CORRIGENDUM

(Relating toAPFBC/PMU/Phase-II/SW&HW/2024/356/15-A, dated the 21stOctober 2024)

With reference to IFB NoAPFBC/PMU/Phase-II/SW&HW/2024/356/15-A, dated the21stOctober 2024, issued for the'Procurement of Software and Hardware for the establishment of GIS Lab,' the following amendment is hereby issued:

Section	Clause	Page No	Original provision	Amendment
Section II–Bid Data Sheet (BDS)	ITB 4.1	20	Maximum number of members in the JV shall be: Not Allowed	Maximum number of members in the JV shall be: 2 Two members allowed (Lead Bidder 60% share, JV Partner 40% share)
Section II–Bid Data Sheet (BDS)	ITB 22.1	21	The deadline for Bid submission is: Date: 21stNovember 2024	The deadline for Bid submission is: Date:11thDecember 2024
Section II-Bid Data Sheet (BDS)	Document Checklist:	22	-New Inclusion-	Insertion: ii.(a) In case of a JV, Bidder Information Form ELI 1.2 along with certificate of Incorporation / Registration / for each JV partner and Agreement /letter of Intent for a JV (ELI 1.2 as given below in Modification Chart 1)
-do-	-do-	22	iii. Bid Security by bidder strictly in accordance with ITB 19.1 (BG format given on page 47 may be used).	Iii Bid Security by bidder strictly in accordance with ITB 19. BG format given on page 47 may be used.
-do-	-do-	22	viii. (1) ISO 9001:2015 certification for Quality Management System	viii. (1) Self-attested copy of a valid ISO 9001:2015 certificate and ISO 27001:2022 certificate
-do-	-do-	22	viii. (2) Self-Certification from Manufacturer/Supplier mentioning that bidder has after sales services facilities in operation for at least 3 years for the Goods offered in the Bid.	viii. (2) Self-Certification from the Bidder mentioning that the bidder has after sales services facilities in operation for at least 3 years before the date of bid submission for the Goods offered in the Bid.
-do-	-do-	22	x. Filled Manufacturer Authorization forms (as per the format given on page 49) for GIS software(mandatory)and3-yearsuppliers warranty for other major hardware items.	x. OEMPartnership Agreement/Filled Manufacturer Authorization forms (as per the format given on page 49) for GIS software (mandatory) and 3-year suppliers warranty/OEM Partnership Agreement for other major hardware items. Pls Note: OEM partnership agreement should confirm that the partner OEM is the official manufacturer of

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				goods meeting the required technical specifications and possesses the capability to supply these products to the bidder as and when required.
Section III- Evaluation and Qualification Criteria	Technical Qualification Criteria 1.Eligibility	25	**1. Eligibility** *See original chart below*	Modified form as below – (Modification Chart 3 below) *See amendment chart below*
Section III- Evaluation and Qualification Criteria	Technical Qualification Criteria 2.Historical Contract Non-Performance	26	**2. Historical Contract Non-Performance** *See original chart below*	Modified form as below – (Modification Chart 4 below) *See amendment chart below*
Section III- Evaluation and Qualification Criteria	Technical Qualification Criteria 3. Financial Situation and Performance	27	**3. Financial Situation and Performance** *See original chart below*	Modified form as below – (Modification Chart 2 below) *See amendment chart below*

Page 25 – Original provision: 1. Eligibility

Criterion	Requirement	Single Entity	Joint Venture (existing or intended) All Parties Combined	Each Member	One Member	Submission Requirements
1.1 Nationality	Nationality in accordance with ITB 4.3	Must meet requirement	N/A	N/A	N/A	Forms ELI-1.1 with attachments
1.2 Conflict of Interest	No conflicts of interest in accordance with ITB 4.2	Must meet requirement	N/A	N/A	N/A	Bid Submission Form
1.3 AFD Eligibility	Not being ineligible to AFD financing, as described in ITB 4.3	Must meet requirement	N/A	N/A	N/A	Statement of Integrity (appendix to Letter of Bid)
1.4 State-Owned Entity	Meet conditions of ITB 4.3	Must meet requirement	N/A	N/A	N/A	Forms ELI-1.1 with attachments

Page 25 – Amendment: 1. Eligibility

Criterion	Requirement	Single Entity	Joint Venture (existing or intended) All Parties Combined	Each Member	One Member	Submission Requirements
1.1 Nationality	Nationality in accordance with ITB 4.3	Must meet requirement	Must meet requirement	Must meet requirement	N/A	Forms ELI-1.1 or ELI-1.2 (provided by each member of the JV, separately) with attachments and signed by the authorised signatory of the JV.
1.2 Conflict of Interest	No conflicts of interest in accordance with ITB 4.2	Must meet requirement	Must meet requirement	N/A	N/A	Bid Submission Form (In case of JV, a single form signed by authorised signatory/representative of the JV)
1.3 AFD Eligibility	Not being ineligible to AFD financing, as described in ITB 4.3	Must meet requirement	Must meet requirement	N/A	N/A	Statement of Integrity (appendix to Bid Submission Form) (In case of JV, a single form signed by authorised signatory/representative of the JV)
1.4 State-Owned Entity	Meet conditions of ITB 4.3	Must meet requirement (if applicable)	Must meet requirement (if applicable)	Must meet requirement (if applicable)	N/A	Forms ELI-1.1 with attachments

Page 26 – Original provision: 2. Historical Contract Non-Performance

Criterion	Requirement	Single Entity	Joint Venture (existing or intended) All Parties Combined	Each Member	One Member	Submission Requirements
2.1 History of Non-Performing Contracts	Termination of a contract[1] did not occur as a result of Bidder's default in the past five (5) years.	Must meet requirement[2].	N/A	N/A	N/A	Form CON-2
2.2 Suspension Based on Execution of Bid Securing Declaration by the Purchaser or withdrawal of the Bid within Bid validity	Not under suspension based on execution of a Bid Securing Declaration pursuant to ITB 4.4 or withdrawal of a Bid pursuant ITB 19.9.	Must meet requirement	N/A	N/A	N/A	Bid Submission Form
2.3 Pending Litigation	All pending litigation shall in total not represent more than one hundred percent (100%) of the Bidder's net worth and shall be treated as resolved against the Bidder.	Must meet requirement	N/A	N/A	N/A	Form CON-2

Page 26 – Amendment: 1. Historical Contract Non-Performance

Criterion	Requirement	Single Entity	Joint Venture (existing or intended) All Parties Combined	Each Member	One Member	Submission Requirements
2.1 History of Non-Performing Contracts	Termination of a contract[1] did not occur as a result of Bidder's default in the past five (5) years.	Must meet requirement[2].	Must meet requirement	Must meet requirement	N/A	Form CON-2 (provided by each member of the JV, separately) and signed by the authorised signatory of the JV.
2.2 Suspension Based on Execution of Bid Securing Declaration by the Purchaser or withdrawal of the Bid within Bid validity	Not under suspension based on execution of a Bid Securing Declaration pursuant to ITB 4.4 or withdrawal of a Bid pursuant ITB 19.9.	Must meet requirement	Must meet requirement	Must meet requirement	N/A	Bid Submission Form (In case of JV, a single form signed by authorised signatory/representative of the JV)
2.3 Pending Litigation	All pending litigation shall in total not represent more than one hundred percent (100%) of the Bidder's net worth and shall be treated as resolved against the Bidder.	Must meet requirement	Must meet requirement	Must meet requirement	N/A	Form CON-2 (provided by each member of the JV, separately) and signed by the authorised signatory of the JV.

Page 27 – Original provision: 3. Financial Situation and Performance

Criterion	Requirement	Single Entity	Joint Venture (existing or intended) All Parties Combined	Each Member	One Member	Submission Requirements
3.1 Financial Capabilities	Submission of audited balance sheets or if not required by the law of the Bidder's country, other financial statements acceptable to the Purchaser, for the last three (3) years (2023-24, 2022-23, 2021-22) to demonstrate the current soundness of the Bidder's financial position based on the following criteria: a) Average liquidity ratio for the last three (3) years ≥ 1.1 (Current assets / Current liabilities ≥ 1.1); b) Positive Net Worth for last three years	Must meet requirement	N/A	N/A	N/A	Form FIN-3.1, with attachments
3.2 Minimum Annual Turnover from supply of goods	Minimum average annual turnover for the last 3 years(2023-24, 2022-23 & 2021-22) calculated from total certified payments received for contracts in progress or completed during last 3 years:3: INR 100 million (10 crores)	Must meet requirement	N/A	N/A	N/A	Form FIN-3.2

Page 27 – Amendment: 1. Financial Situation and Performance

Criterion	Requirement	Single Entity	Joint Venture (existing or intended) All Parties Combined	Each Member	One Member	Submission Requirements
3.1 Financial Capabilities	Submission of audited balance sheets or if not required by the law of the Bidder's country, other financial statements acceptable to the Purchaser, for the last three (3) years (2023-24, 2022-23, 2021-22) to demonstrate the current soundness of the Bidder's financial position based on the following criteria: a) Average liquidity ratio for the last three (3) years ≥ 1.1 (Current assets / Current liabilities ≥ 1.1); b) Positive Net Worth for last three years	Must meet requirement	Must meet requirement	Must meet requirement	Must meet requirement	Form FIN-3.1, with attachments for each JV Member
3.2 Minimum Annual Turnover from supply of goods	Minimum average annual turnover for the last 3 years (2023-24; 2022-23 & 2021-22) calculated from total certified payments received for contracts in progress or completed during last 3 years: INR 100 million (10 crores)	Must meet requirement	Must meet requirement	Must meet forty per cent (40%) of the requirement	Lead Bidder must meet sixty per cent (60%) of the requirement	Form FIN-3.2 with attachments for each JV Member

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Section III- Evaluation and Qualification Criteria	Technical Qualification Criteria 4. Experience	28		Modified form as below – (Modification Chart 5 below)
Section IV- Bidding Forms	Form: EXP-4.1 Experience Notes to the Form	39	Scope of the project should be clearly highlighted on the work order/self-certificate and the cumulative scope of projects (up to 3 projects) should meet the desired scope of project as mentioned in the Section III 4.1.(i).	Scope of the project should be clearly highlighted on the work order/self-certificate
Section IV – Bidding Forms	Price and Completion Schedule - Related Services	45	Table: Column 7 **Total cost of CMC/ AMC for the desired period exclusive of duties and applicable taxes (Col. 5X6)**	Table: Column 7 **Total cost of CMC/ AMC for the desired period exclusive of duties and applicable taxes 2X (Col.5X Col.6)**
Section IV – Bidding Forms	Price and Completion Schedule - Related Services	46	Please note: - Financial Evaluation shall be done on the total bid price exclusive of duties and taxes. - A 3 year onsite Comprehensive Warranty/ Comprehensive Maintenance Contract (CMC) is required for all the hardware items starting from the date of operational acceptance. - The client assumes that comprehensive warranty will be equivalent to a CMC that would include features like accidental insurance, help-desk support, logistics (inclusive of shipping) for repairs/replacement etc.The 3 year onsite comprehensive warranty shall be included in the price schedule for goods.	Please note: - Financial Evaluation shall be done on the total bid price exclusive of duties and taxes. - A 3 year onsite Comprehensive Warranty/ Comprehensive Maintenance Contract (CMC) is required for all the hardware items starting from the date of operational acceptance. - The client assumes that comprehensive warranty will be equivalent to a CMC that would include features like accidental insurance, help-desk support, logistics (inclusive of shipping) for repairs/replacement etc.The 3 year onsite comprehensive warranty/ CMC shall be included in

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			o If any bidder feels that a 3 year onsite comprehensive warranty offered by him does not include all the features under the CMC (as defined above) for any line item(s) then the bidder may quote for CMC against such line item(s) in this price and completion schedule separately.	the price schedule for goods and bundled into the final price of the goods. o The continuation of AMC for software and the engagement of manpower beyond 1st year shall be subject to necessary approvals obtained by the purchaser.
Section VII – Schedule of Requirements	2. Technical Specifications	59-72	Note: The client wants software which meet all the above specifications under all the capabilities. The bidder ideally should meet all the specifications against all the capabilities by means of "Yes" against each individual specification under each capability. In case there is a "No" against any specification requirement in any capability and the bidder is in position to offer an equivalent or better specification against that requirement, then the bidder may do so by entering the specification and reasoning for the same by adding a Column 4* for consideration of the client. The client reserves the right to accept or reject the offered specification. 	Note: The client wants software which meet all the above specifications under all the capabilities. The bidder ideally should meet all the specifications against all the capabilities by means of "Yes" against each individual specification under each capability. In case there is a "No" against any specification requirement in any capability and the bidder is in position to offer an equivalent or better specification against that requirement, then the bidder may do so by entering the specification and reasoning for the same by adding a Column 4* for consideration of the client. The client reserves the right to accept or reject the offered specification.

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				Bidders are required to include an additional column labelled 'Proof of Compliance' following Column 4*. This column should contain reference to the weblink or brochure/technical datasheet page number, screenshot showcasing the software feature. All the software specifications that have been updated through the corrigendum shall be included in the compliance table by the bidder. **This table has to be provided by the GIS Software provider (signed and sealed) certifying that all the specifications are presently being met by the supplied software.**

Section VII – Schedule of Requirements	2. Technical Specifications; 1. Specifications for Enterprise GIS Software with image handling	59	Enterprise GIS Software must support reading and writing standard and common data file types using industry and international standard data formats, and via the web through OGC web service for all the following.
			   o Geospatial Formats: SHP, KML, GML
			   o Tabular Files: CSV, Excel, TDF, CDF
			   o Documents: JSON, GeoJSON
			   o Open Geospatial Standard Services: WCS, WFS,
				Enterprise GIS Software must support reading and writing standard and common data file types using industry and international standard data formats, and via the web through OGC web service for all the following.
				   o Geospatial Formats: SHP, KML, GML
				   o Tabular Files: CSV, Excel, TDF, CDF
				   o Documents: JSON, GeoJSON

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	capability including drone image Processing capability; General capabilities of Enterprise GIS Software: 2D and 3D data handling, data integration, data processing, data visualization and modelling, data sharing, data security and data analysis tools		WMS WMTS and RESTful, WPS	o Open Geospatial Standard Services: WCS, WFS, WMS WMTS and RESTful, WPS and OGC API Processing Service
-do-	-do-	59, 60	Enterprise GIS software should be able easily integrate & embed with Microsoft Office application like excel, PowerPoint etc. for management and administrators as a native functionality.	The Enterprise GIS software should support seamless integration with Microsoft Office applications such as Excel and PowerPoint, enabling users, including management and administrators, to embed and interact with GIS content within these applications. This capability may be provided either as a native functionality or through effective integration tools and workflows.
-do-	-do-	60	Enterprise GIS software must have support on Windows and Linux x86_64 operating system, x86_64 architecture (64 bit), with supported Linux releases.	Enterprise GIS software must have support on Windows or Linux x86_64 operating system, x86_64 architecture (64 bit), with supported Linux releases.
-do-	-do-	60	Enterprise GIS software should have inbuilt utility for	Enterprise GIS software should have inbuilt utility/

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			checking availability of server software updates/ patches once connected to internet.	notification support for checking availability of server software updates/ patches once connected to internet.
-do-	2. Technical Specifications; 1. Specifications for Enterprise GIS Software with image handling capability including drone image Processing capability; Developer Ecosystem Support	60,61	Enterprise GIS software should support AI/ML/deep learning standard Jupyter Notebooks to create, share, and run data science script/models for applications like plantation monitoring, Canopy Density Estimation, Tree Enumeration, Tree species identification and Mapping Tree species Extent (Agar, Bamboo etc.), Wildlife species Identification, Plantation Land bank Identification, Forest Health Monitoring, Encroachment Detection etc. The Software provider is expected to provide guidance on building/adapting these models in Assam forest's context.	The Enterprise GIS software should support AI/ML and deep learning capabilities for creating, sharing, and running data science scripts/models that enable applications such as plantation monitoring, canopy density estimation, tree enumeration, tree species identification and mapping, wildlife species identification, plantation land bank identification, forest health monitoring, and encroachment detection. The system should allow integration with common data science tools and workflows, facilitating seamless geospatial analytics. The Software provider is expected to provide guidance on building/adapting these models in Assam forest's context.
-do-	2. Technical Specifications; 1. Specifications for Enterprise GIS Software with image handling capability including drone image Processing capability; Field apps and mobile solutions	61	Enterprise GIS software should possess Out of the box Mobile survey and field data collection apps for forestry and wildlife uses, which should be compatible with iOS, Android, Universal Windows Platform etc. The mobile apps should preferably be able to integrate with SOIs CORS Network with COTS GPS/mobile devices for accurate geo location.	The Enterprise GIS software should include out-of-the box mobile survey and field data collection applications designed for forestry and wildlife use. These mobile applications should be compatible with major platforms such as iOS, Android, and Universal Windows Platform (UWP). The mobile apps should preferably support integration with CORS (Continuously Operating Reference Stations) networks and be compatible with Commercial Off-The-Shelf (COTS) GPS/mobile devices to enable accurate geolocation.

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-do-	2. Technical Specifications; 1. Specifications for Enterprise GIS Software with image handling capability including drone image Processing capability; Public geospatial data support	61, 62	• Enterprise GIS software should provide access to a vast repository of ready-to-use, authoritative geospatial datasets from governments and organizations around the world. • Enterprise GIS software should provide NASA web services feeds for temperature, Soil moisture, humidity, and rainfall to the understand the weather observations and climate change and its effect on forests of Assam. • Enterprise GIS software should provide customisable web services for Thermal activity detected by the MODIS sensors on the NASA Aqua, Terra satellites and/or VIIRS sensors on S-NPP satellites etc. during the last 48 hours and 7 days to detect the thermal hotspot. This would help for monitoring forest fire activity in Assam Forests. • Enterprise GIS software should provide access to free Online 2D, 3D, Street, LULC Base maps for previous few years with minimum resolution of 10m, imagery Services for location reference out of the box without any added cost or requirement of license. • Enterprise GIS software should provide archived very high- resolution satellite imagery basemap layers for past few years to understand land use changes. The software should have a capability of running deep learning object detection models on such basemaps for change analysis. • Enterprise GIS software should provide GIS data, such as demographic data, Rural Road Data, Population projection data, School and Health centre data, other government department data, pin code boundaries, and administrative boundaries of India, as web layer services for further analysis to understand the community profile around the forests and understand	• Enterprise GIS software should provide access to a vast repository of ready-to-use, authoritative geospatial datasets relevant to Assam from governments and organizations around the world. GIS Software provider should catalogue/consume these datasets through APIs and provide in the GIS platform as a service. The dataset updates shall also be reflected in the GIS platform. These datasets should be made available in form of WMS/WMTS or WFS options for consumption by users and applications. The data sources include but are not limited to: • Bhuvan Datasets, Global Forest Watch (Deforestation alerts), NASA Earth Data (MODIS/VIIRS Fire Alerts), NASA or similar other Open Climate data(temperature, soil moisture, rainfall etc.), Landsat and Sentinel freely available Imageries and derived products, Terrain data, IUCN data and freely available abiotic layer data (like soil, geology etc.). FSI Data(Forest Cover, Forest Type) when provided by the department to the bidder, shall be vectorised and classified and ingested into the enterprise by the bidder. The GIS Software provider is expected to provide further integrations with open and freely available data sources in future also whenever department needs it. • Regularly updated(at least once a year) high quality and cloud free satellite Imagery base maps of very high resolution (less than 1 meter) specific to Assam integrated into GIS software to allow Forest Department to monitor even minor encroachments and detect changes in forest areas. • GIS data relevant to Assam, such as demographic data, Rural Road Data, Population projection data,

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			socio-economic profile of people dependent on forests.	other government department data and administrative boundaries of India, for further analysis to understand the community profile around the forests and understand socio-economic profile of people dependent on forests.
-do-	2. Technical Specifications; 1. Specifications for Enterprise GIS Software with image handling capability including drone image Processing capability; Cloud based Drone Image Processing capability	62	The cloud based drone processing option should have a Dashboard showing all the projects on a global geographical base map.	The cloud-based drone processing option should include a dashboard that displays all projects on a global geographical base map. This dashboard should provide users with an intuitive, interactive view of project locations, statuses, and related data, facilitating easy access, monitoring, and management of drone imagery projects.
-do-	-do-	62	The cloud based drone imagery processing option should generate a detailed processing report with parameters for (not limited to) quality check, camera and tie point positions, overlap details, bundle block adjustment, geolocation and accuracy details.	The cloud-based drone imagery processing option should generate a detailed processing report that includes, but is not limited to, parameters for quality checks, camera and tie point positions, overlap details, bundle block adjustments, geolocation, and accuracy metrics. The report should provide comprehensive insights into the processing workflow and output quality.
-do-	-do-	62	Enterprise GIS software should have Ortho Maker tools to create orthoimage mosaics and terrain surface products using imagery from drones. where user can set Project Setup, Block Adjustment and Final Product Generation from Drone Image.	The Enterprise GIS software should provide tools for creating orthoimage mosaics and terrain surface products from drone imagery. These tools should enable users to manage the full workflow, including project setup, block adjustment, and final product generation,

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				ensuring accurate and high-quality outputs tailored to user-defined specifications
-do-	-do-	62	Other capabilities mentioned in desktop-based drone imagery processing specifications shall also be met by the cloud option of drone image processing.	Other relevant capabilities mentioned in desktop-based drone imagery processing specifications shall also be met by the cloud option of drone image processing.
-do-	2. Technical Specifications; 2. Specifications for Desktop GIS Software with image handling capability; Handling 2D, 3D, Large dataset and Raster, Vector data & 2. Technical Specifications; 3. Specifications for Desktop GIS Software with image handling capability including Drone image processing capability; Handling 2D,	62, 67	The software must be able to create a single Forest Division, Range wise project name, which will contain that area related Maps and scenes, Layouts containing map frames and map, Toolboxes containing models and scripts, Connections to folders, databases, servers, styles, and other resources.	The software must enable the creation of a comprehensive project structure for a Forest Division, organized by Range, which contains area-specific maps and scenes. This project structure should include layouts with map frames and maps, toolboxes with models and scripts, and connections to relevant folders, databases, servers, styles, and other resources

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	3D, Large dataset and Raster, Vector data			
-do-	-do-	63, 67	Software should provide Online Access of high-resolution Imagery base map services and should allow running deep learning/AI/ML object detection models for change detection on these basemaps.	Software should provide Online Access of high-resolution Imagery base maps specific to Assam integrated as a service in the GIS platform and it is preferable (not mandatory) to allow running deep learning/AI/ML object detection models for change detection on these basemaps.
-do-	-do-	63, 68	The software should provide free base map Services (OSM, High Resolution Imagery, Topographic etc.). The base maps should also be viewable without internet also.	The software should provide free base map services relevant to Assam(OSM, High Resolution Imagery, Topographic etc.).
-do-	-do-	63, 68	The software should provide GIS data, such as demographic data, Rural Road Data, Population projection data, School and Health centre data, other government department data, pin code boundaries, and administrative boundaries of India, as web layer services for further analysis to understand the community profile around the forests and possible encroachment threat nearby forest boundary.	The Software should provide GIS data relevant to Assam, such as demographic data, Rural Road Data, Population projection data, other government department data and administrative boundaries of India, as web layer service for further analysis to understand the community profile around the forests and understand socio-economic profile of people dependent on forests.
-do-	-do-	63, 68	Software should provide tools for designing the schema and structure of geodatabases. Users can define feature classes, attribute domains, subtypes, relationship classes, and spatial indexes. They can establish rules, validations, and behaviours for maintaining data integrity.	Software should provide tools for designing the schema and structure of GIS databases and allow users to create comprehensive GIS database elements and frame data integrity rules.
-do-	2. Technical Specifications; 2. Specifications for Desktop GIS Software with image handling	64, 69	The software must be able to View, manage and analyse lidar and other point clouds in LAS format natively and as a collection of files in a LAS dataset. The LiDAR or high-resolution satellite data will help to generate canopy height model, calculate biomass and canopy cover to analyse and visualize tree density and generate report.	The software must be able to View, manage and analyse lidar and other point clouds in LAS format natively and as a collection of files in a LAS dataset. The LiDAR or high-resolution satellite data will help to generate canopy height model, calculate biomass and canopy cover to analyse and visualize tree density.

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	capability; Handling Point Cloud, LiDAR, SAR data & 2. Technical Specifications; 3. Specifications for Desktop GIS Software with image handling capability including Drone image processing capability; Handling Point Cloud, LiDAR, SAR data			
-do-	2. Technical Specifications; 2. Specifications for Desktop GIS Software with image handling capability; Remote Sensing & Image Analysis	65, 70	The software should have separate hyperspectral image processing tools like anomaly detection, target detection, material mapping along with a spectral comparison facility	Clause Deleted

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	& 2. Technical Specifications; 2. Specifications for Desktop GIS Software with image handling capability; Remote Sensing & Image Analysis			
-do-	2. Technical Specifications; 2. Specifications for Desktop GIS Software with image handling capability; Data Science/ AI/ ML/Deep Learning Capabilities & 2. Technical Specifications; 3. Specifications for Desktop GIS Software	66, 71	Most importantly, should either possess pre trained models for all of the above use cases in Assam's context or provide extensive training support for enabling users to train custom models using frameworks like TensorFlow and PyTorch on the above use cases in Assam's context.	Most importantly, should either possess pre trained models for all of the above use cases in Assam's context or provide extensive training support for enabling users to train custom models using frameworks like TensorFlow or PyTorch on the above use cases in Assam's context.

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	with image handling capability including Drone image processing capability; Data Science/ AI/ ML/Deep Learning Capabilities			
-do-	2. Technical Specifications; 3. Specifications for Desktop GIS Software with image handling capability including Drone image processing capability; Drone Imagery Processing	72	Should Build a stereo model of a mosaic dataset, based on a user-provided stereo pair.	Clause Deleted
-do-	2. Technical Specifications 6. Video Wall Specification	74	• Speakers: 5-Watt x 2 • Certifications: BEE Star Rating • Display Configuration: A 2X2 indoor video wall made of 55-inch 4K UHD LCD panels with ultra-thinbezels (0.8mm or less).	• Speakers: Clause Deleted • Certifications: Clause deleted • Display Configuration: A 2X2 indoor video wall made of 55-inch Full HD (minimum) LCD panels with ultra-thinbezels (0.8mm or less).
-do-	2. Technical Specifications	74	• To be used for video conferencing • To support VC systems such as Zoom and Teams	• To be used for video conferencing • To support VC systems such as Zoom and Teams

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	7. Video Bar Specification		etc. • 4K camera, 120 degree FOV or better. • Noise cancelling Microphone with coverage range 10-20 feet • Connectivity: 1Gbps Ethernet, USB, HDMI • Cables: 5-meter USB Type-A to Type-C, Ethernet, HDMI • Power Adaptor	etc. • 4K camera, 120 degree FOV or better. • Noise cancelling Microphone with coverage range 10-20 feet • Connectivity: 1Gbps Ethernet, USB, HDMI • Cables: 5-meter USB Type-A to Type-C, Ethernet, HDMI • Power Adaptor • Speakers: 5-Watt x 2
-do-	2. Technical Specifications 8. Storage solution Specifications	74	• Operating System for offered hardware, with 10 user licences: Windows Server 22 Standard Edition • Protocol Support: NFS,SMB • RAID: 5 • Usable storage space (adding for RAID redundancy) using NVMe SSD drives in RAID 5 mode; Each drive maximum size is 3.5 TB; Controller with RAID support (software or hardware): 20 TB	• Operating System for offered hardware, with 10 user licences: The Windows Server 2022 or equivalent • Protocol Support: Minimum NFS,SMB • RAID: 5 or above • Usable storage space (adding for RAID redundancy) using NVMe SSD drives in RAID 5 or above mode; Each drive maximum size will be 4 TB; Controller with RAID support (software or hardware): 20 TB
-do-	2. Technical Specifications 18. Smart Rack Specifications	79	Size of Rack Enclosure: 27U*	Size of Rack Enclosure: 36U
-do-	-do-	79	Rear door thickness in mm: 2	Rear door thickness: as per OEM standard
-do-	-do-	79	Load Bearing Capacity (Kgs): 200 kilograms	Load Bearing Capacity (Kgs): 1000 kilograms
-do-	-do-	80	Power of Cooling Unit (kW): 1	Clause Deleted
-do-	-do-	80	Certifications: ISO 27001, SOC2, ISO 14001, BEE Star Rating, IP rating	Certifications: ISO 27001, ISO 14001
Section IX- SpecialConditions of Contract	GCC 15.1	99	12. APFBCS reserves the right to cancel contract in case of consecutive sub-par performance by the replacements 15. In regard to AMC/CMC items, the payment for the same will be payable after the issuance of operational acceptance certificate by the Purchaser in equal quarterly	12. APFBCS reserves the right to cancel the availing of manpower services due to sub-par performance by the replacements or due to lack of necessary approvals beyond 1st year or due to any other reason. 15. In regard to AMCitems for a 2 year period after the

Section	Clause	Page No	Original provision	Amendment
			instalments at the end of each quarter as per the rates quoted in the Price Schedules and on submission of relevant supporting documents and certification of satisfactory service provided during the quarter.	1st year, the payment for the same shall be made after obtaining the necessary approvals in yearly instalments at the beginning of each year as per the rates quoted in the Price Schedules and on submission of relevant supporting documents and certification of satisfactory service provided during the previous year.

* 27U will be replaced everywhere in the document by 36U (For ex: In Price Schedule of Goods (Item 18, Page 44), In List of Goods and Delivery Schedule (Item 18, Page 57) and In Technical Specifications Compliance Sheet (Item 18, Page 82))

Modification Chart 1

Form: ELI-1.2
Bidder's JV Information Form

[The following table shall be filled by each member of a Joint Venture]

Date: *[Insert day, month, year]*
IPC No. and title: *[Insert IPC number and title]*
Page *[insert number]* of *[insert total number]* pages

Bidder's JV name: _____ *[insert full name]*
Bidder's JV member's name: _____ *[insert full name Bidder's JV Member]*
Bidder's JV member's country of constitution: _____ *[indicate country of constitution]*
Bidder's JV member's year of constitution: _____ *[indicate year of constitution]*
Bidder's JV member's legal address (in country of constitution): _____ *[insert street / number / town or city / country]*
Bidder's JV member's authorized representative information: Name: _____ *[insert full name]* Address:_____ Telephone/Fax numbers: _____ Email address: _____

1.   Attached are copies of original documents of:
    a. Certificate of Incorporation/Registration for each JV member and JV agreement or Letter of Intent for JV formation.
    b. In case of State-owned enterprise or institution, in accordance with ITB 4.3, documents establishing:
        i. Legal and financial autonomy.
        ii. Operation under commercial law.
        iii. Establishing that the Bidder's JV Partner is not a dependent agency of the Purchaser.

Note: This form is mandatory for JV, to be provided by each JV member separately alongwith the attachments mentioned and signed by authorised signatory of the JV. No other format is acceptable.

Modification Chart 2

Criterion		Requirement	Single Entity	Joint Venture (existing or intended)			Submission Requirements
				All Parties Combined	**Each Member**	**One Member**	
1. Financial Situation and Performance							
3.1	**Financial Capabilities**	Submission of audited balance sheets or if not required by the law of the Bidder's country, other financial statements acceptable to the Purchaser, for the last three (3) years (2023-24, 2022-23, 2021-22) to demonstrate the current soundness of the Bidder's financial position based on the following criteria: **a) Average liquidity ratio for the last three (3) years ≥ 1.1** (Current assets / Current liabilities≥ 1.1); **b) Positive Net Worth for last three years**	Must meet requirement	Must meet requirement	Must meet requirement	Must meet requirement	Form FIN-3.1, with attachments(In case of a JV, separate form for each JV Member signed and sealed by authorised representative of JV)
3.2	**Minimum Annual Turnover from supply of goods**	Minimum average annual turnover for the last **3 years** (2023-24; 2022-23 & 2021-22) calculated from total certified payments received for contracts in progress or completed during last 3 years: **INR 100 million (10 crores)**	Must meet requirement	Must meet requirement	Must meet forty per cent (40%)of the requirement	Lead Bidder must meet sixtyper cent (60%)of the requirement	Form FIN-3.2 with attachments(In case of a JV, separate for each JV Member signed and sealed by authorised representative of JV)

Modification Chart 3

				Joint Venture (existing or intended)			
1. Eligibility							
	Criterion	**Requirement**	**Single Entity**	**All Parties Combined**	**Each Member**	**One Member**	**Submission Requirements**
1.1	**Nationality**	Nationality in accordance with ITB 4.3	Must meet requirement	Must meet requirement	Must meet requirement	N/A	Forms ELI-1.1 or ELI-1.2 (provided by each member of the JV, separately) with attachments and signed by the authorised representative of the JV.
1.2	**Conflict of Interest**	No conflicts of interest in accordance with ITB 4.2	Must meet requirement	Must meet requirement	N/A	N/A	Bid Submission Form (In case of JV, a single form signed by authorised representative of the JV)
1.3	**AFD Eligibility**	Not being ineligible to AFD financing, as described in ITB 4.3	Must meet requirement	Must meet requirement	N/A	N/A	Statement of Integrity (appendix to Bid Submission Form) (In case of JV, a single form signed by authorised representative of the JV)
1.4	**State-Owned Entity**	Meet conditions of ITB 4.3	Must meet requirement (if applicable)	Must meet requirement (if applicable)	Must meet requirement (if applicable)	N/A	If applicable, Forms ELI-1.1 or ELI-1.2 (provided by each member of the JV, separately) with attachments and signed by the authorised representative of the JV.

Modification Chart 4

			Joint Venture (existing or intended)			
1. Historical Contract Non-Performance						
Criterion	**Requirement**	**Single Entity**	**All Parties Combined**	**Each Member**	**One Member**	**Submission Requirements**
2.1 History of Non-Performing Contracts	Termination of a contract[1] did not occur as a result of Bidder's default in the past five (5) years.	Must meet requirement[2].	Must meet requirement	Must meet requirement	N/A	Form CON-2 (provided by each member of the JV, separately) and signed by the authorised representative of the JV.
2.2 Suspension Based on Execution of Bid Securing Declaration by the Purchaser or withdrawal of the Bid within Bid validity	Not under suspension based on execution of a Bid Securing Declaration pursuant to ITB 4.4 or withdrawal of a Bid pursuant ITB 19.9.	Must meet requirement	Must meet requirement	Must meet requirement	N/A	Bid Submission Form (In case of JV, a single form signed by authorised representative of the JV)

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[1]Non-performance shall include all terminations of contracts where (a) non-performance was not challenged by the contractor, including through referral to the dispute resolution mechanism under the respective contract, and (b) contracts that were so challenged but fully settled against the contractor. Non-performance shall not include contracts where Employers decision was overruled by the dispute resolution mechanism.

[2] This requirement also applies to contracts executed by the Bidder as JV member.

	1. Historical Contract Non-Performance					
Criterion	**Requirement**	**Single Entity**	**Joint Venture (existing or intended)**			**Submission Requirements**
			All Parties Combined	**Each Member**	**One Member**	
2.3 Pending Litigation	All pending litigation shall in total not represent more than one hundred percent (100%) of the Bidder's net worth and shall be treated as resolved against the Bidder.	Must meet requirement	Must meet requirement	Must meet requirement	N/A	Form CON-2 (provided by each member of the JV, separately) and signed by the authorised representative of the JV.

Modification Chart 5

		2. Experience					
Criterion		**Requirements**	**Single Entity**	**Joint Venture (existing or intended)**			**Submission Requirements**
				All Parties Combined	**Each Member**	**One Member**	
4.1 Similar Experience	(i)	The Bidder should demonstrate relevant experience of GIS Lab/System deployment and set-up as prime supplier or JV member[1]. The relevant project experience should include provisioning and installation of Enterprise / Desktop GIS software and associated hardware, along with implementation, operation/ maintenance support.	Must meet requirement	Must meet requirement	N/A	N/A	• Form EXP-4.1 along with annexures mentioned therein, strictly as per format. • Self-attested copy of a valid ISO 9001:2015 certificate and ISO 27001:2022 (in case of a JV, from any of the JV Member)
	(ii)	A minimum number of similar contracts highlighting clearly the scope as mentioned above that have been satisfactorily and substantially completed[3] as prime Supplier, or joint venture member, between 1st April 2019 and bid submission deadline: Up to 3 similar contracts with a minimum					

			2. Experience				
Criterion	**Requirements**		**Single Entity**	**Joint Venture (existing or intended)**			**Submission Requirements**
				All Parties Combined	**Each Member**	**One Member**	
	combined[2] total value of INR 50 million (iii) Valid ISO 9001:2015 and ISO 27001: 2022 certifications needed						
4.2 After Sales Service	Availability at the bid submission date in the Purchaser's Country of spare parts and after sales services facilities in operation for at least 3 years for the Goods offered in the Bid.		Must meet requirement	Must meet requirement	N/A	N/A	Self-Declaration by theBidder / Lead Bidder (in case of JV)

1. For contracts under which the Bidder participated as a joint venture member, only the Bidder's share, by value, and role and responsibilities shall be considered to meet this requirement.
2. Subject to a maximum of 3 separate contracts, the monetary value of the individual contracts substantially completed by JV members individuallycan be combined to achieve the minimum combined value of INR 50 million.
3. Substantially completed means the contracts whose Supply, Installation and Commissioning has been successfully completed and the Operation and Maintenance is going on.