


APPENDIX I

(See Paragraph-6)

CATEGORY - B

Note : If space provided against any parameter is inadequate, Kindly upload supporting document under 'Additional Attachments if any' at the last part of the Form1. Please note that all such Annexures must be part of single pdf document.

(I) Basic Informations

| S.No. | Item | Details | |
|--|---|--|-------------|
| | Whether proposal involved violation of EIA notification | No | |
| | Weather Consent to Establishment Obtained | NA | |
| | Upload copy of CTE | NA | |
| 1. | Name of the Project | Kumirkola Sand Mine on Damodar River | |
| | Proposal No | SIA/WB/MIN/74618/2022 | |
| 2. | Project Sector | Non-Coal Mining | |
| 3. | Location of the project | Latitude: 23°14'53.67"N and Longitude: 87°41'43.17"E | |
| 4. | Shape of the project land Uploaded GPS file Uploaded copy of survey of India Toposheet | Block (Polygon) Annexure-GPS file  Annexure-Survey of india toposheet | |
| 5. | Brief summary of project | Annexure-Brief summary of project | |
| 6. | State of the project | West Bengal | |
| Details of State of the project | | | |
| S.no | State Name | District Name | Tehsil Name |
| (1.) | West Bengal | Bardhaman | Khandaghosh |
| 7. | Town / Village | Kumirkola | |
| 8. | Plot/Survey/Khasra No. | Plot No: 1471(P), 1472(P) & ORS. | |
| 9. | S. No. in the schedule | 1(a) Mining of minerals | |
| 10. | Proposed capacity/area/length/tonnage to be handled/command area/lease area/number or wells to be drilled | Production Capacity: 91800 m ³ /year and Area: 3.79 HA/ 9.37 Acres ha. | |

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| 11. | New/Expansion/Modernization | New |
| 12. | Category of project | B |
| 13. | Does it attract the general condition? If yes, please specify | No |
| 15. | Does it attract the specific condition? | No |
| 16. | Is there any litigation pending against the project? | No |
| 17. | Nearest railway station along with distance in kms. | Ishan Chandi Halt, 10 km |
| 18. | Nearest airport along with distance in kms | Netaji Subhash Chandra Bose International Airport, 101 km |
| 19. | Nearest Town/City/District Headquarters along with distance in kms | Bardhaman , 14 km |
| 20. | Distance of the project from nearest Habitation | 1 , 1 km |
| 21. | Details of alternative sites examined shown on a toposheet Uploaded details | Yes Annexure-Uploaded details |
| 22. | Whether part of interlinked projects? | No |
| 23. | Whether the proposal involves approval/clearance under the Forest (Conservation)Act,1980? | No |
| 24. | Whether the proposal involves approval/clearance under the wildlife (Protection)Act,1972? | No |
| 25. | Whether the proposal involves approval/clearance under the C.R.Z notification,2011? | No |
| 26. | Whether there is any Government Order/Policy relevent/relating to the site? | No |
| 27. | Whether there is any litigation pending against the project and/or land in which the project is proposed to be set up? | No |
| 28. | Project Cost(in Lac.) | 114 |

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| 29. | Mining lease area (in ha.) | 3.79 |
| 30. | Whether the proposed project/activity located in notified Industrial area(Yes/No) | No |

Activity

1 Construction, operation or decommissioning of the Project involving actions, which will cause physical changes in the locality (topography, land use, changes in water bodies, etc.)

| S.No | Information/Checklist confirmation | Yes/No | Details there of (with approximate quantities/rates, wherever possible) with source of information data |
|------|---|--------|---|
| 1.1 | Permanent or temporary change in land use, land cover or topography including increase in intensity of land use (with respect to local land use plan) | No | The present land use of the mine lease area on the riverbed of Damodar River and there will be no change in land use at post mining stage. The sand will be replenished every year during monsoon season. As such ultimate land use of the mine lease area will not be changed. |
| 1.2 | Clearance of existing land, vegetation and buildings? | Yes | The sand block is identified for removal of sand by Govt. of West Bengal. The applicant is the highest successful bidder of this sand block. The mine plan of Kumirkola Sand Mine project is approved by the Chief Mining Officer, Govt. of West Bengal on 31st Oct, 2018. |
| 1.3 | Creation of new land uses? | No | The sand mining activity will result in small pits which will be backfilled every year by replenishment after monsoon. |
| 1.4 | Pre-construction investigations e.g. bore houses, soil testing? | No | Reserve of the proposed mines already established by the State Govt. and subsequently Mine plan for sand mining is approved by the competent authority. Since this is a riverbed mining |

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| | | | project no pre- construction activity has been done and proposed. |
| 1.5 | Construction works? | Yes | A mobile mine office cum rest shelter is proposed within the applied lease area. Mobile office will be operational only in dry season and during monsoon it will be shifted to another safe place. |
| 1.6 | Demolition works? | No | No demolition activities are proposed. |
| 1.7 | Temporary sites used for construction works or housing of construction workers? | No | Being a sand mining project, no construction is involved. Only local labour/miner will be deployed for shifting of mobile mine office when and where required. They will go back to their home after day's work. Hence no temporary housing sites for workers will be constructed. |
| 1.8 | Above ground buildings, structures or earthworks including linear structures, cut and fill or excavations and fill or excavations | Yes | One temporary mine office cum rest shelter is proposed. |
| 1.9 | Underground works including mining or tunneling? | No | No underground works are proposed. Proposed mining operation will be done in opencast manual mining method. |
| 1.10 | Reclamation works? | No | No reclamation work has been proposed as this project is a riverbed sand mining project. Mined pit will be reclaimed naturally in monsoon time. |
| 1.11 | Dredging? | No | No dredging will be done. |
| 1.12 | Offshore structures? | No | Not Applicable. The mine lease area is not falling under coastal zone thus no offshore structure will be proposed. |
| 1.13 | Production and manufacturing processes? | Yes | Opencast manual mining method is selected for mining of sand. Proposed rate of production is 91800 m ³ / Year. |

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| 1.14 | Facilities for storage of goods or materials? | No | No storage of riverbed sand is proposed. Sand will be transported from mine site by trucks. |
| 1.15 | Facilities for treatment or disposal of solid waste or liquid effluents? | No | The entire riverbed material can be used and no mineral rejects will be produced. |
| 1.16 | Facilities for long term housing of operational workers? | No | No housing facility will be provided to the workers as mining operation will only be done during day hours and workers will be hired from nearby villages. |
| 1.17 | New road, rail or sea traffic during construction or operation? | No | Existing road will be used for transportation of mined out materials. There will be negligible change for additional truck load on the existing traffic. |
| 1.18 | New road, rail, air water borne or other transport infrastructure including new or altered routes and stations, ports, airports etc? | No | Existing road is well connected to the project site and is adequate for the movement of additional traffic. |
| 1.19 | Closure or diversion of existing transport routes or infrastructure leading to changes in traffic movements? | No | There will be no closure or diversion of existing routes or infrastructure for the proposed project. |
| 1.20 | New or diverted transmission lines or pipelines? | No | There are no new or diverted transmission lines or pipelines in the project site. |
| 1.21 | Impoundment, damming, culverting, realignment or other changes to the hydrology of watercourses or aquifers? | No | There will be no adverse changes to hydrology of watercourses or aquifers due to mining activity. No impoundment, damming, culverting, realignment or other changes will be done of any water course. Mining will be confined up to 3m or wherever it intersects the ground water table. |
| 1.22 | Stream crossings? | No | This is a Riverbed sand mining project. |
| 1.23 | Abstraction or transfers of water from ground or surface waters? | Yes | The mine site is over river Damodar and mining will be confined up to 3m or wherever it intersects the |

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| | | | ground water table. Required water for drinking & domestic use will be collected from nearby villages with approval from competent authority, and water required for dust suppression and plantation will be collected from harvested water. A total of 38 KLD water is required for the mining activity. |
| 1.24 | Changes in water bodies or the land surface affecting drainage or run-off? | No | As per approved mine plan the mining will be done after keeping 100m distance from the river bank in order to protect the river banks. After leaving 7.5m safety barrier zone, 3.06 ha area is left for mining which gives a mineable reserve of 91800 m ³ . The mining will also be confined upto 3m depth or wherever it intersects the ground water table. Thus, drainage or runoff will not be affected. |
| 1.25 | Transport of personnel or materials for construction, operation or decommissioning? | Yes | The mined materials will be transported via covered trucks of 10 Tonnes capacity. |
| 1.26 | Long-term dismantling or decommissioning or restoration works? | No | The estimated reserve will be replenished every year. So, the life of the mine will be for the entire lease period. This is a River bed sand mine project so dismantling works are not required. |
| 1.27 | Ongoing activity during decommissioning which could have an impact on the environment? | No | There is no de-commissioning work involved in the proposed mining activity. |
| 1.28 | Influx of people to an area in either temporarily or permanently? | No | The required workers will be deployed from the nearby villages. |
| 1.29 | Introduction of alien species? | No | There would be no introduction of any alien species. |
| 1.30 | Loss of native species or genetic diversity? | No | So far occurrence of native and generic diversity is not found. |

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| 1.31 | Any other actions? | No | No other actions would be involved in mining and its ancillary activities. |
|------|--------------------|----|--|

Use of Natural resources for construction or operation of the Project (such as land, water, materials or energy, especially any resources which are non-renewable or in short supply):

| S.No | Information/Checklist confirmation | Yes/No | Details thereof (with approximate quantities/rates, wherever possible) with source of information data |
|------|--|--------|--|
| 2.1 | Land especially undeveloped or agricultural land (ha) | No | Mine lease area is Government Land. |
| 2.2 | Water (expected source & competing users) unit: KLD | Yes | Total 7.61 KLD (Drinking and domestic- 2.01 KLD, dust suppression & others- 3.60 KLD and Greenbelt development- 2.00 KLD) water will be required. Required water for drinking & domestic use will be collected from nearby villages with approval from competent authority, and water required for dust suppression and plantation will be collected from harvested water. |
| 2.3 | Minerals (MT) | No | No raw minerals are required for mining operation. |
| 2.4 | Construction material – stone, aggregates, sand / soil (expected source – MT) | Yes | One temporary mining office cum rest shelter will be constructed near the river as per Mine Act 1952. Required material will be sourced from the local market. |
| 2.5 | Forests and timber (source – MT) | No | No forest and timber products are involved in the proposed project. |
| 2.6 | Energy including electricity and fuels (source, competing users) Unit: fuel (MT),energy (MW) | No | Electricity connection is not required for the project because mining operation will be done only in daytime. Proposed mining method is opencast manual. So, fuel will be not required for operation |

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|-----|--|----|--|
| | | | of mining. Diesel will be required only for mining transportation purpose. |
| 2.7 | Any other natural resources (use appropriate standard units) | No | No other natural resources will be used. |

3 Use, storage, transport, handling or production of substances or materials, which could be harmful to human health or the environment or raise concerns about actual or perceived risks to human health

| S.No | Information/Checklist confirmation | Yes/No | Details thereof (with approximate quantities/rates, wherever possible) with source of information data |
|------|---|--------|---|
| 3.1 | Use of substances or materials, which are hazardous (as per MSIHC rules) to human health or the environment (flora, fauna, and water supplies | No | Mining will be carried out by manual method. Hence, there will be no hazardous waste. However, the quantity generated from trucks will be very less and will be properly disposed as per Hazardous Waste Management, Handling & Trans-boundary Rule 2008. |
| 3.2 | Changes in occurrence of disease or affect disease vectors (e.g. insect or water borne diseases) | No | Proper hygienic condition will be maintained in and around the ML Area in order to avoid incidence of any vector- borne diseases. |
| 3.3 | Affect the welfare of people e.g. by changing living conditions? | Yes | This project will provide livelihood to the local people during the operation which will help in improving their living conditions. |
| 3.4 | Vulnerable groups of people who could be affected by the project e.g. hospital patients, children, the elderly etc. | No | As human settlement is not coming under the mine lease area so no vulnerable groups of people will be directly affected by this project. |
| 3.5 | Any other causes | No | There will be no effect due to other causes. |

4 Production of solid wastes during construction or operation or decommissioning (MT/month)

| S.No | Information/Checklist confirmation | Yes/No | Details thereof (with approximate quantities/rates, wherever possible) with source of information data |
|-------------|--|---------------|---|
| 4.1 | Spoil, overburden or mine wastes | No | No waste will be generated during the mining process. The entire material can be used. |
| 4.2 | Municipal waste (domestic and or commercial wastes) | No | There will be no residence within the mine lease area. Therefore, no municipal waste will be generated. |
| 4.3 | Hazardous wastes (as per Hazardous Waste Management Rules) | No | Mining will be carried out by manual method. Hence, there will be no hazardous waste. However, the quantity generated from trucks will be very less and will be properly disposed as per Hazardous Waste Management, Handling & Trans-boundary Rule 2008. |
| 4.4 | Other industrial process wastes | No | There is no other industrial process involved in the project. |
| 4.5 | Surplus product | No | No surplus products will be generated. |
| 4.6 | Sewage sludge or other sludge from effluent treatment | No | Effluent treatment is not required. |
| 4.7 | Construction or demolition wastes | No | No construction or demolition work involved. |
| 4.8 | Redundant machinery or equipment | No | No machinery or equipment will be used during the mining process. |
| 4.9 | Contaminated soils or other materials | No | No contamination of soil or other material will be involved. |
| 4.10 | Agricultural wastes | No | There is no agricultural waste involved. |
| 4.11 | Other solid wastes | No | No other solid waste will be generated. |

5 Release of pollutants or any hazardous, toxic or noxious substances to air(Kg/hr)

| S.No | Information/Checklist confirmation | Yes/No | Details thereof (with approximate quantities/rates, wherever possible) with source of information data |
|------|--|--------|---|
| 5.1 | Emissions from combustion of fossil fuels from stationary or mobile sources | Yes | There will be emission of SO _x , NO _x and CO due to fuel consumption in transportation vehicles. However, proper mitigation measures will be taken to reduce impacts from such emissions. |
| 5.2 | Emissions from production processes | Yes | There will be dust emission from loading and transportation. However, mitigation measures such as water sprinkling and plantation would be done to control dust pollution at village road and river bank. |
| 5.3 | Emissions from materials handling including storage or transport | Yes | Dust will be generated during mineral handling and transportation. Water sprinkling will be done regularly to control the fugitive dust emission. |
| 5.4 | Emissions from construction activities including plant and equipment | No | Since, this is a mining project, it is not applicable. |
| 5.5 | Dust or odours from handling of materials including construction materials, sewage and waste | Yes | Generation of dust is expected from preparational activities. However, no odour generation is anticipated. |
| 5.6 | Emissions from incineration of waste | No | No such waste will be generated, which needs to be incinerated. |
| 5.7 | Emissions from burning of waste in open air (e.g. slash materials, construction debris) | No | No waste of any kind will be burnt in the open air. |
| 5.8 | Emissions from any other sources | No | Emission from other sources are not anticipated. |

6 Generation of Noise and Vibration, and Emissions of Light and Heat:

| S.No | Information/Checklist confirmation | Yes/No | Details thereof (with approximate quantities/rates, wherever possible) with source of information data |
|-------------|---|---------------|--|
| 6.1 | From operation of equipment e.g. engines, ventilation plant, crushers | Yes | Mining method is manual and no equipment will be utilized. Loading will be done by loaders. Noise will be generated from movement of vehicles used for transportation. |
| 6.2 | From industrial or similar processes | No | There will not be any industrial process involved. |
| 6.3 | From construction or demolition | No | No construction or demolition is involved. |
| 6.4 | From blasting or piling | No | As the mineral is soft in nature so no drilling & blasting is required. |
| 6.5 | From construction or operational traffic | Yes | Noise will be generated from vehicular movement during transportation which will be within prescribed limit. |
| 6.6 | From lighting or cooling systems | No | No lighting or cooling systems are involved. |
| 6.7 | From any other sources | No | Generation of noise and vibration and light and heat is not expected from any other sources. |

7 Risks of contamination of land or water from releases of pollutants into the ground or into sewers, surface waters, groundwater, coastal waters or the sea:

| S.No | Information/Checklist confirmation | Yes/No | Details thereof (with approximate quantities/rates, wherever possible) with source of information data |
|-------------|--|---------------|---|
| 7.1 | From handling, storage, use or spillage of hazardous materials | No | There will be no handling, storage, use or spillage of hazardous materials. |
| 7.2 | From discharge of sewage or other effluents to water or the land (expected mode and place of | No | Not required. |

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| | discharge) | | |
| 7.3 | By deposition of pollutants emitted to air into the land or into water | No | Water sprinkling will be done at strategic location to reduce the risk of contamination due to emission of dust into the air. |
| 7.4 | From any other sources | No | There is no other source from which risk of contamination is anticipated. |
| 7.5 | Is there a risk of long term build up of pollutants in the environment from these sources? | No | Since, measures are proposed from the very beginning of the operations, long term buildup of pollutants are not anticipated. |

8 Risk of accidents during construction or operation of the Project, which could affect human health or the environment

| S.No | Information/Checklist confirmation | Yes/No | Details thereof (with approximate quantities/rates, wherever possible) with source of information data |
|-------------|---|---------------|--|
| 8.1 | From explosions, spillages, fires etc from storage, handling, use or production of hazardous substances | No | No Drilling and Blasting activities are proposed. |
| 8.2 | From any other causes | No | Training will be provided to the workers for proper handling of sand. No unauthorized persons will be allowed to enter the mining area. To deal with minor accidents, first aid facility will be provided at site. |
| 8.3 | Could the project be affected by natural disasters causing environmental damage (e.g. floods, earthquakes, landslides, cloudburst etc)? | Yes | The project is located in seismic zone-III. Therefore possibility of earthquake is moderate. Due to project location chances of other natural disaster is also remote. |

9 Factors which should be considered (such as consequential development) which could lead to environmental effects or the potential for cumulative impacts with other existing or planned activities in the locality

| S.No | Information/Checklist confirmation | Yes/No | Details thereof (with approximate quantities/rates, wherever possible) with source of information data |
|-------------|--|---------------|--|
| 9.1 | <p>Lead to development of supporting utilities, ancillary development or development stimulated by the project which could have impact on the environment e.g.:</p> <ul style="list-style-type: none"> ◦ Supporting infrastructure (roads, power supply,waste or waste water treatment, etc.) ◦ housing development ◦ extractive industries ◦ supply industries ◦ Other | Yes | <p>The project will indirectly improve the socio-economic condition of the area by providing employment opportunities. The already existing approach roads to the site will be further strengthened by the proponent. The Workers shall be employed from the nearby villages. Hence no housing development plan envisaged. No extractive industries and supply industries will be there.</p> |
| 9.2 | Lead to after-use of the site, which could have an impact on the environment | No | <p>Mine will be systematically and scientifically closed as per Mine Closure plan. No major impacts are envisaged.</p> |
| 9.3 | Set a precedent for later developments | Yes | <p>A better post mining scenario, which is likely to increase aesthetic beauty of the area by plantation along the approach road and river bank.</p> |
| 9.4 | Have cumulative effects due to proximity to other existing or planned projects with similar effects | Yes | <p>There may be cumulative positive impact due to proximity to other existing or planned projects with similar effects.</p> |

(III) Environmental Sensitivity

| S.No | Areas | Name/Identity | Aerial distance (within 15km.) Proposed project location boundary |
|-------------|---|----------------------|--|
| 1 | Areas protected under international conventions, national or local legislation for their ecological, landscape, cultural or other related value | No | Not applicable. |

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| 2 | Areas which are important or sensitive for ecological reasons - Wetlands, watercourses or other water bodies, coastal zone, biospheres, mountains, forests | No | No such areas are present. |
| 3 | Areas used by protected, important or sensitive species of flora or fauna for breeding, nesting, foraging, resting, over wintering, migration | No | No such areas used by protected, important or sensitive species of flora and fauna are present. |
| 4 | Inland, coastal, marine or underground waters | No | Not Applicable. The area is away from coastal zone. |
| 5 | State, National boundaries | No | WB- Jharkhand Border at 100.00 Km distance in NW direction. India - Bangladesh international boundary at 93.00 Km distance in East direction. |
| 6 | Routes or facilities used by the public for access to recreation or other tourist, pilgrim areas | No | No such routes or facilities are present near the mining site. |
| 7 | Defence installations | No | No such feature is present within 15 km of project site. |
| 8 | Densely populated or built-up area | Yes | Dumur at 1.50 Km distance in NW direction, Gopalpur at 1.00 Km distance in NW direction, Kumirkhola at 1.00 Km distance in NE direction |
| 9 | Areas occupied by sensitive man-made land uses (hospitals, schools, places of worship, community facilities) | Yes | Burdwan Medical College & Hospital at 14.00 Km distance in East direction, Kumirkhola High School at 1.00 Km distance in SE direction, Road bridge on SH 7 at 15.00 Km distance in SE direction. |
| 10 | Areas containing important, high quality or scarce resources.(ground water resources,surface resources,forestry,agriculture,fisheries,tourism,minerals) | No | No such areas are present. |
| 11 | Areas already subjected to pollution or environmental damage.(those where existing legal environmental standards are exceeded) | No | No such areas which are already subject to pollution are present near the project site. |
| 12 | Areas susceptible to natural hazard which could cause the project to present environmental problems (earthquakes, subsidence, landslides, erosion, flooding or extreme or adverse climatic conditions) similar effects | Yes | Area falls under Seismic Zone-III, i.e moderate risk zone. |

(IV) PROPOSED TERMS OF REFERENCE FOR EIA STUDIES

| | | |
|----------|--|--|
| 1 | Uploaded Proposed TOR File | Annexure-TOR file |
| 2 | Uploaded scanned copy of covering letter | Annexure-scanned copy of covering letter |
| 3 | Uploaded Pre-Feasibility report(PFR) | Annexure-PFR |
| 4 | Uploaded additional attachments(only single pdf file) | Annexure-Additional attachments |

ADDITIONAL MULTIPLE ENTERIES

| Sr. no. | Remarks | Uploaded Additional Attachments |
|----------------|---|---|
| 1 | Approved Mine Plan | Annexure-Additional Attachments |
| 2 | Final Layout Plan | Annexure-Additional Attachments |
| 3 | Valid LOI | Annexure-Additional Attachments |
| 4 | Final DSR of Purba Bardhaman | Annexure-Additional Attachments |
| 5 | LOI Extension | Annexure-Additional Attachments |
| 6 | Clarification behind application for ToR | Annexure-Additional Attachments |
| 7 | Environment clearance Challan | Annexure-Additional Attachments |
| 8 | Information about the project | Annexure-Additional Attachments |

(V) Undertaking

The aforesaid application and documents furnished here with are true to my knowledge

| | | | |
|---------------------------------|------------------------|---|---------------|
| V. | Name | M/S ALAM ENTERPRISE | |
| (i) | Designation | Owner | |
| | Company | M/S ALAM ENTERPRISE | |
| | Address | Piungolta, Arambagh, Hooghly | |
| Essential Details Sought | | | |
| S. No. | EDS Sought Date | EDS Sought | Letter |
| (1.) | 01/02/2023 | Provide clarification with supporting documents the reason for applying under ToR instead of EC | |

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|---|--------------------------------|---|-------------------------|---------------|---------------|
| | | given that the lease area is less than 5 ha. | | | |
| (2.) | 08/02/2023 | The corrections have been made as per the instruction received. | | | |
| Additional Details Sought | | | | | |
| S. No. | ADS Sought Date | ADS Sought | | Letter | |
| NO Record | | | | | |
| Transferred Details(Category A To B) | | | | | |
| S. No. | Category A(Proposal No) | Category B(Proposal No) | Transferred Date | Reason | Letter |
| NO Record | | | | | |