



GOVERNMENT OF ASSAM
ASSAM HEALTH INFRASTRUCTURE DEVELOPMENT & MANAGEMENT SOCIETY (AHIDMS),
4TH FLOOR, NAYANTARA SUPERMARKET, SIX MILE, GUWAHATI-781022

No. WB Proj/CMC/09/2023/01

Dated 17/01/2023

EXPRESSION OF INTEREST FOR SELECTION OF AGENCY FOR PROOF CHECKING AND CONSTRUCTION MANAGEMENT CONSULTANCY FOR DISTRICT HOSPITALS IN ASSAM

Project Director, Assam Health Infrastructure Development and Management Society (AHIDMS) invites "Expression of Interest" from reputed Consultancy Organization having wide experience in the Proof Checking and Construction Management Consultancy services in the health sector.

The details may be seen in the Expression of Interest document FOR selection of agency for proof checking and construction management consultancy for district hospitals in Assam uploaded in the Assam E-procurement portal (<https://assamtenders.gov.in>) The validity of the EOI shall be 90 days from the date of EOI application due date.

The applicant must be registered with the E- Tendering system (ETS) of the Govt. of Assam. (Website: <https://assamtenders.gov.in>). The Project Director, Assam Health Infrastructure Development & Management Society reserves the right to accept or reject all proposals without showing any reasons whatsoever.

The Time Schedule for the EOI process shall be as under.

Event	Date
Downloading of EOI Document begins	18.01.2023
Pre Bid Meeting (Online mode only)	21.01.2023
Last date of Submission of Document Queries	25.01.2023
Last Date for Downloading of EOI Document	01.02.2023
Last Date for Submission of completed EOI Document	01.02.2023

N.B: The interested bidders may obtain the virtual link for attending the Prebid meeting by sending a formal request email to pmu.ahidms@gmail.com

Sd/-
Project Director
Assam Health Infrastructure Development & Management Society

REQUEST FOR EXPRESSIONS OF INTEREST
For
SELECTION OF AGENCY FOR PROOF CHECKING AND CONSTRUCTION MANAGEMENT
CONSULTANCY FOR DISTRICT HOSPITALS,
ASSAM HEALTH INFRASTRUCTURE DEVELOPMENT AND MANAGEMENT SOCIETY
(AHIDMS), GOVERNMENT OF ASSAM, INDIA

NAME OF PROJECT: Assam State Secondary Healthcare Initiative for Service Delivery Transformation (ASSIST)

Loan No./Credit No./Grant No.: N/A

Assignment Title: Selection of Agency for Proof Checking Construction Management Consultancy for District Hospitals

Reference No.:WB.Proj/CMC/09/2023/01

The Assam Health Infrastructure Development and Management Society (AHIDMS), Government of Assam *has applied for* financing from the World Bank toward the cost of the **Assam State Secondary Healthcare Initiative for Service Delivery Transformation (ASSIST) Project (P179337)**, and intends to apply part of the proceeds for consulting services.

The consulting services (“the Services”) include Proof Checking and Review of Designs and manage the construction quality implementation.

The Government of Assam is committed to improving the health status of its citizens and despite considerable challenges in the domain has shown progress in various health indicators over the last decades. About 20 percent of Assam’s population are tea growing and 10 percent reside in the riverine/char or tribal areas; hilly terrain with poor road connectivity and border areas impacts the transport system making it difficult to reach the healthcare facility in time. Healthcare access in the state is impacted due to these issues apart from other socio-demographic and behavior aspects. There is a need to standardize health facility composition to maximize implementation of quality, human-centered, and resilient health services at all levels of Assam’s public health system.

Given the above context, **Assam Health Infrastructure Development and Management Society (AHIDMS)**, Government of Assam with technical and financial support from the World Bank is implementing ‘**Assam State Secondary Healthcare Initiative For Service Delivery Transformation (Assist) Project (P179337)**’ in the state. The proposed project aims to improve the management capacity and quality of health services in the state. The project will target investments towards health facilities and locations across the state over the next six years where the demand for health services is high and required capacities are in place to maximize the impact of the project.

Given the above background, AHIDMS is proposing Ten district hospitals to be constructed under the project across the State of Assam (refer Annex 1 for the names of the locations), twenty five district hospitals and ten Nursing schools are proposed to be renovated. Hence AHIDMS is seeking to on-board a **Hospital Architectural cum Engineering consultant** for Proof checking and review of designs and drawings, and manage the construction of the proposed district hospitals and rehabilitation of district hospitals and nursing schools envisaged under the project ensuring quality implementation and timely completion. It is expected that all the new health care facilities and renovation of existing hospitals and nursing schools are to be completed and made functional by March 2026.

The objective of the consulting assignment is to manage the Engineering and Procurement Construction (EPC) Contracts of Constructions/ renovation of hospitals/ nursing schools including proof checking and review of Design and drawings, and under take Construction Supervision so as to ensure (a) completion of construction/ renovation of the district hospital and nursing schools as per specifications and standards within the stipulated time and (b) the hospital, nursing school so constructed/ renovated are fit for use.

The AHIDMS 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, as per the scope defined

Interested Consultants should provide information demonstrating that they have the required qualifications, skills, expertise and relevant experience to perform the desired services. The Expression of Interest should include the following information which shall form part of short-listing criteria:

- a) The Firm must be a company registered under the Indian Companies Act 1956/2013 providing services in architect design, drawings, monitoring construction, contract management and should have been in consulting business for at least 15 years
- b) Experience in completion of at least three Design, Project Management, Supervision & Quality Assurance assignments for projects of “**similar nature**” financed by multilateral agencies with consultancy fee value of at least Rs. 5 crores each in the last 5 years. **Similar Nature works** are defined as consulting assignments involving Design and construction supervision of hospital projects of at least 100 bed
- c) The firm should have minimum average annual turnover of INR 10 crore in the last three (3) completed financial years of FT 2019-20, 2020-21 and 2021-22 from consulting services. Provide audited financial reports of last three (3) completed financial years.
- d) Experience of Project Management or Construction Supervision Consultancy of building construction in the State of Assam is preferable.

- e) Experience in detailed architectural and engineering design, estimates, procurement, construction management, contract management, environmental and social safeguards is a must.
- f) Consulting firm or its subsidiary or its parent company should not be blacklisted by any Central/State Government/ Public Sector undertaking in India or by Multilateral Agencies like World Bank/ ADB etc. A self-declaration to this effect should be submitted.
(Please enclose legible documents to substantiate above credentials from (a) to (c))

The attention of interested Consultants is drawn to the World Bank's Procurement Regulations for IPF Borrowers for Goods, Works, Non-Consulting and Consulting Services dated July 1, 2016, revised in 2020 setting forth the World Bank's policy on conflict of interest. In addition, please refer to the following specific information on conflict of interest related to this assignment under para 3.16-3.19 of the above Regulations.

Consultants may associate with other firms in the form of a joint venture to enhance their qualifications. However, maximum 3 firms shall be allowed to form a joint Venture (JV).

A Consultant will be selected in accordance with the Quality and Cost Based Selection (QCBS) method set out in the Consultant Guidelines.

Further information can be obtained at the address below during office hours [*insert office hours if applicable, i.e. 0900 to 1700 hours*].

Expressions of interest must be uploaded through the Assam E procurement portal <https://assamtenders.gov.in/> by **1st February 2023, 13:00 Hrs. Opening of EoI will be on 1st February 2023, 14:00 Hrs.**

Dr. Siddharth Singh, IAS

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Section 7. Terms of Reference

1. BACKGROUND

Assam is the biggest North Eastern state of India. The population of Assam, across its 35 administrative districts is expected to reach 35.60 million by 2026, with about 86% living in rural areas² which is expected to increase. About 20 percent of Assam's population are tea growing and 10 percent reside in the riverine/char or tribal areas; hilly terrain with poor road connectivity and border areas impacts the transport system making it difficult to reach the healthcare facility in time. Healthcare access in the state is impacted due to these issues apart from other socio-demographic and behavior aspects. There is a need to standardize health facility composition to maximize implementation of quality, human-centered, and resilient health services at all levels of Assam's public health system.

Given the above context, Government of Assam (GoA) is implementing "Assam Secondary Health Care Systems Reform Project" (ASHSRP) with financial and technical assistance from the World Bank. The proposed project aims to improve the management capacity and quality of health services in the state. The project will target investments towards health facilities and locations across the state over the next six years where the demand for health services is high and required capacities are in place to maximize the impact of the project. The Project has three components:

Component 1: Improved governance and management capacity of health systems at state, district, and facility level (*Results based financing*)

Component 2: Improved process quality and utilization of secondary healthcare system

Component 3: Improved structural quality and access to secondary care

Given the above background, ASSIST is seeking to on-board a Hospital Architectural cum Engineering consultant to Proof check and Review the designs and drawings and manage the construction of district hospitals envisaged under the project ensuring quality implementation and timely completion. Ten district hospitals are proposed to be constructed under the project across the State of Assam (refer Annex 1 for the names of the locations), twenty five district hospitals and ten Nursing schools are proposed to be renovated. It is expected that all the new health care facilities and renovation of existing hospitals and nursing schools to be completed and functional by March 2026.

2. OBJECTIVE OF THE ASSIGNMENT

The objective of the consulting assignment is to manage the Engineering and Procurement Construction (EPC) Contracts of Construction/ renovation of hospitals/ nursing schools including Proof Checking and Review of Designs and Drawings and undertake Construction Supervision so as to ensure (a) completion/ renovation of the district hospital and nursing schools as per the

²<https://assam.gov.in/>

specifications and standards in the stipulated time and (b) the hospital, nursing school so constructed/ renovated are fit for use.

The consulting assignment will be on man- month basis under **Time-Based** Contract for Proof checking and Review of Design and Construction Supervision for the proposed 10 new District Hospitals, 25 existing District hospitals to be renovated and 10 nursing schools. Assisting in procurement of contractor services for the renovation works of twenty –five district hospitals and ten nursing schools as described above will also be part of the assignment⁴.

3. SCOPE OF WORK

3.1 CONSTRUCTION MANAGEMENT CONSULTANCY

The consultant shall be responsible for Proof checking and Review of Designs & Drawings and Construction Management and Supervision of ten new district hospitals and renovation/ rehabilitation of twenty-five district hospitals and ten nursing schools under the consulting assignment. The following tasks are to be undertaken

3.1.1 General Role & Responsibility

- i. Act as Single Point of Contact for the hospitals/ nursing schools being constructed/ renovated between ASSIST, Contractor, Vendors, PWD and any other stakeholder not specifically mentioned here.
- ii. Work closely with the ASSIST to assist in carrying out its obligations under the construction contract agreement so that the work is not hampered in any way and the contractor is not prevented in carrying out its duties.
- iii. The consultant will be responsible for all planning, monitoring, management, documenting including quality control of material procured and works done, day to day supervision of works implementation, statutory compliance by the contractor, reporting, timely completion and commissioning of the Project
- iv. The Consultant shall advise and liaise with ASSIST/PWD/ Contractor/ Local authorities/ and other stakeholders/ vendors (if necessary) to receive in a timely manner, all necessary Approvals / NOCs/ permits/ documents, as required for starting work at site, its unhindered continuance and timely completion as per the works contract agreement.
- v. Facilitate Kick-Off meeting between the contractor and ASSIST once the works contract agreement of respective hospitals/ nursing school is signed to reiterate the (i) objective of the construction, (ii) implementation strategy, (iii) works program for timely completion, (iv) establishment of quality control and quality assurance plan for the proposed construction, (v) Roles &

⁴ The designs with BoQ for the renovation of the 25 district hospitals and 10 Nursing schools will be provided by ASSIST.

Responsibilities of ASSIST-Consultant-Contractor, (vi) documentation and reporting requirements and (vii) escalation protocol for issue resolution.

3.1.2 Contract Management, Performance, Documentation

- vi. Review and approve all documents submitted by the contractor like Detailed Design calculation, Design Reports, Good For Construction Drawings of all components of the project as stipulated in the EPC contract agreement signed between the Contractor & ASSIST, including works plan, Quality Assurance & Quality Control (QAQC) plan, progress reports, change proposals, works done bills and any other document and submit to ASSIST for its final approval or otherwise with the consultants' views/ recommendations including the correspondence received from the contractor and action point in response to the respective correspondence to be taken.
- vii. Check the designs submitted by the Contractor for compliance to (i) the conceptual drawings and design framework provided by ASSIST, (ii) specifications and codal provisions provided for in the contract agreement between the Contractor and ASSIST, including good for construction drawings for sufficiency in details and compliance to codal provisions, identify the gaps (if any) and communicate the same to the contractor thru ASSIST for rectification and resubmission of design and drawing.
- viii. Prepare the Works program of the respective hospitals/ nursing schools to be built including resource mobilization (human power, machinery and materials) schedule in support of the works program, anticipated cash flows as per the Works Contract Agreement. Review Contractors works program and resource mobilization schedule and suggest improvements where necessary. The works program and resource mobilization schedule including cash flow statement has to be updated every quarterly.
- ix. Prepare procurement schedule including list of long lead items in compliance with the latest approved Works Program to ensure availability of the same at the time of construction; follow up with the respective contractors for their timely delivery and with vendors (if necessary).
- x. Undertake day to day construction supervision of the works to ensure all works including civil, interiors, engineering services are being done as per the approved design drawings for new hospitals for renovation

of hospitals/ nursing schools and in compliance to the specifications provided in the works contract agreement. Proactively identify any mistakes/ shortcomings in the implementation and get it corrected.

- xi. Initiate documentation of the works at site. Ensure maintenance of various records at site like but not limited to, (i) drawings register, (ii) site visit register, (iii) Quality check lists register/ reports, (iv) materials received register, (v) test reports, (vi) test certificates (vendor, lab), (vii) correspondence etc, pertaining to Word Contract including photographing of the works to capture important stages, evidences etc.
- xii. Submit Monthly Progress report to ASSIST duly indicating the (a) planned vs achieved progress, (b) next two months (running) plan, (c) quantities of work executed, (d) materials received at site during the reporting month, (d) quality control checks, tests done and their results during the reporting month, (e) safety report, (f) list of various activities like meetings, trainings etc. conducted at site, (g) list of authorities, officials, non-officials who have visited the site and their comments, (h) issues observed and rectifications proposed their status (to be reported until their resolution), (i) correspondence sent and received during the month, (j) any other matter of Contractual importance that needs to be documented and reports and (k) progress photographs
- xiii. If the project is delayed, undertake delay analysis to identify the quantum of delay, which party (Contractor-Consultant-ASSIST-Third Party-unforeseen event- force majeure-) is responsible for how much delay, remedial action plan for catching up by updating the works program. The delay analysis report may be submitted Quarterly.
- xiv. Conduct daily/weekly/ fortnightly/ monthly review meeting (as the case may be) at site with the Contractor to discuss the progress, issues and any matter impacting the performance of the Works Contract Agreement, resolve the issues under its authority, escalate them if necessary and prepare the minutes of the meeting
- xv. Report Contract Management and administration issues that impacts the performance of the Contract and its completion as per the Works Contract Agreement promptly to ASSIST and in the monthly progress report.

3.1.3 Quality Control

- xvi. Establish Quality Assurance & Quality Control Protocol at site including responsibility matrix and ensure the implementation of the works is in accordance with contract specification, including overseeing the testing of materials and the finished work at site as per terms of the works contract agreement.

If any of the tests fails, the consultant is to recommend the way forward for rectification of the work in question in consultation with the ASSIST.

- xvii. Initiate quality and compliance checks at all stages of construction like pre-construction check, during construction check and post constructions check for all components/ elements coming in the hospital construction and maintain records for the same.
- xviii. Oversee tests on the engineering services installation like water supply, waste water management including effluent treatment plant (if any), bio-medical waste management, electrical services, firefighting system, HVAC, Medical gases storage and delivery system, voice and data networking system, building security and surveillance etc. including any other service not specifically mentioned here but needed for a seamless functioning of a hospital/ nursing school during their respective installation stage.
- xix. Ensure rectification of any sub-standard work vis-à-vis the Works Contract Agreement by the Contractor
- xx. Oversee commissioning of Engineering services systems mentioned above including integrated functioning of the all.
- xxi. Verify the compliance of the various engineering services, systems and controls installed are as per the Works Contract agreement. Ensure availability of the Operation & Maintenance manual for the systems and controls installed.

3.1.4 Cost Control

- xxii. Undertake checking of Running Account (RA) and Final Bills submitted by the Contractor as per the works done, check measurements (as required) and recommend the payments to be made to the contractor

as per the respective Works Contract Agreement duly considering the deductions to be done if any and statutory payments.

- xxiii. Review variations and change proposals coming in the construction as per the Works Contract Agreement, including justification of the change, cost of the change and its implication on any other items of work and time of completion.
- xxiv. Prepare and quantify the Liquidity Damages/ Penalties (as the case may be) to be imposed to the Contractor as per the provision of the Works Contract Agreement in case of delay caused by the actions/ inactions of the Contractor and submitting it to ASSIST for its imposition.

3.1.5 Safety, Environmental & Social Safeguards

- xxv. Establish & ensure safety protocols at site and ensure adherence to the protocols by every one who is at site including but not limited to personal safety, equipment safety and works safety.
- xxvi. Establish & ensure work protocols including barricading protocols at rehabilitation sites to ensure there is minimal disturbance to the users of the existing facility
- xxvii. Review the safety protocol and compliances at site during all activities being undertaken at site, maintain records of compliance/ non-compliance/ near miss/ minor accident/ major accident etc.
- xxviii. Ensure compliance to all Statutory regulations during construction of the hospital by the Contractor including but not limited to labour laws, environment laws, pollution control laws and any other law not specifically mentioned here but is applicable as per the Law of Land.
- xxix. Periodically conduct safety awareness talks and meetings with contractors and its labour force working at the site. Ensure all visitors coming in to the site including officials of the government are sensitised on safety aspects before they enter the site for inspection.
- xxx. Review, approve Contractor's Environment Social Impact Assessment (ESIA) and Environment Social Management Plan (ESMP); labour management plan, waste management plan (as required) and monitor Contractor's performance against the approved plans. The ESMP plan

is dynamic in nature, hence the Consultant has to ensure the Contractor updates the plan periodically as per World Bank norms.

- xxxi. Identify and report any changes to project design or construction methods which would trigger an update to the contractor's ESMP. Changes to works or methods should be assessed against the existing Project Area of Influence (PAI) and whether there is a likely public interest aspect to the changes. If either the PAI (geographically, socially or environmentally) then the safeguard instruments shall be updated by the Consultant and the Contractor as required and re-disclosed.
- xxxii. Issue instructions to the Contractor to address any ESMP non-compliance issues, or if site restoration is not being done in a timely manner. Review the remedial action/s proposed by the Contractor or Propose suo-moto remedial actions and their timeframe for implementation in the event of a noncompliance of the ESMP.
- xxxiii. Submit ESMP monitoring report along with MPR to ASSIST.
- xxxiv. Establish and maintain a grievance redress mechanism pertaining any of the grievance of stakeholders of the project. Submit the status of grievances and their resolution status in the MPR to ASSIST. Escalate the grievance if it is beyond the purview of the Consultant.

3.1.6 Miscellaneous and Finishing of the Works Contract.

- xxxv. Coordinate with Medical Equipment Vendors for the following but not limited to:
 - a. Architects' incorporation of Design requirements of Medical Equipment in the building design drawings
 - b. Ensure that the work at site – Civil, Electrical, Mechanical, etc. for the Medical Equipment is executed as per requirement.
 - c. Coordinate with Medical Equipment vendors and local authorities for obtaining all approvals for shipment and delivery of the equipment
 - d. Providing Dispatch Clearance Certificate to Medical Equipment Vendors on achieving site readiness.
 - e. Assist in ensuring that the Medical Equipment are safely stored at site until installation
 - f. Coordinate with all agencies for installation of the Medical Equipment

xxxvi. At the end of the defect's liability period and when all outstanding work is completed and all repairs are carried out satisfactorily, issue the defects corrections certificate in accordance with the provisions of the construction contract.

xxxvii. After completion of the works necessary documents/ data and As Built Drawing related to contract shall be handed over to ASSIST along with maintenance manuals.

xxxviii. Assist and support ASSIST in any form of documentation pertaining to the Works Contract Agreement performance and progress.

Any other activity that is deemed necessary for the completion of the Works Contract Agreement but not included in the above shall form the part of scope of work Construction Management Consultancy

4. EXCLUSIONS

The following is excluded from the scope of work of consultant.

- Payment of municipal fees and any other statutory fees payable for approval of drawings at the local ULB/ fire department/ State authority as the case may be etc.
- Payment of fees associated with obtaining green building certification "GRIHA"
- Payment of fees and expenses associated with the bidding process for selection of the Contractor for works contract.
- Payment of fees for dedicated feeder line/ power supply, municipal water supply connection.
- Fees for obtaining permissions from Local authorities for operation of waste handling facility (ETP/ STP, Bio Medical Waste)

5. DELIVERABLES

The following are the deliverables under the consulting assignment

- Review and approval of Design Documents and Good For Construction Drawings to be supplied by the EPC Contractor
- Monthly Progress Reports including ESMP
- Non-Compliance Event report/ Critical issues report
- Recommendations and comments on all correspondence received

- Delay Analysis Report
- Project Completion Report along with “As-Built” Drawings

6. PROJECT DURATION & LOCATION OF SERVICES

The proposed consulting assignment will be (i) for new District Hospitals- 24 months. It will be man month Time Base Contract. The start date of this consulting assignment would be the date of notice to proceed issued to the Contractor. Works on all new facilities may not start simultaneously considering the bid response towards procurement of the works. Staff for the the assignment has to be deployed as per the commencement of the works, (ii) for renovation works- 15 months from the start date of each facility. Works on all rehabilitation works may not start simultaneously.

7. DELIVERABLE WISE PAYMENTS

The payments for the Construction Management Consultancy will be time based and will be reimbursed as per the invoices raised every quarter for the available staff time input at agreed rates. The payment will be made quarterly. The construction Management Consultancy shall submit monthly report and timesheet of Key and Non-Key experts.

8. EXPERTISE FOR THE ASSIGNMENT

The selected firm/agency will be expected to deploy sufficient amount of human resource required to successfully deliver the tasks. An indicative manpower requirement (key experts) for the assignment who will be deployed for the Design Vetting & Construction management Consultancy assignment and non-key experts of suitable qualifications and experience for providing need-based support as and when required are tabulated below:

SN	Key Expert	Qualifications & Experience	Man months
1	Senior Contract Management Specialist (Team Leader)	Graduate civil engineer with at least 20 years of experience in handling multiple construction contracts specifically hospital/ hotel contracts. Should have experience in project planning, resource calculations, delay analysis, correspondence management and is well versed with FIDIC provisions for works contract and should have sound understanding of legal issues of a contract. Must be able to coordinate and guide the new construction and rehabilitation of works. Must be open to travel to sites as and when required.	24 months
2	Contract Management Specialist including	Graduate Mechanical Engineer/ Civil Engineer with at least 15 years of	

SN	Key Expert	Qualifications & Experience	Man months
	Quantity Surveyor (Deputy Team Leader)	experience in handling multiple construction contracts with experience in Renovation and Rehabilitation of hospital/ hotel contracts and well versed with implementation of MEP/ HVAC services. Should have experience in project planning, resource calculations, delay analysis, correspondence management. Must be able to coordinate and guide the new construction and rehabilitation of works. Must have experience in Quantity Surveying and rate analysis for costing of the works. Must be open to travel to sites as required.	24 months
3	Hospital Architect	Architect with minimum 15 years of experience in design and implementation of health care facilities, multi-speciality hospital	2
4	Structural Engineer	Structural Engineer with post graduate degree having 15 years of experience in structural design of institutional multi-storied buildings including seismic design	2
5	Quantity Surveyor	Civil Engineer with minimum 10 years of experience in estimation and budgeting of hospital buildings including rate analysis	2
6	Electrical Engineer	Electrical engineer with minimum 10 years of experience in design of electrical and instrumentation works of a hospital building	1
7	Mechanical Engineer	Mechanical engineer with minimum 15 years of experience in design of HVAC, firefighting, medical gases, plumbing of a hospital building	1
8	Interior designer	Interior designer with experience in "human centric" design having minimum 10 years of experience in corresponding design of hospital buildings.	1

SN	Key Expert	Qualifications & Experience	Man months
9	ICT expert	ICT Engineer with 10 years of experience in development of communication systems, IT network, CCTV and related instrumentation works in a hospital building	1
10	Environment, Health & Safety Officer	EHS officer with 10 years of experience in under taking EHS impact assessment and preparation of corresponding mitigation plan for construction of building works.	2

The above key experts shall sit in Guwahati and shall work closely with PMU, AHIDMS & PWD for design vetting and shall centrally manage the Project construction works during the assignment and shall visit the sites as & when required.

At respective site offices for ten new district hospitals, following key experts are proposed:

SN	Key Expert	Qualifications & Experience	Man months
1	Project Engineer/Manager (10)	Graduate civil engineer with at least 15 years of on-site experience in construction of hospital/ hotel buildings and has completed at least 2 projects end to end during the professional career and should have done interiors and fitouts.	One for each Site. 10 x 24 = 240
2	Electrical Engineer (3)	Graduate Electrical engineer with at least 15 years of on-site experience in installation of electrical wiring and systems in hospital/ hotel construction and has completed at least 2 projects end to end during the professional career and has experience in installation of Electro Mechanical equipment.	Three engineers for 10 hospitals. 3 x 12 = 36
3	Mechanical Engineer (5)	Graduate Electrical engineer with at least 15 years of on-site experience in installation of piping systems, duct systems pertaining to plumbing, waste water, firefighting, medical gases etc during the construction of hospital/ hotel buildings and has completed at least 2 projects end to end during the professional career.	One Engineer for two hospitals. 5 x 12 = 60
4	ICT Engineer (2)	Graduate Information Technology Engineer with at least 15 years of on-site experience in installation of voice, data, networking,	Two engineers for 10

		building security and surveillance systems for the construction of hospital/ hotel buildings and has completed at least 2 projects end to end during the professional career.	hospitals 2 x 9 = 18
5	EHS Officer (10)	Graduate civil engineer with at least 5 years of on-site experience or diploma civil engineer with at least 8 years of on-site experience as a EHS officer and should have worked in a construction of a multi storied building construction. The EHS officer should have experience on working with site safety/ occupational health and safety and implementation of environment management plans.	One for each Site. 10 x 24 = 240
6	Site Engineer (10)	Graduate civil engineer with at least 5 years of on-site experience or diploma civil engineer with at least 10 years of on-site experience in construction of hospitals/ hotels and should have worked at least in one project until substantial completion	One for each Site. 10 x 24 = 240

Though while evaluating technical proposals, CVs of only the Key Experts proposed by the Consultant will be evaluated with respect to the indicative qualification and experience specified for each position in the above table, however, CVs of Non key personnel also must be submitted along with the proposal

Minimum Qualification Desired and Indicative Experience of minimum number of Non-Key Experts

At respective renovation and rehabilitation sites of district hospital (25 nos.) and nursing school (10 nos):

SN	Non-Key Expert (Number)	Qualifications & Experience	Man months
10	Senior Site Engineer (35)	Graduate civil engineer with at least 8 years of on-site experience or diploma civil engineer with at least 12 years of on-site experience in construction of hospitals/ hotels and should have worked in renovation and rehabilitation of building works	One for each Site. 35 x 15 = 525
11	EHS Officer (1)	Graduate civil engineer with at least 5 years	

		of on-site experience or diploma civil engineer with at least 8 years of on-site experience as a EHS officer and should have worked in a construction of a multi storied building construction. The EHS officer should have experience on working with site safety/ occupational health and safety and implementation of environment management plans.	15
12	Electrical Engineer (1)	Graduate Electrical engineer with at least 10 years of on-site experience in installation of electrical wiring and systems in hospital/ hotel construction and has completed at least 1 project end to end during the professional career and has experience in rehabilitation and renovation of hospital/ hotel	9
13	Mechanical Engineer (1)	Graduate Electrical engineer with at least 10 years of on-site experience in installation of piping systems, duct systems pertaining to plumbing, waste water, firefighting, medical gases etc during the construction of hospital/ hotel buildings and has completed at least 1 project end to end during the professional career and has experience in renovation and rehabilitation of works.	9
14	ICT Engineer (1)	Graduate Information Technology Engineer with at least 10 years of on-site experience in installation of voice, data, networking, building security and surveillance systems for the construction of hospital/ hotel buildings and has completed at least 1 project end to end during the professional career.	6
15	Supervisors (35)	Graduate with 5 years of experience in construction of buildings	One for each Site. 35 x 15 = 525

Any support staff for the above staff for the assignment may be provided by the Consultant as required and the costs may be built in accordingly.

The deployment of the experts for the new construction and renovation & rehabilitation work will be need based. The Consultant will have to, in consultation with the Employer, considering the progress of works implementation at each facility, deploy subject matter experts listed above. The mobilization & demobilization of all key experts/ Non key experts for the assignment shall happen strictly after obtaining prior approval of AHIDM Society. No Payments shall be made for manpower deployed without prior written approval of AHIDM Society.

ANNEX 1

List of ten districts where district hospitals are proposed to be constructed:

SI No	Name of the District	Proposed Location*
1	Kamrup Rural	Azara
2	Barpeta	Sarukhetri (Sarthebari)
3	Nagaon	Kaliabar SDCH
4	Goalpara	Dudhnoi
5	Jorhat	Mariani
6	Cachar	Lakhipur
7	Dibrugarh	Naharkatia
8	Lakhimpur	Boginadi
9	Bajali	Pathsala (Bajali)
10	Bongaigaon	Abhayapuri CHC

The district hospitals as proposed under sl no 1 to 6 above are being taken up on priority by Govt. of Assam in the first phase. The remaining Four (4) shall be taken up subsequently and manpower is to be deployed accordingly.