

APPENDIX – I

(See paragraph – 6)

FORM 1

(I) Basic Information:

S. No.	Item	Details																				
1	Name of the project/s:	Rainbow Infrastructure and Housing Development Limited (Director - Mahesh Kumar Gandhi) Plot No. 1(p), J. L. No. 3, Village – Jamdaha, Mouza – Jamdaha, Post – Chakshanjadi B.O., Police Station – Jamalpur, District – Purba Bardhaman, West Bengal.																				
2	S. No. in the schedule	1 (a) (i)																				
3.	Proposed capacity/area/length/tonnage to be handled/command area/lease area/number of Wells to be drilled.	Lease area - 3.51 Hectare Capacity – 76,148 cubic meter sand per year.																				
4.	New/Expansion/Modernization	New																				
5.	Existing Capacity Area etc.	3.51 Hectare																				
6.	Category of Project i.e.' A' or 'B'	"B "																				
7.	Does it attract the general condition? If yes, Please specify.	No																				
8.	Does it attract the specific condition? If 'yes, Please specify.	No																				
9.	Location	Mouza – Jamdaha <table border="1" style="margin-left: auto; margin-right: auto;"><thead><tr><th colspan="3">Toposheet No. 73 M/16</th></tr><tr><th rowspan="2">Boundary Points</th><th colspan="2">Co-ordinates</th></tr><tr><th>Latitude</th><th>Longitude</th></tr></thead><tbody><tr><td>A</td><td>N 23° 09' 31.50"</td><td>E 087° 12' 16.00"</td></tr><tr><td>B</td><td>N 23° 09' 28.74"</td><td>E 087° 12' 19.73"</td></tr><tr><td>C</td><td>N 23° 09' 21.01"</td><td>E 087° 12' 20.15"</td></tr><tr><td>D</td><td>N 23° 09' 23.25"</td><td>E 087° 12' 12.71"</td></tr></tbody></table>	Toposheet No. 73 M/16			Boundary Points	Co-ordinates		Latitude	Longitude	A	N 23° 09' 31.50"	E 087° 12' 16.00"	B	N 23° 09' 28.74"	E 087° 12' 19.73"	C	N 23° 09' 21.01"	E 087° 12' 20.15"	D	N 23° 09' 23.25"	E 087° 12' 12.71"
Toposheet No. 73 M/16																						
Boundary Points	Co-ordinates																					
	Latitude	Longitude																				
A	N 23° 09' 31.50"	E 087° 12' 16.00"																				
B	N 23° 09' 28.74"	E 087° 12' 19.73"																				
C	N 23° 09' 21.01"	E 087° 12' 20.15"																				
D	N 23° 09' 23.25"	E 087° 12' 12.71"																				
	Plot/Survey/Khasra No.	Plot No. 1(p)																				

	Village	Jamdaha
	Tehsil	Jamalpur
	District	Purba Bardhaman
	State	West Bengal
10.	Nearest railway station/airport along with Distance in kms.	Nearest Railway Station is at Pallaroad Railway Station at 2.50 km .and nearest Airport at Kazi Nazrul Islam Airport, Kolkata, at a distance of 92 km.
11.	Nearest Town, city, District Headquarters Along with distance in kms.	Jamalpur at 10 km distance.
12.	Village Panchayats, Zilla Parishad, Municipal Corporation, Local body (complete postal Address with telephone nos. to be given)	Village – Jamdaha, Mouza – Jamdaha, Post – Chakshanjadi B.O.,Police Station - Jamalpur, District – Purba Bardhaman, West Bengal
13.	Name of the applicant	Rainbow Infrastructure and Housing Development Limited (Director - Mahesh Kumar Gandhi)
14.	Registered Address	Chanchai Camp No. 1, Post Office - Palla, City – Bardhaman, District – Purba Bardhaman, West Bengal, Pin – 713 151.
15.	Address for correspondence:	Rainbow Infrastructure and Housing Development Limited (Director - Mahesh Kumar Gandhi) Chanchai Camp No. 1, Post Office - Palla, City – Bardhaman, District – Purba Bardhaman, West Bengal, Pin – 713 151.
	Name	Rainbow Infrastructure and Housing Development Limited (Director - Mahesh Kumar Gandhi)
	Designation (Owner/Partner/CEO)	Owner / Proprietor/Authorised Signatory.
	Address	Rainbow Infrastructure and Housing Development Limited (Director - Mahesh Kumar Gandhi) Chanchai Camp No. 1, Post Office - Palla, City – Bardhaman, District – Purba Bardhaman, West Bengal, Pin – 713 151.
	Pin Code	713 151.
	E-mail	-----

	Telephone No.	-----
	Fax No.	-----
16.	Details of Alternative Sites examined, if any. Location of these sites should be shown on a toposheet.	No alternate site was examined as mining is a site specific activity and Jamdaha Sand Mine [JAMALPUR/ JAMDAHA/1(P)/J] sand mine block is allotted to Rainbow Infrastructure and Housing Development Limited (Director - Mahesh Kumar Gandhi).
17.	Interlinked Projects	No interlink project is involved.
18.	Whether separate application of interlinked Project has been submitted?	Not Applicable.
19.	If yes, date of submission	Not Applicable.
20.	If no, reason	Not Applicable.
21.	Whether the proposal involves approval / clearance under: if yes, Details of the same and their status to be given. (a) The Forest (Conservation) Act, 1980? (b) The Wildlife (Protection) Act, 1972 (c) The C.R.Z. Notification, 1991?	Not Applicable.
22.	Whether there is any Government Order/ Policy relevant/ relating to the site?	There is no Government order / policy relevant to this site till date. Validity of Extension of Lol was issued by ADM & DL & LRO, Bardhaman.
23.	Forest land involved (hectares)	There is no forest land.
24.	Whether there is any litigation pending against the project and /or land in which the project is propose to be set up? (a) Name of the Court (b) Case No. (c) Orders/directions of the Court, if any and its relevance with the proposed project.	There is no litigation or court case pending against this project and or land.

- *Capacity corresponding to sectoral activity (such as production capacity for manufacturing, mining lease area and production capacity for mineral production, area for mineral exploration, length for linear transport infrastructure, generation capacity for power generation etc.,)*

(II) 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 thereof (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)	Yes	This is river bed sand excavation project, which will be done by manual method and no other activity on the land is being done or proposed. No construction, demolition or dismantling is involved in project; therefore it will not be any change in land cover, land use, etc. Mine lease area is government waste land over Damodar a river. The sand mining is restricted to 3 m depth in the riverbed and sand will get replenished during monsoon to almost equal to extracted level every year. So the ultimate land use of the mine lease area will remain same after the lease period. Topography: The mine lease area lies in the riverbed of Damodar a river and has mild slope.
1.2	Clearance of existing land, vegetation and buildings?	No	No clearance is required.
1.3	Creation of new land uses?	No	Not Required.
1.4	Pre-construction investigations e.g. bore houses, soil testing?	No	As this is riverbed sand mining extraction project, no such pre-construction activity has been proposed and done.
1.5	Construction works?	No	No construction work is proposed.
1.6	Demolition works?	No	No demolition work is required.
1.7	Temporary sites used for construction works or housing of construction workers?	Yes	The mine is a very small mine. Only a small rest shelter and a toilet will be made outside lease area (may be at the river bank). Local labours will be employed and mining will be done in day time only, so no temporary housing for labours is proposed.
1.8	Above ground buildings, structures or earthworks including linear structures, cut and fill or excavations	No	No construction work is proposed within the river bed.

1.9	Underground works including mining or tunneling?	No	Not required, mining activity will be done through open cast manual method of mining only.
1.10	Reclamation works?	No	Not required.
1.11	Dredging?	No	Not required.
1.12	Offshore structures?	No	Not required.
1.13	Production and manufacturing processes?	yes	Production Capacity – 76,148 cubic metre sand per year . The project involves only excavation/ removal of sand from granted lease area.
1.14	Facilities for storage of goods or materials?	No	Sand will be extracted as demand arises, therefore storage facility not required.
1.15	Facilities for treatment or disposal of solid waste or liquid effluents?	Not required	There will be no solid waste or liquid effluent required to be disposed.
1.16	Facilities for long term housing of operational workers?	No	Only local workers from nearby villages shall be employed. Thus, no housing facilities will be required.
1.17	New road, rail or sea traffic during construction or operation?	Not required	Not required, Existing road will be used for transportation of sand outside the mining lease area.
1.18	New road, rail, air waterborne or other transport infrastructure including new or altered routes and stations, ports, airports etc?	Not required	Not required.
1.19	Closure or diversion of existing transport routes or infrastructure leading to changes in traffic movements?	Not required	Not required.
1.20	New or diverted transmission lines or pipelines?	Not required	Not required.
1.21	Impoundment, damming, culverting, realignment or other changes to the	No	Not required

	hydrology of watercourses or aquifers?		
1.22	Stream crossings?	No	No stream crossing is involved.
1.23	Abstraction or transfers of water from ground or surface waters?	No	Water of the stream is neither required nor hazardous to the project activity, therefore no abstraction or transfers of water will be done.
1.24	Changes in water bodies or the land surface affecting drainage or run-off?	No	Not required
1.25	Transport of personnel or materials for construction, operation or decommissioning?	No	Labours are appointed from the nearby villages, therefore no transportation required and transport of quarried sand will be done during operation by the buyer through tractors.
1.26	Long-term dismantling or decommissioning or restoration works?	No	Not required.
1.27	Ongoing activity during decommissioning which could have an impact on the environment?	No	Not required.
1.28	Influx of people to an area in either temporarily or permanently?	No	Only local persons will be engaged,
1.29	Introduction of alien species?	No	Not Applicable.
1.30	Loss of native species or genetic diversity?	No	No chance of native species or genetic diversity as it is small mines.
1.31	Any other actions?	No	No other actions are required.

2. 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	It is Government land and river bed sand will be extracted.
2.2	Water (expected source & competing users) unit: KLD	Yes	4.0 KLD (Kilolitres per day) approximately, Source - nearby well (after getting approval from Gram Panchayat) and Use - for water sprinkling for dust suspension, human consumption for domestic purpose and plantation. Waste water will be reused.
2.3	Minerals (MT)	No	Not required.
2.4	Construction material – stone, aggregates, sand / soil (expected source – MT)	No	Not required.
2.5	Forests and timber (source – MT)	No	Not required.
2.6	Energy including electricity and fuels (source, competing users) Unit: fuel (MT), energy (MW)	Yes	Diesel required for Transport Vehicle. Electricity is not required as the mining activity will be done at day time only.
2.7	Any other natural resources (use appropriate standard units)	No	Not required

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	Not Applicable. Substances or materials which are hazardous (as per MSIHC rules) will not be used.
3.2	Changes in occurrence of disease or affect disease vectors (e.g. insect or water borne diseases)	No	No such changes will occur. Proper hygienic condition will be maintained in and around the mining lease area.
3.3	Affect the welfare of people e.g. by changing living conditions?	Yes	Sand mining will provide employment to the local villagers and hence improve socio-economic status of the villagers. CER funds will be used for welfare of the people of the local village area. EMP funds will improve the environmental quality.
3.4	Vulnerable groups of people who could be affected by the project e.g. hospital patients, children, the elderly etc.,	No	No such effect. Proposed mining project will not affect vulnerable groups of people. Schools, religious places and hospitals do not exist in the vicinity of the project.
3.5	Any other causes	No	Not applicable.

About actual or perceived risks to human health.

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 mining operation.
4.2	Municipal waste (domestic and or commercial wastes)	Yes	Insignificant amount of Municipal Solid Waste will be generated which will be used as manure for green belt areas.
4.3	Hazardous wastes (as per Hazardous Waste Management Rules)	No	No hazardous waste will be generated from the mining operation.
4.4	Other industrial process wastes	No	No such industrial process waste will be generated.
4.5	Surplus product	No	Sand will be excavated when demand will arise, so automatically the entire mined out product will be transported outside lease area and sold to the consumer.
4.6	Sewage sludge or other sludge from effluent treatment	No	No such sludge waste will be generated.
4.7	Construction or demolition wastes	No	No such construction or demolition waste will be generated.
4.8	Redundant machinery or equipment	No	Not applicable.
4.9	Contaminated soils or other materials	No	Owing to the nature the project, it does not contaminate any materials by releasing harmful solid, liquid or emissions.
4.10	Agricultural wastes	No	No any agriculture waste will be generated.
4.11	Other solid wastes	No	No 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	Insignificant quantity of emission of SO ₂ , NO ₂ and CO are expected from vehicles during transportation of sand material. It will be mitigated by proper maintenance of vehicles and use of only PSU certified vehicles during transportation.
5.2	Emissions from production processes	No	Water sprinkling will be done when transportation of sand will be done.
5.3	Emissions from materials handling including storage or transport	Yes	Sand will be extracted as demand will arise, so therefore storage is not required. Further, Insignificant quantity will be emitted as during the movement of transporting vehicles.
5.4	Emissions from construction activities including plant and equipment	No	No construction activities proposed in mining area.
5.5	Dust or odours from handling of materials including construction materials, sewage and waste	Yes	Project involves handling of sand, which normally dust / odour free. But, small quantity of dust will be generated due to moment of tractor. Water Sprinkling will be done
5.6	Emissions from incineration of waste	No	No incineration of waste will be generated.
5.7	Emissions from burning of waste in open air (e.g. slash materials, construction debris)	No	Burning of waste in open air is not required,
5.8	Emissions from any other sources	No	There is no any other source of emission.

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 with source of information data
6.1	From operation of equipment e.g. engines, ventilation plant, crushers	No	The mining operation possesses machinery or equipments like shoval, crowbar, picked axe, spades etc. The operation process does not require heavy machineries and neither interlinked industry or plants, therefore no noise, vibration and emissions of light and heat is expected.
6.2	From industrial or similar processes	No	No Industrial or similar process is proposed.
6.3	From construction or demolition	No	No any construction or demolition is required.
6.4	From blasting or piling	No	Sand forms unconsolidated placer deposit which needs no blasting or piling.
6.5	From construction or operational traffic	Yes	Noise will be generated from vehicle movement during transportation which will be kept within prescribed limit.
6.6	From lighting or cooling systems	No	No any lighting or cooling system required.
6.7	From any other sources	No	None is proposed to use.

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	No use of any hazardous materials is proposed.
7.2	From discharge of sewage or other effluents to water or the land (expected mode and place of discharge)	No	No sewage or any other effluents are proposed to be discharged.
7.3	By deposition of pollutants emitted to air into the land or into water	No	No deposition of emitted pollutants is envisaged to air on the land or into water. Regular water sprinkling will be done.
7.4	From any other sources	No	No other sources are expected to release pollutants.
7.5	Is there a risk of long term build up of pollutants in the environment from these Sources?	No	There is no risk of long term build up of pollutants in the environment from any source.

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	There is no such risk of accidental explosion.
8.2	From any other causes	Yes	Minor accidents may take place during mining operation (during loading, unloading etc.). To deal with that, first aid facilities will be provided in the mine site.
8.3	Could the project be affected by natural disasters causing environmental damage (e.g. floods, earthquakes, landslides, Cloudburst etc)?	No	The Project lies in Seismic Zone III, indicating a moderate damage risk zone. So, the affect by natural disasters causing environmental damage is less.

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. cities, 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 generate employment for the local people and will improve socio-economic condition of the local area.</p> <p>The project has no conventional structures of developmental work, solid or fluidal wastes or harmful emissions therefore it would not have any impact on the environment of any type of existing, developmental or other planned activities.</p>
9.2	Lead to after-use of the site, which could have an impact on the environment	No	The project would not have any impact on the environment after-use of the site. Sand will be replenished every year during monsoon by the river itself.
9.3	Set a precedent for later developments	Yes	Mining will be done in enviro-friendly manner; there by socio economic condition of villagers will improve.
9.4	Have cumulative effects due to proximity to other existing or planned projects with similar effects	No	No such activity is done in the vicinity.

(III) Environmental Sensitivity

S. No.	Areas	Name/ Identity	Aerial distance (within 15 km.) Proposed project location boundary
1	Areas protected under international conventions, national or local legislation for their ecological, landscape, cultural or other related value	No	No area protected under international conventions, national or local legislation for their ecological, landscape, cultural or other related value is located in the close vicinity (within 10 km).
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 which are important or sensitive for ecological reasons - Wetlands, watercourses or other water bodies, coastal zone, biospheres, mountains, forests are located in the close vicinity (within 10 km).
3	Areas used by protected, important or sensitive species of flora or fauna for breeding, nesting, foraging, resting, over wintering, migration	No	No protected or important or sensitive species of flora or fauna for breeding, nesting, foraging, resting, over wintering, migration are located in the close vicinity (within 10 km).
4	Inland, coastal, marine or underground waters	No	No Inland, coastal, marine or underground waters are located nearby. The project site is in riverbed, which has surface water flow. No underground water will be contaminated.
5	State, National boundaries	No	No State, National boundaries crosses nearby (within 1 km). India and Bangladesh International boundary at 73 km distance.
6	Routes or facilities used by the public for Access to recreation or other tourist, pilgrim areas.	No	No such routes or facilities used by the public for access to recreation or other tourist, pilgrim areas are situated in the close vicinity.
7	Defense installations	No	No such installations are situated in nearby area (within 10 km).
8	Densely populated or built-up area	No	Densely populated area is not situated in the vicinity (within 10 km).
9	Areas occupied by sensitive man-made land uses (<i>hospitals, schools, places of worship, community facilities</i>)	No	Hospital is at 4 km distance, School is at 1.2 km distance, Places of worship are at 5 km distance.

10	Areas containing important, high quality or scarce resources(ground water resources, surface resources, forestry, agriculture, fisheries, tourism, minerals)	No	No such areas containing important, high quality or scarce are located nearby (within 10 km). The Sand quarry is located within Damodar a River bed measuring 3.51 Hectare. Mining will be done without causing any harm to the river water.
11	Areas already subjected to pollution or Environmental damage. (those where existing legal environmental standards are exceeded)	No	No such area is located nearby.
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)	No	The Study area is lies in Seismic Zone III. However chances of any natural hazard are less. No such areas (which are susceptible to natural hazard) are located nearby.

I hereby given undertaking that the data and information given in the application and enclosure are true to the best of my knowledge and belief and I am aware that if any part of the data and information submitted is found to be false or misleading at any stage, the project will be rejected and clearance give, if any to the project will be revoked at our risk and cost.

Rainbow Infrastructure &
Housing Development Limited

(Authorized Signatory)

Date: 24.10.2024.

Place: Jamdaha.

Signature of the applicant

With name and Full Address

(Project proponent / Authorized Signatory)

Rainbow Infrastructure and Housing Development Limited (Director - Mahesh Kumar Gandhi)

Chanchai Camp No. 1, Post Office - Palla,

City – Bardhaman,, District – Purba Bardhaman,

West Bengal, Pin – 713 151.

NOTE:-

1. The project involving clearance under coastal regulation zone Notification, 1991 shall submit with the application a C.R. Z. map duly demarcated by one of the authorized agencies, showing the project activities, w.r.t. C.R.Z. (at the stage of TOR) and the recommendation of the State coastal zone Management Authority (at the stage of EC). Simultaneous action shall also be taken to obtain the requisite clearance under the provisions of the C.R.Z. Notification, 1991 for the activities to be located in the CRZ.

2. The project to be located within 10 km of the National Parks, Sanctuaries, Biosphere Reserves Migratory corridors of wild Animals, the project proponent shall submit the map duly authenticated showing by chief wildlife warden showing these features vis-à-vis the project location and the Recommendation or comments of the Chief Wildlife Warden “thereon (at the stage of EC).”
3. All correspondence with the Ministry of Environment & Forests including submission of application for TOR/Environment Clearances, Subsequent Clarification, as may be required from time to time, participation in the EAC Meeting on behalf of the project proponent shall be made by the authorized signatory only. The authorized signatory should also submit documents in support of his claim of being an authorized signatory for the specific project.