



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

To,

The The Executive Engineer (Nodal officer)  
PUBLIC WORKS (ROADS) DEPARTMENT  
Public works (Roads) Department, Brahmaputra bridge construction  
division, ARR&TI complex, Fatasil Ambari, Guwahati -781025

**Subject:** Grant of Environmental Clearance (EC) to the proposed Project Activity  
under the provision of EIA Notification 2006-regarding

Sir/Madam,

This is in reference to your application for Environmental Clearance (EC)  
in respect of project submitted to the SEIAA vide proposal number  
SIA/AS/MIS/72214/2022 dated 09 May 2022. The particulars of the environmental  
clearance granted to the project are as below.

- |   |  |
|---|--|
| 1. EC Identification No.                      | EC22B039AS197455   |
| 2. File No.                                   | SEIAA.2043/2022  |
| 3. Project Type                               | New  |
| 4. Category                                   | B1   |
| 5. Project/Activity including<br>Schedule No. | 8(b) Townships and Area Development<br>projects.   |
| 6. Name of Project                            | Construction of a bridge over the<br>Brahmaputra River connecting Palasbari<br>to Sualkuchi in Kamrup, Assam |
| 7. Name of Company/Organization               | PUBLIC WORKS (ROADS)<br>DEPARTMENT   |
| 8. Location of Project                        | Assam  |
| 9. TOR Date                                   | 01 Apr 2022  |

The project details along with terms and conditions are appended herewith from page  
no 2 onwards.

Date: 04/06/2022

(e-signed)  
Indreswar Kalita  
Member Secretary  
SEIAA - (Assam)

*Note: A valid environmental clearance shall be one that has EC identification  
number & E-Sign generated from PARIVESH. Please quote identification  
number in all future correspondence.*

*This is a computer generated cover page.*

PARIVESH

(Pro-Active and Responsive Facilitation by Interactive,  
and Virtuous Environmental Single-Window Hub)



This has reference to your application for Prior Environmental Clearance Proposal No. SIA/AS/MIS/72214/2022 dated 09/05/2022 along with Form-1, Form-2, Form-1A, Application for EC, Executive Summary, DPR, EMP and other relevant documents for **“Construction of a Bridge over the Brahmaputra River Connecting Palasbari to Sualkuchi, Kamrup, Assam** and requested for issuance of EC under EIA notification 2006 and subsequent amendment along with the order of NGT dated 12<sup>th</sup> Feb. 2015. The project proposal is considered as category 8 (b) project of EIA notification 2006. ToR is granted by SEIAA, Assam vide letter no. SEIAA.2043/2022/TOR/1700 on 1<sup>st</sup> April, 2022. The proposal has been appraised as per prescribed procedure in the light of provision of EIA notification 2006 in SEAC meeting held on 11/05/2022 and discussed in details on the presentation of the project. After a threadbare discussion the committee recommended the project proposal with a rider on the following points to be examined by the SEIAA, Assam.

- *Distribution pattern of Gangetic Dolphin spotted area.*
- *Results of hydrological modeling carried out at IIT, Roorkee should be translated to the project site and probable/likely changes in the Brahmaputra should be delineated on the recent satellite images of the river Brahmaputra.*

The SEIAA invited three expert members of SEAC namely *Sri S. K. Seal Sarma, Chairman, SEAC, Assam, Prof. B.P. Duarah, Member SEAC, Assam and Prof. S Phukan, Member SEAC, Assam and examined the points raised by SEAC through a detailed presentation given by the experts Prof. Zulfequer Ahmed, IIT Roorkee, Deptt of Civil Engineering and Dr. Bhrighu Saikia .*

The project was approved for issuance of EC with following additional specific conditions. The monitoring and management of Dolphin and other endangered species will be done as per the EIA report and the recommendation will be provided to SEIAA by Dr. Bhrighu Saikia.

- a. Contour map of the river channel be corrected.
- b. Adequate bank protection along both the banks in the river section is required.

The project comes under Schedule 8(a) and Category “B” as per EIA Notification. The proposed bridge over the Brahmaputra river is of about 3.60 km. The proposed bridge travers between 26°05'24.29" N 91°33'32.27" E at Palashbari at South Bank in Guwahati City to 26°11'21.87" N 91°33'36.36" E at Sualkuchi, North Bank of River. 5.384 km long approach road on the southern bank is required to connect to the NH 17 near Kaita Sidhi. The approach Road on the northern bank of the river is expected to be 2.8 km long and will connect to Sualkuchi Road near Bathan Pam. Construction of the bridge will reduce the travel distance between Palashbari to Sualkuchi from 38 km to 12.21 km. The power demand will be met from Assam Electricity Supply through grid supply, which will reduce the load on self-generation. Moreover, standby DG sets of total capacity 1500 KVA + 200 KVA will be used in small units as per requirement. The proposed project necessitates the supply of 94 KLD during construction phase. The proponent shall produce this water from the tanker and municipal supply.

The total project estimated approx. Rs. 3197.20 Crores, out of the total cost approx. Rs.18.65 crores is allocated for environmental management and Rs.176.93 crores for land acquisition, compensation, resettlement and rehabilitation.

Accordingly, SEIAA, Assam hereby accords necessary Environmental Clearance for the above project as per the provisions of Environmental Impact Assessment Notification, 2006 and its subsequent amendments subject to strict compliance of the terms and conditions as follows:-


  
Member Secretary  
SEIAA, Assam  
S. K. Seal



## **PART-A. SPECIFIC CONDITIONS:**

### **I. CONSTRUCTION PHASE**

1. 'Consent' shall be obtained from Assam Pollution Control Board, Assam Air (Prevention & Control of Pollution) Act, 1981 and Water (Prevention & Control of Pollution) Act, 1974 and a copy of the same shall be submitted to the State Level Environment Impact Assessment Authority, Assam.
2. The project Proponent shall obtain all other necessary requisite clearances/ permissions from concerned authorities/ agencies required for undertaking the work.
3. Necessary mitigative measures against adverse impact to the water bodies that are to be affected shall be provided.
4. There shall be no disposal of solid and liquid waste into the river Brahmaputra/ water body. The solid waste shall be properly collected, segregated and disposed as per the provision for solid waste (Management and handling), 2016.
5. A first air room to be provided in the project both during construction and operation phase of the project.
6. The approval of competent authority shall be obtained for structural safety of the bridge due to earthquake, including protection measures from lightening etc.
7. All required sanitary and hygienic measures should be maintained throughout the construction phase.
8. Provision shall be made for the housing of construction labour away from the humanitarian infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after completion of the project. Sanitary facility shall be provided with septic tank.
9. The project proponent shall ensure that the guidelines issued by Ministry of Environment, Forests & Climate Change (MoEF & CC), vide OM No. 19-2/2013IA.III dated 09.06.2015, to be followed for building and construction projects to ensure sustainable environmental management in pursuance of Notification No. 3252 (E) dated 22.12.2014 under the EIA Notification 2006, as applicable, are followed in this project.
10. All the top soil excavated during construction activities should be stored for horticulture/ landscape development within the project site.
11. Disposal of muck during construction phase should not create any adverse effect on the neighbouring communities and be disposed off after taking the necessary precautions for general safety and health aspects of people, only in approved sites with the approval of competent authority. The Rules on the Solid Waste Management including Construction waste issued by MoEF & CC as amended will be applicable.
12. Construction spoils, including bituminous material and other hazardous materials, must not be allowed to contaminate watercourses and the dump sites for such materials must be secured so that they should not leach into the ground water.
13. Spill of oil, fuel and wastes from automobile servicing units shall be have adequate treatment facilities as per norms and will be disposed off in accordance MoEF & CC guidelines etc.
14. All workers employed on various hazardous activities shall be provided with protective foot ware, musk, goggles & gloves etc.
15. At every work place, a readily available first aid unit shall be provided.
16. Any hazardous waste generated during construction and operation phase should be disposed off as per applicable rules and norms.

  
Member Secretary  
SEIAA, Assam  
*Arka*

17. During the construction phase for control of dust pollution all precautionary measure should be ensured in compliance of Hon'ble National Green Tribunal order dated 04.12.2014 & 10.04.2015 in O.A. No. 21 of 2014 and O.A. No. 95 of 2014.
18. Vehicle used for bringing construction material to the site and other machinery to be used during construction should be in good condition and should have a pollution under control certificate and should conform to applicable air and noise emission standard and should be operated only during non peak hours. The material loaded or unloaded should be covered (especially sand, excavated soil) before transportation to avoid fugitive emissions etc.
19. Techniques like, air extraction equipment, and covering scaffolding, hosing down road surfaces, reducing the speed vehicle, use of covering sheets for vehicles carrying construction materials and cleaning of vehicles to reduce dust and vapour emissions. Measures shall include appropriate containment around bulk storage tanks and materials stores to prevent spillages entering watercourses.
20. The diesel generator sets to be used during construction phase shall be low sulphur diesel type and should conform to Environment Protection Rules prescribed for air and noise emission standards.
21. The diesel required for operating DG sets shall be stored in underground tanks in a protected area.
22. Ambient noise levels should conform to prescribed standards both during day and night. Adequate measures should be made to reduce ambient air and noise level during construction and operation phase, so as to conform to the norms stipulated by CPCB. Ambient air and noise monitoring should be done by an accredited lab and data should also be submitted, on six monthly bases, with SEIAA & Regional Office of MoEF & CC. Incremental pollution loads on the ambient air and noise quality should be closely monitored during construction phase.
23. Fly Ash shall be used as construction materials in the construction as per the provisions of Fly Ash Notification of September, 1999 and amended to date if possible.
24. Ready Mix Concrete must be used in construction.
25. Water demand during construction shall be reduced by use of pre-mixed concrete, curing agents and other best practices preferred.
26. Ground water withdrawal shall not be done.
27. Health and safety norms of CPWD should be followed during construction. Soil and water samples of the site should be tested by the proponent through recognized laboratory to ascertain that there is no threat to ground water quality by leaching of heavy metals and other toxic contaminants, on quarterly basis for inclusion in the six monthly reports.
28. Energy Conservation Building Code to be strictly adopted in all aspects of building design and construction.
29. Regular supervision of the above and other measures for monitoring should be in place all through the construction phase, so as to avoid disturbance to all surroundings.
30. Water quality and ecosystem of the river shall not be disturbed and adequate measures shall be taken.
31. During construction of pillars of the river bridge, there shall be safety barrier and well visible danger marking for safe navigation of vessels, fishing boat etc. shall be provided.
32. The hot mix plant shall have APCD provision and emission shall comply with the standard limit as prescribed by MoEF & CC.

## **II. OPERATION PHASE**

1. Adequate precautions shall be taken to prevent danger from electrical equipments.
2. Rain water at both the said of the approaches will be channelized to storm water drain.

  
Member Secretary  
SEIAA, Assam  
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3. Utilization of Diesel power generating sets is subject to power failure condition only. The DG Sets proposed as a source of power back up during operation phase should be of enclosed type, low sulphur diesel run and conform to rules made under the Environment (Protection) Act, 1986. The DG sets should be subject to periodic noise and stack monitoring. Waste/ used diesel should be stored and managed as per Hazardous and other wastes (Management and Trans boundary Movement) Rules, 2016.
4. Noise should be controlled to ensure that it does not exceed the prescribed standards. During night time the noise levels measured at the boundary of the building shall be restricted to the permissible levels to comply with the prevalent regulations.
5. Energy Conservation measures with solar panel and LED light will be provided.
6. Grant of environmental clearance does not necessarily implies that water/ power supply shall be granted to the project and that their proposals for water/ power supply shall be considered by the respective authorities on their merits and decision taking.

### **III. ENTIRE LIFE OF THE PROJECT**

1. The project proponent will be responsible for the operation, maintenance and implementation of environmental safeguards for the project.
2. Environmental Management Cell shall remain functional to supervise and monitor the environment related aspects of the project.
3. Rain water harvesting system shall be properly maintained and kept functional and periodical cleaning of the same shall be undertaken specifically including the period before onset of the monsoon.
4. Incremental pollution loads on the ambient air quality, noise, stack and water quality should be periodically monitored.
5. Thick green belt of the adequate width and density with local species, as per plan submitted, shall be maintained.
6. Traffic congestion near the entry and exit points from the roads adjoining the project site must be avoided. Parking should be fully internalized and no public space should be utilized.

### **IV. SPECIFIC CONDITIONS**


1. Project proponent shall ensure that there shall be no disposal of construction spoils/ waste into the river Brahmaputra and in its flood plains and proper mitigation measures shall be adhered.
2. Project proponent shall carryout the analysis for aquatic and terrestrial samples of soil and surface as well as subsurface water for environmental parameters/ contaminants affecting ecological system. Water and soil sampling shall be carried out at two sites in the river (approximately 10 mt apart). One in each water body if any, and two subsurface sampling on both sides of river Brahmaputra 500 meters apart within the premises of Bridge width.
3. Project proponent shall assess the impact of bridge construction on migratory bird.
4. A monitoring cell for compliance of this Environmental Clearance shall be created headed by Chief Engineer, PWRD and officer of Forest Department, PCB Assam, Water Resource Department. Chief Engineer PWRD shall submit the report in every 6 months to SEIAA till completion of the project. The report will be reviewed in the meeting of SEIAA time to time.
5. Provide anti-carbonation paint to the complete structure to protect it from pollutants.
6. Traffic flow to be maintained at the existing roads both the sites during construction.
7. Project proponent shall take appropriate measures so that river flow is not obstructed during the construction and operation.
8. The construction debris shall be removed from the river side and shall be used for productive work like construction of road, embankment etc.

  
Member Secretary  
SEIAA, Assam  
*20/22*

9. The storm water from the bridge shall be properly channelized.
10. Ambient Air Quality may be impacted during construction; hence control measures like water sprinkling, road side plantation should be adopted.
11. Soil/sand excavation near the bridge should not be done after operationalization of the bridges.
12. Conservation measures shall be adopted to preserve aquatic and terrestrial fauna.
13. Bio-diversity in terms of flora and fauna shall be maintained.
14. The area temporarily used for storing the construction material and other activities shall be reclaimed by adequate plantation.
15. Plantation along the bridge and road shall be done with native varieties.
16. The waste generated during the construction shall be recycled/ reused to the extent possible.
17. Noise and Vibration shall be monitored time to time and control measures shall be adopted for human safety.
18. Control measures shall be taken to avoid soil erosion.
19. Project Proponent should ensure natural flow of river will not be obstructed through the project.
20. Efforts should be made to provide solar air light wherever possible.
21. Take adequate measures in maintenance activity to ensure that paint and other hazardous material do not enter in river and repairing area.
22. Remove large debris from bridge decks with sweeper or shovel. Scrape other material by hand before being collected or removed prior to pressure washing.
23. On both flanks of the bridge fencing at suitable height by proper mesh should be provided so that the garbage and other unwanted materials are not thrown in the river Brahmaputra.
24. The bridge and approach influence area shall have a quick drainage system. This drainage arrangement shall ensure surface run off diversion to the river stream.
25. Fire fighting arrangement shall be provided.
26. All signs, barricades, pavement marking shall be as per MORT & H specification.
27. Any sewage/waste water generated during the construction activities shall not be discharged into river Brahmaputra or flood plain and the same be disposed off after treatment.
28. Any diversion of drain or any other drain having confluence in river Brahmaputra only be undertaken with prior intimation to SEIAA, Assam and with due permission of concerned agencies i.e. Flood Control Department.
29. Hydraulic studies for the flow of river Brahmaputra shall be repeated after operationalization of the bridge specifically with respect to the impact on afflux and the report in this regard be submitted to Regional office of MoEF & CC, GOI and SEIAA, Assam.
30. A detailed report about the compensatory tree plantation done by the Forest Department shall be included in the Six Monthly Monitoring reports.
31. Traffic control measures including speed to be expected in all cross road, tunnel and sensitive areas etc.

#### **PART B – GENERAL CONDITIONS**

1. The project proponent should prominently advertise in at least two local Newspaper widely circulated in the region indicating that the project has accorded Environmental Clearance should be made within 10 days from the date of receipt of the Clearance letter and a copy of the same should be forwarded to the Regional Office of MoEF & CC and SEIAA, Assam.
2. The project proponent should submit copy of Environment Clearance to the Commissioner GMC and other concerned officers of the Government. The clearance letter shall also be put on the website of the project proponent.

  
Member Secretary  
SEIAA, Assam  
R. S. S.



3. The environmental safeguards and monitoring schedule as contained in the EMP should be implemented in letter and spirit & there will be no departure from the final project proposal as approval herein.
4. Corporate Social Responsibility and Corporate Environmental Responsibility shall be carried out as per direction of MoEF & CC, New Delhi.
5. The funds earmarked for environmental protection measures shall be kept in separate account and shall not be diverted for other purpose. Year-wise expenditure shall be reported to SEIAA and its concerned Regional Office of MoEF & CC, Shillong.
6. Officials from Regional Office, Ministry of Environment, Forests & Climate Change, Govt. of India/State Level Environment Impact Assessment Authority, Assam, Pollution Control Board, Assam who would be monitoring the implementation of environmental safeguards, should be given full cooperation, facilities and documents/data on site by the project proponents during their site inspection.
7. In the case of any change(s) in the scope of the project, the project would require a fresh appraisal by the DEAC and approval of SEIAA, Assam.
8. The project proponent shall comply with the notifications and court orders issued time to time regarding use, sale and storage of all kinds of plastic bags.
9. E-waste generated should be managed as per E-Waste (Management) Rules, 2016.
10. Hazardous waste should be disposed off as per Rules applicable.
11. The solid waste (dry as well as wet garbage) generated should be properly collected and segregated before disposal to Municipal Authorities in accordance with the Solid Waste Management Rules, 2016. Adequate measures should be taken to prevent odour problem.
12. Disaster management plan as submitted shall be adhered to in both the phases. Dissemination of information regarding any eventuality shall be done as per norms through Govt. agencies to general public.
13. Road safety measures as proposed shall be implemented.
14. Project proponent shall be taken with utmost preventive measures for conservation and protection of River Dolphin in the area as per the plan mentioned in EIA & EMP report.
15. State Environmental Impact Assessment Authority reserves the right to add additional safeguard measures subsequently, if found necessary, and to take action including the revoking of the environmental clearance under the provisions of the Environmental (Protection) Act, 1986, to ensure effective implementation of the suggested safeguard measures in a time bound and satisfactory manner.
16. All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department etc. shall be obtained, as applicable by project proponents from the respective competent authorities.
17. These stipulations would be enforced among other under the provisions of Water (Prevention and Control) Pollution Act, 1974, the Air (Prevention and Control) Act 1981, the Environment (Protection) Act, 1986, the Public Liability (Insurance) Act, 1991 and EIA Notification, 2006.
18. Status of compliance to the various stipulated environmental conditions and environmental safeguards will be uploaded by the project proponent in its website.
19. The project proponent shall also submit six monthly reports on the status of compliance of the stipulated EC conditions including results of monitoring data (both in hard & soft copies including photographs) to Regional Office, MOEF & CC, GOI and SEIAA-Assam.
20. This environmental clearance will be valid for a period of five (5) years from the date of issue.
21. It will be the responsibility of the project proponent to obtain prior clearance/approval and ensure compliances under all other relevant Acts/Rules/Regulations/guidelines/ instructions/Court Orders/Tribunal Orders as applicable to this project before starting of the project.

  
Member Secretary  
SEIAA, Assam  
Dika

22. Proper housekeeping and adequate occupational health programmes must be taken up. Occupational Health Surveillance Programme shall be done on a regular basis and records shall be maintained.
23. Under Corporate Environment responsibility (CER), appropriate budgetary provision shall be made as per MoEFCC OM F.No. 22-65/2017-IA.III dated 01/05/2018 and 19/06/2018 and to be spent for health improvement, education, drinking water facilities, and other socio-economic upliftment in and around the project area on both banks of the River with a detailed report of the CER work completed and in progress to the SEIAA on annual basis.

### **CONDITIONS FOR AQUATIC ECOLOGY**

#### **A. GENERAL CONDITION**

1. The bentonite clay used for pillar piling works shall be kept at minimum level and used bentonite clay waste shall not be released to Brahmaputra river.
2. The concrete transportation to the inside river construction site shall be done through by Transit Mixers fixed on barges and no washing of Transit Mixers, concrete waste shall be done in the river.
3. Construction camp and offices shall be at a distant location from the river bank and shall be provided with sewerage treatment plants and waste water treatment plants.
4. Construction casting yards, machinery plants, workers colony to be setup more than 1 km away from the water line of the river Brahmaputra.
5. No construction related boat movement shall be allowed beyond 500- meter periphery of the bridge alignment.
6. Contamination of oil and Chemical used in construction shall be restricted into the river water and waste oil and chemical to be sent to certified recycler.

#### **B. REGARDING MIGRATORY BIRDS**

1. In-river construction of the pillars and casting yard, workers colony, office colony etc. shall use less artificial lights at night to reduce the impact on migratory birds coming regularly to the area during winter months of the year. Short wavelength light color (viz. blue or green ) shall be used for such purposes.
2. As anticipated high lumen artificial light at night has been found to impact the navigation mechanism of birds and disorients them during night time migration. Hence, bridge lighting shall be done with short wavelength light such as blue or green, which found to have less disturbance on birds.
3. As the artificial light at night/ bridge construction work has some impact on the navigation mechanism of birds. Hence, migration movement studies by satellite collaring the migratory shall be done for monitoring the measures taken by the contractors such as using less artificial light at night to reduce the impact on migratory birds coming regularly to the area. As proposed in the Environmental Management Plan Twenty migratory birds to be studied with the help of satellite collaring after getting permission from the MOEF, Govt of India. This study shall be done by engaging independent agencies like Government Departments or by a Government University located within the 20km radius area from the proposed bridge alignment.



Member Secretary  
SEIAA, Assam  
*AGK*



### C. DOLPHIN

1. The Congregation, breeding area of the river dolphin shall be kept free from any kind of construction activity including the boat movement in the location.
2. The Ganges river Dolphin breeding ground has been there in the Sualkushi Kalimandir Deep pool area which is 3.5 km upstream from the bridge alignment this area needs to be monitored by independent agencies like Government Departments or by a Government University located within the 20km radius area from the proposed bridge alignment connecting Palashbari with Sualkushi. These monitoring shall be done on the population of the Ganges river dolphin, their habitat and breeding locations with the help of underwater bathymetry study equipment (ADCP Sontek M9) and Sonars (Garmin Panoptix) .
3. The underwater noise during construction shall be studied by independent agencies viz. Government Departments or by a Government University located within the 20km radius area from the proposed bridge alignment with under water sound analysis devices like Hydrophone and FFT Spectrum analyzer (e.g. ZETLAB equipment's) to monitor disturbance.
4. Monthly monitoring of Gangetic river dolphin population by the independent agencies like Government Departments or by a Government University located within the 20km radius area from the proposed bridge alignment shall be carried out regularly during construction and operation phase.
5. The dolphin natural movements shall be monitored by independent agencies like Government Departments or by a Government University.
6. It is anticipated that the boats used for the construction activity may kill the Gangetic river dolphin with mechanical injury from the boat propeller fan. Hence, boat propeller to be protected with propeller guard.
7. Awareness among the workers, boatman shall be done on dolphin conservation and consequences of poaching as poaching is a legally punishable offence under Indian Wildlife Protection Act, 1972.
8. Conservation awareness shall be created among the local populaces with emphasis on students.

### D. TURTLE

1. During the winter months as the Turtle visits the sand bars for laying eggs and hence during this season the construction in the egg laying sand bars to be kept free of construction works, pilling activity, road construction etc. Regular monitoring shall be done to identify egg laying sites. If eggs found during excavation of sand it shall be informed to the Assam Forest Department for safe handling and conservation of the same.
2. Workers colony must have security personnel to monitor their movement in and out of the camp and shall not be allowed to venture in to the sand bars of the river Brahmaputra for collecting Turtle eggs and poaching turtle in the sandbars close to Palashbari and Sualkushi area.
3. The regular turtle monitoring shall be conducted by engaging independent agencies like Government Departments or by a Government University located within the 20km radius area from the proposed bridge alignment connecting Palashbari with Sualkushi. It will help in keeping an eye on population of the turtle species.

  
Member Secretary  
SEIAA, Assam  
*AS/12*

#### E. FISH

1. Continuous monitoring to be done regularly to identify the on set of the migration of the *Hilsha* through the main channel of the Brahmaputra River at the bridge construction site and migration route to be kept free of construction activity and boat movement.
2. The fish spawning ground having complex hydrological parameters, present at the upstream (3.2Km), downstream (3.5 km) of the bridge alignment shall be kept free of free of construction activity and boat movement.
3. No fishing by the workers shall be allowed.
4. Since there has been some level of impact on the fish spawning the population of the spawn in the natural river may go down hence, release of fish fingerling belonging to the local variety of fishes to be released in the beginning of the monsoon season. The local fish species fingerling to be released shall be 10 lakhs in number in each year as proposed in the Environmental Management Plan.
5. The fish species to be monitored on monthly basis.

#### F. WETLAND RESTORATION

1. On the north side of the Bridge alignment the viaduct of the bridge passes through wetland, which to be maintained with its baseline ecological setup and restoration shall be done with the help of Forest Department

#### G. IMPLEMENTATION ARRANGEMENT OF AQUATIC ECOLOGY WORKS:

1. The work under the Aquatic ecology related **with Dolphin, Migratory Birds, Turtle and Fishes** shall be done by the PWD directly by engaging third party i.e. independent agencies like Government Departments or by a Government University as mentioned in the Environmental Management Plan submitted for Environmental Clearance.

  
04/06/2022

*Member Secretary*  
*SEIAA, Assam*  
*Bamunimaidam, Guwahati-21*  
*Alcha*



**Copy to:** -

1. The Joint Secretary, Ministry of Environment, Forest and Climate Change, Government of India, MoEF, Indira Paryavaran Bhawan, Jorbagh Rd, New Delhi-110003 for favour of kind information.
2. The Secretary to the Govt. of Assam, Environment & Forest Department, Dispur, Guwahati-6 for favour of information.
3. The PCCF, HoFF, Govt. of Assam, Panjabari, Guwahati-37 for favour of kind information.
4. The Member Secretary P.C.B. Assam for favour of information.
5. The Integrated Regional Office, MoEF & CC, 4<sup>th</sup> Floor, Housefed Building, GS Road, Rukminigaon, Guwahati-22 for favour of information.
6. Office file.



**Member Secretary  
SEIAA, Assam**

**Bamunimaidam, Guwahati-21**

*SKKa*