

1/50148/2022

Govt. Of Assam
Assam State Disaster Management Authority
Ancillary Block, O.P SBI, Secretariate Branch, Dispur: Guwahati-6
AIRBMP

ECF- 222847/ 70

Dated- 21th Sept' 2022

E-Procurement Notice
Request for Expression of Interest (REOI)
(Consulting Services- DMSC Services)

Name of the Project: Assam Integrated River Basin Management Program (AIRBMP)

E-Tender Ref. No: IN-ASDMA-312161-CS-QCBS

Assignment Title: Procurement of Design, Management & Supervision Consultancy for Flood Shelter and allied.

The Government of India has applied for financing from the World Bank towards cost of the **Assam Integrated River Basin Management Program (AIRBMP)** project. Under the project, Chief Executive Officer, Assam State Disaster Management Authority (ASDMA), Govt. of Assam invites Request for Expression of Interest (REOI) through National Open Competitive process from eligible Consultancy Firm for the aforesaid assignment. Complete documents of the REOI shall be available on website <https://assamtenders.gov.in> and <https://asdma.assam.gov.in>.

Intending bidders are required to register at e-tender portal of the Assam Govt. <https://assamtenders.gov.in> and participate through e-tender portal only.

The Last Date and time for online submission of REOI is on 25.10.2022 at 13.00 HRS (IST).

Signed by Gyanendra Dev Tripathi

Date: 24-09-2022 01:18:56

Reason Approved

**Chief Executive Officer,
Assam State Disaster Management Authority
Dispur, Guwahati- 781006**

Memo- 222847/ 70(A)

Dated- 21th Sept' 2022

Copy to:

1. CEO, FREMAA for kind information.
2. The Director, DIPR, Govt. of Assam, for arranging publication of the above notification in one leading English local daily and one Assamese Daily and two National Daily (Delhi and Mumbai Edition).
3. For uploading in assamtenders.gov.in and asdma.assam.gov.in.
4. The office Notice Board.

-sd/-

**Chief Executive Officer,
Assam State Disaster Management Authority
Dispur, Guwahati- 781006**

REQUEST FOR EXPRESSIONS OF INTEREST

Country-India

Project-Assam Integrated River Basin Management Program (AIRBMP)-P174593

Assignment Title: Design, Management & Supervision Consultant for Augmentation of Existing Schools, Construction of Multi-purpose Flood Shelters and allied.

Reference No.: IN-ASDMA-312161-CS-QCBS

1. The Government of Assam *has applied for* financing from the World Bank toward the cost of the **Assam Integrated River Basin Management Program-P174593** and intends to apply part of the proceeds for consulting services.
2. The consulting services (“the Services”) include: **Design, Management & Supervision Consultant for Augmentation of Existing Schools, Construction of Multi-purpose Flood Shelters and allied** for a period of 4 years with a tentative input of around 588 person months of key expert. The objective of the consulting services is to provide support to Assam State Disaster Management Authority and other partner stakeholders in project planning, technical designing, Management, Technical Supervision, environment and social safeguards etc. in addition to progress monitoring, evaluation and management.
3. The detailed Terms of Reference (TOR) for the assignment *can be found at the following website: assamtenders.gov.in* and also attached as **Annexure** to this EoI.
4. The Assam State Disaster Management Authority now invites eligible consulting firms (“Consultants”) to indicate their interest in providing the Services. Interested Consultants should provide information demonstrating that they have the required qualifications and relevant experience to perform the Services. The following information is requested:
 - a. Brief Profile and General experience of the Firm(s);
 - b. Experience in similar projects of compatible size, complexity and technical specialty in the required areas;
 - c. Experience in execution of Design, Management, Supervision & Quality Assurance assignments for projects financed by multilateral agencies.
 - d. List of ongoing projects with their tenure.
 - e. Financial capacity of the firm including turnover from consulting services for the last five years which should not be less than US\$ 1.90 million or INR 15 crores;
 - f. Managerial capability for monitoring team performance including Complaints Redressal Mechanism, Staffing and Logistics of the firm; and
 - g. List of permanent staff relevant for the assignment.
5. While indicating information relating to (b), it shall be made clear whether responsibility of the firm was in the capacity of a principal firm (lead partner) or as an associated firm (subconsultant/JV partner) with detail scope of the service.
6. Consultants are requested to submit the following supporting documents against the above-mentioned criteria:(a) Registration certificate of the firm(s); (b) JV agreement/letter of intent (if applicable); (c) Firm’s brochure; (d) Audited financial

reports for last five years. Annual turnover should be equal or more than USD 1.90 million;(e) service experience record/completion certificate (including nature, total cost, total input in terms of staff month, employer, location of service, scope of services etc.).

7. The experience of a parent company, subsidiary company, group company or associates (whatever the names) of the Applicant shall not be considered in evaluation.
8. Submission of the REOI/documents in chronological order as mentioned above (a-g) will be given additional weightage. Non submission of the documents listed above may lead to rejection.
9. While evaluating Expression of Interest (EOI), Client will assign higher score for larger number of years in core business, experience of similar role in implementing larger number of Projects or high value Projects of similar nature and comparable complexity, high turnover/revenues from consulting assignments, financial soundness, Technical and Managerial capability, and larger number of full-time experts on the Consultant's pay roll whose experience and qualifications are similar to those of Key Experts.
10. Consultants are informed that the Key Experts will not be evaluated at the shortlisting stage.
11. The attention of interested Consultants is drawn to Section III, paragraphs, 3.14, 3.16, and 3.17 of the World Bank's "Procurement Regulations for IPF Borrowers" July 2016 (Revised November 2020) ("Procurement Regulations"), setting forth the World Bank's policy on conflict of interest.
12. Consultants may associate with other firms in the form of a joint venture or a sub-consultancy to enhance their qualifications. In the case of an association, all members of such "association" should have real and well-defined inputs to the assignment and the total number of firms including their associates shall be maximum of three. In case of association in the form of sub consultancy, the experience of sub-consultant shall not be considered in evaluation.
13. A Consultant will be selected in accordance with the Quality and Cost Based Selection (QCBS) method as set out in Section VII, paragraph 7.3 of the World Bank's "Procurement Regulations for IPF Borrowers" July 2016, revised August 2018 ("Procurement Regulations").
14. The detailed Terms of Reference for the assignment can be found at the following weblink: www.assamtenders.gov.in.

Further information can be obtained at the address below during office hours. Queries may also be mailed at airbmpasdmapiu@gmail.com with subject line –

"Query-EoI-DMSC (AIRBMP) -ASDMA <Name of the Firm>" latest by **07.10.2022**. The consolidated replies of queries will be uploaded at www.assamtenders.gov.in on or before 14.10.2022 At 16.00 HRS.

15. Interested firms/organizations may upload Expressions of interest along with the aforesaid supporting documents at the e-procurement portal of Govt. of Assam viz. www.assamtenders.gov.in as detailed below.

- i) Online EoI proposal submission Start Date:15.10.2022 at 13.00 HRS (IST)
- ii) Online EoI proposal submission End Date:25.10.2022 at 13.00 HRS (IST)
- iii) Online opening of EoIs through www.assamtenders.gov.in on 25.10.2022 at 15.00 HRS (IST).

Assam State Disaster Management Authority

Attn: CEO, ASDMA

Ancillary Block, Janata Bhawan, Dispur

781006, Guwahati, Assam

Tel: 0361-2237221

E-mail: airbmpasdmapiu@gmail.com

**TERMS OF REFERENCE (TOR)
OF
DESIGN, MANAGEMENT AND SUPERVISION CONSULTANT (DMSC)
FOR
CONSTRUCTION OF NEW FLOOD SHELTERS, RETROFITTING AND
AUGMENTING OF EXISTING FLOOD SHELTERS, APPROACH ROADS AND
ALLIED
[SUB-COMPONENT-3.1 OF AIRBMP]
&
CONSTRUCTION & DEVELOPMENT OF STORE-ROOM FOR MATERIAL BANK
AND CENTRAL TRAINING INSTITUTE (CTI).
[SUB-COMPONENT-3.3 OF AIRBMP]**

1. BACKGROUND

The State of Assam is strategically important as the largest and most populous State in the Northeast and holds great potential for development through improved water resources management. However, Assam is one of the States hardest hit by erosion and flood hazards. Climate change is expected to exacerbate current hazards and lead to more frequent floods and accelerated soil erosion. A progressive and systematic approach is needed to address the key water-related risks and opportunities in Assam.

The Assam Integrated River Basin Management Program (AIRBMP), responds to the Government of Assam's (GoA) request to support improved water resources management for economic growth and prosperity, including addressing flood and river erosion risks. The program focuses on building the requisite institutional capacity, filling critical knowledge gaps, and implementing integrated solutions to tackle the current challenges for climate resilient growth and improved livelihoods. The expected funding is US\$ 500 million following a Multiphase Programmatic Approach (MPA). The MPA would consist of three overlapping phases or projects over a total of ten years. The first phase of the program (referred to as "the project" from here on) is US\$ 135 million. The Project Development Objective (PDO) of the first phase is: To strengthen institutional capacity for integrated water resources planning and management, and to enhance preparedness for flood and river erosion risks in Assam.

Key implementing agencies for AIRBMP include Water Resources Department (WRD), Flood and River Erosion Management Agency of Assam (FREMAA), and **Assam State Disaster Management Authority (ASDMA)**.

Project components are presented below and subject to adjustments as the project design evolves during the preparation stage.

Component 3: Disaster Risk Management (\$34M).

This component supports the development of early warning and dissemination systems, enhances disaster response at the local levels, and helps enhance the climate resilience of selected villages.

This ToR concerns the following Sub-components: 3.1: "Flood Shelters"; 3.3: "Strengthening Revenue Circle Disaster Management"

2. OBJECTIVE OF THIS ASSIGNMENT

The Broad objective of the Design, Management & Supervision Consultant (DMSC) is to provide Design Management & Technical Supervisory services to implement the activities under Component 3: Disaster Risk Management; Sub-Component-3.1: "Flood Shelters"; Sub-component-3.3: "Strengthening Revenue Circle Disaster Management"

The DMSC is expected to provide Technical and Management support to ASDMA and other partner institutions/stakeholders in project planning, procurement, financial management, technical aspects, construction supervision, progress monitoring & evaluation.

The services from the proposed DMSC must be comprehensive in nature primarily to achieve at least the following broad objectives at the end of this consulting assignment.

The Broad Objectives expected at the end of the proposed DMSC assignment is tabulated with the current status which is indicative in nature –

Table 1

Component	Activity	Details on current status & DMSC to proceed from (Indicative)
3.1.1 (Phase I)	Construction of 10 Numbers of new Flood Shelters Tentative Budget - \$8 M	Community consultations, geotechnical investigations for 6 out of 10 have been undertaken. DPRs for 2 have been prepared but design will need revision.
3.1.2 (Phase I)	Retrofitting and augmentation of 30 numbers of existing flood shelters Tentative Budget - \$4 M	DPR for 5 project sites out of 30 (tentative) has been drafted. Community consultations and Rapid Visual Surveys for 19 sites have been completed
3.1.3 (Phase II)	Retrofitting and augmentation of tentative 100 numbers of existing flood shelters	Sites under identification At least achieved the bidding stage post approval of DPR prepared by the DMSC;
3.3.1 (Phase I)	Construction of Store Room for Material bank under CQRT in 52 CEOCs with innovative and feasible solutions Tentative Budget – \$1M	Sites under identification
3.3.2 (Phase I)	Upgradation of Central Training Institute at Panikhaiti. -design and construction of a Swimming pool, two barracks and a master plan for the CTI Tentative Budget – \$2M	Existing site.

3. SCOPE OF WORK

The scope of service for the consultant is to complete the activities as listed above from planning & design phase up to completion of the project through supervision including support for handing over the completed components to the client/employer.

The Consultant firm shall provide architectural and Detail engineering services for planning, designing and supervision of construction of project components and all internal and external utility services as per provisions in the National Building code 2016 (electrical, water supply, sewerage, storm water drainage, protection work, compound lighting, fire-fighting, landscaping, interior design, development plans showing roads, parking, paths, parks, paved areas, drains, compound walls, external lighting, etc) indicating scope, specifications and cost separately of each subhead, shall be carried out wherever required. The planning, design and execution of the project is to follow all rules, regulations and bye-laws of all requisite Statutory Bodies. Area requirement for each component shall be planned by the design consultant up to a maximum permissible limit of F.A.R. and should be designed in such a way that it should full fill the requirement of the project.

The Scope of the DMSC revolves around Component 3; Sub-Component 3.1& 3.3 only. The project specific details which include Tentative site locations and details of the proposed Flood Shelters, existing structures for retrofitting / augmentation & Store Room for Material Bank and CTIs is attached as **Annexure-I A & Annexure-I B respectively**

The DMSC is proposed for providing Design, Management and Technical Supervision of the following Structural project components-

1. Construction of New Flood Shelters (Phase I)
2. Augmentation and retrofitting of existing Flood Shelters (Phase I and Phase II).
3. Construction of a CQRT equipment storage facility (Phase I)
4. Construction and Development of Swimming Pool, Two Barracks and allied infrastructural works including development of a Master Plan for the Central Training Institute at Panikhaiti to a full-fledged modern training Institute

Project Location and Details-

The Project Sites are within the State of Assam. The land/s for the projects are available in possession Govt. of Assam or will be made available.

The detailed location of the Project sites for Component 3.1 and 3.3 may be referred as **Annexure-IA & Annexure-IB respectively.**

The Indicative activities of the DMSC under this assignment is laid down below.

Activity 1 – Design support during investment planning and preparation stage

Indicative sub-activities under Design and investment Planning stage are, but not limited to-

1. Technical Investigations including geotechnical surveys, Rapid Visual Survey, Non-destructive testing, other technical analysis as required for Proposed New Flood Shelters and Existing Flood Shelter Structures under component 3.2. This shall include all requisite tests, surveys and inspections required for retrofitting works as per prevailing norms and regulations
2. Technical Investigations including geotechnical surveys as needed, technical analysis for proposed Material Bank for CQRT equipment's with innovative solutions to best suit the site requirements and project demand and Development of Central Training Institute into full-fledged modern training Institute under component 3.3.
3. Consultations with community, users, user departments, other stakeholders as per the specificities of each sub-component
4. Preparation of the Design Brief to be approved by the user department
5. Development of architectural conceptual design to be approved by the user department
6. Development of final architectural design to be approved by the user department
7. Review of existing DPRs for Proposed New Flood Shelters and Existing Flood Shelter Structures and updating the DPRs as per the need of the project;
8. Preparation of Detailed Project Report for Proposed New Flood Shelters and Existing Flood Shelter Structures under component 3.2. This shall include DPRs for projects taken up as Phase I and Phase II as outlined in "Objectives of the Assignment";
9. Preparation of Detailed Project Report for proposed Construction of Material Bank Store Room and Development of Central Training Institute into full-fledged modern training Institute under component 3.3.
10. Preparation of ESIA's, ESMPs, RAP, SEA/SH and allied Social, Environmental and Gender related project documents as per World Bank (IBRD) requirements for both the components;
11. Preparation of Detailed Estimates and associated details for readiness for bidding as per World Bank regulations;
12. Assurances in Preparation of bid documents and support for bid process management and contracting; Assurances in Preparation of bidding documents in accordance with the World Bank Procurement Regulations, ensuring appropriate performance indicators are included.

13. Prepare the various schedules in the bid documents, including technical specifications, construction schedules, applicable Environment Health and Safety (EHS) Guidelines, O&M schedules, environmental and social safeguards measures including SEA/SH risk mitigation measures in line with the ESMP prepared for the sub-project, and in line with WB safeguard policies, as per the Project 's construction and operational requirements.
14. Provide coordination support to the PIU, ASDMA;
15. Provide handholding support to PIU& ASDMA during tendering processes, pre-bid meetings, minutes of pre-bid meetings and corrigendum/addendums, bid evaluations, negotiations (as applicable) and contract executions.

The Content/format/template of the DPRs shall be confirmed by ASDMA/PIU.

Activity 2 –Technical Design and Supervision support during investment implementation stage (Construction Stage)

i. Sub-Activity A – Supervision support for ESMP Implementation and of other management plans:

The consultant shall

- a. Provide oversight on environmental and social management aspects of sub-projects and ensure ESMPs are implemented.
- b. Ensure timely disclosure of final ESIA, ESMPs, RAP, and other management plans as required before implementation, as part of project preparation in project locations and in a form accessible to the public.
- c. Support to undertake resettlement activities as outlined in the RAP e.g. obtaining cadastral maps, confirming land ownership, land acquisition activities, provision of compensation and livelihoods support, consultations with project-affected people etc.
- d. This includes ensuring that awareness raising sessions on workers Code of Conduct (CoC) are provided to workers (and are part of bidding documents) and that CoCs are required to be signed by all workers.
- e. Establish a system to monitor environmental and social safeguards comprising of COVID 19 measures of the sub-project regularly via site visits etc., including monitoring the indicators set out in the monitoring plan of the ESMPs
- f. Monitor the effectiveness with which the ESMP and other management plans such as RAP are implemented and recommend necessary corrective actions to be taken to the PIU/ ASDMA
- g. Prepare monthly progress reports on ESMP implementation and environmental monitoring reports on sub-projects and submit them to Client for approval.
- h. Ensure that consultations are being undertaken in line with management plans including meaningful consultation with women throughout the project lifecycle
- i. Ensure that the grievance mechanism is functioning effectively and is receiving grievances, including channels for SEA/SH-related grievances; make recommendations to address any grievances brought about through the Grievance Redress Mechanism in a timely manner as per the ESIA, ESMPs, RAP, SEA/SH.

ii. Sub-Activity B- Technical Designs, Drawings and updating of Designs-

The consult shall-

- a. Prepare Technical Plans, Good for Construction (GFC) Drawings, Structural Design Basis Reports and allied technical detailing for construction purpose based on ground requirements and feasibility for the proposed new Flood Shelters as detailed in Annexure I A. The proposed design must be of aspirational/best in class with uniformity in terms of Elevation and non-structural design;

- b. Prepare Technical Plans, Good for Construction (GFC) Drawings, Structural Design Basis Reports and allied technical detailing for construction purpose based on ground requirements and feasibility for the proposed flood shelter to be retrofitted/augmented as detailed in Annexure I A. The proposed design must be of aspirational/best in class with uniformity in terms of Elevation and non-structural design;
 - c. Prepare Technical Plans, Good for Construction (GFC) Drawings, Structural Design Basis Reports and allied technical detailing for construction purpose based on ground requirements and feasibility for the proposed upgradation and develop works for the Central training Institute (CTI) in Panikhaiti, Assam and prefabricated material store space in 52 Circle Office detailed in Annexure I B.
 - d. Detailed Architectural layout & Structural design of the building infrastructure and training components, site development and landscaping including all relevant structural design, design as per NBC 2016 of all electrical, mechanical, plumbing, sanitation and other relevant services like IT & networking/communications, etc whichever required.
 - e. Detailed architecture layout & design of all interiors including all furnishing and fittings, and all special purpose interiors.
 - f. Prepare detailed estimates for works, bills of quantities (BOQ) and estimated project cost for the entire project based on CPWD specification DSR rates. IS codes and market rate for the analysis of rate for non-scheduled items (NSI). The estimation of quantities shall be based on detailed design of all the components of the projects. The Consultant shall prepare and submit Detailed Project Report (DPR) in different volumes as directed by the client/employer for construction of all Training components with allied services, which should include Main Report, Design Base Report, Material Report, Technical Specification, Rate Analysis, Cost Estimate, Bill of Quantity (BOQ), Drawings, combined BOQ for tender purpose, Social & Environmental analysis ESHS plan, construction methodology, Quality Assurance plan, work plan required plants and machinery, Civil work contract Agreement etc. It will also prepare tender/bid documents in accordance with The World Bank procurement guidelines;
 - g. Manage communication processes to ensure timely and appropriate collection, distribution, storage, retrieval and ultimate disposition of project information.
 - h. Preparation of all necessary reports, documents, drawings and designs required for statutory clearance, for example from Fire Safety Department, Municipality, Pollution Control Board and other civil authorities, whichever will be required to complete the project successfully.
 - i. Assurances and support in ensuring vetting/approval of drawings from Specialized Institutes (as required), PWD and/or other line departments;
 - j. Update/revise designs, drawings based on remarks/feedbacks from approving/vetting authority from time to time and also as per site requirements;
 - k. Develop mechanism to ensure timely and efficient release of Good for Construction (GFC) drawings ensuring a robust review and approval taking step is incorporated within the mechanism;
 - l. Preparation of abstracts, frameworks and site checklist for ensuring Construction materials specifications are adhered to as per contracting terms;
 - m. Preparation of detailed As-built drawings;
 - n. Preparation of all allied drawing, designing requirements for the components as per project needs;
- ii. Sub-Activity C – Supervision and QA/QC support for construction:**

Task 1 – Adherence to QA/QC guidelines mentioned in DPRs and Contractor 's contract:

The Consultant shall-

- 1) Ensure that the sub-projects construction activities are in line with the QA/QC guidelines agreed with the World Bank, PWD& ASDMA (PIU) as part of the Project Implementation manual.
- 2) Review and recommend for approval contractor's quality assurance procedures and documents.
- 3) Establish a system to expeditiously proof-check the structural designs and processes provided by the contractors. Prepare quality assurance and quality control plans which should include inspection and test plan for construction materials and ensure that the approved plans are being followed by the contractor.
- 4) Exercise and perform the duties, liabilities, functions and obligations as laid down in the Contract Agreement entered between ASDMA and the respective contractors within the given time frame and budgeted provision, with reasonable skill, care and diligence and ensure that the works are executed strictly as per the terms and conditions of the Contract Agreement entered between ASDMA and the respective contractors within the given time frame and budgeted provisions.
- 5) Carry out a scrutiny/technical audit of the reports, drawings, designs, estimates, BOQ etc. prepared by the contractor such as progress reports, site surveys, evaluation and analysis, including soil investigation, structural design, design of internal and external services, plumbing, drainage, water supply, sewerage internal roads, electrification works etc., as the case may be based on the details available in approved DPR.
- 6) Carry out day-to-day supervision of construction works at site, quality control, and progress monitoring, and take measurements to certify quantities on the Contractor's claim.
- 7) Assess adequacy of various infrastructures (e.g., water supply, labour camp, testing facilities, power, storage, etc.) set up at site by Contractor for proper mobilization of works. Review the contractor's proposal and monitor actual arrangements for security, safety of site, gate control, medical care, emergency preparedness, emergency response, on-site safety training of employees, safety during demolitions, fire prevention, etc.
- 8) Analyse project execution schedules submitted by the contractor for its feasibility and whether it is in line with the overall project schedule.

Task 2 – Inspections, testing and site visits during construction:

The Consultant shall-

- 1) Verify and certify the setting out/initiation of works of Contractor in relation to the benchmark, reference marks and lines to ensure correct position, level or alignment.
- 2) Recommend the approval of the measuring instruments, indicators, calibrations and other apparatus to be used for carrying out tests/inspections. Approve the test schedule, detailed test procedure and method statement. Attend tests or inspection either at any part of the project/ worksite or at place of installation and place of manufacture. Approve the type and number of performance and operational tests to demonstrate compliance of the installations with output requirements. Countersign contractor's report of every test/inspection after witnessing them.
- 3) Conduct periodic and frequent inspections of all work sites to check the nature and quality of work conducted; verify the materials, equipment and labour engaged at the site; review the quality control tests and test results; ensure that the work is implemented in accordance with the approved standards; and ensure that the quality control procedures set forth under the contract are being followed. Any problems observed and recommended remedial actions are to be immediately notified to the PIU/ASDMA.
- 4) Witness all quality control sampling and testing done by the contractor. Compile and review all quality control data obtained from tests conducted by the contractor or by others and verify the accuracy of the test data by checking the procedures used in the field for sampling and testing the materials and works.
- 5) Carry out independent sampling and testing wherever considered necessary, or as may otherwise be required to check and verify the accuracy of the test results conducted by the contractor. Assess

the test results, recommend on acceptance of the materials supplied and, on the works, completed and ensure that proper records of the tests conducted are maintained.

6) Facilitate and conduct joint periodic inspections on an as-required basis with the PIU/client, including their representatives/consultants, to inspect and accept interim work completion stages of the sub-project work to allow the contractor to proceed with further works. In the event that the work fails to meet the required standards, any removal and replacement or other remedial measures which may be required should be clearly explained along with a time schedule for completing such work.

7) Facilitate and conduct joint final inspection(s) of the completed works along with the PIU, including their representatives/consultants, and contractor, preparing a statement of exceptions for any works which may remain to be completed.

8) Participate in monthly inspections and site coordination meetings of PIU/ASDMA, and Contractor for all works to review the overall progress and quality of the works, review any issues, (the instructions which were issued to the contractor to address these problems and the contractor's compliance with these instructions), and agree on any further actions which may be required to be taken to improve either the progress or quality of the works. Assist PIU in preparing and issuing the minutes of such meeting.

Task 3 – Handholding support for addressing site specific issues:

The Consultant shall-

1) Advise PIU at site on specific problems/issues related to quality of construction, as and when such problems are detected and brought to notice. Inform PIU of any instances of non-conformity/non-compliance of construction parameters (e.g., materials, workmanship, specification).

2) Develop necessary instruction/sketches in case of inadequacy in drawings/specification detected or where it is necessary to elaborate on design due to variation of site/soil condition in consultation with PIU as required, along with cost variations.

3) Provide timely recommendations on variations/cost estimates and change orders as required, along with justification and analysis of rates so as to avoid any delay in execution.

4) Prepare detailed PERT/CPM (Program Evaluation Review Technique/Critical Path Method) and other chart analyses of various project related activities regarding time frame, resource allocation and scheduling etc. using latest techniques, including developing MIS for approval.

5) Ensure measurement of all items having financial value in the measurement book and/or level filed book at all times so that a complete record is obtained of all works performed under the contract.

6) Ensure that the problems noted and actions taken / to be taken are recorded in the site order book. Assess reasons for delay in implementation and recommend ways to accelerate project implementation.

7) Ensure strategic planning and supervision for continuous and uninterrupted functioning of the existing shelters/schools during implementation of works.

Task 4 – Conducting detailed assessment for any variations:

The Consultant shall

1) Recommend the cost of completing any urgent unforeseen works, if required, related to the project, in the event of Contractor's delay/unwillingness/inability after conducting detailed costs assessment.

2) Review the progress and quality of the works and prepare a detailed assessment report for advising/recommending PIU and ASDMA on any necessary variations to the contracts, including

work programs, work procedures, inputs, safety, quality, variation orders, completion dates, and/or any other matters which may affect the timely and satisfactory completion of the work. Propose and present for approval any changes in the plans which may be deemed necessary and indicate any effect such changes may have on the contract.

3) Review the variation orders or claims from the contractors for time extension, extra compensation, or expenses or other similar matters prepared by PIU/ASDMA and advise on actions that may be required on such variations.

Task 5 – Assisting PIU in preparation of progress/completion reports:

The Consultant shall-

- 1) Attend progress review meetings called by ASDMA/PIU and submit updates if required on project progress and issues.
- 2) Assist PIU in preparation of project progress/completion reports for issuance of Completion/Operational Acceptance Certificate to the Contractor within specified time after completion of tests on commissioning/defect liability. Verify whether after receipt of Completion/Operational acceptance certificate, the Contractor has cleared and removed from site all his/her equipment (no longer required), surplus materials, wreckages, rubbish and temporary structures. Determine whether the site facilities are in clean and safe conditions.
- 3) Verify during clearing and grubbing operation on worksite by Contractor that the minimum practicably necessary activities to construct the works have been conducted and verify that trees and other vegetation designated for preservation are not damaged and are fully protected.

Task 6 – Supervising Contractor's post construction and execution demonstration activities:

The Consultant shall-

- 1) Verify —as built design—build documents and drawings. Provide ASDMA/PIU a list of all necessary warranties which need to be handed over by the contractor.
- 2) Ensure that utility shifting has been done and other facilities such as sign boards have been restored by the contractor as required, verify exploratory excavation by the Contractor for checking the exact position/location/co-ordinate of the existing services and verify the adequacy of arrangements made by the service provider for any diversion or removal of services required.
- 3) Verify adequacy of safeguards being provided by the Contractor to pipes, cables etc. and ensure that Contractor adopts methods which pose least possible interference to existing amenities.
- 4) Verify whether all water and waste products from the sites are discharged as per applicable regulations.
- 5) Witness Contractor's demonstration for proper functioning and operation of all mechanical and electrical equipment with design and specification both individually and as part of the system. This includes witnessing and recording each process, each of auxiliary equipment's, distribution system & systematic completion of plant for pre-commissioning.
- 6) Scrutinize the Plant Modification proposal prepared by the Contractor, in case of failure of performance test, and approve the same after required improvement. Witness the modification work during implementation stage and witness the repeat guarantee test by the Contractor.
- 7) Review structural soundness reports cum certificate produced by the contractor, and if required, provide independent structural soundness certificate to facilities.

Task 7 – Record keeping and reporting:

The Consultant shall-

- 1) Ensure that all the necessary records for the activities detailed in the above tasks are duly maintained in soft and hard copies, with proper backups.
- 2) Prepare detailed monthly progress and completion reports of the activities related to the above-mentioned tasks and share with PIU/ASDMA for independent verification and approval.
- 3) Prepare sub-project contract completion report summarizing the construction activities and indicating, among other items, contract changes, claims or disputes, or any other substantive matters having an effect on the cost and progress of the works. The report, to be submitted to the PIU/ASDMA must contain accurate and complete "As Built" drawings for the completed works.

Note: The Consultant shall act as the “Engineer” defined in the contract (with FIDIC General Conditions) for construction supervision and contract administration ensuring full compliance with the design, drawing, quality assurance and control, and ESMP implementation specified in the specifications, contract documents and other project documents.

Activity 3 - Supervision support during investment implementation stage (Operations Stage)

i. Monitoring: The Consultant shall also monitor investment sub-projects during the defect-liability period, or O&M period including any ESMP measures outlined for operation phase for satisfactory performance and share detailed reports on the quality of work along with recommendations for improvements, as part of the monthly reports.

ii. The Consultant shall develop an O&M protocol for each sub-project investment and present it to ASDMA through a brief workshop so as to enable client to manage the created assets in a technically sound and financially efficient manner.

iii. Consultant’s work will be supervised closely by the PIU, ASDMA.

Activity 4 – General Management and Planning support:

The Consultant shall

i. Advice and assist PIU in preparing the annual work plan and forecast of fund requirements for Component 3; Sub-Component-3.2 of the AIRBM Project.

ii. Advice and assist PIU in the compilation, preparation and submission of reimbursement claims for each sub-project.

iii. Advice and assist PIU in the preparation of required financial management reports as detailed in the FM section of the PIM. Such reports include, are but not limited to, (i) accounting books and records, (ii) financial and accounting reports, (iii) Interim Unaudited Financial Reports, (iv) Annual Project Financial Statements, and (v) Internal Audit Report.

iv. Advice and assist PIU in the preparation of grant access condition compliance report for disbursement.

v. Advice and assist PIU in implementing internal control systems, as recommended in the PIM.

vi. Advice and assist PIU in implementation of measures outlined in ESMP and other instruments, and preparing necessary E&S reports

vii. Advice and assist PIU in providing necessary information, as required by ASDMA for Monitoring and Evaluations systems for AIRBMP implementation.

viii. Advise and assist the PIU/ASDMA in implementing and managing all aspects of the AIRBMP.

ix. Provide support to PIU in carrying out ongoing citizen and stakeholder engagement activities.

x. Provide coordination support to the PIU for approval of various documents/reports by other line departments as associated.

xi. Provide coordination support to PIU during external audit being conducted by the Office of Auditor General (OAG).

xii. Support the Client in managing all tasks required under this contract and others to be agreed from time to time, and ensuring delivery of outputs in a timely and satisfactory manner in accordance with the agreed project implementation schedule.

4. REPORTS, DELIVERABLES, PERIOD OF PERFORMANCE, PAYMENT

4.1 List of Reports and Schedule of Deliveries. The Consultant shall prepare the following reports in English and complete digital files in a format and manner acceptable to the ASDMA and the World Bank. All the reports will need to be reviewed and approved by the ASDMA/PIU and no-objection will be sought from the World Bank before being finalized for payments. Draft versions of the report would be prepared initially, and submitted in 3 hard copies and 1 soft copy. Final versions would be submitted within two weeks following receipt of comments from the ASDMA/PIU (*an exception shall be for the Monthly and Quarterly Reports where the report is to be finalized in one week*). ASDMA/PIU's comments would generally be provided within one week of receipt of the draft report. The consultant will be required to make a power point presentation with all important deliverables.

i. Inception Report (IR). The draft IR shall be submitted within one month after commencement of assignment. The IR shall *inter alia* include approach to the assignment, objectives, detailed methodologies, and work plans for each Task (and respective sub-activities) of the assignment. It must also detail the related tasks, activities, schedule of activities, detailed time-tasks/schedule listing all tasks, mobilization plan, anticipated difficulties including resource gaps that have become apparent, deficiencies in PIU's/Client's assistance. It must bring to Client's attention major problems that might affect the direction and progress of the work.

ii. Monthly Reports (MR). The draft MR shall be submitted within a week from the end of each month. The MR shall *inter alia* include work progress on all components, tasks undertaken, results achieved, meetings held and persons met, staff deployment, difficulties encountered, and forecast of assistance required from the client for each activity/task of the assignment. The monthly reports shall also incorporate monthly progress and construction supervision reports for individual projects as well as the deployment tables for the input-based payments. The MR shall be submitted for every month except for the month ending quarter, as per the format prescribed in the PIM.

iii. Quadrimester Report (QR): The draft Quadrimester report shall be submitted within two weeks from the end of the quadrimester for which the report is submitted. The QR shall *inter alia* include work progress, team mobilization, tasks undertaken, results achieved, meetings held and persons met, planning of activities for next trimester, updated works schedule and staff mobilization plan, status of M&E indicators, difficulties encountered, forecast of assistance required for each Part of the assignment from the client. The Quadrimester report shall include physical and financial progress reports related to the use of the UDG, as per the format prescribed in PIM. A separate quadimester internal audit report shall be prepared in the format as prescribed in the PIM as well.

iv. Annual Reports (AR): The annual reports shall be submitted within week from the end of fiscal year for which the report is submitted. The AR shall *inter alia* include work progress, team mobilization, tasks undertaken, results achieved, meetings held and persons met, planning of activities for next quarter, updated works schedule and staff mobilization plan, status of M&E indicators, difficulties encountered, forecast of assistance required for each Part of the assignment from the client.

v. Mid-term Report (MTR): The mid-term report shall be submitted within two weeks after the contract is halfway through the contract period. The MTR shall *inter alia* include work progress, team mobilization, tasks undertaken, results achieved, meetings held and persons met, planning of activities for next quarter, updated works schedule and staff mobilization plan, status of M&E indicators, difficulties encountered, forecast of assistance required for each Part of the assignment from the client.

vi. Final Report: The completion report of the consultants providing the details of overall work progress and final documentations.

4.2 Report Format

a. The report shall contain/present the data, information, assumptions and corresponding justification, analysis, and conclusions and recommendations.

b. All reports required by the ToR shall provide a clear presentation and include a table of contents and an executive summary. The main body of the text shall be organized in sections and focus on the findings and recommendations and their justification. Supporting data and analysis shall be included in the Annex which will be referenced as appropriate in the body of the text. All paragraphs in the executive summary, main text, and Annex(es), shall be numbered to facilitate reading across the report.

c. The report shall be illustrated as appropriate with such drawings, sketches, photographs, tables, graphs, and maps to aid comprehension and assimilation of their contents.

d. The consultants will need to submit a draft template for all reports as part of the inception report which will be reviewed by the ASDMA/PIU and WB for adequacy. The consultant will incorporate all suggestions and submit the deliverables accordingly.

4.3 Period of Performance: The DMSC will be engaged by the client for a period of approximately 4.0 years.

4.4 Payment: The Consultant shall be compensated based on a time-based structure that accounts for (i) submission of key deliverables due at the time and (ii) input of each key expert.

4.5 Deliverables and Milestones Other than sub-project regular reporting (Inception, Monthly, Quadrimesterly, Yearly, Mid Term and Final reports), the consultant should also deliver the following in hard and soft copies, as appropriate, to the PIU/ASDMA within the set times. (Cumulative weeks; Note: Contract signing = zero weeks)

Indicative List of deliverables-

Sl.No	Activity	Deliverable	Timeline
1		Inception Report & Work-Plan/Roadmap	4 weeks
2	Design support during investment planning and preparation stage	Project Performance Monitoring Sheet (PPMS) (For the components) showing all sub activities.	8 weeks
		1 st Model DPR for New Flood Shelters	12 weeks
		1 st Model DPR for Retrofitting Works	12 weeks
		Final draft DPRs for 10 new Flood shelters & 30 retrofitting works.	30 weeks
		Assistances in Bid management/procurement activities and technical inputs in Bidding documents.	As per project requirements
3	Technical Design and Supervision support	Technical Designs, Drawings (GFC) and updating of Designs	As per project requirements
		ESMP Implementation and other management plans	As per project requirements
4	Supervision support during investment implementation stage	Contract Variation Reporting, QA Plans, Inspection and supervision reports etc.	As per project requirements
	General Management and Planning support:	Contract Management Plans (CMPs), Updated PPMS for the components, Assistances in Financial Management Reports and	As per project requirements

		contract overall management and planning.	
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Note: The deployment of Key Experts shall be harmonized (full time and / or intermittent or 'as and when needed' basis) as per the scope of services, above milestones and changes (if any).

Note: Input of key experts will be supervised and monitored by PIU/ASDMA. Involvement of intermittent/unallocated experts shall be consistent with the staffing schedule agreed with the PIU.

5. DATA, LOCAL SERVICES AND FACILITIES TO BE PROVIDED BY CLIENT-

5.1 The Client would make the following available to the Consultant:

- i. Any supporting documents like permits and licenses necessary for the completion of the Consultant's duties and assistance with any special arrangements to allow the Consultant to enter any restricted areas related to the Project.
- ii. Access to all relevant previous studies, reports, documents and contracts related to the Project on request by the Consultant.
- iii. Assistance with arranging meetings with the concerned Ministry and Department of the Government of Assam, project executing agencies at National, Provincial and municipality level and other authorities as necessary during the course of the Consultant's work.

5.2 Considering the current limitations of office space in ASDMA premises, the agency/firm shall make requisite arrangements for office space along with internet connected workstations, within a radius of 2 Km from ASDMA office. Cost component towards Office setup shall be quoted by the agency as out of pocket/reimbursable expenses and shall be paid based on actuals with ceiling set as the quoted component of the bid.

Subsequently, if necessary office spaces are made available by ASDMA, necessary adjustments shall be made.

5.3 The Consultant shall verify and be satisfied with the accuracy of the data/information provided by the Client before these are used. Data/information/material provided to the Consultant shall remain the property of the originating agency and shall be provided solely for the purpose of the work conducted under this contract. All such borrowed material shall be returned to the Client upon completion of the assignment. Apart from data/information provided by the Client and that which the Consultant could procure from other agencies, the Consultant shall be responsible to collect any other data/information required for the assignment, through field survey and investigations.

5.4 Provisional sum will be allocated by the Client for all - investigations.

6. REPORTING REQUIREMENTS

Project Organisation

The three Implementing Agencies (IAs) under AIRBMP are FREMAA, WRD, and ASDMA.

FREMAA will be the nodal coordinating agency while WRD and ASDMA will be the executing agencies for the program. A Project Management Unit (PMU) will be established in FREMAA to support the implementation of the program. The PIU in ASDMA will be headed by the CEO, ASDMA. For purpose of technical vetting and reviews of Construction Designs and Technical aspects and ensuring hand holding support, Assam Public Works Department (APWD) has been collaborated with. ASDMA and APWD has executed an MoU for this purpose. All designs, drawings, technical details must be submitted to ASDMA by the DMSC for review of the PWD. Necessary follow up assistances and assistances in getting clearances from PWD and incorporation of comments/feedbacks must be ensured by the DMSC from time to time.

6.1 The entire assignment shall be carried out under the overall guidance of the PIU/ASDMA, and World Bank. At all steps, the Consultant will be required to closely engage and seek inputs from the Client, Bank team and other consultants hired by Client/World Bank.

6.2 Team Leader will lead both the Investment planning/preparation, Designing, Construction & Implementation Supervision parts and will report to the CEO/Engineer of PIU in ASDMA. He/she will work closely with the PIU team, and core task team members (local and international) from the World Bank. He/she will lead and be responsible for the overall delivery and performance of this assignment. The Team leader will be responsible for delivery of scope of work for Activities 1 to 4. He/she must coordinate the preparation and finalisation of inception/monthly/quadrimester/interim/final reports in addition to the other tasks with support from the team members. The day-to-day activities, works planning and staff utilization for various activities will be coordinated and supervised by the Client /

For purpose of Technical vetting and reviews of Construction Designs and Technical aspects, ASDMA and PWD, Assam has executed an MoU. All designs, drawings, technical details must be submitted to ASDMA by the DMSC for review of the PWD. Necessary follows and assistances in getting clearances from PWD and incorporation of comments/feedbacks must be ensured by the DMSC.

6.3 The Consultant will need to organize the visits/meetings for data collection and stakeholder consultations on their own and provide coordination support for arranging any monthly/quarterly review meetings for specific projects. FREMAA's/Bank's task team may join some of the consultation meetings.

7. FIRM'S EXPERIENCE, LIST OF KEY POSITIONS AND THEIR ROLES AND RESPONSIBILITIES

7.1 The consulting firm should be in core consulting business in civil engineering infrastructure design, management and supervision works. The Firm must be substantially responsive to pre-qualification and eligibility criteria listed in EoI/RFP.

7.2 It is estimated that about minimum 588 person-months of key experts as listed below, will be required for the assignment. **In addition to these key positions, other technical and non-technical professionals and support staffs will be required to carry out this assignment from time to time. The Consultant can propose and alternate deployment schedule for the proposed team as per their approach and methodology for the execution of this assignment with due justification.**

7.3 It is to be noted that the deployment of staff by the firm will be strictly monitored by the client and replacement of key team members will be discouraged. However, the firm may, with proper justification, request the client and the World Bank in writing for a replacement of a key personnel with an alternative whose credentials are equivalent or better than the existing team member.

Sl.	Key Experts	No.s	National/International	Person-Months	Indicative Activities
1	Team Leader	1	National	48	Activity 1,2,3 & 4
2	Geo-Technical Expert	1	National	24	Activity 1 ,2 & 3
3	Structural Engineer	1	National	36	Activity 1 & 2
4	Gender Specialist	1	National	36	Activity 1,2 & 3
5	Social Expert	1	National	36	Activity 1,2 & 3

6	Environmental Expert	1	National	36	Activity 1,2 & 3
7	Engineer (Civil)	3	National	144	Activity 1,2,3 & 4
8	Engineer (Electrical)	2	National	48	Activity 1,2,3&4
9	Engineer (Public Health Engineering)	1	National	24	Activity 1,2,3 & 4
10	Institutional Capacity Development Expert/Training Expert	1	National	24	Activity 1 ,2 ,3& 4
11	Architect cum Planner	1	National	48	Activity 1 ,2 & 3
12	Quantity Surveyor	2	National	36	Activity 1 &2
13	Architect	2	National	48	Activity 1 ,2 ,3& 4
				588	

Support Staff-

Sl	Staff	No.s	FT/PT	Person-Months
1	Site Engineer	8	FT	384
2	Cad Operator	4	FT	48x4= 192
3	Admin Assistant	2	FT	48 x 2= 96
4	Office Person	2	FT	48 x 2= 96
				768

7.4 Minimum Competency of Experts & Support Staff-

Sl.	Key Experts	Minimum Competency Requirement
1	Team Leader	Post Graduate in Architecture/Civil Engineering or any relevant field with at least 15 years of experience in planning and implementation of flood resilient public projects with experience in execution of EAP projects. Should be convergent to WB/ADB norms.
2	Geo-Technical Expert	Post Graduate in Geo-technical Engineering or any relevant field with at least 10 years of experience in planning and implementation of Disaster resilient public projects with experience in execution of EAP projects. Should be convergent to WB/ADB norms.
3	Structural Engineer	Post Graduate in Structural Engineering with at least 10 years of experience in planning and implementation of flood resilient public projects

		with experience in execution of EAP projects. Should be convergent to WB/ADB norms.
4	Gender Specialist	Post Graduate in Social Science/Mass communication or any relevant field with at least 8 years of experience in planning and implementation of Gender actions for EAP projects. Should be convergent to WB/ADB norms.
5	Social Expert	Post Graduate in Social Science or any relevant field with at least 8 years of experience in implementation, monitoring of social and safeguard policies particularly for EAP projects. Should be convergent to WB/ADB norms.
6	Environmental Expert	Post Graduate in Environmental Science or any relevant field with at least 8 years of experience in implementation, monitoring of Environmental policies particularly for EAP projects. Should be convergent to WB/ADB norms.
7	Architect cum Planner	Graduate in Architecture/Town planning with at least 10 years of experience in architectural designing for public projects similar to educational institutes or large public structures.
8	Institutional Capacity Development Expert/Training Expert	Post Graduate in Social Science or any relevant field with at least 10 years of experience in EAP projects specifically in projects for setting up of training infrastructures, identifying training needs, Institutional capacity development. Should be convergent to WB/ADB norms.
9	Quantity Surveyor	Graduate in Civil engineering with at least 8 years of experience in quantity surveys, estimation for civil projects.
10	Engineer (Electrical)	Graduate in Electrical Engineering with at least 6 years of engineering experience specifically in electrical estimation, mapping, technical analysis specifically for EAP projects.
11	Engineer (Civil)	Graduate in Civil Engineering with at least 6 years of engineering experience specifically in estimation, technical analysis, basic experience in procurement of civil works and goods for EAP projects.
12	Engineer (Public Health Engineering)	Graduate in Public Health Engineering with at least 6 years of engineering experience specifically in design and execution of PHE works, estimation, technical analysis, basic experience in procurement of civil works and goods for EAP projects.
13	Architect	Graduate in Architecture/Town planning with at least 6 years of experience in architectural designing for large public buildings

Sl.	Support Staff	Minimum Competency Requirement
1	Site Engineer	B.E/B.Tech in civil Engineering with at least 3 years of experience in inspecting, monitoring and

		reporting for civil infrastructural projects. Experience in EAP projects shall be preferred.
2	Cad Operator	B.E/B.Tech in civil Engineering/Architectural engineering or any relevant field with at least 3 years of experience in drawing, drafting in CAD tools.
3	Admin Assistant	Graduate in any discipline with at least 3 years of experience in office admin management.
4	Office Person	Under graduate with writing, reading skills in English.

List of proposed sites for Augmentation – ANNEXURE I A

Sr.No	District	Name of village	Name of school / Shelter	GPS coordinates	Distance from water body	Number of times village gets flooded annually	Number of people taken shelter (Last five years)	HFL at site	Level of site WRT HFL	Total number of blocks in school without sanitation and kitchen unit	Deterioration due to age and dampness	Structural issues	Toilet issues	Ramp for universal accessibility	Proper toilet facility	Disabaled friendly toilets	Proper plumbing and water	Proper arrangement of drinking water	Proper facility of kitchen	Retro fitting	New Sanitation unit	Non structural mitigation	Electricity and plumbing	Child Friendly Elements	New Rooms	Fire safety and Evacuation map	Painting	Repairs of doors and windows	Weather lab		
1	Barpeta	Sidhani	1835 PACHIM SIDHUNI GHUNAPARA LPS	NL 26' 17' 20" EL 90' 55' 10"	1 KM	3 times		39.61M	(+0.3M)	4	Yes	Yes	Numbers are not based on need for sheltering	Needs repair	No	No	No	No	No	Yes	Yes	Yes	Yes	Yes	To be decided based on detailed RVS	yes	Yes	Yes	Yes	Yes	
2		Ban Baria	Banbaria ME Madrassa	NL 26' 18' 13" EL 91' 5' 17"	10 KM	2 Times	850	39.6 M	(+0.6M)	10	Yes	Yes	Numbers are not based on need for sheltering	Needs repair	No	No	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
3		Patbausi	Patbausi HS	NL 26' 17' 57" EL 91' 1' 53"	2 KM	4 times	300	39.6 M	(-0.4M)	7	Yes	Yes	Numbers are not based on need for sheltering	Needs repair	No	No	No	No	No	Yes	Yes	Yes	Yes	Yes	To be decided based on detailed RVS	Yes	Yes	Yes	Yes	Yes	Yes
4		Damaljar	982 No Damaljar LPS	NL 26' 16' 20" EL 91' 3' 58"	3 KM	2 time	150	43.6 M	(+0.3M)	5	Yes	Yes	Numbers are not based on need for sheltering	Needs repair	No	No	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
5		Radha Kuchi	107 No Radhakuchi LPS	NL 26' 18' 55" EL 91' 3' 59"	15 KM	1 time	150	39.61M	(+0.3M)	3	Yes	Yes	Numbers are not based on need for sheltering	Needs repair	No	No	No	No	No	No	Yes	Yes	Yes	Yes	Yes	To be decided based on detailed RVS	Yes	Yes	Yes	Yes	Yes
6		Khankar Para/ BARBILA	530 No Barbila Balak LPS	NL 26' 18' 64" EL 91' 5' 54"	5 KM	2 Times	70	43.61 M	(+0.06M)	6	Yes	Yes	Numbers are not based on need for sheltering	Needs repair	No	No	No	No	No	No	Yes	Yes	Yes	Yes	Yes	To be decided based on detailed RVS	Yes	Yes	Yes	Yes	Yes
7		Keot Kuchi	519 No Keotkuchi Balika LPS	NL 26' 18' 24" EL 91' 3' 5"	3 KM	2 times	35	45.85M	(-0.03M)	3	Yes	Yes	Numbers are not based on need for sheltering	Needs repair	No	No	No	No	No	No	Yes	Yes	Yes	Yes	Yes	To be decided based on detailed RVS	Yes	Yes	Yes	Yes	Yes
8		Pakda Bilar Pathar	1268 No Pakda Damaljar LP School	NL 26' 17' 5" EL 91' 3' 2"	5 KM	3 times	Nil	43.6M	(+0.7M)	3	Yes	Yes	Yes	Needs repair	No	No	No	Yes	No	No	Yes	Yes	Yes	Yes	Yes	To be decided based on detailed RVS	Yes	Yes	Yes	Yes	Yes
9		Joshihati	1860 Pub Joshihatipara LPS	NL 26' 24' 10" EL 90' 57' 52"	1 KM	3 times	Nil	48.48M	(+0.7M)	5	Yes	Yes	Yes	Needs repair	No	No	No	Yes	No	No	Yes	Yes	Yes	Yes	Yes	To be decided based on detailed RVS	Yes	Yes	Yes	Yes	Yes
10		Paka Bet Bari Gaon	1629 Pakabetbaripam LPS	NL 26' 20' 37" EL 91' 3' 41"	0.150 KM	3 times	Nil	39.6M	(+1.2M)	5	Yes	Yes	Yes	Needs repair	Yes	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	To be decided based on detailed RVS	Yes	Yes	Yes	Yes	Yes
11		Sundaridia	Sundaridiya H.S	NL 26' 19' 41" EL 91' 1' 59"	0.7 KM	3 times	240	39.6 M	(-0.7M)	10	Yes	Yes	Numbers are not based on need for sheltering	Needs repair	Yes	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	To be decided based on detailed RVS	Yes	Yes	Yes	Yes	Yes
12	Dibrugarh	DODHIA FOREST	DINJOY HAZARIMAL HS SCHOOL	NL 27.51 EL 95.18	1 KM	2 Times	500			7	Yes	Yes	Numbers are not based on need for sheltering	Needs repair	No	No	Yes	No	No	Yes	Yes	Yes	Yes	Yes	To be decided based on detailed RVS	Yes	Yes	Yes	Yes	Yes	
13	Golaghat	Ward No - 1 , Bokakhat	Namdoyang LPS	NL 26.64 EL 93.59	4.5 KM	3 times	800	74.75M	(+1.21M)	5	Yes	Yes	Numbers are not based on need for sheltering	Needs repair	Yes	No	No	Yes	No	Yes	Yes	Yes	Yes	Yes	308 Sqm new covered space required	Yes	Yes	Yes	Yes	Yes	
14		Ward No - 1 , Bokakhat	Bokakhat H.S School	NL 26.64 EL 93.59	4.5 KM	2 times	800	74.75 M	(+0.52)	7	Yes	Yes	Numbers are not based on need for sheltering	Needs repair	No	No	No	No	Yes	Yes	Yes	Yes	Yes	Yes	To be decided based on detailed RVS	Yes	Yes	Yes	Yes	Yes	
15		Ward No - 1 , Bokakhat	Mungilal Krishna Devi Balika Bidyalay	NL 26.64 EL 93.59	4.5 KM	3 times	400	74.75 M	(+1.2M)	4	Yes	Yes	Numbers are not based on need for sheltering	Needs repair	No	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	To be decided based on detailed RVS	Yes	Yes	Yes	Yes	Yes	
16		Ward No - 1 , Bokakhat	Bokakhat Kendriya Girls MES	NL 26.64 EL 93.59	4.5 KM	3 times	50	74.75M	(+3M)	2	Yes	Yes	Numbers are not based on need for sheltering	Needs repair	No	No	No	No	No	Yes	Yes	Yes	Yes	Yes	To be decided based on detailed RVS	Yes	Yes	Yes	Yes	Yes	

Proposed land information for construction of New Flood Shelter under the project AIRBMP								
Sl. No.	District	Revenue Circle	Village	Land allotted received from District	Land Alloted in sq. ft (Present)	Land Alloted in sq.m (Present)	Boundary Coordinates	Weather Govt.land/ Private ownership/SDLAC cleared

17		Polashguri	Dhansiri mukh J.N.V School	NL 26.66 EL 93.61	2.5 KM	3 times	70	74.75M	(+1M)	4	Yes	Yes	Numbers are not based on need for sheltering	Needs repair	No	No	No	No	No	Yes	Yes	Yes	Yes	Yes	To be decided based on detailed RVS	Yes	Yes	Yes	Yes
18		Hatikhuli	2 No Hatikhuli L.P.S	NL 26.58 EL 93.34	5 KM	3 times	160	74.75 M	(+2.74M)	4	Yes	Yes	Numbers are not based on need for sheltering	Needs repair	No	No	No	No	Yes	Yes	Yes	Yes	Yes	To be decided based on detailed RVS	Yes	Yes	Yes	Yes	
19	Biswanath	TELENE PUKHURI(in excel Maranbari)	TELENI L. P. SCHOOL	NL 26' 47' 35" EL 93' 30' 52"	0.5 KM	2 times	60	75.4M	(+3M)	4	Yes	Yes	Numbers are not based on need for sheltering	Needs repair	No	No	No	No	No	Yes	Yes	Yes	Yes	Yes	To be decided based on detailed RVS	Yes	Yes	Yes	Yes
20	Lakhimpur	BAHGARA DEURI GAON	BAHGORA BALIKA L.P. SCHOOL	NL 27' 00' 7" EL 93' 59' 1"	2.5 KM	4 times	50	80.74M	(-1M)	5	Yes	Yes	Numbers are not based on need for sheltering	Needs repair	No	No	No	No	No	Yes	Yes	Yes	Yes	Yes	To be decided based on detailed RVS	Yes	Yes	Yes	Yes
21		BADATI JAMUGURI (in excel Dhumabari, Dahgharia PGR)	NEHRU HS SCHOOL	NL 26' 58' 39" EL 93' 57' 14"	0.3 KM	Nil	50	80M	(+4M)	9	Yes	Yes	No	Needs repair	Yes	No	No	Yes	No	Yes	No	Yes	Yes	Yes	Not required	Yes	Yes	Yes	Yes
22	Baksa	Takurakuchi	315/1 No Takurakuchi LPS	NL 26' 40' 50" EL 91' 11' 47"	1.1 KM	2 times	100	45.85M	(-1.2M)	5	Yes	Yes	Numbers are not based on need for sheltering	Needs repair	No	No	No	No	No	Yes	Yes	Yes	Yes	Yes	To be decided based on detailed RVS	Yes	Yes	Yes	Yes

*K= Katha*L = Lesa*B= Bigha

NOTE- THE ABOVE DATA/DETAILS ARE INDICATIVE IN NATURE AND CONSULTANTS/AGENCIES ARE REQUESTED TO MAKE NECESSARY INSPECTIONS IN PRIOR

* SDLAC- Sub-Divisional Land Advisory Committee

*1 bigha= 14400 sq feet

*1 bigha= 5 katha

1	Biswanath	Halem	Dathkhola	1 B	100	14400	1339.2	E 26.808649, 93.553793 W 26.808631, 93.553537 S 26.808387, 93.553578 N 26.808866, 93.553724	Govt. land but In the process for SDLAC approval
2	Dibrugarh	Tengakhat	Naharkatia puroni Koibotra gaon	3 K	60	8640	803.52	27°17'07.54" N 95°20'35.57" E 27°17'08.72" N 95°20'36.06" E 27°17'08.98" N 95°20'35.48" E 27°17'08.98" N 95°20'35.48" E	Govt. land but In the process for SDLAC approval
3		Bokakhat	Bortika	2 K 10 L	50	7200	669.6		
4		Bokakhat	Goroimari	4 K 9 L	89	12816	1191.888	N26°36'36.02" E093050'10.82" N26°41'10.53" E093046'00.05" N26°41'10.55" E093046'00.92" N26°41'10.55" E093046'00.92"	Kameswar Bori S/o Lt. Jaduram Bori(Community land),NOC has been submitted by the owner
5	Golaghat	Bokakhat	Bohikhuwa	2 B 2 K 10 L	250	36000	3348	N26°64'95.86" E093060'62.75" N26°64'94.65" E093060'62.15" N26°64'95.03" E093060'64.95" N26°64'93.50" E093060'64.09"	Govt. land but 1B of land out of 2B is under encroachment as per information shared by field officer.
6		Khumtai	Nam Temera	6 B 10 L	610	87840	8169.12	N26°41'08.28" E093046'43.05" N26°41'06.36" E093046'42.48" N26°41'05.73" E093046'43.91" N26°41'05.06" E093046'43.12"	Govt. land and is under the process for SDLAC approval.
7		Majuli	Bengena kalia	1 B	100	14400	1339.2	NE Lat 27.00428, Long 94.220361 NW Lat 27.002253 Long 94.192570 SW Lat 27.002147 Long 94.192948 SE Lat 26.947059 Long 94.212033	Govt. land and SDLAC approved
8	Majuli	Majuli	Chilakala Chapari	1 B	100	14400	1339.2	NE Lat 26.966676, Long 94.068747 NW Lat 26.968963 Long 94.065872 SW Lat 26.969929 Long 94.068411 SE Lat 26.968963 Long 94.065872	Govt. land and SDLAC approved

9	Sivasagar	Demow	Bherure Chapari	3 B	300	43200	4017.6	N27.265423 E94.741656 N27.265594 E 94.741862 N27.265611 E94.74113676 N27.265769 E 94.741569	Govt. land and SDLAC approved
10	Sonitpur	Tezpur	Bhalukekhowa gaon	1 K	20	2880	267.84		
			*K= Katha*L = Lesa*B= Bigha	NOTE- THE ABOVE DATA/DETAILS ARE INDICATIVE IN NATURE AND CONSULTANTS/AGENCIES ARE REQUESTED TO MAKE NECESSARY INSPECTIONS IN PRIOR.					
			* SDLAC- Sub-Divisional Land Advisory Committee						
			*1 bigha= 14400 sq feet						
			*1 bigha= 5 katha						

Details of Proposed CORT storage Facilities (Indicative) - Annexure I-B

Sl. No	District	Indicative Location	Details (if any)
1	Barpeta	Chenga Rev. Circle	Revenue Circle Office
2		Sarthebari Rev. Circle	Revenue Circle Office
3		Barnagar Rev. Circle	Revenue Circle Office
4		Barpeta Rev. Circle	Revenue Circle Office
5		Kalgachia Rev. Circle	Revenue Circle Office
6		Sarupeta Rev. Circle	Revenue Circle Office
7		Bajali Rev. Circle	Revenue Circle Office
8		Baghor Rev. Circle	Revenue Circle Office
9	Dibrugarh	Chabua Rev. Circle	Revenue Circle Office
10		Tengakhat Rev. Circle	Revenue Circle Office
11		Naharkatia Rev. Circle	Revenue Circle Office
12		Moran Rev. Circle	Revenue Circle Office
13		Tingkhong Rev. Circle	Revenue Circle Office
14		Dibrugarh (East) Rev. Circle	Revenue Circle Office
15		Dibrugarh (West) Rev. Circle	Revenue Circle Office
16		Golaghat	Dergaon Rev. Circle
17	Bokhakhat Rev. Circle		Revenue Circle Office
18	Morongi Rev. Circle		Revenue Circle Office
19	Golaghat Rev. Circle		Revenue Circle Office
20	Sarupathar Rev. Circle		Revenue Circle Office
21	Khumtai Rev. Circle		Revenue Circle Office
22	Lakhimpur	Naoboicha Rev. Circle	Revenue Circle Office
23		Dhakuakhana Rev. Circle	Revenue Circle Office
24		Subansiri Rev. Circle	Revenue Circle Office
25		Bihpuria Rev. Circle	Revenue Circle Office
26		Kadam Rev. Circle	Revenue Circle Office
27		N.Lakhimpur Rev. Circle	Revenue Circle Office
28		Narayanpur Rev. Circle	Revenue Circle Office
29	Majuli	Majuli Rev. Circle	Revenue Circle Office
30	Sivsagar	Demow Rev. Circle	Revenue Circle Office
31		Amguri Rev. Circle	Revenue Circle Office
32		Sivasagar Rev. Circle	Revenue Circle Office
33		Nazira Rev. Circle	Revenue Circle Office
34		Tezpur Rev. Circle	Revenue Circle Office
35	Sonitpur	Dhekiajuli Rev. Circle	Revenue Circle Office

36		Chariduar Rev. Circle	Revenue Circle Office
37		Thelamara Rev. Circle	Revenue Circle Office
38	Biswanath	Biswanath Rev. Circle	Revenue Circle Office
39		Helem Rev. Circle	Revenue Circle Office
40		Naduar Rev. Circle	Revenue Circle Office
41	Dima Hasao	Haflong Rev. Circle	Revenue Circle Office
42		Maibong Rev. Circle	Revenue Circle Office
43	West Karbi anglong/Karbi anglong	Donkamukam Rev. Circle	Revenue Circle Office
44		Diphu Rev. Circle	Revenue Circle Office
45		Silonijan Rev. Circle	Revenue Circle Office
46		Phuloni Rev. Circle	Revenue Circle Office
47	Baksa	Baska Rev. Circle	Revenue Circle Office
48		Barama Rev. Circle	Revenue Circle Office
49		Tamulpur Rev. Circle	Revenue Circle Office
50		Goreswar Rev. Circle	Revenue Circle Office
51		Baganpara Rev. Circle	Revenue Circle Office
52		Jalah Rev. Circle	Revenue Circle Office

NOTE- THE ABOVE DATA/DETAILS ARE INDICATIVE IN NATURE AND CONSULTANTS/AGENCIES ARE REQUESTED TO
MAKE NECESSARY INSPECTIONS IN PRIOR.

Central Training Institute (CTI) Details

Location Details	Total Area of Campus	Existing Area of Swimming Pool	Reference (e-Link)
Central Training Institute, Panikhaiti, Kamrup (M), Guwahati	17.5 Hectares (128 Bighas)		https://www.bing.com/maps?osid=83ffdabf-a9d5-40cd-a68b-28709f2b2177&cp=26.184193~91.744534&lvl=16&v=2&sV=2&form=S00027
