CORRIGENDUM NOTICE

(ET-NIQ-..2449.... DT- 02-12-2020)

The Technical Specifications (TechSheet) mentioned/uploaded alongwith NIQ No. **ET-NIQ-2270; DT-18.11.2020 (Tender ID: 2020_TEZU_597917_1)** has been replaced with a **Revised Technical Specification (TechSheet).**

The other contents of the NIQ remain unaltered.

Assistant Registrar (GA)
Tezpur University
Memo No: TU/11-24/Pur/Qtn(ET)/2020-21/2449   Dated:- 02-12-2020
Copy Information to:

1. Webmaster, Tezpur University for uploading the notice in the website.
2. Dr. Ashalata Devi, Department of Environmental Science, Tezpur University
3. File

Assistant Registrar (GA)

Technical Specifications cum Compliance Report
(To be submitted on Company's/Firm's Letterhead Signed and Sealed)

Item 1: *RS-GIS software*			
Essential Functionality	**Description of the functionality**	**COMPLIANCE with Proof via (Brochure / weblink / Screenshot**	**Remarks**
Data Collection from ETS & DGPS	Should be able to collect data from all leading Total station & DGPS		
Orthorectification	Should include sensor-based modeling and orthocorrection for datasets with CARTOSAT RPC, GEOEYE-1/OrbView-3, IKONOS with RPCs, QuickBird with RPC, QuickBird/ WorldView I & II		
GIS Analysis	Should have option for Attribute Query, Spatial Query, Spatial Intersection, Spatial Difference, Join, union, Buffer Zone (Merged and Unmerged), Analytical Merge, Geocoding, Analyzing Geometry, Native Query (to perform server-based native querying on Oracle), and Functional Attribute, Update the analysis dynamically as data changes. Software should have facility to work in Multiuser Editing environment. It should be able to create THIESSAN Polygon.		
	Should be able to convert CAD to GIS. Should be able to save as rvc file and import export standard GIS file. Should have network analysis inbuilt without extra module. Should have topological based digitization facilities.		
Snapping Options	Vector Snapping: Intersection Snap, End Point Snap, Vertex Snap, On Element Snap.		
Spatial Data Validation and Fixing	Functionalities of geometry validation against standard anomalies like Empty Geometry, unknown geometry, invalid geometry, too few vertices, uncontained holes, unclosed areas, overlapping holes, zero-length lines, zero-coverages area, invalid coordinates, area loop,		

	kickback/duplicate point, invalid geometry component.		
Raster Mosaicking	Merging pairs or blocks of images with colour balancing and matching to produce seamless mosaics.		
	Dynamic Mosaic Preview of output without creating a physical output file. User defined, Most Nadir, Along Feature Cut Line Generation option		
	Should have mosaic tools using Piece-Wise Affine model for cadastral mapping.		
Image Processing & Spatial Analysis	Resolution Merge - HPF, IHS, Modified IHS resolution merge, wavelet, subtractive		
	Principal Component, convolution, non-directional, focal analysis, texture, adaptive filter, statistical filter, LUT stretch, histogram equalization, histogram match.		
	Able to view DTM as 3D surface; Should have drape facility of raster, vector and annotation on 3D surface; should have facility of fly through over 3D.		
	Should have radiometry and algorithm based change detection tool with automatic raster to vector conversion facility		
	Should have tools to generate contour, area along surface, volume calculation, Terrain analysis, GIS modeling (using vector and rasters) and 3D analysis, Watershed Analysis with vector flow path and basin attributes generated, "Valley width-to-Height Ratio", Slope Analysis, Sinusity ratio, Dynamic Dip/Strike generation, Rose diagram facilities. Should be able to run and have tools for USLE calculation. Should have GIS spatial Modelling using Multi-Criterion Analysis.		
	Should have Hyperspectral analysis models and other image processing facilities. Should have LiDAR analysis feature.		
Vector & Raster Registration	Georeferencing of any raster data using Affine, Polynomial (first to tenth order), Linear Rubber Sheeting, Non- Linear Rubber sheeting. Automatic satellite Ephemeris parameter intake facility in geo-referencing,		

	Reprojection. Should support over 1000 projected coordinate systems and facility to add user defined spheroids and datums (horizontal and vertical), datum transform should be available.		
	Option for automatically generates thousands of tie points between the images and produces a geometric model which ties the two images together accurately.		
	Automatic edge matching of the satellite imagery, should provide functionality for performing spatial adjustments and transformations to match the more accurate Vector data. Automatic identification of changed areas using different algorithms and conversion of changed areas in shape file from the same interface.		
Map Text	Should have option for automatically place text, Inserting Labels Interactively, Find Text Conflict, Advanced rule based Labeling option for Dynamic Label which quickly reposition as the user pans or zooms		
Map Layout	Should have all standard functionalities to create Map layout with Map book generation and Batch Plotting facility.		
Web GIS Application	Should have Web publishing tools within the same environment for view and query on GIS layers from other systems.		
License Validity	License should be either Perpetual or subscription based. Rest of the technical specification will remain the same.		
Free demonstration of software	Available		

Item 2 (Optional): _Photogrammetry (Satellite and Arial) And Radar Application Software_	

Essential Functionality	Description of the functionality	COMPLIANCE with Proof via (Brochure / weblink / Screenshot	

Photogrammetry Functionalities	Automatic Interior Orientation in hundreds of Stereo Pair at one go, Stereo GCP Point Measurement		
	Satellite Block Triangulation & Ariel Triangulation with State-of-the-art bundle adjustment with self-calibration for Digital & Analog data option		
	Automatic Tie point generation with user defined strategies & tie point patterns and Tie point Measurement		
	Ability to extract individual DTMs from stereo pair.		
	Automatic Contour & TIN generation option		
	Option for collect 3D data from Stereo imagery directly & 3D surfacing option		
SAR data handelling	Should have support for industry standard SAR data support. The software should be able to identify water areas rom SAR data. It should be able to extract DEM from stereo RADRA data and should be able to geo-reference and orthorectify SAR data.		
License Validity	All the license should be permanent/perpetual in nature		
Free demonstration of software	Available		