

Meghalaya Industrial Development Corporation Ltd.

(A Government of Meghalaya Undertaking)

CINU75112ML19715G001337

NEWSPAPER ADVERTISEMENT

RFP No. MIDC/EW/TECH/EDS/DFG/ICCC/314/2356

Dated: 13th March 2024

Meghalaya Industrial Development Corporation Ltd. (A Government of Meghalaya Undertaking)

REQUEST FOR PROPOSAL (RFP)

Meghalaya Industrial Development Corporation Ltd.(MIDC) invites Request For Proposal (RFP) from eligible firms to indicate their interest in providing their services etc for the Selection of the Agency for Design, Development, Installation, Implementation, Operation and Maintenance of Integrated Command and Control Centre (ICCC) for various Forest Management Services, Eco Development Society, Department of Forests & Environment, Government of Meghalaya.

Detailed terms and conditions may be downloaded from the website of MIDC at <u>https://midc.megindustry.gov.in/</u> or <u>https://meghidc.com/</u>. the Tender Fee should be in the form of a Demand Draft for Rs. 10,000 and is non-refundable. The bids can be submitted up to 5:00 PM on 03.04.2024 and shall be opened 04.04.2024 at 11.00 AM.

The responses must be submitted in a sealed envelope to:

The Managing Director, Meghalaya Industrial Development Corporation Ltd., KISMAT Upland Road, Laitumkhrah, Shillong-793003, Meghalaya.

All interested parties are to update themselves on any addendums or corrigendum updates through the websites. No further newspaper advertisements will be published

Shri D. D. Nongmalieh Managing Director

Memo no. MIDC/EW/TECH/EDS/DFG/ICCC/314/ 2358

Dated: 13th March 2024

Copy to:

- 1. Secretary, Eco Development Society, Government of Meghalaya
- 2. Senior Technical Director, NIC Shillong
- 3. Director of DIPR for necessary publication in one local newspaper (English or Khasi) for one issue.
- 4. Notice Board

Registered Office : "KISMAT" Upland Road, Laitumkhrah, Shillong - 793003, Meghalaya, India 2 : (0364) 2223458, 2507414 | Fax : (0364) 2507424 | E-mail : midcltd@rediffmail.com

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Shri D. D. Nongmalieh Managing Director

Meghalaya Industrial Development Corporation

(A Government of Meghalaya Undertaking)



Request for Proposal

for

Selection of Agency for Design, Development, Installation, Implementation, Operation and Maintenance of Integrated Command and Control Centre (ICCC) for various Forest Management Services, Eco Development Society, Department of Forests & Environment, Government of Meghalaya

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GOVERNMENT OF MEGHALAYA

RFP No: MIDC/EW/TECH/EDS/DFG/ICCC/314/ 2356

March 13, 2024

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Managing Director Meghalaya f.idustrial Development Corporation Ltd. Shillong

CONTENTS

1.	Impor	tant Dates	5
2.	Fact S	heet	5
3	Backg	round	7
	3.1	Objective of the project	.7
ŝ	3.2	Functions of the Integrated Command and Control Center (ICCC)	.7
:	instru	ction to Bidders	
	4.1	General Instructions to Bidders	!1
	4 2	Compliant Proposals	1
	4 3	Queries & Clarifications	2
4	4.4	Responses to Pre-Bid Queries and Issue of Corrigendum	3
4	¢.5	Right to Terminate the Process	3
	±.5	Performance Bank Guarantee (PBG)2	3
	4.7	Submission of Proposals2	3
-	4.8	Bidder's authorised signatory2	4
4	وه	Preparation of Proposal & Costs2	4
4	4.10	Language2	4
4	4.11	Venue & Deadline for Submission of Proposals2	4
4	4.12	Proposals submitted after designated time of submission2	5
2	4.13	Evaluation process2	5
4	4.14	Proposal opening2	6
4	4.15	Proposal validity2	6
4	4.16	Project duration2	6
2	17	Jurisdiction of Courts2	6
5.	Criteri	a for evaluation27	
Ę	5.1	Technical Evaluation2	7

ĸ	ĩ	Technical Evaluation	27
5.	2	Price Bid Evaluation	29
5	3	Combined and Final Evaluation	31
б.	Awarc	d of Contract	32
6	1	Award Criteria	32
ĥ.	.2	Right to Accept Any Proposal and To Reject Any or All Proposal(s)	32
6	.3	Notification of Award	32
ĥ	.4	Performance guarantee	32
6	.5	Signing of contract	33
6	.6	Failure to Agree with the Terms and Conditions of the RFP	33
7.	Scope	e of Work	34
7.1	Pre –I	Implementation Phase:	34
7.2	Imple	mentation Phase- ICCC designing, development and installation:	35
7.3	Post i	mplementation phase (Operation and Maintenance):	.35
7.4	Exclus	sions:	.36
7.5	Platfo	orm Security	.37
7.6	Traini	ing of resource personnel	.38
8.	Delive	erables, Timelines and payment milestones	.69
8.1	Delive	erables & Timelines	.69
2.2	Paym	ent Schedule	.70
9.	Servic	ce Level Agreements (SLA)	.70
9.	.1	Project Activities	70
9.	.2	Availability	71
10.	Forma	ats to be filled in by the Bidder	73

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<u>Managing Director</u> Meghalaya Industrial Development Corporation Ltd Shillong

IMPORTANT DATES			
òr. No.	Items	Description	
1 RFP Document Release Date Date: March 13, 2024 at 10:00 hrs IST		Date: March 13, 2024 at 10:00 hrs IST	
2	Last Date for submission of Pre-bid Queries	March 22, 2024 by 17:00 hrs only at following email ID: midcltd@rediffmail.com	
3	Date and Venue for Pre-bid conference	March 25,2024 at 2:00 hrs. at the Board Room of Meghalaya Industrial Development Corporation Ltd, KISMAT Upland Road, Laitumkhrah, Shillong-793003, Meghalaya, India or via video conference	
3	Last date and time for submission of bids (Technical & Financial both). Each bidder has to submit 1 (original) and 2 (two) copies of their technical and financial bids.	April 03,2024 by 17:00 hrs at the office of the Managing Director, Meghalaya Industrial Development Corporation Ltd	
4	Bids opening date & time	April 04,2024 by 11:00 hrs at the office of the Managing Director, Meghalaya Industrial Development Corporation Ltd	
5	Date and Time for presentation on Concept Note and Approach & Methodology	To be communicated later	
6	Financial Bid opening date & time (Only of technically qualified bidders)	To be communicated later	

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DetailsTopicection methodQCBS (80:20)der Document FeeRs. 10,000/- (Rupees Ten thousand only) in the form of a Demand Draft in favour of the To, The Managing Director, Meghalaya Industrial Development Corporation Ltd., KISMAT Upland Road, Laitumkhrah, Shillong-793003, Meghalaya, India. Please note that only bidders who have paid the Tender Document Fee shall be allowed to attend the Pre-Bid Conference.rmest Money DepositRs. 30,00,000/- (Rupees Thirty lakhs only) in the form of a Demand Draft in favour of To, The Managing Director, Meghalaya Industrial Development Corporation Ltd., KISMAT Upland Road, Laitumkhrah, Shillong-793003, Meghalaya, India. This will be returned to the bidders after the completion of the bidding process and the declaration of the successful bidder.PBGPerformance Bank Guarantee (PBG) of 5% of the contract value to be submitted by the successful bidder in the form of Bank Guarantee on or before the date of signing of the Agreement with the Client.ntact detailsAll queries should be received through email as per timeline mentioned in 'Important Dates'. The contact details are: Advisor/Assistant General Manager (Finance) 9953432234/9366188964 Email: midcltd@rediffmail.com	FACT SHEE	Γ
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BACKGROUND

2.1 OBJECTIVE OF THE PROJECT

Meghalaya Government intends to engage a professional and competent agency to set up and operate an Integrated Command and Control Center (ICCC) for real time data storage, management, communications and synchronized operations of various Forest Management Services under various units of Forest Department, Government of Meghalaya.

The objective is to set up the state-of-the-art Integrated Command and Control Center (ICCC) in the Forest Department of Meghalaya to manage and monitor all its key activities in real time, both spatial and temporal, and to disseminate information to all stakeholders in an easy and visualized manner. This will facilitate various divisions of the Forest Departments to coherently take informed decisions on required actions to be undertaken in timely and transparent manner. The Department of Forest, therefore has decided to revamp its technology infrastructure by setting up an Integrated Command and Control Center (ICCC) involving multiple technologies such as GIS, GPS, remote sensing, etc. to facilitate e-governance for improved service delivery.

The Department of Forest, Government of Meghalaya (on behalf of Government of Meghalaya) seeks responses to this RFP from bidders whose services can be availed for setting up, operation and management of ICCC for the Government of Meghalaya. The selected agency shall design, create, host, operate and maintain the ICCC for 3 years.

The architecture / framework shall support processing of applications by the state department, allow electronic flow of information / documents amongst the stakeholders based on predefined parameters, integrate processing of information/ data amongst various concerned units in a seamless manager.

For this project, the Eco Development Society, Department of Forests & Environment, Government of Meghalaya, serves as the client, seeking to enhance its technological capabilities and operational efficiency through the establishment of an Integrated Command and Control Center (ICCC). The Meghalaya Industrial Development Corporation Ltd. (MIDC Ltd), acting as the Project Management Consultant (PMC), is tasked with overseeing the project's execution. The partnership between the client and the PMC aims to ensure the project's successful delivery, adhering to the highest standards of quality and effectiveness in achieving the set objectives. This collaboration underscores the commitment to leveraging advanced technologies for the betterment of forest management services and environmental conservation efforts in Meghalaya.

2.2 FUNCTIONS OF THE INTEGRATED COMMAND AND CONTROL CENTER (ICCC)

With the objective stated above, The Forest Department, Government of Meghalaya has decided to set up an ICCC as a platform to enable a single window access for information management/ handling and services to be provided by various functionaries of the Forest Department and to establish a collaborated environment within the department.

It is envisaged that the ICCC will have following modules covered under its framework:

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SI. No.	Module	Functionality
	Forest Geo-informatics	 Digitization of Forest Stock Maps for max 5 varieties across the complete forest cover Data collection and digitization for select forest stock / produce (max of 5) and integrating with geo specific map data Digitization of forest boundaries Digitization of forest boundaries Digitization of land records of RF and PF sanctuaries To help identify encroachments Creation of high-resolution map for an area of 150 Sq Km of the forest with resolution of at least 50 cm. Access to existing ArcGIS data and API to be provided to enable this. Access to existing GIS data and license Integration of attribute data with digital data for the complete forest cover Visualization of data on images / other markers. Information linked to geographic / spatial data that describe features. Generation of the required thematic maps A specialised map made to visualise stock data on geographic area. Query based output in the form of derived maps Forest cover map to be provided by the department based on requirement Real time updating of the data/ information The digitisation would also be useful for delineation of wildlife corridors, eco-sensitive zones, wetlands and zones of influence.
2	Wildlife Management System	 Monitoring of habitat status, population variance Data tracking through portal; existing data

	 and web portal for data collection and work flow. Alert generation for untraced key species Data tracking through mobile portal; data input from field, generates portal level alerts (for key species). Monitoring of patrol camps Through integrated portal Scheduling and staff management Track patrol movement through QR codes (mobile application) 200 mobile devices for field staff E-patrolling by mobile app to ensure that patrolling done properly by staff Creation of temporal and spatial database of wildlife sightings Integration of tagged data from existing camera traps, portal for data entry to be provided. Representation on maps / other interface in ICCC. Data entry to be done by department personnel Additional camera traps to the extent of 50 numbers Date and time wise data integration Delineation of Eco-Sensitive Zone for each Protected Area, based on the data provided by Wildlife Wing At representative map level for data visualisation Mapping of elephant corridors and monitoring live streaming Drone based surveillance to prevent wildlife hunting crimes Real time monitoring of Eco-Sensitive zone and wetlands Camera traps and live streaming (through CCTVs) integration with SNPP, MODIS data to get daily fire alerts in ICCC
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3	Forest Dweller Management System	 Survey the area of forest dwellers land holdings Estimate the area of the land Prepare digital map of the land Online publication of land holdings on Web GIS based application like Google Maps Digitization of land records Decision support in ST and traditional forest dwellers claims
4	Forest Offence Management System	 Monitoring of offences: locations, issuing authority, related forest areas, type of offence, Offenders and witness, Loss / damage of forest produce, material or wildlife, Stump details in case of illicit felling Mobile and web application for offence registration with images and details and assign complaints to respective personal as per predefined rules
5	Integrated Timber Management Portal	 Felling permission by DFO Felling from Non-forest area Lifting order by DFO Windfallen / Unclaimed timer from FDCM Public Auction Portal Issue QR coded transit pass Registration of Saw Mill / Furniture Units Reporting Issue in-lieu TP by RFO Timber from Other Sources

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Managing Director <u>Meghalaya (adustrial</u> Development Corporation Ltd. Shillong An Integrated Control and Command Center (ICCC) will be set up and will be equipped with all the infrastructure and technologies required to run and operate the above modules on digital platform in an integrated manner. The modules have to be integrated using suitable technologies in such a way that they work in tandem and provide a seamless environment which is secure and is easy to operate and maintain.

The ICCC will host the integrated system of web applications and framework which will suit the state government's broad vision of information management and decision-making process at a mouse click for the stakeholders.

An integrated architecture will be developed to host the web-based applications for the proposed modules, this architecture will be installed and operated in the ICCC. The ICCC will be set up at Client's headquarter office, and its server can be accessed by all divisional level and range level offices from remote locations.

Supply of computer systems to 22 identified offices and 20 hand held devices for data entry of key information to be viewed in ICCC.



Fig: Integrated architecture of servers and host network for ICCC (Illustrative version)

ORAMS

Managing Director Meghaloya Industrial Development Corporation Ltd. Shillong This is turnkey project for setting up the Integrated Command & Control Centre (ICCC) which includes the following works:

- 1) Design of the Integrated Command & Control Centre.
- 2) Supply, Installation & Commissioning of required technology hardware, Software along with the accessories.
- 3) Supply of all Civil, Interiors, Furniture, Soft furnishing, Electrical, HVAC, Safety, Security Materials as per the proposed design.
- 4) Interior, Electrical, HVAC & Networking work.
- 5) Installation of Safety & Security System
- 6) Software Application development as per the use cases.
- 7) Annual Maintenance of Hardware & Software for 2 years.
- 8) Operation of Integrated Command & Control Centre for 2 years.

The successful bidder will be responsible for end-to-end Design & implementation for setting up the Integrated Command & Control Centre along with supply of all the required items.

THE SCOPE OF WORK FOR THIS ENGAGEMENT IS DEFINED INTO THREE PHASES:

A. Phase-1: Design of the the Integrated Command & Control Centre:

The successful bidder shall carry out detailed design that provides Techno-Architectural Layout of the Integrated Command & Control Centre. This phase is divided into four modules.

1) Interior Design: The successful bidder shall carry out detailed interior design of The Integrated Command and Control Centre, that provides complete view of the optimised layout wherein all the components of The Integrated Command and Control Center is demonstrated both in the plan view as well as in interactive format through VR. The proposed design of The Integrated Command and Control Center must take care of the design and the minimum size of the equipment (given in the tender) proposed to be used while designing the architectural layout. This phase may involve an iterative approach wherein the feedback or inputs can be given by the Department of Forest and that needs to be incorporated as appropriate. The vendor may carry out a site visit for a complete assessment of the space and setting. Bidders are expected to have complete understanding of all features of the space, like the floor and ceiling, during the visit.

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- 2) <u>Technology Hardware Design</u>: The successful bidder shall carry out the detailed design of hardware and its placement along with the interior furniture. The design must take care of the size of the area provided. Taking all constraints related to space into account, successful bidder need to design the hardware in such a way that all the components are ergonomically designed with optimum utilization of space to the extent possible but also includes all the technology hardware (as mentioned in this document) to provide a meaningful user journey. Successful bidder to suggest the best-fit size of the hardware basis the techno-architectural design proposed by them, taking into consideration the minimum size specified by the Department of Forest in this tender. The bidder to include all the soft furnishing, furniture in the design. This as the design will be strongly influenced by the space available at the centre in Shillong. It must provide easy movement of the equipment while installing or maintenance.
- 3) Utility design: The successful bidder shall carry out detailed utility design i.e. the power sourcing layout, network layout, earthing system, lighting, audio etc. The bidder shall carry out detailed study of power consumption and optimum air conditioning and recommend suitably to the Department of Forest. Basis the assessment, capacity augmentation of distribution transformer, panel board (main service breaker and a series of circuit breakers, which control the flow of power to various circuits in the building) as required needs to be taken by the vendor.
- 4) Content & Interface design: The vendor shall design/contextualise the content basis of all the Use cases provided for each technology area as mentioned in the Scope document of this document and the suitable format of the content needs to be made available for the technology components of the Command Centre. The details, requirement understanding will have to be gathered from Department of Forest stakeholders. The Department of Forest will provide relevant content to the extent possible, in case any fresh requirement is to be made, the vendor shall contact the relevant Department of Forest stakeholder for the design and curation of the content & existing applications within the department to successfully show and integrate it to the Command Centre. The successful bidder should design all the content based on relevant cutting edge technology to demonstrate the use of various applications through relevant use cases. The successful bidder to develop a superlative UI/UX design of the contents of the Use cases keeping in mind the user group. Content updation, change, loading should be able to be done remotely with an easy to use interface. It can be done on a Quarterly, Half Yearly and Yearly basis, the same can be jointly discussed and agreed with the Department of Forest. The content for all digital elements will be deployed on local server/cloud as appropriate for the supporting hardware linked to the above elements and shall be done by the qualifying

Managing Director

Managing Director Moghalaya Industriat Development Corporation Ltd. Shillong bidder. The bidders need to provide a detailed design walk through during the evaluation stage which will be evaluated by the Department of Forest and a score will be awarded on that. For this initial design, the vendor may carry out site visits for a complete assessment of the space.

B. Phase 2: Supply & Execution:

The successful bidder is required to supply all the requisite items along with all the accessories and peripherals viz. cables, cords, connectors, fittings, fixtures etc. which are required for successful installation and commissioning of the ICCC. The successful bidder will be responsible for delivery, installation, integration and commissioning of all the items for successful implementation of the best-fit agreed design end to end. The supplied products must be of reputed make and must comply with Bureau of Indian Standards (BIS) or equivalent International standards (EMC).

This Execution Phase consists of five modules

- 1. Interior / Civil Works (Area approx 3000 sqft): The qualifying bidder shall carry out all the necessary civil work as per the agreed design in the space provided to make ready the existing space for the Integrated Command & Control Centre. This includes works like, levelling, cementing, painting, wooden flooring, portioning, skirting, carpeting, etc. The Department of Forest will provide room with existing interiors (in as is condition) and with the existing HVAC / Facilities in as is where condition. The bidder needs to visit the site and estimate the civil work requirements, keeping in mind whatever existing interior can be used. The bidder needs to take care of transportation, Debris Removal, etc all other associated jobs.
- 2. <u>Electrical Works</u>: The successful bidder will be responsible for entire electrical works including but not fimited to:

i. Electrification: The entire wiring and distribution of power including earthing as required will be done by the bidder after taking consent from Department of Forest representatives. Moreover, there should be adequate power points and network ports for power supply and connectivity. Conformity with IS codes such as IS 3043 and other relevant standards (NEC etc.) should be adhered to. The estimated total power load of the The Integrated Command and Control Centre to be provided in advance to Department of Forest for suitable permissions and arrangements.

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Meghalaya Indexinar Development Corporation Ltd. Shillong ii. HVAC system: Air-conditioning of The Integrated Command and Control Center is the responsibility of the bidder. The bidder will determine the air-conditioning requirement of the Integrated Command & Control Centre and supply and install required air conditioners in The Integrated Command and Control Centre at its own cost.

iii. Lighting & Illumination: The design of lighting and illumination is an important factor of ICCC. The placement of different types of lights and facility of controlling the illumination needs to be designed and accordingly provided in the center. The provisions for automatic and manual control of illumination need to be provided. Room lighting fixtures (LED lights) on the ceiling should be provided with dimming controls as per the design. Successful bidder to provide the lighting items along with accessories and also install the same.

iv. Audio Systems: The qualifying bidder will provide necessary sound / audio systems required for the functioning of digital The Integrated Command and Control Center. A stereo sound system should be installed to reproduce program sound from videos, PCs and other sources like cordless mike etc. These are to be installed on the roof top/ side walls appropriately for enabling quality sound for all visitors. The room should be fitted in such a manner so that echo from the discussions / presentations and video conferencing is negligible. The provided audio system should be integrated with the digital screens, laptops and other related hardware.

v. Un-interrupted Power Supply: The qualifying bidder needs to supply and install Power back-up in the form of UPS, so that the power supply to all the computing and display systems are not interrupted at the Integrated Command & Control Centre. Requirement of any infrastructure for the same shall be provided solely by the qualifying bidder. The UPS that shall be supplied by the bidder should be procured keeping in mind 1.5 times of the peak load. The UPS should have in-built battery backup for a minimum of 30 minutes. The space management can be done using smart racks for placing the USPs, servers, cooling ACs, etc. Online UPS with SMF (Sealed maintenance free Battery to be used).

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c. Security and Safety Systems:

Security and safety is an important aspect of the Integrated Command & Control Centre. It must include the following but not limited to:

i. The security Access control system shall be designed and integrated with the access gates / doors and provide the capability of controlling one or more entry /exit doors for the ICCC with alarm elements, locking devices, door hardware etc.

ii. The successful bidder to install access control system that should work on biometrics like thumb prints, facial recognition and also on proximity card system for gaining entry into the ICCC,

iii. The security access control system should control automatic locking and unlocking of doors, provide detailed reports of door usage and provide forced door or propped-open door status.

iv. The security access control system should be a PC based system with necessary access control hardware, software and network connectivity for downloading data from remote locations.

vi. The system should have online real time monitoring of logged data when connected to PC and should be capable of giving exhaustive MIS report.

vii. The qualifying bidder must provide fire and smoke detectors along with any other additional system to ensure fire related hazards can be automatically detected and extinguished such as alarm systems, portable fire extinguishers etc. for The Integrated Command and Control Center. The type of fire extinguisher should be suitable for operation on electrical and electronic equipment without any damage to them.

d. Technology Hardware Supply & Installation:

The successful bidder shall supply, install and commission all the hardware along with the accessories and associate software for all the Digital Technology element as mentioned in the scope and also the hardware required for the successful execution of the all the use cases scope. The bidder must provide the list of equipment along with the make, specification to the Department of Forest before installing them. The required details of quality checks and Energy Star certification etc. needs to be submitted to the Department of Forest. The bidder has to arrange for the transportation of the materials required. The Department of Forest may provide an open area for keeping the required material on the availability of space. Bidder is responsible for installation of the equipment including

Managing Directo Meghalaya Industrial Development Corporation Ltd Shillong

compatible electrical work. All equipment needs to be tested post commissioning to ensure optimum performance. The list of technology bardware is given in the BOQ and the specifications.

e. Solution Installation:

i. Network Services: The qualifying bidder shall evaluate the feasibility of the existing LAN network for operations and connectivity to enable access to the selected use cases to be deployed at the Department of Forest. The Integrated Command and Control Center. The vendor shall recommend the LAN upgradation, if required to the Department of Forest administration.

ii. System Integration: The qualifying bidder should provide and cover solution details such as platform, operating system, database, integration platform etc. The bidder will also provide technical and deployment architecture. Compliance with Security, scalability, manageability, performance parameters should be ensured. Scope of integration to be clearly outlined to provide visibility on whether there will be dependency on integration of the platform to be used by the vendor for information storage and dissemination.

iii. Development and Content Deployment: The successful bidder is responsible for creating and deploying all the contents required for the Use cases / applications as mentioned in scope of this document. The successful bidder is responsible for providing the required hardware and software setup for use case deployment. The bidder needs to engage with the respective user department and draw out the detailed scope and action plan before undertaking the specific work, along with proper documentation duly agreed and signed-off by the user department. The relevant user departments will provide the idea/concept for the content as per the use case defined . The responsibility of the qualifying bidder is to design, develop, end-to-end deployment in multiple platform as required in the hardware for delivering an experience. The bidder shall take sign off after developing content of use cases from the Department of Forest. A comprehensive content updation, change, loading of new content can be done remotely with ease of use. The CMS should be easily customizable as per Department of Forest needs and workflows and content application architecture. The necessary firewall or web service, if needed, may be discussed with the Department of Forest post onboarding of the qualified vendor. The successful bidder will procure the enterprise-wide and perpetual / SAS licence for the software that are required for deploying the use case of for the hardware.

Managing Director Megnalaya Industrial Development Corporation Ltd Shillong

C. Phase 3: Operations and Maintenance

The successful bidder will be responsible for operations and maintenance of the Integrated Command & Control Centre.

Operation: The vendor will be responsible for the following (but not limited to):

a. The bidder needs to provide post rollout operation support and maintenance. This will be provided using a combination of onsite and offshore resources by the vendor.

b. The qualifying bidder will depute one (1) hardware-cum-systems engineer at the Integrated Command & Control Centre during the entire 2 years for operation and maintenance.

c. Personnel proposed to be engaged must have relevant experience.

d. The personnel will be stationed in the center for 2 years and will be responsible for day-to-day operation of ICCC, troubleshooting etc.

e. Day-to-day operation includes running and upkeep of all the hardware/software, applications, etc.

f. Provide technical support as and when required to ensure smooth functioning of the Integrated Command & Control Centre.

g. Attend any outage that is triggered due to hardware, application or related components of the Integrated Command & Control Centre.

h. Preventive/Periodic maintenance and replacement of hardware and software components as required.

i. Successful Bidders should carry out any requisite adjustments / changes in the configuration for implementing different versions of application software.

j. The Bidder shall undertake regular preventive maintenance of the licensed software.

k. The Bidder shall provide from time to time the updates/upgrades/new releases/new versions/patches/bug fixes of the software, etc. as required. The bidder should provide free updates/ upgrades/ new releases/ new versions/ patches/bug fixes of the software and tools as and when released by the OEM during the warranty period.

I. Monitoring of Network Connectivity (provided by service provider) and report the non-compliance. This will involve technical support as well troubleshooting in instances like hardware failure, WAN link failure, software failure, virus attack, denial of service.

Annual Maintenance Contract (AMC):

1. AMC shall come into effect after 1- year of Installation of Hardware. The AMC covers, free of cost, on-site repairs /replacement of defective parts, modules, motherboard, fuses, LED's, Switches, Panels etc. against any and all failures and defects both due to any shortcoming in design/workmanship or against failures/defects arising under normal operation during the said period.

2. Any complaint/breakdown call (intimated by Call/ Mail, message, phone or any other means of communication) must be attended to within two working days from the call log.

3. Any spare parts or consumables (not present in the stock of items) that need replacing shall be done within 7 working days from call log. In case, the complaint is not attended to within the time frame given above, a penalty of Rs. 500.00 per day of delay will be levied subject to a maximum amount of 5% of total yearly AMC and will be deducted from any dues to the vendor. If at any point of time, it is required to take any part for servicing, the same will be done only after providing a spare part (so that the machine doesn't stop working) till the repaired part is brought back and fixed

4. During the AMC period, the Bidder should extend the On-Site Service Support. The scope of DLP and AMC shall include: -

a) Fixing the equipment problems.

b) Upgradation, supply, installation and implementation of upgraded versions of any operating software

c) Software updates/ upgrades.

d) Rectification of Bugs/defects, if any.

ei Preventive as well as corrective Maintenance quarterly. (including calibration)

f) Maintenance of Hardware/Software.

g) Reinstallation of supporting firmware/software, whenever required.



Managing Director Meghanaya Industrial Development Corporation Ltd Shillong

2. PROJECT SCHEDULE

The total project duration is of 24 weeks divided into different phases as follows:

TO is the starting date/day Zero of the project which is within the 15 days of placement of PO

2.1 Phase 1: Design of Integrated Command & Control Centre (T0 + 6 weeks)

2.1.1 Site Survey and Designing of the Integrated Command & Control Centre with the layout including interior, equipment and utility as mentioned in scope.

2.1.2 Submission of final Techno-Architectural design.

2.2 Phase 2: Execution (T0 + 24 Weeks)

2.2.1 Completion of interior works of the Integrated Command & Control Centre (T0 + 16 Weeks)

2.2.2 Completion of electrical work as mentioned in scope document & approved design (T0 + 16 Weeks)

2.2.3 Lighting and audio system works, HVAC, Network, Security, Fire alert, etc. as mentioned in scope document & approved design

2.2.4 Delivery of the Hardware- (T0 + 12 weeks)

2.2.5 Supply of all the hardware as mentioned in the scope of the document along with requisite accessories.

2.2.6 Installation and commissioning of hardware (T0 + 20 Weeks)



Managing Director Meghalaya Industrial Development Corporation Ltd. Shillong

3. INSTRUCTION TO BIDDERS

3.1 GENERAL INSTRUCTIONS TO BIDDERS

- A. While every effort has been made to provide comprehensive and accurate background information and requirements and specifications, Bidders must form their own conclusions about the solution needed to meet the requirements.
- B. All information supplied by Bidders may be treated as contractually binding on the Bidders, on successful award of the assignment by the Purchaser on the basis of this RFP.
- C. No commitment of any kind, contractual or otherwise shall exist unless and until a formal written contract has been executed by or on behalf of the Purchaser. Any notification of preferred Bidder status by the Purchaser shall not give rise to any enforceable rights by the Bidder. The Purchaser may cancel this public procurement at any time prior to a formal written contract being executed by or on behalf of the Purchaser.
- D. This RFP supersedes and overrides any previous public documentation & communications, and Bidders should place no reliance on such communications.
- E. A Bidder can be a single firm or a consortium of two or more firms in which case a Consortium or Teaming Agreement needs to be signed by the parties before the submission of bids. Bids by a Consortium shall be signed by the Prime Bidder or the Lead Partner of the Consortium. Credentials of consortium members shall be collectively be considered for eligibility

3.2 COMPLIANT PROPOSALS

- a) Bidders are advised to study all instructions, forms, terms, requirements and other information in the RFP documents carefully. Submission of the bid shall be deemed to have been done after careful study and examination of the RFP document with full understanding of its implications.
- b) Failure to comply with the requirements of this paragraph may render the Proposal non-compliant and the Proposal may be rejected. Bidders must:
 - i. Follow the format of this RFP and respond to each element in the order as set out in this RFP

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ii. Comply with all requirements as set out within this RFP.

3.3 QUERIES & CLARIFICATIONS

Submission of Queries / Pre-bid Conference, if required:

- a. Purchaser shall accept queries with respect to the RFP as per the date, time, and venue mentioned at the beginning of this RFP.
- b. The Bidders will have to ensure that their queries should reach the point of contact (Nodal Officer) as per details at the beginning of this RFP.
- c. The queries should necessarily be submitted in the following format:

SI. No	RFP Document Ref. (Section & Page No)	Content of RFP requiring clarification (s)	Points of clarification

d. Purchaser shall not be responsible for ensuring that the Bidders' queries have been received by them. Any requests for clarifications post the indicated date and time may not be entertained by the Purchaser.

Development Corporation Ltd. Shillong

3.4 RESPONSES TO PRE-BID QUERIES AND ISSUE OF CORRIGENDUM

- a. Purchaser will endeavour to provide timely response to all queries. However, Purchaser makes no representation or warranty as to the completeness or accuracy of any response made in good faith, nor does Purchaser undertake to answer all the queries that have been posed by the Bidders.
- b. At any time prior to the last date for receipt of blds, Purchaser may, for any reason, whether at its own initiative or in response to a clarification requested by a prospective Bidder, modify the RFP Document by a corrigendum.
- c. The addendum/ corrigendum (if any) based on the queries from all Bidders will be uploaded on https://midc.megindustry.gov.in/ https://meghidc.com/
- d. Any such corrigendum shall be deemed to be incorporated into this RFP.
- e. In order to provide prospective Bidders reasonable time for taking the corrigendum into account, the Purchaser may, at its discretion, extend the last date for the receipt of Proposals.
- 3.5 RIGHT TO TERMINATE THE PROCESS
 - a. Purchaser may terminate the RFP process at any time and without assigning any reason. Purchaser makes no commitments, express or implied, that this process will result in a business transaction with anyone.
 - b. This RFP does not constitute an offer by the Purchaser. The Bidder's participation in this process may result in the Purchaser selecting the Bidder to engage towards execution of the subsequent contract.

3.6 PERFORMANCE BANK GUARANTEE (PBG)

On selection, the Bidder shall submit, a PBG of 5% of contract value, on or before the day of signing the Contract.

3.7 SUBMISSION OF PROPOSALS

Bidders should submit their responses in an outer sealed envelope marked as *Response to RFP for "Selection of Agency for Design, Development, Built, Implementation, Operation and Maintenance of Integrated Command, Control and Data Centre (ICCDC) for various Forest Management Services, Eco Development Society, Department of Forest, Government of Meghalaya*" with the name and address of the Bidder mentioned in it. This

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Managing Director Meghalaya Industrial Development Corporation Ltd. Shillong outer envelope should contain two sealed envelopes marked as "Technical Proposal" and "Price Bid" again with the name and address of the Bidder mentioned on them. All the pages of the Proposal document must be sequentially numbered and must contain the list of contents with page numbers. Any deficiency in the documentation may result in the rejection of the Bidder's Proposal.

3.8 BIDDER'S AUTHORISED SIGNATORY

A Proposal should be accompanied by an appropriate board resolution or power of attorney in the name of an authorised signatory of the Bidder stating that he is authorised to execute documents and to undertake any activity associated with the Bidder's Proposal. A copy of the same should be submitted along with the bid. Every page of the bid document should be signed in original by the authorised signatory of the bidder along-with the official stamp.

3.9 PREPARATION OF PROPOSAL & COSTS

The Bidder shall be responsible for all costs incurred in connection with participation in the RFP process, including, but not limited to, costs incurred in conduct of informative and other diligence activities, participation in meetings/ discussions/ presentations, preparation of proposal, in providing any additional information required by Purchaser to facilitate the evaluation process, and in negotiating a definitive contract or all such activities related to the bid process. Purchaser will in no event be responsible or liable for those costs, regardless of the conduct or outcome of the bidding process.

3.10 LANGUAGE

The Proposal should be filled by the Bidder in English language only. If any supporting documents submitted are in any language other than English, translation of the same in English language is to be duly attested by the Bidders. For purposes of Proposal evaluation, the English translation shall govern.

3.11 VENUE & DEADLINE FOR SUBMISSION OF PROPOSALS

The proposals in sealed envelopes shall be submitted at: The Managing Director, Meghalaya Industrial Development Corporation Ltd, KISMAT Upland Road, Laitumkhrah, Shillong – 793003, Meghalaya. Last date for submission is April 03,2024 by 17:00 hrs. Any proposal submitted after the mentioned deadline will not be

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Moghalaya Industrial Development Corporation Ltd. Shillong outer envelope should contain two sealed envelopes marked as "Technical Proposal" and "Price Bid" again with the name and address of the Bidder mentioned on them. All the pages of the Proposal document must be sequentially numbered and must contain the list of contents with page numbers. Any deficiency in the documentation may result in the rejection of the Bidder's Proposal.

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Managing Director Moghalaya Lidustriat Development Corporation Ltd. Shillong accepted and hence shall be automatically rejected. Purchaser shall not be responsible for any delay in the submission of the documents

3.12 PROPOSALS SUBMITTED AFTER DESIGNATED TIME OF SUBMISSION

- a) Bids submitted after the due date will not be accepted
- b) The Purchaser shall not be responsible for any delay or non-receipt/ non-delivery of the documents. No further correspondence on the subject will be entertained.
- c) The Purchaser reserves the right to modify and amend any of the above-stipulated condition/criterion depending upon project priorities vis-à-vis urgent commitments.

3.13 EVALUATION PROCESS

- a. The Purchaser will constitute a committee to evaluate the responses of the Bidders (Purchase Committee).
- b. The Purchase Committee constituted by the Purchaser shall evaluate the responses to the RFP and all supporting documents / documentary evidence. Inability of a Bidder to submit requisite supporting documents / documentary evidence within a reasonable time provided to it, may lead to the Bidder's Proposal being declared non-responsive.
- c. The decision of the Purchase Committee in the evaluation of responses to the RFP shall be final. No correspondence will be entertained outside the process of negotiation/ discussion with the Purchase Committee.
- d. The Purchase Committee may ask for meetings with the Bidders to seek clarifications on their proposals.
- e. The Purchase Committee reserves the right to reject any or all Proposals on the basis of any deviations contained in them.
- f, Each of the responses shall be evaluated as per the criterions and requirements specified in this RFP.



3.14 PROPOSAL OPENING

The Proposals submitted up to the date and time mentioned at beginning of this RFP will be opened by the officer authorized by the Purchaser, in the presence of the Bidder's representatives who may be present at the time of Bid opening.

The representatives of the Bidders are advised to carry an identity card or a letter of authority from the Bidding entity to identify their bonafides for attending the opening of the Proposal.

3.15 PROPOSAL VALIDITY

The offer submitted by the Bidders should be valid for minimum period of 180 days from the date of submission of the Proposal.

3.16 PROJECT DURATION

The duration of the project is expected to be initially for 3 years, which may be extended based on the performance of the Agency and feedback from concerned stakeholders.

3.17 JUSRISDICTION OF COURTS

The courts of India at Shillong, Meghalaya will have exclusive jurisdiction to determine any proceeding in relation to this Request for Proposal (RFP).



4. CRITERIA FOR EVALUATION

4.1 TECHNICAL EVALUATION

The Technical evaluation will be based on the QCBS system. Bidders who score a minimum of 70% in the technical evaluation will only be considered for the financial evaluation.

SI.No	Evaluation Criterion	Criteria for marks	Supporting documents	Max marks
1	Prior experience in executing Similar IT Based Projects in India.	4 marks per project, subject to max of 2 projects, i.e. max 8 marks (as a consortium)	Copy of Work order /completion certificate from client/ Agreement	8
2	Prior experience in web-based solution design / system design for online applications in last 5 financial years.	3 marks for each web- based application, subject to max of 4, i.e. max 10 marks (as a consortium)	Copy of Work order /completion certificate from client/ Agreement	10
3	Experience in hosting and supporting Cloud based / remote hosting transactional application for clients geographically located elsewhere	1 mark for each web- based application developed, subject to max of 4 applications, i.e. max 4 marks (as a consortium)	Copy of Work order /completion certificate from client/ Agreement	4
4	Experience in setting up and operation of Command and Control/ Communication Center (Covering all these aspects: Interiors, MEP, HVAC, Audio visual	5 marks for each project with the minimum value of each project 2 Cr and above.	Copy of Work order /completion certificate from client/ Agreement	15

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Managing Director Meghalaya Industrial Development Corporation Ltd Shillong

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3	Experience in hosting and supporting Cloud based / remote hosting transactional application for clients geographically located elsewhere	1 mark for each web- based application developed, subject to max of 4 applications, i.e. max 4 marks (as a consortium)	Copy of Work order /completion certificate from client/ Agreement	4
4	Experience in setting up and operation of Command and Control/ Communication Center (Covering all these aspects: Interiors, MEP, HVAC, Audio visual	5 marks for each project with the minimum value of each project 2 Cr and above.	Copy of Work order /completion certificate from client/ Agreement	15

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Managing Director Meghalaya Industrial Development Corporation Ltd. Shillong

	System Integration, Software Integration & Application development,) in past 5 years	i.e max 15 marks		
5	Average Annual Sales Turnover generated from services related to similar assignments in the last 3 Financial Years of the consortium (20-21, 21-22, 22-23)	3 marks to the bidder having the maximum Average Annual Sales Turnover. Marks will be allotted on proportionate basis for the remaining bidders (as a consortium).	Extracts from the audited Balance sheet and Profit & Loss; OR Certificate from the CA	3
	Sub total			40
opc	used solution	1		
-	 Understanding of the problem statement, Approach and methodology: 7 marks Solution architecture: 5 		Bidder's detailed description on each of the items mentioned in this row	20

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		K2	100
	Sub total		60
	/ solution		
	existing or customized application		
	demonstration of the proposed,		
	the tender, Presentation & Live		
	accommodating the BoQ given in		
	proposed center by		
3	Concept 3D Renders of the		25
	Training plan: 2 marks		
	(iv) Capacity Building /		
	marks		
	(iii) Risk mitigation plan: 3	this row	
	plan: 5 marks	the items mentioned in	
	(ii) Resource deployment	description on each of	
2	(I) Work Plan: 5 marks	Bidder's detailed	15

* Similar projects – designing, setting up/installing, O&M of digital Data Centre/digital Command and Control/Communications Centre.

Bidders, whose bids are responsive, based on minimum qualification criteria / documents as in Pre-Qualification Criteria and score at least 70% in the (given) defined scoring mechanism, would be considered technically qualified. Price Bids of such technically qualified Bidders alone shall further be opened.

4.2 PRICE BID EVALUATION

- a. The Price Bids of technically qualified Bidders only will be opened on the prescribed date in the presence of Bidder's representatives who wish to attend.
- b. If a Bidder quotes NIL charges/consideration, the bid shall be treated as unresponsive and will not be

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considered [for QCBS evaluation]

c. In deciding the final selection of the Bidder, the technical quality of the proposal will be given a weightage of 80% on the basis of criteria for evaluation. The price bids of only those Consultants who qualify technically will be opened. The proposal with the lowest cost will be given a financial score of 100 and the other proposal given financial scores that are inversely proportional to their prices. The financial proposal shall be allocated a weightage of 20%.

The lowest financial offer will be awarded 100 points. The Price scores of other Bidders will be calculated as:

 $Fn = (Fm/Fb) \times 100$

Where

Fn = Normalized financial score of the bidder under consideration

Fb = Price quoted by the bidder under consideration

Fm = Lowest price quoted

Similarly, the highest technical scored by the bidder will be awarded 100 points. The technical scores of other Bidders will be calculated as:

Tn = (Ts /Th) X 100

Where

Tn = Normalized Technical score of the bidder under consideration

Ts = stands for the technical score of bidder under consideration

Th= stands for Highest Technical Score

- d. Only fixed price financial bids indicating a total price for all the deliverables and services specified in this bid document will be considered.
- e. The bid price will include all taxes and levies and shall be in Indian Rupees and mentioned separately.

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- f. Any conditional bid would be rejected
- g. Errors & Rectification: Arithmetical errors will be rectified on the following basis: "If there is a discrepancy between the unit price and the total price that is obtained by multiplying the unit price and quantity, the unit price shall prevail and the total price shall be corrected. If there is a discrepancy between words and figures, the amount in words will prevail".

4.3 COMBINED AND FINAL EVALUATION

- a. The technical and financial scores secured by each Bidder will be added using weightage of 80% and 20% respectively to compute a Composite Bid Score. [The weightage of technical and financial scores should be customized by the Purchaser]
- b. The Bidder securing the highest Composite Bid Score will be adjudicated as the most responsive Bidder for the award of the Project. The overall score will be calculated as follows: -

Bn = (0.80) Tn + (0.20) Fn

[In case of 80% weightage to the technical score] Where

Bn = overall score of Bidder

Tn = Normalized Technical score of the Bidder (out of a maximum of 100 marks)

Fn = Normalized financial score of the Bidder

c. In the event the bid composite bid scores are 'tied', the Bidder securing the highest technical score will be adjudicated as the Best Value Bidder for the award of the Project.

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5. AWARD OF CONTRACT

5.1 AWARD CRITERIA

The Purchaser will award the Contract to the successful Bidder whose proposal has been determined to be substantially responsive and has been determined as the most responsive bids as per the process outlined above.

5.2 RIGHT TO ACCEPT ANY PROPOSAL AND TO REJECT ANY OR ALL PROPOSAL(S)

The Purchaser reserves the right to accept or reject any proposal, and to annul the tendering process Public procurement process and reject all proposals at any time prior to award of contract, without thereby incurring any liability to the affected Bidder or Bidders or any obligation to inform the affected Bidder or Bidders of the grounds for Purchaser action.

5.3 NOTIFICATION OF AWARD

Prior to the expiration of the validity period, Purchaser will notify the successful Bidder in writing or by fax or email, that its proposal has been accepted (Letter of Intent). In case the tendering process / public procurement process has not been completed within the stipulated period, the Purchaser, may request the Bidders to extend the validity period of their Proposal. The decision to extend the validity period of a Bidder's Proposal shall be the Bidder's sole prerogative.

5.4 PERFORMANCE GUARANTEE

On receipt of a letter of intent from the Purchaser, the successful Bidder will furnish a bank guarantee, by way of performance security, equivalent to 5 per cent of the total contract value, on or before the signing of the subsequent contract, typically within 7 days from notification of award, unless specified to the contrary (Performance Guarantee). In case the successful Bidder fails to submit Performance Guarantee within the time stipulated, the Purchaser may at its sole discretion cancel the letter of intent, in addition to any other right available to it under this RFP.

Meghalaya Industrial Development Corporation Ltd. Shillong
The Performance Guarantee furnished by the successful Bidder shall be in the manner prescribed in this RFP. The successful Bidder shall ensure, the Performance Guarantee will be valid till 60 days of the project handover date.

The Purchaser may invoke the Performance Guarantee in the event of a material breach by the successful Bidder leading to termination for material breach.

5.5 SIGNING OF CONTRACT

Subsequent to receipt of valid Performance Guarantee from the successful Bidder, the parties shall enter into a contract, incorporating all clauses, pre-bid clarifications and the Proposal of the Bidder, between the Purchaser and the successful Bidder.

5.6 FAILURE TO AGREE WITH THE TERMS AND CONDITIONS OF THE RFP

Failure of the successful Bidder to agree with the Terms & Conditions of the RFP shall constitute sufficient grounds for the annulment of the award, in which event Purchaser may award the contract to the next best value Bidder or call for new proposals from the interested Bidders.

In such a case, the Purchaser shall invoke the PBG of the most responsive Bidder.



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6. SCOPE OF WORK

Phase wise envisaged activities of ICCC

The overall implementation of ICCC is subdivided into three phases:

- Pre-implementation Phase
- Implementation Phase
- Post-implementation Phase

6.1 PRE -IMPLEMENTATION PHASE:

The agency shall carryout a baseline 'as-is' analysis to understand the present process of sanctioning / handling of data/ information, communication and monitoring being followed by the concerned units of Forest Department, Government of Meghalaya which shall be used for designing a framework for the proposed platform/ Command and Control Center.

- Baseline 'as-is' analysis of the present handling of information and processes of various units of Forest Management Services
- Conducting site survey, obtaining necessary permissions, developing system requirements, standard operating procedures etc.
- Providing physical layout of the ICCC (with 3D simulation) This layout must contain the following:
 - o Control and Command Setup
 - c Data Center Setup
 - Other facilities which will be required for especially abled people as per guidelines defined by Govt. of India
- Assessment of IT Infrastructure and Non-IT Infrastructure requirements, assessment of business processes, assessment of software requirements, assessment of integration requirement, assessment of connectivity requirement all locations.
- Formulation of solution architecture, detailed design of ICCC solutions, development of test cases (Unit, System Integration and User Acceptance), SoP documentation

Managing Director Meghalaya Industrial Development Corporation Ltd. Shillong

6.2 IMPLEMENTATION PHASE- ICCC DESIGNING, DEVELOPMENT AND INSTALLATION:

- Physical Setup of ICCC as per the layout approved by the Authority. This includes activities like false flooring, false ceiling, partitions, network cabling, electric fitting, establishment of office spaces, ICCC facility, data center facility, and other facilities as mentioned above along with required furnishing of the complete ICCC facility.
- Helpdesk setup, procurement of equipment, edge devices, COTS software (if any), licenses
- IT and Non-IT Infrastructure installation, development, testing and production environment setup
- Safety and security of IT and Non-IT Infrastructure is responsibility of the agency
- Software Application customization (if any), development of bespoke solution (if any), data migration, integration with third party services/application (if any)
- Preparation of User Manuals, training curriculum and training materials
- SoP implementation, Integration with GIS Platform, Integration of solutions with Command and Control Centre
- Facilitating user acceptance testing and conducting the pre-launch security audit of applications
- User training and roll-out of solution
- Integration of the various services & solution with ICCC platform
- Develop provisions for a scalable system which can integrate with more devices of the same kind (as those deployed today) and can integrate with future applications and sensors through open standards and data exchange mechanisms

6.3 POST IMPLEMENTATION PHASE (OPERATION AND MAINTENANCE):

• Undertake operation and maintenance for 2 (two) years from the date of starting operations of the ICCC. This will include rectification of errors, addition, or up-gradation of the portal/contents whenever required.

- Deploying manpower for solution maintenance and monitoring support which includes change request management, bug tracking and resolution, production support, performing version and patch updates
- Annual technical support for all hardware and software components for the O & M period.
- Preventive, repair maintenance and replacement of hardware and software components as applicable under the warranty and AMC services during the contract period
- Provide a centralized Helpdesk and central control centre to receive support calls till the end of contractual period
- Recurring refresher trainings for the users and Change Management activities
- Conducting disaster recovery site testing through regular mock drills
- Provide facility, information and required access to the Authority or its authorized agency for doing various kinds of Audits as and when required.
- Preventive, repair maintenance and replacement of non-ICT components as applicable under the warranty and AMC services during the contract period
- Overall maintenance of the ICCC facility and continuity of operations as per SLAs.

6.4 EXCLUSIONS:

- Built-up space, without furnishment for the control and communication center and data centre, will be provided by the Authority
- Provisioning of network bandwidth and connectivity at various locations to connect with ICCC
- Provisioning of power and water connection at ICCC location; however, the maintenance and continuity of
 operations of ICCC & Data Centre and maintenance of SLA's thereon shall be the responsibility of the agency.

Key considerations for setting up/maintenance of ICCC:

- The agency should execute the project in compliance with the guidelines of the regulatory institutions like
 Indian Computer Emergency Response Team (CERT-In), Guidelines for Indian Government Websites (GIGW-web.guidelines.gov.in), RBI, & Ministry of IT, and any other relevant guidelines etc
- The Authority will not provide / procure any software / licenses (except for sharing the existing GIS licences
 with the vendor for integration and data mapping). It will be the responsibility of the agency to obtain /
 procure the same, if required. Only licensed software should be used. The Authority will not pay any
 additional amount for such software / licenses, other than the prices mentioned in the Commercial Bid.
- Analytical capability to update the information on real time basis based on inputs as and when required.
- Authority intends to host the portal on cloud, using the latest "cloud computing" technologies. Cloud services should be provided though data centre hosted in India as per Gol / regulatory guidelines.
- Servers should be hosted in climate-controlled Data Centre with premium UPS power backup, stand-by power generator and fire suppression system.
- Surveillance cameras and bio-metric/key card-controlled access to Data centre should be provided.
- Routine weekly backup for website files and database.
- 24/7 uptime monitoring with 99.5% uptime and availability of Service Level Agreement (SLA) on a monthly basis. To provide uptime / downtime report on monthly basis.
- Anti-virus software protection. Firewall (WAF & Portal level) & intrusion prevention systems to prevent unauthorized access.
- Control Panel: To support all server admin activities (monitoring, managing, changing of system parameters etc.) of the hosted server from a central admin console.
- The web portal servers should be having necessary protection from hacking, different kinds of attacks/vulnerabilities. Suitable IT security measures/solutions like firewalls, Intrusion Detection System (IDS), Intrusion Prevention System (IPS) should be available for protection of servers.

6.5 PLATFORM SECURITY

- i. Agency will ensure that all the modules being developed for the portal are error free and are hack proof.
- ii. Agency to provide compliance for all AUDIT observations related website content and modules (excluding modules which are being maintained in-house).

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- iii. Agency should implement the best practice for the web portal / webservers as per CERT-In/ RBI/ Govt Guidelines.
- iv. Authority reserves the right to depute an independent auditor / IT Security firm to evaluate the security & physical controls of the ICCC.

6.6 TRAINING OF RESOURCE PERSONNEL

The agency will provide the required training to the concerned officials of concerned unit(s) of the Forest Department for operating, managing and other related functions of the ICCC.



Specifications and detailed scope:

SI. no	Brief Description
1	Design of Integrated Command, Control and Data Centre (ICCDC) for various Forest Management Services
2	Supply, Installation, Testing and Commissioning of all Civil, Interiors, Furniture, Soft furnishing, Electrical, Networking, HVAC, Safety and Security Systems as per the proposed design
3	Supply, Installation, Testing and Commissioning of Active LED Video Wall Display
4	Supply, Installation, Testing and Commissioning of All-in-one Codec for video wall control, KVM matrix, transmission, visualization and central control Solution with KVM Input Codecs, Output Codecs to LED Video Wall Display, and Operator Console Monitor Output with controlling Units
5	Supply, Installation, Testing and Commissioning of GIS And Dashboard Monitoring Workstations and News Live Streaming
6	Supply, Installation, Testing and Commissioning of 24" Computer Monitor Screen - FHD
7	Supply, Installation, Testing and Commissioning of High-End Rack Servers
8	Supply, Installation, Testing and Commissioning of Virtual Conference System
9	Supply, Installation, Testing and Commissioning of Interactive Multi-touch Table with Object recognition and Forrest GIS Integration
10	Operation of Integrated Command, Control and Data Centre - 1st Year

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A1. Interiors Specifications/Scope

Items	Description/Scope
Ceiling	Providing and making of false ceiling and Coves using 12mm thick India gyp board and India Gyp Gi channels as per manufacturers standards (plain)including light cutouts, diffuser cut-out & A/C cut-outs etc.
Electrical & Automation cabling	Providing and laying of electrical wiring using finolex or equivalent make wiring including ISO/ISI make PVC conduits, GI or Powder coated shaddles, ROMA make switches / Equivalent, Roma Make sockets, ISO/ISI Make MCBs, Bentec of equivalent make DB, & DB dressing/power distribution completely including point wiring, power point etc inside the proposed area only.
Glass	Providing and fixing of 12mm thick edge polished toughened Glass including notches, SS handles and floor spring;
Partition	Providing and making of wooden partition using com ply cladded with 12mm thk India gyp with top curve including wall partitions with same detailing having inner frames in MS/Wood
Wooden Floor	Providing and laying of laminated wooden flooring of Abrasion, impact, flame, household chemical resistant, nonfading, environment friendly HDF as per the design and discussions on top of the existing flooring installed make E EGGER/ECO, Àrmstrong or equivalent make

Skirting	Providing and fixing of skirting for the wooden flooring area all-round the walls including profiles for the doors & joineries between the carpets etc. completely
False ceiling with acoustics control layer	Providing and making of false ceiling and Coves using 12mm thick India gyp board and India Gyp Gi channels as per manufacturers standards (plain)including light cutouts, diffuser cut-out & A/C cut-outs etc Preferred Brands - Birla, Gyproc (Saint Gobain), Gypsum India, Mmt Acoustix, Birla, Armstrong, / Equivalent
Carpet Floor	Providing and laying of carpet flooring with 8 - 12 mm thickness & 1000 density as per approved make and approved specifications and installed as per manufacturers standards Make: - LaGrace, Armstrong or equivalent make,(Broadloom cut pile Carpet) including laying charges & wastage
Paint Finish	Providing and applying of Royal emulsion paint of Asian make on 2 coats of putty and one coat of primer for walls and ceiling as per manufacturers specification
Seating	Providing and supplying Sofas, Puffers (Leatherette/PU - as per the design) including inner framework, foams of 40 density & wall & ceiling cladding etc except chairs.
Chair	Chair as per the design
Workstation	Custom workstation as per the design - MS Frame with powder coating & Plywood / HD Water resistant board with Laminate / Equivalent finish
Bar Stool	Bar stool as per the design
Branding	Wall Branding, Glass Branding - Using 3M Vinyl printed on 8 colour graphic machine and matt lamination.

Air conditioning	Daikin, Carrier, Bluestar, Mitsubishi, Hitachi, Voltas, LG, Panasonic and equivalent brands
Lighting	Providing and supplying of Dimmable LED lights, Powder coated, white body, frosty glass fixtures. Preferred Make - Havells, Bajaj, Wipro, Philips, Crompton Greaves and equivalent brands
UPS	Socomec, Emerson, Schneider, Delta, ABBF, Luminous and equivalent brands
Security and Alarm Systems	Ravel, Bosch, Honeywell, Godrej, 3M, Eureka Forbes and equivalent brands

A2. LED Specifications/Scope

ltems	Specifications
Screen Size	Minimum Width - 6720mm and Minimum Height - 2160mm
Display Technology	Indoor SMD LED
Pixel Pitch	1.5mm or lesser
Pixel Configuration	3-in-1 (1R1G1B)
Max Calibrated Brightness	800 Nits (cd/mtr sq) or better
Aspect Ratio of Cabinets	16:9

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Viewing Angle (H x V)	160 x 160 or more
Scan Rate	1/54
Refresh Rate (Hz)	≥3840
Drive Method	Constant Current Drive
Colour bit	16bit
Brightness Correction and Colour Correction	Available
Display Colours	68 Billions
Cabinet Design and material	Die Cast Aluminium
Surface Treatment	Surface should be hydrophobic IPX7 waterproof grade, Surface Scratch Hardness Grade HRC8; should be resistant to bumping, scraping and lamp board scraping, air conditioning, cold air, water vapor and splash during installation
Life time	100,000 Hrs or higher
Operation Hours	24Hrs
Contrast Ratio	5000:1
Operation Temperature	-10 to 40 C (non-condensing)

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Operation Humidity	10 % to 80 %
Service	100% Front service access only
Additional Components & Features	LED Controller, HDR-10 compatible & low brightness image enhancement (The image contrast and colour depth should not vary when the brightness level is reduced)

STANDARD

Mandatory Certifications	BIS including EMC/EMI compliance
Warranty	2 years from the date of commissioning at site

43. Command Control Solution Scope

SI No	Specifications
1.	Based on 1 gigabit standard network and distributed architecture, without central server, unlimited scalability,
2	Pixels Bandwidth: 225MHz, all-digital; Interface bandwidth: 3.125Gbps, all-digital; Resolution: 1920X1200P@60, 1920X1080P@60 and downward compatibility
3	Quantity of 2K KVM Encoding Codec - 20nos ; 4K KVM Encoding Codec - 6nos; Operator Console Codec - 6nos; 4K LED Wall Decoding Codec - 2nos; 2K Video Decoding Codec - 2nos
4	Support LED/LCD/DLP video wall process, no need extra multi-screen processor

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Multiple output node can be combined to display a image across the video wall, free resize, re- position, overlap images in any position of video wall
Built in both video input and output interface port, configurable as an encoder or decoder; Optional interface port, including HDMI, DVI-D, DVI-I,SDI etc.
Each node has 1 RS232 port(Bi-directional), 1 RS485 port, 3 IR emitter port, 3 IO port
Full cross-point audio transmitting and embedding/de-embedding, node can de-embed audio from HDMI signal or embed audio into other video signal
Video signal can be pulled and pushed to video wall seamless by keyboard hotkey
Power Redundant, support PoE and power injector supply
Get access and decode RTSP streaming directly, such as IP Camera
Intuitive and visual user interface, video wall can be managed on multiple controlling Pad simultaneous
Support to display ultrahigh resolution image pixel for pixel as video wall background by dot-to-dot displaying (making user easier to show its enterprise/organization culture)
Considering system compatibility, hardware (video codec, KVM codec, control processor node) and software should be same brand"
Mouse can be cross from one monitor to another to control related source intuitively, unlimited monitor quantity. Mouse latency less than 10 ms.

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16	PUSH/PULL, fastly access computer/source and share/cast them to other monitor or videowall by hotkey, seamless switching when PUSH/PULL video
17	Support to pull video from multi-head graphics card simultaneously
18	Permission Configuration: administrator has full permission to control all the computer/ sources and can create user. Each user is configured with a types of access permissions to each computer. User permission can be duplicated for creating user group
19	Power Redundant, support PoE and power injector supply
20	Get access and decode RTSP streaming directly, such as IP Camera
21	Intuitive and visual user interface, video wall can be managed on multiple controlling Pad simultaneously
22	Support to display ultrahigh resolution image pixel for pixel as video wall background by dot-to-dot displaying (making user easier to show its enterprise/organization culture)
23	User Log, All the operation by keyboard & mouse will be automatically recorded and stored in your dedicated server, including login, logout, get & push operations etc. [Optional]
24	Secure Data Communication: flash disk, web camera and USB headset at workspace can be read by remote computer over fiber, authorized operator only [Optional]
25	Considering system compatibility, hardware (video codec, KVM codec, control processor node) and software should be same brand
26	Control Processor for Control third party device via RS232/485, IO, IR, Relay only

27	RAM ≥ 4GB DDR2; CPU: 32bits,1Ghz;
28	RS232/485 port ≥ 10 : IR port ≥ 8; I/O input port ≥ 8; RJ45 port ≥ 2
29	Built-in HDMI port for monitor when commissioning the system
30	Two-way control link, Pro AV Endpoints and environment can be controlled and the real-time feedback can be read and displayed on user interface, such as projector's bulb duration, power ON/OFF, temperature, humidity, PM2.5 etc.
31	Optional hard disk for recording user log
32	Intuitive and visual user interface, code sending and feedback can be controlled on multiple controlling Pad simultaneously for better collaboration
33	System redundant, multiple central controller can be combined together as controlling cloud, once failure, another one will take over simultaneously
34	Control software can run on Windows OS, IOS, Android or IE browser
35	Cloud storage feature allows programmer to save code into cloud, such as IR files and matrix files, up to 10 latest compiled code can be saved and recalled from the cloud anytime, in case of system recovery is required;
36	Permission assignment, multiple user can be configured with different permission.
37	Control status and feedback can be preset and recalled by one touch"
38	Features of All-In-One Command & Control Center

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39	Unlimited PiP & PoP available to create, multiple layout preset for fast recall, high performance of image sync without video wall processor	
40	User-friendly and intuitive interface, drag/drop control; Free resize, re-position and overlap pic by mouse or touch	
41	Real Time content preview, whatever local or remote sources, ensure the correct content can be always switch to the video wall intuitively	
42	Multiple scenarios can be preset and recalled automatically or manually, when environment changes or task is scheduled	
43	Support room device and environment control via RS232/485, IO, IR and Relay, such as display, projector, DVD, switcher, lighting system and alarm system etc.	
44	H.264/265 Codec Node can work well in one system	
45	Support access RTSP streaming, such as IP Camera	
46	Computers/sources can be separated from workspace and stored in the server room, where they are safe, air conditioned, so that heat and noise emissions in the office can be eliminated	
47	Operator can control multiple computers/sources remotely over any workspace	
48	Each computer/source can be distributed simultaneously up to 120 monitors	
49	Graphic OSD, Operator can get access to any computers by OSD without any KVM Server.	
50	Operators personal configuration will be acquired whichever kvm console he logs in	

51	Switch and control between computers intuitively just by moving mouse from one monitor to another
52	Access up to eight computers simultaneously on one monitor with multi-view
53	Any picture can be resized, re-positioned and overlapped on one monitor or cross two monitors
54	Six pre-set layouts can be recalled intuitively, including Full View, Quad-view, Six View, Eight View etc.
55	Workspace operator can get access to any computer/source Fastly,
56	Operator can share/cast their computer/source to others or video wall by hotkey. Once break news happened, it can be reported and casted to another relevant operator and video wall immediately

57	Administrator can configure system settings and set personalised access permissions
58	User are created and configured with a types of access permissions by Administrator on OSD, user permission can be duplicated for creating user group
59	Operator's personal configuration will follow the workspace wherever he logs in
60	USB disk, USB camera and USB headset at workspace can be read by remote computer over fiber, authorized operator only
61	Compatible with USB 3.0/2.0/1.1 , data transfer rate up to 640 Mbps
62	Easy to troubleshoot and maintain, the faulty codec node won't affect the whole system

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63	PoE feature, plug & play, swap faulty node conveniently
64	Adding codec node for new source and display only in future system expansion
65	The computers/sources can be shared among multiple locations
66	Compatible with Windows, Linux, Mac OS and Thin Client
67	The system should support free mouse cursor slide among computers with different OS systems, including Windows, Linux and Mac. Furthermore, multi-head computers also should be compatible.
63	Multi-levels access management, The administrator should be capable to dispatch different accesses based on user roles, for example one user has full access to control portions of computers or only has access to view content but without keyboard/mouse role, Meanwhile the user can apply for access authorization by sending request to the Administrator who is able to monitor all operations of common users if necessary
69	All the computers are placed in a remoted and dedicated room, only the authorized staff have access to them. Reduce the noise and head dissipation and save the space in the working area.
70	User Collaboration - the user should be able to push the resource to another workstation for instant collaboration instead of move or switch the seat physically to eliminate face to face communication
71	Video signals preview at the same time. Multiple users managing of a display wall or more display walls at the same time is also possible.
72	All the Layouts can be scheduled as per user convenience. Software also supports auto launch of Layouts according to specified time event by user and user log file management is also available.

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Offline layout creation is also possible with this s/w. It supports 48 signal sources displaying in one display unit simultaneously with freely scalable windows.

The GUI of the wall management s/w has the playback option to show the live view of all the sources on the browser. It can also manage video wall region into multiple regions as per user requirements for Grid management. It also has the Pre window option for user to be able to see multiple signal source in one window with specified time interval and with user defined sequence. Administrator can monitor & control the workstation of operators. User can control complete system through IPAD and Android system over Wi-Fi.

74 Face ID & Touch ID - Login for Operators and auto locks system when user walks out system

75 Built-in Video collaboration among multiple location - The computers/sources can be shared among multiple locations (command and control rooms / multiple offices etc.) Therefore, the chief can watch any dynamic information for fast decision-making. An operator can control multiple computers remotely on multiple workspaces, by mouse/keyboard or touches

Commanding officer Kiosks with 43" capacitive display and should be able to see live preview of all connected sources simultaneously and push the source to any desired location of the LED Wall, control ambience, volume along with taking keyboard and mouse control of each source via the touch kiosk itself.

7748 Port 1G PoE+ Managed Network switch with 30 watt per port and 240 Gbps bandwidth fabric
across 48 ports

44. Workstations

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SI No	Specifications

1	Processor - Intel i7, 12th Generation
2	RAM - 16GB or More
3	Storage - 400GB or more
4	Storage Type - M.2 SSD
5	Integrated Graphics
6	Display Output - 2
7	No. of USB Ports - 6
8	Integrated LAN - 1GBPS
9	Integrated Wireless - Yes
10	Integrated Bluetooth - Yes
11	Wireless Keyboard and Mouse - Yes
12	Windows 10 Pro 64bit License
13	Antivirus - Internet Security License



A5. Computer Monitoring Screens

Sl. No	Description	Specifications
1	Screen Size	Minimum 23.8"
2	Panel Technology	IPS Panel
3	Pixel Pitch	0.2745mm
4	Pixel Configuration	3-in-1 (1R1G1B)
5	Brightness (Typical)	250 cd/m²
6	Aspect Ratio	16:9
7	Contrast Ratio (Typical)	1000:1
8	Viewing Angle	178/178 (CR > 10)
9	Optimum Resolution	1920 × 1080 @ 60Hz
10	Display Colors	16.7 Million
11	Signal Input	DVI, HDMI 1.4, DisplayPort 1.2
12	Built-in Speakers	2W x 2
13	Regulatory Approvals	СЕ / FCC / KC / KCC / BSMI / TCO 7

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14	Backlight	Flicker Free Backlight
15	Low Blue Mode	Available
16	Warranty	2 years from the date of commissioning at site

A6. Servers

SI No	Description	Specifications
1	Processor	Intel [®] Xeon [®] Silver 4310 2.1G, 12C/24T, 10.4GT/s, 18M Cache
2	Түре	2U Rack Mountable
3	RAM	16GB RDIMM, 3200MT/s, Dual Rank X 2nos
4	Max Memory Supported	8TB
5	Метогу Түре	DDR4
6	Storage	10TB
7	Max Supported Storage	198TB
8	Storage Type	Up to 24 (2.5-inch) SAS/SATA/NVMe HDDs/SSDs
9	Network	2 x 1 GbE

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A7. Video Conference

SI No	Description	Specifications
1	Speakers (2nos)	3.5" Full-range (x7) element column surface passive speaker, 70/100V transformer with 8 Ω bypass, 130° horizontal x 20° vertical coverage, includes pan/tilt wall mount
2	Amplifier	3,000-Watt Two Channel Amplifier with Precise Power Management delivering 2 x 1,500 Watts @ 4 Ohms, 2 x 800 Watts @8 Ohms
3	DSP and Audio mixer	Touch-screen digital audio mixer with 12mic/line inputs, 2 stereo inputs, 4 effects, 4 aux sends and USB connectivity for soft conferencing codec
4	PoE camera with support for Soft codec Conferencing System and Hardware based conferencing system (3nos)	18x Zoom, Full HD Resolution, 82° horizontal field of view. Should Include following ports and outputs Lan, USB 3.0 and HDMI
5	Microphone	8 Wireless handheld microphone, 3 wireless livelier microphone and 1 Podium microphone
6	Integrated Video Conferencing Codec for Soft codec video conferencing	Should have HDMI Input and dual output: i7 7th gen processor, 16GB Ram and 512gb Storage, 2 DisplayPort output with Embedded software along with HDMI Full HD at 60P input capture which supports for Wired and Wireless presentation capability



A8. Interactive Table

S. N	Specifications		
1	65" Display with 4K Resolution, Brightness 400nits and more		
2	Interactive Kiosk should be Capacitive technology with Physical Object recognition technology, 100 touch points, Capable of sensing 3D Pressure and should support TUIO protocol		
3	Interactive processor with supporting LED Wall of custom resolution 8660 px by 1080 px or more		
4	i9 processor, 64GB Ram, 1TB SSD and built-in Windows Enterprise LTSB		
5	Embedded interactive player application		
6	Features of Interactive Player with Cloud CMS		
7	Should support any 3rd party integration with REST API's - for live data monitoring, Forest GIS integration		
8	Should recognize physical objects and bring content related to the object, example - categories of plantation from GIS System		
9	Should support easy responsive multi touch contents with unlimited touchpoints supporting action and triggers, pinch zoom and pan, rotate any media files		
10	Should be possible to bind media files example if media-A is rotated media-B also should rotate,		
11	Should be possible to animate media files, move, rotate, blur, shrink, hide. should be possible to choreograph multiple animation effects to work in parallel.		

12	Should support media files like video, pdf's, images, web browser, excel sheets, twitter feeds to gather any large and trending fire disaster incidences (Public reporting)
13	Should be possible to annotate on the screen and save the files
14	Should be possible to share selected media files and annotated contents via one click email, USB storage, network storage etc.,
15	Should be possible to auto generate QR codes for the required fields
15	Should support live video feeds
1-	Should support RFID/ NFC devices or sensors plug and play integration
18	Should support object recognition example, when an object is put on the touch frame via TUIO protocol that particular object should populate contents related to that objects further supporting all the functions mentioned above
19	Should have timer triggers for countdown and inactivity timers to add conditional logic such as "If no interaction after x minutes, play screen saver video." Or use a scheduler to change content and more at specified dates/times.
20	Should support actions based on the gestures example writing "W" as gesture should trigger and populate relevant contents
21	Easily add, modify and delete media files on the cloud with user permissions and device management features and changes to appear on the interactive player instantly
22	Development of multitouch content for touch video wall with UI and UX, Creative content writing, Content Design, Motion graphics, photography, animations, actions and triggers with modules

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development for object recognition, coding and programming to achieve desired functionality on the interactive player. UI and UX development

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None

Brief Description
Development, Testing, Deployment, and Maintenance of Forest Geo-Informatics
Development. Testing, Deployment, and Maintenance of Wildlife Management System
Development, Testing, Deployment, and Maintenance of Forest Dwellers Survey System
Development, Testing, Deployment, and Maintenance of Forest Offense Management System
Development, Testing, Deployment, and Maintenance of Integrated Timber Management System
Supply of CCTV's
Supply of Camera Traps (standard specification)
Supply of Handheld Devices for data entry (Tabs; standard specification)
Supply of mobile devices for patrol tracking (standard specification)
Supply of computer systems for data entry (standard specification)
Purchase of Drone (standard specification)
Annual Maintenance Contract for Hardware & Software - 1st Year

PART B: SOFTWARE APPLICATION DEVELOPMENT, HARDWARE AND DATA DIGITIZATION

59

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B1. Forest Geo-Informatics Scope

- 1. Digitization of Forest Stock Maps for max 5 varieties across the complete forest cover
- Data collection and digitization for select forest stock / produce (max of 5) and integrating with geo specific map data

Method: To Build a web and mobile App to process and store Data. This will also be integrated to command control for necessary action. To deploy data entry staff at the department, where we have the access to the existing physical and excel file system

- 2. Digitization of forest boundaries
- Digitization of land records of RF and PF sanctuaries

Method: Using existing ArcGIS system, the Forest boundary data will be input into software application

• To help identify encroachments

Method: With current markings of the boundary, we can define the encroachment area using various tools

- 3. Creation of high-resolution map for an area of 350 Sq KM of the forest with resolution of at least 50 cm.
- Access to existing ArcGIS data and API to be provided to enable this.
- Access to existing GIS data and license

Method: With the help of ArcGIS, we create a high-resolution map and shall be integrated along with the software application which in-turn helps in mapping of key activities

- 4. Integration of attribute data with digital data for the complete forest cover
- Visualization of data on images / other markers
- Information linked to geographic / spatial data that describe features.
- 5. Generation of the required thematic maps
- A specialised map made to visualise stock data on geographic area.
- 6. Query based output in the form of derived maps
- Output interface for data visualization based on defined parameter queries
- Forest cover map to be provided by the department based on requirement



- 7. Real time updating of the data/ information
- 8. The digitisation would also be useful for delineation of wildlife corridors, eco-sensitive zones, wetlands and zones of influence.

DIGITIZATION OF FOREST BOUNDARIES

- Physical demarcation of forest boundaries as per the existing forest map and government records is one of the necessary activities for all forest departments.
- It's proposed to utilize Differential Global Position System (DGPS) and Electronic Total Station (ETS) technology-based approach for preparing a digital special database of forest lands under their jurisdiction to mitigate boundary violation related issues along with physical demarcation of forest pillars with more positional accuracy.
- High resolution map for Government forests, National Parks and sanctuary with resolution of at least 50 CM will be created. Access to existing ArcGIS data and API to be provided to enable this.
- Digitization of forest stock maps (for max 5 varieties) across the complete forest cover will be done. Data collection and digitization for select forest stock / produce (max of 5) and integrating it with geo specific map data will be done.
- Creation of high-resolution map of the forest covering critical catchment areas
- Tagging and Integrating the digital data with attributes for the complete forest cover will be done.
- Digitisation of forestry development works and plantations
- Digitisation of beats, ranges, check gates
- Digitisation of land records of RF and PF sanctuaries
- Generation of required thematic maps to visualise stock data on geographic area.
- Query based output in the form of derived maps
- Real time updating of the data / information

FIELD SURVEY

The field survey primarily will involve the following activities:

Fization of DGPS base station taking reference from Survey of India control point



- Collection of Ground Control Points (GCPs) to Geo-reference forest maps. We have to mostly collected trijunction and bi-junction points of individual mouzas as GCP to achieve higher level accuracy taking ground level help from forest officials
- Geo-referencing of scanned forest map sheets followed by digitization of forest patches and forest pillars (FP) using GIS platform
- Identification of FP locations on ground and taking reading of 20-minute static observations in postprocessing mode
- Temporary pillar marking using coloured wooden pillars and painting of Unique ID of each FP on it
- Taking geo-tag digital photographs of each location and forest pillars
- In-house post-processing of raw data from DGPS and superimposition of FP coordinates over geo-referenced forest maps and satellite imagery to prepare the deliverables both in soft and hardcopy
- Joint field level verification of the output data and pillar demarcation by designated forest officials for acceptance.

FUNCTIONALITY OF FOREST GEO-INFORMATICS

- Centralized repository of spatial database
- Digitization of Forest Stock Maps
- Digitization of forest boundaries
- High resolution map of the forest covering critical catchment areas
- Forest-types mapping
- Geo-Tagging of all forestry development activities including tagging of rare and endangered species
- Integration of attribute data with digital data
- Generation of the required thematic maps
- Query based output in the form of derived maps
- Real time updating of the data/ information
- Monitoring of plantation and afforestation activities
- Rain forest boundary digitization
- Inventory of forest resources
- Monitoring of Beat offices, check gates etc.





B2. Wildlife Management System

- 1. Monitoring of habitat status, population variance
- Data tracking through portal; existing data input from different defined levels. Mobile and web portal for data collection and work flow.
- 2. Alert generation for untraced key species
- Data tracking through mobile portal; data input from field, generates portal level alerts (for key species).
- 3. Monitoring of patrol camps
- Through integrated portal
- Scheduling and staff management
- Track patrol movement through QR codes (mobile application)
 50 mobile devices for field staff.
- 4. E-patrolling by mobile app to ensure that patrolling done properly by staff
- 5. Creation of temporal and spatial database of wildlife sightings
- Integration of tagged data from existing camera traps, portal for data entry to be provided. Representation
 on maps / other interface in ICCC. Data entry to be done by department personnel
- Additionalcameratrapstotheextentof50 numbers
- Date and time wise data integration
- 6. Delineation of Eco-Sensitive Zone for each Protected Area, based on the data provided by Wildlife Wing
- At representative map level for data visualisation
- 7. Mapping of elephant corridors and monitoring live streaming
- Drone based surveillance to prevent wildlife hunting crimes
- Real time monitoring of Eco-Sensitive zone and wetlands
- Camera traps and live streaming (through CCTVs)

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Managing Director Meghalaya Industrial Development Corporation Ltd Shillong Integration with SNPP, MODIS data to get daily fire alerts in ICCC

B3. Forest Dweller Management System

- 1. Survey the area of forest dwellers land holdings and prepare digital map of the land
- Method and Implementation:
- Through Satellite maps and drone-based land survey mark the land holdings in digital survey maps.
 - o Plan drone sorties to cover the required land area
 - Use existing GIS license to get base maps in place.
- Physical survey and verification.
 - Use of mobile application for data collection and clean up, scan documents, capture dweller image and other key details.
- Online publication of land holdings on Web GIS based application like Google Maps
- Use GIS map data for estimating land occupation and reserved areas
- 2. Estimate the area of the land
- Method and Implementation:
- Digitization of existing land records through data entry operators
- Scan existing documents and enter data in to DB through an online registration portal
- Decision support in ST and traditional forest dwellers claims
 - Build a MIS system with work flow for schemes and claims form acceptance, processing and approval.
 - c Web and mobile access for MIS system

B4. Forest Offence Management System

- 1. Monitoring of offences: locations, issuing authority, related forest areas, type of offence, Offenders and witness, Loss / damage of forest produce, material or wildlife, Stump details in case of illicit felling
- Mobile and web application for offence registration with images and details and assign complaints to respective personal as per predefined rules

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Implementation Strategy

- 1. **Complaint Listing Page**: Public can lodge a complaint through mobile or web application trough a complaint log page, which will be enabled by mobile OTP (for authentication). This complaint will be seen in listing page of Admin controller for necessary action. These complaints will be forwarded to the concerned authority and decision maker. It also will have alert system on the mobile app.
- 2. Offenders Listing Page: All the current forest offenders can be listed in this page, new offenders can be added from "add offenders page", which gives their offence, type of offence, their profile etc.
- 3. **Digital Mapping of Sensitive Zones:** All the forest sensitive zones will be mapped digitally so that these areas are tracked while patrolling using mobile app.
- Reporting: All monitoring reports like offence type wise registered cases, investigation status, compounding status, seized material; losses etc. are produced by the system through online system in a query manner. The data captured in such a way that can be integrated with spatial data later on.
- 5. Captures Data from Original Forms The application built in such a manner in which the data is captured through original forms (POR detail). All the compilation and calculation related works are done by the system itself.

Data Capturing: The system captures following raw data from its original forms (POR case) which is recorded during the registration of offence

- 1. Preliminary Offence Report contains data related to offence locations, POR issuing authority, related forest areas (compt, beat etc) and date of offence.
- 2. Violation of Act and Rules with section / sub section under the case is registered.
- 3. Offenders and witness.
- 4. Loss / damage of forest produce, material or wildlife.
- 5. Stump details in case of illicit felling.
- 6. Photographs related to offence.

All progressive data like investigation details, compounding or court challan details etc. are entered by the respective authorities online.

66



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B5. Integrated Timber Management Portal

- 1. Felling permission by DFO
 - a. Felling from Non-forest area
- 2. Lifting order by DFO
 - a. Windfallen / Unclaimed timer from FDCM
 - b. Public Auction Portal
 - c. Issue QR coded transit pass
- 3. Registration of Saw Mill / Furniture Units
- 4. Reporting
- 5. Issue in-lieu TP by RFO
 - a. Timber from Other Sources

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DELIVERABLES, TIMELINES AND PAYMENT MILESTONES

6.7 DELIVERABLES & TIMELINES

Sr	Project Activities/ Deliverables/ Milestones	Timeline (in Weeks) T = Start Date communicated by the Client/ Authority
1	Submission of solution design and requirement specification document	T1 = T + 9 weeks
2	On Completion of Civil, Electrical, Air- conditioning work of ICCC and Data Center	T2= T + 20 weeks
3	Development/ Customisation of software/ Installation of modules & User Acceptance Test	T3 = T + 20 weeks
4	Upon delivery & inspection of IT Hardware	T4 = 22 weeks
5	Implementation and Commissioning of ICCC & Go-live	T5 = T4 + 4 weeks
6	Operations and Maintenance	T6 = T5 + 2 years (i.e. 2 years from the date of Go-live)

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6.8 PAYMENT SCHEDULE

Will be detailed as the part of MOU.

7. SERVICE LEVEL AGREEMENTS (SLA)

7.1 PROJECT ACTIVITIES

5	Project Activities/ Milestones	Timeline (In Weeks) T = Start Date communicated by the Client/ AUthority	Penalty to be deducted from contractor's Bills in case of breach
1	Submission of solution design and requirement specification document	T1 = T + 8 weeks	(i) 0.5% of the milestone
2	On Completion of Civil, Electrical, Air-conditioning work of ICCC and Data Center	T2= T + 19 weeks	cost as per bid per week of the delay will be deducted from contractor's bill
3	Development/ Customisation of software/ Installation of modules & User Acceptance Test	T3 = T + 18 weeks	months for each of the milestone (due to noted contractors negligence) will be considered as breach
4	Upon delivery & inspection of IT Hardware	T4 = 20 weeks	of contract and appropriate penalty will be deducted from
5	Implementation and Commissioning of ICCC & Go- live	T5 = T4 + 4 weeks	contractor's bill

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7.2 AVAILABILITY

- 1. Reports containing uptime and availability of centrally hosted applications needs to be submitted by the Agency to the Authority on monthly basis.
- 2. Report of Application performance in terms of query and MIS report generation time needs to be submitted by the Agency to the Authority on monthly basis.
- 3. Reports of all issues lodged and resolved by the Agency needs to be submitted to the Authority on monthly basis
- 4. The Agency has to finalize and obtain and get approval of the format of the Reports from Authority before starting the O&M phase.
- 5. Once the Monthly Report are reviewed and accepted by the Authority for one quarter, the Agency may submit the invoices to the Department for the O&M phase. Authority may take the services of competent auditors to verify the reports and the Agency should allow the authorised auditors to access the hosted application/ Digital Platform for such purposes.
- 6. The applicable SLAs based on Availability of services shall be as follows:

S. No.	Item	Expected Performance	Penalty to be deducted from contractor's Bills in case of breach		
			(i)	For each 0.5% slab lower, a	
	Service level for IT			penalty of 1% of the Quarterly	
	infrastructure: Central			Recurring Charges for the	
1	Hosted Application	99.749%		Module shall be applicable for	
	availability, server	uptime		each component.	
	availability, storage		(ii)	For each component, for uptime	
	availability (including			between 99.249% to <99.749,	

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Operating system and	4	penalty of 1% of the Quarterly
database running on it)	A	Recurring Charges for the
	1	Module shall be applicable
	iii) F	For each component, for uptime
	t	oetween 98.749% to <99.249,
	F	penalty of 2% of the Quarterly
	F	Recurring Charges for the
	1	Module shall be applicable, and
	S	so on.
	iv) I	f the uptime goes below
	g	98.749%, an additional penalty
	c	of 1% of the Quarterly Recurring
	0	Charges for the Module will be
	c	charged on QGR for each slab
	f	or 1% downtime.

72 | Eco Development Society, Department of Forests & Environment, Government of Meghalaya

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FORMATS TO BE FILLED IN BY THE BIDDER

Format 1: Letter of Proposal

TO,

The Managing Director,

Meghalaya Industrial Development Corporation Ltd.,

KISMAT Upland Road, Laitumkhrah,

Shillong-793003, Meghalaya, India

Subject: Submission of the Technical bid for Selection of Agency for Design, Development, Installation Implementation. Operation and Maintenance of Integrated Command and Control Centre (ICCC) for various Forest Management Services, Eco Development Society, Department of Forest & Environment, Government of Meghalaya

Dear Sir/Madam,

We, the undersigned, are pleased to submit our proposal in response to the Request for Proposal dated March 13, 2024. This submission includes our Technical Bid and Price Bid, offering comprehensive Systems Implementation solutions to the Purchaser.

We hereby declare that all the information and statements made in this Technical bid are true and accept that any misinterpretation contained in it may lead to our disqualification.

We undertake, if our Proposal is accepted, to initiate the Implementation services related to the assignment not later than the date indicated in Fact Sheet.

We agree to abide by all the terms and conditions of the RFP document. We would hold the terms of our bid valid for 180 days from the date of opening of this bis and as stipulated in the RFP document.

We understand you are not bound to accept any Proposal you receive.

Yours sincerely,

73 | Eco Development Society, Department of Forests & Environment, Government of Meghalaya

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Authorized Signature [<i>In full and initials</i>]:	: 	
Name and Title of Signatory:		
Name of Firm:		
Address:		
Location:	Date:	-

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SI. No	Information Sought	Details to be furnished
A	Name & Address of the Bidding Firm / Primary Bidder	
В	Incorporation status of the firm, Name, Address, email, Phone nos. and Name & Mobile No of the Contact Person.	

Format 2: Particulars of the Bidder

SI. No	Pre-Qualification Criteria provided in the submitted proposal		Compliance	Reference & Page Number
1.	The agency (a) Should have paid the Tender document fee of Rs 10,000/- (Rupees Ten Thousand only) (b) Should have submitted an EMD of Rs. 30,00,000/- (Rupees Three lakhs only)	 (a) Rs. 10,000/- (Rupees Ten thousand only) in the form of a Demand Draft in favour of the "Managing Director, Meghalaya Industrial Development Corporation Ltd., KISMAT Upland Road, Laitumkhrah, Shillong-793003, Meghalaya, India". Payable at Shillong Please note that only bidders who have paid the Tender Document Fee shall be allowed to attend the Pre-Bid Conference. (b) Rs. 30,00,000/- (Rupees Thirty lakh only) in the form of a Demand Draft in favour of "The Managing Director, Meghalaya Industrial Development Corporation Ltd., 	Yes/No	

75 | Eco Development Society, Department of Forests & Environment, Government of Meghalaya

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		KISMAT Upland Road, Laitumkhrah, Shillong-793003, Meghalaya, India". Payable a t Shillong This will be returned to the bidders after the completion of the bidding process and declaration of the successful bidder.		
3.	Legal Entity a) Certificate of incorporation b) Registered with the Service Tax Authorities C) Consortium agreement	 a) Certificate of Incorporation, valid as on date of tender opening date, along-with copy of Articles of Association / Corporate charter b) Service Tax Registration Certificate c) Consortium agreement 	Yes/No	
4.	The responding firm shall not be under a declaration of ineligibility for corrupt or fraudulent practices.	A self-certified letter by the designated official of the responding firm	Yes/No	
5.	Annual Sales Turnover generated from services related to similar assignments for the last 3 financial years	Extracts from the audited Balance sheet and Profit & Loss account; OR Certificate from the CA	Yes/No	

76 | Eco Development Society, Department of Forests & Environment, Government of Meghalaya

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SI.No	Evaluation Criterion	Criteria for marks	Supporting documents	Ref. Page no. in Bid
1	Prior experience in executing Similar IT Based Projects in India	5 marks per project, subject to max of 2 projects, i.e. max 10 marks	Copy of Work order /completion certificate from client/ Agreement	
2	Prior experience in web based solution design / system design for online applications in last 5 financial years.	3 mark for each web-based application, subject to max of 4, i.e. max 8 marks	Copy of Work order /completion certificate from client/ Agreement	
3	Experience in hosting and supporting Cloud based / remote hosting transactional application for clients geographically located elsewhere	1 marks for each web-based application developed, subject to max of 5 applications, i.e. max 5 marks	URL / Copy of Work order /completion certificate from client/ Agreement	
4	Experience in setting up and operation of Command and Control/ Communication Center (Covering surveillance, monitoring, surveys operations/ functions) in past 5 years	5 marks for each project with the minimum value of each project 2 Cr and above. i.e max 15 marks	Copy of Work order /completion certificate from client/ Agreement	

Format-3: Checklist

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5	Average Annual Sales Turnover generated from services related to similar assignments in the 3 Financial Years of the consortium (18-19, 19-20, 20-21)	3 marks to the bidder having the maximum Average Annual Sales Turnover. Marks will be allotted on proportionate basis for the remaining bidders.	Extracts from the audited Balance sheet and Profit & Loss; OR Certificate from the CA
10	Understanding the Problem statement, Approach & Methodology	 (i) Understanding of the problem statement, Approach, and methodology: 7 marks (ii) Solution architecture: 5 marks (iii) Application design & development with customization: 3 marks Setting up and O&M of ICCC: 5 marks 	Bidder's detailed description of each of the items mentioned in this row
11	Project Management Plan	 (i) Work Plan: marks (ii) Resource deployment plan 5 marks (iii) Risk mitigatio plan: 3 marks Capacity Building / Training plan: 2 marks 	5 I: n

78 [Eco Development Society, Department of Forests & Environment, Government of Meghalaya

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	Presentation	Concept 3D Renders, Bidder's detailed
12		Interactive walkthrough of description of
		the proposed center in 3D by each of the
		accommodating the BoQ items mentioned
		given in the tender with the in this row
		given space, Presentation &
		Live demonstration of the
		proposed, existing or
		customized application /
		solution

Bill of Quantity:

The below rates should be inclusive of all taxes, duties, levies, etc. but exclusive of GST which shall be payable at the rate prevailing at the time of submission of Invoices.

SI.No	ltem	Description	Unit	Qty	Unit Price	Total	Tax Rate in %	Tax Amo unt	Total Amount (Incl Tax)
1	А	Design of Integrated Command, Control and Data Centre (ICCDC) for various Forest Management Services	Nos	1					
2	В	Supply, Installation, Testing and commissioning of all Civil, Interiors, Furniture, Soft furnishing, Electrical, Networking, HVAC, Safety and Security Systems as per the proposed design	Lot	1					
3	с	Development, Testing, Deployment, and Maintenance of	Nos	1					

79 | Eco Development Society, Department of Forests & Environment, Government of Meghalaya

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		Forest Geo-Informatics					
4	D	Development, Testing, Deployment, and Maintenance of Wildlife Management System	Nos	1			
5	E	Development, Testing, Deployment, and Maintenance of Forest Dweller Management System	Nos	1			
5	F	Development, Testing, Deployment, and Maintenance of Forest Offense Management System	Nos	1			
5	G	Development, Testing, Deployment, and Maintenance of Integrated Timber Management System	Nos	1			
7	!	Supply, Installation, Testing and commissioning of Active LED Video Wall Display	Lot	1			
8	J	Supply, Installation, Testing and Commissioning of All-in-one Codec for video wall control, KVM matrix, transmission, visualization and central control Solution with KVM Input Codecs, Output Codecs to LED Video Wall Display, and Operator Console Monitor Output with controlling Units	Lot	1			
9	к	Supply, Installation, Testing and commissioning of GIS And	Nos	46			

80 | Eco Development Society, Department of Forests & Environment, Government of Meghalaya

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		Dashboard Monitoring Workstations and News Live Streaming					
10	L	Supply, Installation, Testing and commissioning of 24" Computer Monitor Screen - FHD	Nos	38			
11	м	Supply. Installation, Testing and commissioning of High-End Rack Servers	Nos	4			
12	N	Supply, Installation, Testing and commissioning of Virtual Conference System	Lot	1			
13	0	Supply, Installation, Testing and commissioning of Interactive Multi-touch Table with Object recognition and Forrest GIS Integration	Nos	1			
14	Р	Supply of CCTVs	Nos	50			
15	Q	Supply of Camera Traps (standard specification)	Nos	50			
16	R	Supply of Handheld Devices for data entry (Tabs; standard specification)	Nos	20			
17	S	Supply of mobile devices for patrol tracking (standard specification)	Nos	50			

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18	т	Supply of computer systems for data entry (standard specification)	Nos	22				
21	υ	Purchase of Drone (standard specification)	Nos	1				
22	v	Annual Maintenance Contract for Hardware and Software - 1st Year	Nos	1				
23	w	Annual Maintenance Contract for Hardware and Software - 2nd Year	Nos	1			1	
24	x	Operation of Integrated Command, Control and Data Centre - 1st Year	Nos	1				
25	Y	Operation of Integrated Command, Control and Data Centre - 2nd Year	Nos	1				

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Detailed Technical Specifications

H. Supply, Installation, Testing and commissioning of Active LED Video Wall Display

ltem Nos	Description	Specifications
H1	Screen Size	Minimum Width - 6720mm and Minimum Height - 2160mm
HZ	Display Technology	Indoor SMD LED
нз	Pixel Pitch	1.5mm or lesser
H4	Pixel Configuration	3-in-1 (1R1G1B)
Н5	Max Calibrated Brightness	1000 Nits (cd/mtrsq) or better
Н6	Aspect Ratio of Cabinets	16:9
Н7	Viewing Angle(H x V)	160 x 160 or more
Н8	Scan Rate	1/54
н9	Refresh Rate (Hz)	≥3840
Н10	Drive Method	Constant Current Drive
Н11	Color bit	16bit
H12	Brightness Correction and Color	Available

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	Correction	
H13	Display Colors	68 billions
H14	Cabinet Design and material	Die Cast Aluminium
H15	Surface Treatment	Surface should be hydrophobic IPX7 waterproof grade, Surface Scratch Hardness Grade HRC8; should be resistant to bumping, scraping and lamp board scraping, air conditioning, cold air, water vapor and splash during installation
H16	Life time	100,000 Hrs or higher
H17	Operation Hours	24Hrs
H18	Contrast Ratio	5000:1
H19	Operation Temperature	-10 to 40 C (non-condensing)
H20	Operation Humidity	10 % to 80 %
H21	Service	100% Front service access only
H22	Additional Components & Features	LED Controller, HDR-10 compatible & low brightness image enhancement (The image contrast and color depth should not vary when the brightness level is reduced)
H23	STANDARD	
H24	Mandatory Certifications	BIS including EMC/EMI compliance

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H25	Warranty	2 years from the date of commissioning at site

1. Supply, Installation. Testing and commissioning of All-in-one Codec for video wall control, KVM matrix, transmission, visualization and central control Solution with KVM Input Codecs, Output Codecs to LED Video Wall Display, and Operator Console Monitor Output with controlling Units

SI No	Specifications
11	Based on 1 gigabit standard network and distributed architecture, without central server, unlimited scalability,
12	Pixels Bandwidth: 225MHz, all-digital; Interface bandwidth: 3.125Gbps, all-digital; Resolution: 1920X1200P@60, 1920X1080P@60 and downward compatibility
	Quantity of 2K KVM Encoding Codec - 20nos; 4K KVM Encoding Codec - 6nos; Operator Console Codec - 6nos; 4K LED Wall Decoding Codec - 2nos; 2K Video Decoding Codec - 2nos
13	Support LED/LCD/DLP video wall process, no need extra multi-screen processor
4	Multiple output node can be combined to display a image across the video wall, free resize, re-position, overlap images in any position of video wall
15	Built in both video input and output interface port, configurable as an encoder or decoder; Optional interface port, including HDMI, DVI-D, DVI-I,SDI etc.
16	Each node has 1 RS232 port(Bi-directional), 1 RS485 port, 3 IR emitter port, 3 IO port
17	Full cross-point audio transmitting and embedding/de-embedding, node can de-

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	embed audio from HDMI signal or embed audio into other video signal
18	Video signal can be pulled and pushed to video wall seamless by keyboard hotkey
19	Power Redundant, support PoE and power injector supply
110	Get access and decode RTSP streaming directly, such as IP Camera
111	Intuitive and visual user interface, video wall can be managed on multiple controlling Pad simultaneous
112	Support to display ultrahigh resolution image pixel for pixel as video wall background by dot-to-dot displaying (making user easier to show its enterprise/organization culture)
113	Considering system compatibility, hardware (video codec, KVM codec, control processor node) and software should be same brand"
114	Mouse can be cross from one monitor to another to control related source intuitively, unlimited monitor quantity. Mouse latency less than 10 ms.
115	PUSH/PULL, fastly access computer/source and share/cast them to other monitor or videowall by hotkey, seamless switching when PUSH/PULL video
116	Support to pull video from multi-head graphics card simultaneously
117	Permission Configuration: administrator has full permission to control all the computer/ sources and can create user. Each user is configured with a types of access permissions to each computer. User permission can be duplicated for creating user group
(118	Power Redundant, support PoE and power injector supply

86 | Eco Development Society, Department of Forests & Environment, Government of Meghalaya

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119	Get access and decode RTSP streaming directly, such as IP Camera
120	Intuitive and visual user interface, video wall can be managed on multiple controlling Pad simultaneously
121	Support to display ultrahigh resolution image pixel for pixel as video wall background by dot-to-dot displaying (making user easier to show its enterprise/organization culture)
122	User Log, All the operation by keyboard & mouse will be automatically recorded and stored in your dedicated server, including login, logout, get & push operations etc. [Optional]
123	Secure Data Communication: flash disk, web camera and USB headset at workspace can be read by remote computer over fiber, authorized operator only [Optional]
124	Considering system compatibility, hardware(video codec, KVM codec, control processor node) and software should be same brand
125	Control Processor for Control third party device via RS232/485, IO, IR, Relay only
126	RAM ≥ 4GB DDR2; CPU: 32bits,1Ghz;
127	RS232/485 port \ge 10 ; IR port \ge 8; I/O input port \ge 8; RJ45 port \ge 2
128	Built-in HDMI port for monitor when commissioning the system
129	Two-way control link, Pro AV Endpoints and environment can be controlled and the real-time feedback can be read and displayed on user interface, such as projector's bulb duration, power ON/OFF, temperature, humidity, PM2.5 etc.

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130	Optional hard disk for recording user log
131	Intuitive and visual user interface, code sending and feedback can be controlled on multiple controlling Pad simultaneously for better collaboration
132	System redundant, multiple central controller can be combined together as controlling cloud, once failure, another one will take over simultaneously
133	Control software can run on Windows OS, IOS, Android or IE browser
134	Cloud storage feature allows programmer to save code into cloud, such as IR files and matrix files, up to 10 latest compiled code can be saved and recalled from the cloud anytime, in case of system recovery is required;
135	Permission assignment, multiple user can be configured with different permission,
136	Control status and feedback can be preset and recalled by one touch"
137	Features of All-In-One Command & Control Center
138	Unlimited PiP & PoP available to create, multiple layout preset for fast recall, high performance of image sync without video wall processor
139	User-friendly and intuitive interface, drag/drop control; Free resize, re-position and overlap pictures by mouse or touch
(40	Real Time content preview, whatever local or remote sources, ensure the correct content can be always switch to the video wall intuitively
441	Multiple scenarios can be preset and recalled automatically or manually, when environment changes or task is scheduled

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142	Support room device and environment control via RS232/485, IO, IR and Relay, such as display, projector. DVD, switcher, lighting system and alarm system etc.
143	H.264/265 Codec Node can work well in one system
144	Support access RTSP streaming, such as IP Camera
145	Computers/sources can be separated from workspace and stored in the server room, where they are safe, air conditioned, so that heat and noise emissions in the office can be eliminated
146	Operator can control multiple computers/sources remotely over any workspace
147	Each computer/source can be distributed simultaneously up to 120 monitors
148	Graphic OSD, Operator can get access to any computers by OSD without any KVM Server.
149	Operators personal configuration will be acquired whichever kvm console he logs in
150	Switch and control between computers intuitively just by moving mouse from one monitor to another
151	Access up to eight computers simultaneously on one monitor with multi-view
152	Алу picture can be resized, re-positioned and overlapped on one monitor or cross two monitors
153	Siz preset layout can be recalled intuitively, including Full View, Quad-view, Six View, Eight View etc.

89 [Eco Development Society, Department of Forests & Environment, Government of Meghalaya

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154	Workspace operator can get access to any computer/source fastly,
155	Operator can share/cast their computer/source to others or video wall by hotkey. Once break news happened, it can be reported and casted to other relevant operator and video wall immediately
156	Administrator can configure system settings and set personalised access permissions
157	User are created and configured with a types of access permissions by Administrator on OSD, user permission can be duplicated for creating user group
158	Operator's personal configuration will follow the workspace wherever he log in
159	USB disk, USB camera and USB headset at workspace can be read by remote computer over fiber, authorized operator only
160	Compatible with USB 3.0/2.0/1.1 , data transfer rate up to 640 Mbps
161	Easy to troubleshoot and maintain, the faulty codec node won't affect the whole system
162	PoE feature, plug & play, swap faulty node conveniently
163	Adding codec node for new source and display only in future system expansion
164	The computers/sources can be shared among multiple locations
165	Compatible with Windows, Linux, Mac OS and Thin Client
166	The system should support free mouse cursor slide among computers with different OS systems, including Windows, Linux and Mac. Furthermore, multi-head

90 | Eco Development Society, Department of Forests & Environment, Government of Meghalaya

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	computers also should be compatible.	
167	Multi-levels access management. The administrator should be capable to dispatch different accesses based on user roles, for example one user has full access to control portions of computers or only has access to view content but without keyboard/mouse role. Meanwhile the user can apply for access authorization by sending request to the Administrator who is able to monitor all operations of common users if necessary	
168	All the computers are placed in a remoted and dedicated room, only the authorized staff have access to them. Reduce the noise and head dissipation and save the space in the working area.	
169	User Collaboration - the user should be able to push the resource to another workstation for instant collaboration instead of move or switch the seat physically to eliminate face to face communication	
170	Video signals preview at the same time. Multiple users managing of a display wall or more display walls at the same time is also possible.	
171	All the Layouts can be scheduled as per user convenience. Software also supports auto launch of Layouts according to specified time event by user and user log file management is also available. Offline layout creation is also possible with this s/w. It supports 48 signal sources displaying in one display unit simultaneously with freely scalable windows.	
172	The GUI of the wall management s/w has the playback option to show the live view of all the sources on the browser. It can also manage video wall region into multiple regions as per user requirements for Grid management. It also has the Pre window option for user to be able to see multiple signal source in one window with specified time interval and with user defined sequence. Administrator can monitor & control the workstation of operators. User can control complete system through IPAD and Android system over Wi-Fi.	
173	Face ID & Touch ID - Login for Operators and auto locks system when user walks	

91 | Eco Development Society, Department of Forests & Environment, Government of Meghalaya

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	out system
174	Built-in Video collaboration among multiple location - The computers/sources can be shared among multiple locations (command and control rooms / multiple offices etc.) Therefore, the chief can watch any dynamic information for fast decision-making. An operator can control multiple computers remotely on multiple workspaces, by mouse/keyboard or touches
175	Commanding officer Kiosks with 43" capacitive display and should be able to see live preview of all connected sources simultaneously and push the source to any desired location of the LED Wall, control ambience, volume along with taking keyboard and mouse control of each source via the touch kiosks itself.
176	48 Port 1G PoE+ Managed Network switch with 30 watt per port and 240 Gbps bandwidth fabric across 48 ports

J. Supply, Installation, Testing and commissioning of GIS And Dashboard Monitoring Workstations and News Live Streaming, i7/8gb/1tb with Windows 10 Pro License with Antivirus License, Keyboard and Mouse

SI. No	Specifications
11	Processor - Intel i7, 12th Generation
12	RAM - 16GB or More
13	Storage - 400GB or more
14	Storage Type - M.2 SSD
15	Integrated Graphics

92 | Eco Development Society, Department of Forests & Environment, Government of Meghalaya

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16	# Display Output - 2
17	# of USB Ports - 6
18	Integrated LAN - 1GBPS
19	Integrated Wireless - Yes
110	Integrated Bluetooth - Yes
11	Wireless Keyboard and Mouse - Yes
112	Windows 10 Pro 64bit License
113	Antivirus - Internet Security License

K. Supply, Installation, Testing and commissioning of 24" Computer Monitor Screen - FHD

ltem Nos	Description	Specifications
K1	Screen Size	Minimum 23.8"
К2	Panel Technology	IPS Panel
кз	Pixel Pitch	0.2745mm
K4	Pixel Configuration	3-in-1 (1R1G1B)

93 | Eco Development Society, Department of Forests & Environment, Government of Meghalaya

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К5	Brightness (Typical)	250 cd/m²
Kő	Aspect Ratio	16:9
K7	Contrast Ratio (Typical)	1000:1
K8	Viewing Angle	178/178 (CR > 10)
К9	Optimum Resolution	1920 x 1080 @ 60Hz
К10	Display Colors	16.7 Million
K11	Signal Input	DVI, HDMI 1.4, DisplayPort 1.2
K12	Built-in Speakers	2W x 2
K13	Regulatory Approvals	CE / FCC / KC / KCC / BSMI / TCO 7
K14	Backlight	Flicker Free Backlight
K15	Low Blue Mode	Available
K16	Warranty	2 years from the date of comissioning at site

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ltem Nos	Description	Specifications
L1	Processor	Intel® Xeon® Silver 4310 2.1G, 12C/24T, 10.4GT/s, 18M Cache
1.2	Туре	2U Rack Mountable
L3	RAM	16GB RDIMM, 3200MT/s, Dual Rank X 2nos
L4	Max Memory Supported	8TB
L5	Метогу Туре	DDR4
L6	Storage	10TB
L7	Max Supported Storage	198TB
L8	Storage Type	Up to 24 (2.5-inch) SAS/SATA/NVMe HDDs/SSDs
L9	Network	2 x 1 GbE

L. Supply. Installation, Testing and commissioning of High-End Rack Servers

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ltem Nos	Description	Specifications	
M1	Speakers (2nos)	3.5" Full-range (x7) element column surface passive speaker, 70/100V transformer with 8 Ω bypass, 130° horizontal x 20° vertical coverage, includes pan/tilt wall mount	
		3,000 Watt Two Channel Amplifier with Precise Power	
M2	Amplifier	800 Watts @8 Ohms	
мз	DSP and Audio mixer	Touch-screen digital audio mixer with 12mic/line inputs, 2 stereo inputs, 4 effects, 4 aux sends and USB connectivity for soft conferencing codec	
М4	PoE camera with support for Softcodec Conferencing System and Hardware based conferencing system (3nos)	18x Zoom, Full HD Resolution, 82° horizontal field of view. Should Include following ports and outputs Lan, USB 3.0 and HDMI	
M 5	Microphone	8 Wireless handheld microphone, 3 wireless levilier microphone and 1 Podium microphone	
м6	Integrated Video Conferencing Codec for Soft codec video conferencing	Should have HDMI Input and dual output: i7 7th gen processor, 16GB Ram and 512gb Storage, 2 DisplayPort output with Embedded software along with HDMI Full HD at 60P input capture which supports for Wired and Wireless presentation capability	
ж7	Video Conferencing Solution	Should support up to 1000 endpoints simultaneously, Should support H.323, SIP and multiplatform capabilities, whiteboarding, Screen sharing etc.,	

M. Supply, Installation, Testing and commissioning of Virtual Conference System

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N, Supply, Installation, Testing and commissioning of Interactive Multi-touch Table with Object recognition and Forrest GIS Integration

SI. No	Specifications		
N1	65" Display with 4K Resolution, Brightness 400nits and more		
NZ	Interactive Kiosk should be Capacitive technology with Physical Object recognition technology, 100 touch points, Capable of sensing 3D Pressure and should support TUIO protocol		
N3	Interactive processor with supporting LED Wall of custom resolution 8660 px by 1080 px or more		
N4	i9 processor, 64GB Ram, 1TB SSD and built-in Windows Enterprise LTSB		
N5	Embedded interactive player application		
N6	Features of Interactive Player with Cloud CMS		
N7	Should support any 3rd party integration with REST API's - for live data monitoring, Forest GIS integration		
NB	Should recognize physical objects and bring content related to the object, example - categories of plantation from GIS System		
ня	Should support easy responsive multi touch contents with unlimited touchpoints supporting action and triggers, pinch zoom and pan, rotate any media files		
N10	Should be possible to bind media files example if media-A is rotated media-B also should rotate,		
N11	Should be possible to animate media files, move, rotate, blur, shrink, hide. should		

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	be possible to choreograph multiple animation effects to work in parallel.	
N12	Should support media files like video, pdf's, images, web browser, excel sheets, twitter feeds to gather any large and trending fire disaster incidences (Public reporting)	
N13	Should be possible to annotate on the screen and save the files	
N14	Should be possible to share selected media files and annotated contents via one click email, usb storage, network storage etc.,	
N15	Should be possible to auto generate QR codes for the required fields	
N16	Should support live video feeds	
N17	Should support RFID/ NFC devices or sensors plug and play integration	
N18	Should support object recognition example, when an object is put on the touch frame via TUIO protocol that particular object should populate contents related to that objects further supporting all the functions mentioned above	
N19	Should have timer triggers for countdown and inactivity timers to add conditional logic such as "If no interaction after x minutes, play screen saver video." Or use a scheduler to change content and more at specified dates/times.	
N20	Should support actions based on the gestures example writing "W" as gesture should trigger and populate relevant contents	
N21	Easily add, modify and delete media files on the cloud with user permissions and device management features and changes to appear on the interactive player instantly	

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N22	Development of multitouch content for touch video wall with UI and UX, Creative content writing. Content Design, Motion graphics, photography, animations, actions and triggers with modules development for object recognition, coding and programming to achieve desired functionality on the interactive player. UI and Ux development
N23	 Data Entry System: RAM should also be at least 8GB RAM, Its core processor must be at least Core-I3 Or I5 and generation should be at least 7th or 8th. Hard-Disk must be min 500 GB to 1 TB ssd DDR3 or DDR4.
	Data Entry Tablet: Min Requirement
N24	 3G, 4G, VoLTE, Wi-Fi Min Quad-Core, 1.3GHz Processor Upto 2 GB RAM, 16 GB inbuilt 3000 mAh Battery 8 inches Display 5 MP Rear & 2 MP Front Camera Memory Card Supported, up to 64 GB
	Patrol Tracking Phones: Min Requirement
N25	2 GB RAM, 32 GB Memory, 6.5 inches screen, 5000 mAh, Quad Core, 64 Bit
	Camera Traps: Min Requirement
	Material: ABS Lens: 5MP CMOS Screen: 2.0 Inch LCD Video Resolution: 4K Video Format: MP4 Video Length: 5s-30min P Resolution: 30MP Picture Format: JPG Cont us Shoot: 1/3/6/9 Trigger Time: 0.3-0.6s
N26	IR Distance: 1-20m PIR Angle: 120°

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	Lens Angle: 120 IR LED: 46pcs 940nm Memory Card: 4-256G Battery: 8 * AA Battery / Direct Current 6 V Standby Time: 6 Months Waterproof: IP66 Working Temperature: -10-60°C	
	CCTV Cameras: Min Requirement	
	Camera Range	15 to 20 m
	Camera Vision	Day & Night Vision
	Camera Technology	Digital camera, IP Camera
	Style	Derby Camera
	Number of Channels	8 Channel
	Material	Plastic
	Frequency	50 Hz
N27		

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Format 6: Financial Proposal Template: Covering letter

To,

The Managing Director,

Meghalaya Industrial Development Corporation Ltd.,

KISMAT Upland Road, Laitumkhrah,

Shillong-793003, Meghalaya, India

Subject: Submission of the Financial bid

Dear Sir/Madam,

We, the undersigned, offer to provide the Implementation services for Selection of Agency for Design, Development, Installation Implementation, Operation and Maintenance of Integrated Command and Control Centre (ICCC) for various Forest Management Services, Eco Development Society, Department of Forest & Environment, Government of Meghalaya in accordance with your Request for Proposal dated March 13,2024 and our Proposal (Technical and Financial Proposals). Our attached Financial Proposal is for the sum of <<Amount in words and figures>>. This amount is inclusive of the local taxes.

1. PRICE AND VALIDITY

- All the prices mentioned in our Tender are in accordance with the terms as specified in the RFP documents.
 All the prices and other terms and conditions of this Bid are valid for a period of 180 days from the date of opening of the Bid.
- We hereby confirm that our prices include all taxes, duties, levies except GST which shall be at the rate
 prevailing at the time of execution of the work.
- We understand that the actual payment would be made as per the existing indirect tax rates during the time of payment.

2. UNIT RATES

We have indicated in the relevant forms enclosed, the unit rates for the purpose of on account of payment as well as for price adjustment in case of any increase to / decrease from the scope of work under the contract.

3. TENDER PRICING

We further confirm that the prices stated in our bid are in accordance with your Instruction to Bidders included in Tender documents.

4. QUALIFYING DATA

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Managing Director Meghalaya Industrial Development Corporation L Shillong We confirm having submitted the information as required by you in your Instruction to Bidders. In case you require any other further information/documentary proof in this regard before evaluation of our Tender, we agree to furnish the same in time to your satisfaction.

5. BID PRICE

We declare that our Bid Price is for the entire scope of the work as specified in the <Refer Section No.>. These prices are indicated in the Price Bid attached with our Tender. The quoted prices include all taxes, duties, levies excluding GST which shall be payable extra at the rate prevailing at the time of execution of the work.

6. PERFORMANCE BANK GUARANTEE (PBG)

We hereby declare that in case the contract is awarded to us, we shall submit the Performance Bank Guarantee as specified in this RFP document.

Our Financial Proposal shall be binding upon us subject to the modifications resulting from Contract negotiations, up to expiration of the validity period of the Proposal, i.e., [Date].

We understand you are not bound to accept any Proposal you receive.

We hereby declare that our Tender is made in good faith, without collusion or fraud and the information contained in the Tender is true and correct to the best of our knowledge and belief.

We understand that our Tender is binding on us and that you are not bound to accept a Tender you receive.

Thanking you,

We remain,

Yours sincerely,

Authorized Signature:

Name and Title of Signatory:

Name of Firm:

Address:

192 | Eco Development Society, Department of Forests & Environment, Government of Meghalaya



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