

Annexure 2: Environmental Screening Requirement

Name of the project Ghat	Aphalamukh Ghat
Date of Visit	
Duration	
Does the proposal relate to new project Expansion/ modernization	New Project Modernization
Ferry / Ghat Name:	North Guwahati Ghat
River Name: River Bank:	Brahmaputra North Bank
Team:	AIWTDS & EIA Consultant
Purpose of Site Visit	Environmental Screening
Length in kilometres from one Bank to other (South and North or Vice versa)	1.5km (approx.)
Daily Passengers Group Number Purpose	120/hr (Average)
Site Description	
Connectivity: By Road / Rail / Ferry - All	
Approach Road	PWD Road
Existing Facilities / infrastructure	Yes
Proposed Facilities / infrastructure	
Proposed locations for workshops / boat manufacturing units	
Geographical information Latitude: Longitude:	
G.T. Sheet No. (Survey of India Map No.) if available	G46E4, G46E8, G46K1, G46K5
Elevation above Mean Sea Level (meters) Min.: Max.:	90m 94m
Total Area proposed for the Project (in ha.)	Under Finalization by Design DPR
Nature of Terrain	Flood Plain
Nature of Soil (clayey, sandy, silty, loam etc)	Clayey
Current Land Use of the Proposed Project Site Area (in ha.) Design DPR	Under Finalization by

Agricultural	Irrigated	Not
	Un-Irrigated	
Homestead		No
Forest		No
Notified Industrial Area/Estate		No
Grazing		No
Fallow		No
Orchards		No
Sand dunes		No
No development zone		No
Marshes		No
National Park/Sanctuary		No
Alternate Routes Considered		No
Reason for selecting the proposed Route		Existing Ghat
Alternative Sites considered		No
Details of Alternative sites during site visit		Not Applicable
Land Use Plan		
Does the proposed project conform to the approved land use? If not, clearly indicate, which of the stretches are not as per approved land use.		Yes
Ownership		Riverside Land
Does it conform to the Regional Development Plan?		Yes
RRZ Details What is the categorization of the RRZ area		
Does the proposed activity qualify under the category of permissible activity? If yes, under what provision it is permitted		Yes. MoEF EIA Notification and amendments on December, 2017
Environmental sensitivity details within 10 km from the boundary of the project for applicability of "General Condition (GC)" as per EIA notification dated 14.9.2006 and amendments as on date		

S.No	Item	Name	Aerial Distance (in Km)
a.	Protected areas notified under the wild life (Protection) Act, 1972	NO	
b.	Critically polluted areas as identified by the CPCB	Not Applicable	
c.	Eco-sensitive areas as notified under section 3 of the E (P) Act 1986	Not Applicable	
d.	Inter-state boundaries and international boundaries	Not Applicable	

Environmental sensitivity areas as mentioned at column 9(III) of EIA Notification 2006.

Note: The details shall also include National park / Marine park / Sanctuary / Tiger reserve / Elephant Reserve / Turtle resting ground / Core zone of Biosphere reserve / Reserved forest / Wildlife habitat / Habitat of endangered / exotic species / Lakes / Reservoirs / Dams / Breeding site / Nesting site

S.No	Item	Name / Identity	Aerial distance (within 15 km) Proposed project location boundary
a.	Areas protected under international conventions, national or local legislation for their ecological, landscape, cultural or other related value	Not Applicable	
b.	Areas which are important or sensitive for ecological reasons – Wetlands, watercourses or other water bodies, coastal zone, biospheres, mountains, forests	NO	10km
c.	Areas used by protected, important or sensitive species of flora or fauna for breeding, nesting, foraging, resting, over wintering, migration	No	10km
d.	Inland, coastal, marine or underground waters	Brahmaputra River	0 km
e.	State, National boundaries	NA	
f.	Routes or facilities used by the public for access to recreation or other tourist, pilgrim areas	Majuli	0 km
g.	Defence installations	Not Applicable	
h.	Densely populated for built-up area	Dakhin Gaon	5km
i.	Areas occupied by sensitive man-made land uses (hospitals, schools, places of worship, community facilities)	Hospital Schools Places of	5km 5km 5km

		Worship	
j.	Areas containing important, high quality or scarce resources (ground water resources, surface resources, forestry, agriculture, fisheries, tourism, minerals)	Surface Water Tourism	0km 0 km
k.	Areas already subjected to pollution or environmental damage (those where existing legal environmental standards are exceeded)	Not Applicable	
l.	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)	Not Applicable	
Baseline data			
Ambient air quality data		Within the permissible limit	
Noise data		Within the permissible limit	
Human Settlement			
Human Settlement	Within the Project area	Within 500 mt of ROW	
Population	No	Nil	
No. of Houses	No	Nil	
Does the proposed project site involve any breeding or nesting ground? If yes, provide the following details			
Name of the aquatic organism		Detailed study on 'Gangetic Dolphin' is under process. This will be confirmed once the survey for 'wet season' completed	
Type of Habitat			
Period of year in which activity takes place			
Independent report of bio-habitat study may be furnished			
Does the Proposed Route Involve Migratory Path of Animals? If yes, please provide the following:			
Name of fauna		No	
Type of Habitat		No	
Period of year in which activity takes place		No	
Site Preparation			
Is the proposed area in low-lying area?		Yes	

Level before filling (above MSL in m)	Yet to be finalized after the finalization of DPR Report.
Level after filling (above MSL in m)	
Details of fill material required	
Quantity of fill material required (in cu.m)	Source
Would the above filling result in complete/ partial filling of water Bodies?	
<p>Does the site involve stripping / dredging? If yes, provide the following details:</p> <ul style="list-style-type: none"> ✓ Size of the area to be stripped / dredged ✓ Location ✓ Soil Type ✓ Volume & Quantity of Earth to be removed ✓ Location of Dumpsite ✓ Proposal for utilization of removed topsoil ✓ Management plan / location for dumping of dredged material 	<p>Yes,</p> <p>Aphalamukh Ghat</p> <p>Clayey</p> <p>7823m³</p> <p>Offshore dumping on the river</p> <p>Not Applicable</p> <p>Dredged materials will be dumped in the river</p>
<p>Does it involve cutting? If yes, provide the following details:</p> <ul style="list-style-type: none"> ✓ Size of the area to be cut ✓ Depth of Cut ✓ Location ✓ Soil Type ✓ Volume & Quantity of Earth & other materials to be removed ✓ Location of Dumpsite 	Yet to be finalized after the finalization of DPR Report.
<p>Does the site preparation require cutting of trees? If yes, please furnish the following details:</p> <ul style="list-style-type: none"> ✓ How many trees are to be cut? ✓ Species of the above trees ✓ Are there any protected/endangered species? If yes, provide details 	No
<p>In case the approach road passes through a flood plain of a river following details are required:</p> <ul style="list-style-type: none"> ✓ Detailed micro-drainage ✓ Flood passages ✓ Flood periodicity in the area 	Not Applicable since there is already approach road in the existing ghat.

<p>Does the proposed project involve construction on any sandy stretch? If yes, please furnish detail</p>	<p>Not Applicable</p>																				
<p>Does the project involve extraction of sand, levelling or digging of sandy stretches within 500 meters of high tide line? If yes, mention the activity involved and area. Stretch Area in sq.m</p>	<p>Not Applicable</p>																				
<p>Does the project involve any land reclamation? If yes, please provide the following details <ul style="list-style-type: none"> ✓ Activity for which land to be reclaimed ✓ Area of land to be reclaimed (Hectares) </p>	<p>Not Applicable</p>																				
<p>Does the Project have any Adverse Effect on Biodiversity? If so, details of flora and fauna so affected:</p>	<p>No</p>																				
<p>Natural resource conservation and optimization The use of alternative materials for construction such as fly ash, quarry over burden etc should be furnished</p>	<p>Yet to be finalized after the finalization of DPR Report.</p>																				
<p>Water requirements during construction (cu.m./day)</p>																					
<table border="1"> <thead> <tr> <th data-bbox="188 936 304 972">S.No</th> <th data-bbox="304 936 890 972">Purpose</th> <th data-bbox="890 936 1150 972">Demand</th> <th data-bbox="1150 936 1406 972">Source</th> </tr> </thead> <tbody> <tr> <td data-bbox="188 972 304 1008">1.</td> <td data-bbox="304 972 890 1008">Approach Road making</td> <td data-bbox="890 972 1150 1008" rowspan="5">Yet to be finalized after the finalization of DPR Report.</td> <td data-bbox="1150 972 1406 1008" rowspan="5"></td> </tr> <tr> <td data-bbox="188 1008 304 1043">2.</td> <td data-bbox="304 1008 890 1043">Infrastructure Constriction</td> </tr> <tr> <td data-bbox="188 1043 304 1079">3.</td> <td data-bbox="304 1043 890 1079">Dust Suppression</td> </tr> <tr> <td data-bbox="188 1079 304 1115">4.</td> <td data-bbox="304 1079 890 1115">Drinking</td> </tr> <tr> <td data-bbox="188 1115 304 1151">5.</td> <td data-bbox="304 1115 890 1151">Others (Please specify)</td> </tr> <tr> <td colspan="2" data-bbox="188 1151 890 1182">Total</td> <td></td> <td></td> </tr> </tbody> </table>		S.No	Purpose	Demand	Source	1.	Approach Road making	Yet to be finalized after the finalization of DPR Report.		2.	Infrastructure Constriction	3.	Dust Suppression	4.	Drinking	5.	Others (Please specify)	Total			
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<p>Solid Waste management-</p> <ul style="list-style-type: none"> • Arrangement should be made for segregation of waste into recyclable and non-recyclable waste • Non-recyclable waste generated should be disposed regularly through authorized agency. Recyclable waste should be sold to authorized vendors. • Construction waste generated should be segregated at site into recyclable, reusable & rejected fraction. Recyclable should be sold to authorized vendor, reusable waste should be stored at site for usage and rejected fraction should be disposed at designated sites of the municipal authority • If no debris or waste disposal site exists in the area then a site would be identified with approval of AIWTDS and would be used & manage for the same as per the Debris Management Plan. <p style="text-align: center;">Any waste oil generated from construction machinery, should be stored on concrete platform and disposed off to authorized recyclers.</p>																					
<p>An additional information and adopt relevant queries/practices for environmental screening and scoping under proposed project.</p>																					

Desk Review of Screening Parameters after Site Visit for each Location

Sr.No	Screening Questions	Yes / No / ? . Briefly describe
1.	Will construction, operation or decommissioning of the Project involve actions which will cause physical changes in the locality (topography, land use, changes in water bodies, etc.)?	Yes. The project is modernization of existing ghat in the River Brahmaputra.
2.	Will construction or operation of the Project use natural resources such as land, water, materials or energy, especially any resources which are non-renewable or in short supply?	Yes. The project is modernization of existing ghat in the River Brahmaputra.
3.	Will the Project involve 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?	No
4.	Will the Project produce solid wastes during construction or operation or decommissioning?	Some solid waste will be generated which shall be handled as per the prevailing best practices.
5.	Will the Project release pollutants or any hazardous, toxic or noxious substances to air?	Some noxious substance may be released during the construction stage due to the operation of DG Set etc. Permission from the SPCB shall be taken for it.
6.	Will the Project cause noise and vibration or release of light, heat energy or electromagnetic radiation?	Noise will be released during use of construction machineries.
7.	Will the Project lead to risks of contamination of land or water from releases of pollutants onto the ground or into surface waters, groundwater, coastal waters or the sea?	No
8.	Will there be any risk of accidents during construction or operation of the Project which could affect human health or the environment?	No
9.	Will the Project result in social changes, for example, in demography, traditional lifestyles, employment?	There will be generation of employment during the construction and operation stage.
10.	Are there any other 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?	River Embankment Project
11.	Are there any areas on or around the location which are protected under international or national or local legislation for their ecological, landscape, cultural or other value, which could be affected by the project?	Majuli
12.	Are there any other areas on or around the location which are important or sensitive for reasons of their	Brahmaputra River

	ecology e.g. wetlands, watercourses or other waterbodies, the coastal zone, mountains, forests or woodlands, which could be affected by the project?	
13.	Are there any areas on or around the location which are used by protected, important or sensitive species of fauna or flora e.g. for breeding, nesting, foraging, resting, overwintering, migration, which could be affected by the project?	Brahmaputra River for Gangetic Dolphin
14.	Are there any inland, coastal, marine or underground waters on or around the location which could be affected by the project?	Brahmaputra River
15.	Are there any areas or features of high landscape or scenic value on or around the location which could be affected by the project?	No
16.	Are there any routes or facilities on or around the location which are used by the public for access to recreation or other facilities, which could be affected by the project?	No
17.	Are there any transport routes on or around the location which are susceptible to congestion or which cause environmental problems, which could be affected by the project?	No
18.	Is the project in a location where it is likely to be highly visible to many people?	Yes the project is a part of public IWT transport
19.	Are there any areas or features of historic or cultural importance on or around the location which could be affected by the project?	No
20.	Is the project located in a previously undeveloped area where there will be loss of greenfield land?	No
21.	Are there existing land uses on or around the location e.g. homes, gardens, other private property, industry, commerce, recreation, public open space, community facilities, agriculture, forestry, tourism, mining or quarrying which could be affected by the project?	No
22.	Are there any plans for future land uses on or around the location which could be affected by the project?	No
23.	Are there any areas on or around the location which are densely populated or built-up, which could be affected by the project?	No
24.	Are there any areas on or around the location which is occupied by sensitive land uses e.g. hospitals, schools, places of worship, community facilities, which could be affected by the project?	No
25.	Are there any areas on or around the location which contain important, high quality or scarce resources e.g. groundwater, surface waters, forestry, agriculture, fisheries, tourism, minerals, which could be affected by the project?	Surface water of River Brahmaputra may be disturbed during the construction phase
26.	Are there any areas on or around the location which are already subject to pollution or environmental damage e.g. where existing legal environmental standards are exceeded, which could be affected by the project?	No
27.	Is the project location susceptible to earthquakes,	Project area is located at

	subsidence, landslides, erosion, flooding or extreme or adverse climatic conditions e.g. temperature inversions, fogs, severe winds, which could cause the project to present environmental problems?	Zone-V Seismic Zone of India
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