six monthly compliance reports. Credible document regarding plantation by the Forest department on behalf of the project proponent should be submitted. 89. Studies on the biotic components of the river and the impact of sand mining on these components should be submitted along with the six-monthly progress reports. The study should be done by some reputed institute. 90. Bank line monitoring report should be submitted along with the six-monthly progress reports. [1] A floodplain Is a generally flat area of land next to a river or stream and it stretches from the banks of the river to the outer edges of the valley [2] For all local bodies Biodiversity Management Committees (BMCs) of the WB State Biodiversity Board are constituted under Sec. 41(1) of the Biological Diversity Act, 2002 [3] the land that doesn't fall under the list of revenue records. [4] Rupees 15 thousand per hectare of the mining lease area put to use for mining and allied activities or rupees fifty (50)thousand, whichever is higher

Standard EC Conditions for (Mining of minerals)

1. Statutory Compliance

S. No	EC Conditions
1.1	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
1.2	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.
1.3	The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.
1.4	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. TThe 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).
1.5	The project proponent shall obtain Consent to Establish / Operate under the provisions of Air

S. No	EC Conditions
	(Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned State pollution Control Board/ Committee.
1.6	The project proponent shall obtain the necessary permission from the Central Ground Water Authority
1.7	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.
1.8	Permission of power supply to be taken from the concerned authority for meeting power demand of the project site.
1.9	The maximum production or peak production at any given time shall not exceed the limit as prescribed in the EC.
1.10	The Environmental Clearance for the project will be valid till the validity of lease period as specified in the letter issued by the ADM and DL & LRO, Bankura through letter vide Memo No. 44/M.M./L.R./2024 dated 01.02.2024 and the approved Mining Plan submitted dated 19.03.2024.

2. Air Quality Monitoring And Mitigation Measure

S. No	EC Conditions
2.1	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, SO ₂ 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. 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
2.2	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 25th 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.
2.3	Transportation of coal, to the extent if permitted by road, shall be carried out by covered trucks/conveyors. Effective control measures such as regular water sprinkling/rain gun/ Fog cannon /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.
2.4	Major approach roads shall be black topped and properly maintained.
2.5	PP to install solar lights along the road used for transportation of coal to avoid the accidents at night and also seek its maintenance.

S. No	EC Conditions
2.6	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.
2.7	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.
2.8	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.
2.9	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.
2.10	Adequate number of Fog canon (mist sprayer) shall be installed to reduce the impact of air pollution at dust generating sources with time bound action plan.
2.11	PP should Install Wind breaker/shield arrangement along the railway siding for reducing the dust propagation in upwind direction.
2.12	Post environmental closure third party monitoring by reputed institution in air quality, water, land & soil etc shall be carried out and analysed with EMP measures at regular interval. A suitable recommendation in this regard, shall be furnished to IRO, MoEF&CC for compliance. The data used for analysis shall be obtained from continuous AQMS, site specific water regime. Also third party shall analyse the implementation of river diversion, meeting to the requirement of project report.

3. Water Quality Monitoring And Mitigation Measures

S. No	EC Conditions
3.1	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 25th September, 2000 and as amended from time to time by the Central Pollution Control Board.
3.2	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 27th May, 2009 issued by Ministry of Environment, Forest and Climate Change shall also be referred in this regard for its compliance.
3.3	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.

S. No	EC Conditions
3.4	Monitoring of water quality upstream and downstream of river including ponds, lakes, tanks 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.
3.5	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.
3.6	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.
3.7	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
3.8	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
3.9	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.
3.10	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.
3.11	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.
3.12	The project proponent shall take all precautionary measures to ensure riverian/ riparian ecosystem in and around the coal mine upto a distance of 5 km. A riverian /riparian ecosystem conservation and management plan should be prepared and implemented in consultation with the irrigation / water resource department in the state government.
3.13	Domestic water shall be providing to the residents/villages which are coming under the zone of influence of the project due to ground water extraction by installing a RO plant with proper supply line and Taps within 2 years

S. No	EC Conditions
3.14	No obsolete technologies for sewage treatment shall be implemented. Construction of Sewage Treatment Plant with latest technology should be completed within 2 years and treated water shall be reused for plantation. CTE and CTO of STP shall be obtained as per the norms.

4. Noise And Vibration Monitoring And Prevention

S. No	EC Conditions
4.1	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 in conformity with the prescribed norms and guidelines in this regard. Adequate awareness programme for users to be conducted. Progress in usage of such accessories to be monitored.
4.2	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.

5. Mining Plan

S. No	EC Conditions
5.1	5- Star Rating is mandatory to obtaine certification as per guidelines of Mininstry of Coal
5.2	Mining shall be carried out under strict adherence to provisions of the Mines Act 1952 and subordinate legislations made there-under as applicable.
5.3	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).
5.4	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).
5.5	Underground work place environmental conditions shall be rendered ergonomic and air breathable with adequate illumination in conformance with DGMS standards.
5.6	No mining 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.
5.7	Efforts should be made to reduce energy and fuel consumption by conservation, efficiency improvements and use of renewable energy.
5.8	Tranportation by Railway Siding shall be developed to avoid transportation by Road

6. Land Recalvation

S. No	EC Conditions
6.1	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).
6.2	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.
6.3	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.
6.4	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, 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.
6.5	A separate team for subsidence monitoring and surface mitigation measures shall be constituted and continuous monitoring & implementation of mitigation measures be carried out.
6.6	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.
6.7	Native tree species shall be selected and planted over areas affected by subsidence.
6.8	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.

7. Public Hearing And Human Health Issues

S. No	EC Conditions
7.1	Adequate illumination shall be ensured in all mine locations (as per DGMS standards) and monitored.
7.2	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 provisions 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

S. No	EC Conditions
	time to time.
7.3	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.
7.4	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.
7.5	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.
7.6	Implementation of the time bound action plan on the issues raised during the public hearing shall be ensured. The project proponent shall undertake all the tasks/measures as per the time bound action plan submitted with budgetary provisions during the public hearing. Land oustees shall be compensated as per the norms laid down in the R&R policy of the company/State Government/Central Government, as applicable.
7.7	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'.
7.8	PP to conduct need based assessment survey of the area to for in order to decide the activities to be carried under the CSR and to provide detail of the activity carried out with adequate budgetary provision and time bound action plan.
7.9	PP should conduct epidemiology study to (analysis of the distribution, patterns and determinants of health and disease conditions in defined populations).
7.10	Permanent Health care facilities of Hospital should be established within 5 km of project boundary for the local people.
7.11	PP must ensure an emergency action plan during pandemic in order to provide assistance to the nearby villages located within the 10 km radius buffer zone (If required)
7.12	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 with time bound action plan
7.13	PP to take measure for installation of Renewable Energy sources in nearby area falling within 10 km radius

8. Corporate Environment Responsibility

S. No	EC Conditions
8.1	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

S. No	EC Conditions																					
	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.																					
8.2	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.																					
8.3	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.																					
8.4	Self environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.																					
8.5	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																					
8.6	Needs of the locality shall be assessed and the social part of the EMP shall be undertaken as stipulated by MoEF&CC Office Memorandum F. No. 22-65/2017.IA.III dated 30.09.2020. Beneficiary of the social component of EMP should be identified and to be displayed at site. Need based activities for local people is part of the EMP. The project proponent has submitted that 2% of the total project cost will be used towards need based activity. The PP shall submit geo-tagged photographs regarding the implementation of need based activities with actual expenses incurred. The need based activities and plantation will have to be implemented within first two years of start of mining operation or end of lease period, whichever is earlier. Photographic evidence of the activities and relevant bills/vouchers are to be given in 6 monthly compliance report. NEED BASED ACTIVITIES FOR LOCAL PEOPLE <table><tr><th>Sl. No.</th><th>Considerations</th><th>Total cost in Rs.</th></tr><tr><td>1</td><td>Health camp and free medicine distribution at nearest Primary School and in local villages as per their requirements</td><td></td></tr><tr><td>2</td><td>Educational support to poor student especially girls</td><td></td></tr><tr><td>3</td><td>Provide drinking water facility to nearest Primary School</td><td>2,60,000/-</td></tr><tr><td>4</td><td>Solar lights installation</td><td></td></tr><tr><td>5</td><td>School infrastructure development</td><td></td></tr><tr><td colspan="2">Total cost in Rs.</td><td>2,60,000/-</td></tr></table>	Sl. No.	Considerations	Total cost in Rs.	1	Health camp and free medicine distribution at nearest Primary School and in local villages as per their requirements		2	Educational support to poor student especially girls		3	Provide drinking water facility to nearest Primary School	2,60,000/-	4	Solar lights installation		5	School infrastructure development		Total cost in Rs.		2,60,000/-
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9. Miscellaneous

S. No	EC Conditions
9.1	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.
9.2	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.
9.3	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.
9.4	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.
9.5	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.
9.6	The project authorities shall inform to the Regional Office of the MOEFCC regarding commencement of mining operations.
9.7	The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.
9.8	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.
9.9	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).
9.10	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.
9.11	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
9.12	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
9.13	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.
9.14	The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention

S. No	EC Conditions
	& 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.
9.15	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.
9.16	Compensation of the land acquired for the project shall be settled as per the R&R Policy. Adequate facility of drinking water, plantation and other social amenities should be provided to established R&R villages.
9.17	Persons of nearby villages shall be given training on livelihood and skill development to make them employable with its proper records.
9.18	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