



# COOCH BEHAR PANCHANAN BARMA UNIVERSITY

## Department of Geography

### NOTICE INVITING E-TENDER

Tender ID showing at <https://wbtenders.gov.in>:

Tender Ref. No.: CBPBU/Geog/01

Dated: 26.12.2017

Online E-Tender is invited by the Department of Geography, Cooch Behar Panchanan Barma University for supplying different instruments by the eligible vendors. Interested vendors may follow the instructions as given below for submission of their tenders under online mode:

#### List of Items to be Purchased:

Sl. No	Description of Items	Quantity
1	<b>Total Station A</b>	
1.01	<b>Total Station A</b> <b>ANGULAR MEASUREMENT</b> <b><u>Accuracy Hz and V</u></b> <ul style="list-style-type: none"><li>Absolute, continuous, quadruple: 0.5" (0.15 mgon)</li></ul> <b>DISTANCE MEASUREMENT</b> <b><u>Range</u></b> <ul style="list-style-type: none"><li>Prism (GPR1, GPH1P): 1.5m to 3500m</li><li>Non-Prism / Any surface: 1.5m to &gt;1000m</li></ul> <b><u>Accuracy / Measurement time</u></b> <ul style="list-style-type: none"><li>Single (prism): 0.6mm + 1ppm / typically</li><li>Single (any surface): 2mm + 2ppm / typically</li></ul> <b><u>Laser dot size</u></b> <ul style="list-style-type: none"><li>At 50m: 8mm x 20mm</li></ul> <b><u>Measurement technology</u></b> <ul style="list-style-type: none"><li>System analyser: Coaxial, visible red laser</li></ul> <b>IMAGING</b> <b><u>Overview and telescope camera</u></b> <ul style="list-style-type: none"><li>Sensor: 5-megapixel CMOS sensor</li><li>Field of view (overview / telescope): 19.4° / 1.5°</li><li>Frame rate: Up to 20 frames per second</li></ul> <b>MOTORISATION</b> <b><u>Direct drives based on Piezo technology</u></b> <ul style="list-style-type: none"><li>Rotation speed: Maximum 200 gon (180°) / s</li></ul>	1

- Time to change face: Typically 2.9s

### **AUTOMATIC AIMING - ATRplus**

#### **Target aiming range/ Target locking range**

- Circular prism (GPR1, GPH1P): 1500m / 1000m
- 360° prism (GRZ4, GRZ122): 1000m / 1000m

#### **Accuracy/ Measurement time**

- ATR angle accuracy Hz, V: 0.5" (0.15 mgon) / typically 3–4s

### **POWERSEARCH**

#### **Range / Search time**

- 360° prism (GRZ4, GRZ122): 300m / typically 5s

### **GUIDE LIGHT (EGL)**

#### **Working range / Accuracy**

- 5–150m / typically 5cm @ 100m

### **GENERAL**

#### **Processor**

- TI OMAP4430 1GHz Dual-core ARM® Cortex™- A9 MPCore™
- Operating system - Windows EC7

#### **Autofocus telescope**

- Magnification / Focus range: 30 x / 1.7m to infinity

#### **Display and keyboard**

- 5-inch, WVGA, colour, touch, both faces - 37 keys, illumination

#### **Operation**

- 3x Endless drives, 1x Servofocus drive, 2x Autofocus keys, User-definable SmartKey

#### **Power management**

- Exchangeable Lithium-Ion battery with internal charging capability: Operating time 7–9 h

#### **Data storage**

- Internal memory: 2 GB
- Memory card: SD card 1 GB or 8 GB

#### **Interfaces**

- RS232, USB, Bluetooth®, WLAN

#### **Weight**

- Total station including battery: 5kg to 8kg

#### **Environmental specifications**

- Working temperature range: –20°C to +50°C
- Dust & Water (IEC 60529) / Blowing rain: IP65 / MIL-STD-810G, Method 506.5-I
- Humidity: 95%, non-condensing

### **ACCESSORIES**

- Tripod, Tribrach, Miniprism Set/Reflector, Batteries (x2) & Charger, Data Storage Media (8 GB), Data Transfer Cable, Carrier, Pole, Eyepieces, Bags & Containers (Carry Case).

	<b>User Manual</b> <b>Calibration Certificate - 1 Year</b> <b>1-Year Warranty and Basic Customer Care Package</b>	
1.02	<b>Total Station Controller</b> <u><b>System Specifications</b></u> <ul style="list-style-type: none"> <li>• Operating system: Windows 10 Pro</li> <li>• Processor: Intel® Core™ i5-6300U vPro™ (2,4 GHz, 3 MB Intel® Smart Cache)</li> <li>• Memory (RAM): 8 GB DDR3L SDRAM</li> <li>• Internal storage (Max): 128 GB SSD</li> <li>• Screen size (Diagonal) &amp; orientation (Primary): 10.1-inch (257mm), Landscape, sunlight-viewable</li> <li>• Screen resolution &amp; type: 1920 x 1200 WUXGA, Colour TFT</li> <li>• Size (length x width x depth): 270mm x 188mm x 19mm</li> <li>• Batteries: 11.1V, 4200mAh Li-Ion</li> <li>• Battery life: 14 hours</li> </ul> <u><b>Environmental Specifications</b></u> <ul style="list-style-type: none"> <li>• Dust / Water resistance: IP65</li> <li>• Shock resistance: 1.8m MIL-STD-810G</li> <li>• Operation temperature: -10°C to + 50°C</li> <li>• Storage temperature: -20°C to + 60°C</li> <li>• Military standard (MIL.-STD): 810G</li> </ul> <u><b>Connectivity</b></u> <ul style="list-style-type: none"> <li>• USB host: 1 x USB 3.0 &amp; 1 x USB 2.0</li> <li>• Power jack: Yes</li> <li>• Audio jack: Yes</li> <li>• Integrated Bluetooth®: Yes</li> <li>• Integrated WLAN: Yes</li> <li>• Integrated modem (GSM/UMTS, CDMA): Yes</li> <li>• Robotic total station compatible: Yes</li> </ul> <u><b>User Interface</b></u> <ul style="list-style-type: none"> <li>• Touch screen: Yes</li> <li>• On screen keyboard: Yes</li> <li>• Keypad type: Pop up keypad</li> <li>• Number of keys: 7</li> </ul> <u><b>Integrated Peripherals</b></u> <ul style="list-style-type: none"> <li>• Camera: Rear: 8 megapixel with auto focus Front: HD-Video with 720 pixel (Images 1.3 megapixel)</li> <li>• Flash: Yes</li> <li>• Accelerometer: Yes</li> <li>• Expansion pack: Yes</li> </ul> <b>User Manual, Carry Case</b> <b>1-Year warranty and Basic Customer Care Package</b>	1
2	<b>Total Station B</b>	
2.01	<b>Total Station B</b> <b>Telescope:</b> Magnification : 30X or better	1

	<p>Image : Erect</p> <p><b>Angular Measurement:</b></p> <p>Angular Accuracy : 5" or better</p> <p>Least count : 1" or better</p> <p><b>Distance Measurement:</b></p> <p>Distance range without prism : 350mts or better</p> <p><i>Laser output in reflectorless mode</i> : <i>Class1/2/3/3R</i></p> <p>Distance Range with single Prism : 4 Kms or better (Under normal conditions)</p> <p><i>Laser output in prism mode</i> : <i>Class1 (Safe for human eye)</i></p> <p>Distance Accuracy in prism mode : 2mm ± 2ppmXD or better</p> <p>Distance Accuracy in reflectorless mode : 3mm ± 2ppmXD or better</p> <p><b>General:</b></p> <p>Display : Single face Alpha-numeric keyboard.</p> <p>Trigger Key : For quick measurement.</p> <p>Compensator : Type: Dual Axis / Range: ±6' or more.</p> <p>Battery : Rechargeable battery (Operational time approx. 20 hrs.): 1no.</p> <p>Quick charger. : 1no.</p> <p>Dust &amp; Water Proof Protection : IP66 or better.</p> <p>Optical Plummet : 3x or better</p> <p>Weight with handle &amp; battery : 5 kgs or more.</p> <p><b>Memory Management System with multiple Data Interfaces as:</b></p> <p>Internal Memory : Approx 10,000 points or more.</p> <p>Plug in memory device : USB flash memory, Support upto 8GB or more.</p> <p><b>Accessories:</b></p> <p>Aluminium Telescopic Tripod. : 1no.</p> <p>Single Prism assembly consisting of : 1no. Range Pole, Prism, Target plate, Spirit Bubble, Tripod all in carrying cases.</p> <p>Data communication software. : 1no.</p>	
<b>3</b>	<b>Differential Global Positioning System (DGPS)</b>	
<b>3.01</b>	<p><b>Differential Global Positioning System (DGPS)</b></p> <ul style="list-style-type: none"> <li>• Channels: 200 or more</li> <li>• Antenna: Multi Frequency Integrated Geodetic Antenna</li> <li>• Satellite Tracking: Capable of tracking GPS &amp; GLONASS L1 C/A Code, L1/L2 P- Code, atleast 4 SBAS</li> <li>• Accuracy:</li> <li>• Static: Horizontal: ±(3 mm + 0.5 ppm) Vertical: ±(6 mm + 1.0 ppm) or better</li> </ul>	<b>3</b>

- Kinematic: Horizontal:  $\pm (10 \text{ mm} + 1 \text{ ppm})$  Vertical:  $\pm (15 \text{ mm} + 1 \text{ ppm})$  or better  
Real Time Kinematic: Horizontal:  $\pm (10 \text{ mm} + 1 \text{ ppm})$   
Vertical:  $\pm (15 \text{ mm} + 1 \text{ ppm})$  or better
- DGPS Accuracy:  $<0.5\text{m}$
- RTK Communication: Over 300m with up to 3 simultaneous rovers
- Position Update Rate: upto 10Hz
- Memory: Internal: 2GB or more
- Communication Port: RS232, USB, Wireless connectivity
- Power: Battery / Batteries for continuous data logging - 12hrs or more.
- Dust & Water Protection: IP66 or better
- Pole Drop: 2 m or better
- Operating Temperature:  $-20$  to  $+60^{\circ}\text{C}$
- Storage Temperature:  $-30$  to  $+65^{\circ}\text{C}$
- Humidity: 100%, Condensing
- Weight:  $< 1.5\text{kg}$
- RTK Data Formats: RTCM versions 3.x, NMEA output

#### **Controller Specifications**

- Operating System: Windows Mobile 6.0 or higher
- Display: VGA touch screen day light readable Display
- Keyboard: Virtual Keyboard
- Processor: 500 MHZ or better
- Internal Memory: 256 MB or more
- Communication: Bluetooth, Serial Port, USB Port, Wi Fi, SD Card
- Dust & Water Protection: IP 66 or better

#### **Control on Board Software**

- Survey Style Configuration: Allow configuration of Static, PPK, RTK etc.
- Co-Ordinate System: Should have Datum and Projection support.
- Color Graphical Support: The software should have color graphical support to visualize work.
- Feature Coding: Should Support featuring coding
- COGO: Should Support Cogo Functionality.
- Stake Out: Should Support Graphical stakeout, not only for points but for Lines & DTM as well.
- Display: Date, Time, Memory Status, Coordinates, Satellites view, Signal to noise ratio, DOP, HDOP, VDOP
- Input: Field input of file name, antenna height and type, point ID, code, Layers and Notes.
- Background Image: Should be able to accept background image.

#### **Post Processing Software**

- Operating System: Designed to run on Microsoft Windows XP, Vista, 7, 8, 8.1 and Window 10 operating system.
- Base Line Processing: Should be capable of Baseline processing of GPS & GLONASS raw data for all Static,

	<p>Fast Static, Kinematic Stop &amp; Go, Kinematic Continuous measuring modes. Should able to handle RTK data as well.</p> <ul style="list-style-type: none"> <li>• Feature Coding: Should Support feature Coding</li> <li>• COGO: Should have COGO Functionality</li> <li>• Network Adjustment: Should be able to perform Network Adjustment using Least Square adjustment principle</li> <li>• Import Data: Should be able to import the RINEX data. Should also be able to import data &amp; precise ephemeris data via internet (IGS data)</li> <li>• Datum Conversion: Facility to compute parameters for datum conversion</li> <li>• Export: Should be capable to export data in RINEX format, GIS as well as in CAD format.</li> <li>• Job/Field Planning: Must have full mission planning software to provide full information on, and plots of: Satellite visibility PDOP &amp; GDOP Satellite azimuth &amp; elevation.</li> </ul>	
<b>4</b>	<b>Digital Theodolite</b>	
<b>4.01</b>	<p><b>Digital Theodolite</b> <b><u>Telescope</u></b></p> <ul style="list-style-type: none"> <li>• Image: Erect</li> <li>• Magnification: 30x</li> <li>• Diameter of Objective Lens (Aperture): 1.7 in (45 mm)</li> <li>• Focus Distance: 4.43 ft (1.35 m) to infinity</li> <li>• Field of View: 1 degree 30 minutes</li> <li>• Ratio of Stadia Lines: 1/100</li> <li>• Resolving Power: 3 seconds</li> <li>• Reticule Illumination: Yes, on/off button</li> </ul> <p><b><u>Angle Measurement</u></b></p> <ul style="list-style-type: none"> <li>• Minimum Reading: 1 second, 5 second, or 10 second</li> <li>• Unit of Reading/Measure: Degree / mil / gon / V%</li> <li>• Display: Dual back-lit LCD</li> <li>• Accuracy: 5 second</li> <li>• Measuring Method/Reading System: Incremental photoelectricity</li> <li>• Detection Method: Horizontal both sides, vertical single side</li> </ul> <p><b><u>Level</u></b></p> <ul style="list-style-type: none"> <li>• Plate/Tubular Bubble Vial:30 seconds/2 mm</li> <li>• Circular Bubble Vial: 8 minutes/2 mm</li> </ul> <p><b><u>General</u></b></p> <ul style="list-style-type: none"> <li>• Weight:10.14 lbs (4.6 kg)</li> <li>• Warranty:1-year Manufacturer's Warranty</li> <li>• Dimensions:6.4 x 6.1 x 13.4 in. (164 x 154 x 340 mm)</li> <li>• Protection Class:IP54</li> <li>• Tripod Thread:5/8 x 11</li> <li>• Auto Shut Off: After 30 minutes</li> </ul>	<b>2</b>

	<ul style="list-style-type: none"> <li>• Tribrach:Detachable</li> </ul> <p><b><u>Battery/Power</u></b></p> <ul style="list-style-type: none"> <li>• Power Source: NiMH rechargeable, option for 4 AA alkaline batteries</li> <li>• Approximate Battery Life:Alkaline - up to 36 hours</li> <li>• Battery Life Alert:Visible alert</li> <li>• Voltage:4.8</li> </ul> <p><b><u>Applications</u></b></p> <ul style="list-style-type: none"> <li>• 90-Degree Layout</li> <li>• Checking Angles</li> <li>• Alignment and Plumb</li> <li>• Short-Range Leveling</li> <li>• General Construction</li> <li>• Anchor Bolt Positioning</li> <li>• Steel Column Placement</li> <li>• Setting Elevations</li> <li>• Setting Lines</li> <li>• Basic Grade Work</li> </ul> <p><b><u>Display and Keypad</u></b></p> <ul style="list-style-type: none"> <li>• Type:LCD</li> <li>• Sides:Dual</li> <li>• Keys:Six-button keypad</li> <li>• Touchscreen:No</li> <li>• Backlight:Yes</li> </ul> <p><b><u>Temperature</u></b></p> <ul style="list-style-type: none"> <li>• Operating:-4°F to +122°F (-20°C to +50°C )</li> </ul> <p><b><u>Tilt Sensor/Compensator</u></b></p> <ul style="list-style-type: none"> <li>• Range:+/-3 minutes</li> <li>• Type: Verticle axis</li> <li>• Method:Automatic</li> </ul> <p><b><u>Laser Plummet</u></b></p> <ul style="list-style-type: none"> <li>• Accuracy:.06 in. at 4.9 ft (1.5mm at 1.5 m)</li> <li>• Wavelength:1mW</li> </ul>	
<b>5</b>	<b>ArcGIS Desktop Advanced (Latest Version)</b>	
<b>5.01</b>	<b>ArcGIS Desktop Advanced (Latest Version)</b> <b>With following extensions</b> <ul style="list-style-type: none"> <li>➤ 3D Analyst</li> <li>➤ ArcGIS Data Interoperability</li> <li>➤ ArcGIS Data Reviewer</li> <li>➤ ArcGIS Geostatistical Analyst</li> <li>➤ ArcGIS Network Analyst</li> <li>➤ ArcGIS Publisher</li> <li>➤ ArcGIS Schematics</li> </ul>	<b>5</b>

	<ul style="list-style-type: none"> <li>➤ ArcGIS Spatial Analyst</li> <li>➤ ArcGIS Tracking Analyst</li> <li>➤ ArcGIS Workflow Manager</li> <li>➤ ArcGIS Business Analyst</li> <li>➤ ArcGIS for Maritime: Bathymetry</li> <li>➤ ArcGIS for Aviation: Airports</li> </ul> <ul style="list-style-type: none"> <li>• Create/manage/use spatial bookmarks</li> <li>• Use map templates to standardize maps</li> <li>• Interactively set transparency for all data</li> <li>• Interactive histogram for data classification</li> <li>• Create layers or shortcuts to geographic data that store Symbology for Displaying features.</li> <li>• Thematic classifications like: Single symbol, Unique value, Match to predefined style, Graduated colors or symbols, Proportional symbols, Dot density mapping, Chart mapping including pie and bar chart, Bivariate and multivariate data rendering.</li> <li>• Should support rule based Symbology and cartographic representations of map entities.</li> <li>• The software should have Elevation data Display facility like TIN Contour with Index Contours, DEM -Hillshade with Sun Position Control, DEM-Shaded Relief Using Hillshade and Elevation, Terrain Contour with Index Contours, Terrain Face, Aspect, Elevation, Slope</li> <li>• Should support 2 D animations with time series data support and historical play back of event data.</li> <li>• Image classification like thematic classes, Individual band settings, Color maps, Contrast, Brightness.</li> <li>• Should have Image rectification tools for easily georeferencing existing scanned images.</li> <li>• Advanced drawing options for control over draw order</li> <li>• Export graphics to: Enhanced Metafile (EMF), Windows bit map (BMP), Encapsulated PostScript (EPS), Tagged image file format (TIFF), Layered</li> <li>• Portable document format (PDF), Joint Photographic Experts Group (JPEG), Computer graphics metafile (CGM), Adobe Illustrator (AI), etc.</li> <li>• Features should support file attachments, which should provide a flexible way to store additional information in any format related to your features. For example, if you have a feature representing a building, you could use attachments to add multiple photographs of the building taken from several angles, along with PDF files containing the building's deed and tax information.</li> <li>• Software should have inbuilt tools to Display Real-Time Location Points from a GPS Receiver, Dynamically Center the Map on the Current GPS</li> <li>• Point and Store GPS points in a Log File</li> <li>• All toolbars should be docakable according to user convenience.</li> </ul>	
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	<ul style="list-style-type: none"> <li>• Create layers from supported data sources including coverage feature classes; shapefiles; CAD, TIN, raster, and geodatabase feature classes; or tables containing x, y coordinates.</li> <li>• Create group layers from multiple data sources including vector overlays on top of raster data.</li> <li>• Software should have the capability to do Spatial references including the ability to customize and save the custom settings.</li> <li>• Custom file type support to view specific files should be available</li> <li>• Software should support documentation/Metadata management.</li> <li>• Software should have the capabilities to manage GIS Data and all associated files from a Single Tree View application</li> <li>• On-the-fly re-projections and transformations of the Layers should be supported</li> <li>• Set display projection of map using predefined or custom parameters (includes specifying geographic coordinate system or datum).</li> <li>• There should be a facility to Interactively Measure Distances, Areas and Feature Using Any Units, Including Custom Units in Planar and geographic co-ordinate system.</li> <li>• Facility to display Aerial, Projection and Surface distances.</li> <li>• Edit multiple layers simultaneously with Unlimited undo/redo operations.</li> <li>• Feature construction tools including: Point-and-click feature location with mouse, Streaming locations with mouse, x, y coordinate input with keyboard coordinate input with keyboard.</li> <li>• Feature edits tools including: Move, rotate, delete, copy, and paste, Reshape, Split and trim, Divide into N-parts or into specified intervals, Vertex editing (add, delete, and move), etc.</li> <li>• Create statistics &amp; various statistical operations, viz. create charts and reports, Sort tables by multiple attributes, populate values based on expression, Summarize data.</li> <li>• Should be able to plot data on the map directly from the tables.</li> <li>• Customizable look and feel (drag and drop to rearrange tools/toolbars)</li> <li>• UNICODE support for Multilanguage attributes</li> <li>• Import/Export metadata should be supported</li> <li>• Direct Read of Vector Data like Shapefiles, Coverages, Geodatabase, VPF, etc.</li> <li>• The software provider should host World level free Online 2D, 3D, Street and topographic Base map Services.</li> <li>• Should have Comparison options to compare Feature, File, Raster, Table and TIN data</li> <li>• Should have the facility to interactively change brightness, contrast, and transparency, set resampling method -</li> </ul>	
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Nearestneighbor, bilinear interpretation, and Cubic convolution of the raster database.

- Should be able to operate on Windows Vista, and Windows 7, 8, 10.
- Should have the capability to web enable the GUI based workflows and models without any customization.
- Should support publishing and encryption of GIS maps for the purpose of Viewing and Querying GIS data by multiple royalty free GIS data readers
- Perform interactive perspective viewing, including pan and zoom, rotate, tilt, and fly-through simulations with speed controls, for presentation, analysis, or export for display on the Web.
- Software should have the facility of time slider user interface controls to visualize temporal data.
- Software should be capable of authoring the layers with time information.
- Should have the capability to web enable the 3D models without any customization.
- Model real-world surface features such as buildings
- Generate three-dimensional surfaces on-the-fly from attributes
- Software should provide Raster handling tools like contrast, brightness, transparency, gamma stretch, dynamic range adjustment, ignore background value, nadir top-up, contrast stretch, display resampling method, zoom to raster resolution, swipe layer, and flicker layer
- Should have inbuilt Geo-spatial data management software along with inherent RDBMS so that multiple users can access the same object oriented Geo-spatial data.
- Interactive symbol composer.
- Software should have conflation toolset to help reconcile data from multiple sources and obtain the best possible data quality for analysis and mapping. It should be supported by tools to generate rubber sheet links and edge match links.
- Software should have advance cartographic tools like Simplify Building, Simplify Polygon, Create Cartographic Partitions and Collapse Dual Lines to Centerline.
- Software should Calculates distance and additional proximity information between the input features and the closest feature in another layer and tool should be there to write results to a new stand-alone table and supports finding more than one near feature.
- Should have tools to creates Thiessen polygons from point features
- Should have advance core analysis tools like Erase, Frequency, Identity, Point Distance, Polygon Neighbors, Symmetrical Difference
- Should Build a stereo model of a mosaic dataset, based on a user-provided stereo pair
- Should have capability to Computes 3D points from stereo

	<p>pairs and outputs a point cloud as a set of LAS files</p> <ul style="list-style-type: none"> <li>• Software should be capable to Identify inconsistent portions of the input features against target features within a search distance and should align them with the target features.</li> <li>• Software should have tool to compute the intersection between two layers and cross-tabulates the area, length, or count of the intersecting features.</li> <li>• WindowsXP, Vista, 7, 8, 8.1, 10 Professional/Home 64-bit supported</li> <li>• <b>Three years free maintenance and upgradation</b></li> <li>• <b>Free onsite training (at least for 3 days)</b></li> </ul>	
<b>6</b>	<b>ENVI (Latest Version)</b>	
<b>6.01</b>	<p><b>ENVI (Latest Version)</b>  <b>With following modules</b></p> <ul style="list-style-type: none"> <li>➤ Feature Extraction Module</li> <li>➤ DEM Extraction Module</li> <li>➤ Atmospheric Correction Module</li> <li>➤ Photogrammetry Module</li> <li>➤ NITF Module</li> <li>➤ ENVI LiDAR</li> <li>➤ ENVI for ArcGIS</li> </ul> <ul style="list-style-type: none"> <li>• Raster and vector data support:DPPDB, ECRG, GRIB-1, GRIB-2, HDF5, IAS, JPEG, JPIP, LAS,HDF4, Multi-page TIFF, NetCDF-4 DIMAP V2, USGS SDTS DEM, XWD, CADRG,CIB, DTED, ENVI raster, ER Mapper, IMG, Esri® Enterprise Geodatabase (.sde), GeoTIFF, JPEG2000, PCI, TIFF, Sensor Support: Cartosat, IRS (fast&amp; super structure), ResourceSat-1 (Fast &amp; Super Structured), ResourceSat-2 (HDF5), Deimos-1 &amp; 2, Gaofen-1, UK-DMC 1/ 2, DMC ALSAT-1,ENVISAT AATSR/ MERIS, EO-1 ALI (HDF4), DubaiSat-1 (RAW) &amp; 2, Landsat 8 (OLI &amp; TIRS), Landsat NLAPS, Landsat MRLC, RASAT, NPP VIIRS,Proba-V, TIMS, Sentinel-2, SkySat-1 &amp; 2, Google Skybox, Ziyuan-1-02C &amp; 3A, SeaWiFS, QuickBird, Worldview 1 – 2 &amp; 3, VNREDSat-1, , Beijing-1,NigeriaSat-1 &amp; 2, GeoEye, IKONOS. Video formats: Adobe Flash (f4v, flv), SWF, GIF, MOV, AVI, Google ebMMatroska (WEBM), Matroska Video(mkv), Motion JPEG (mjpeg, mjpg), Motion JPEG2000 (mj2), MPEG (mpeg, mpg, mp1, m2v, ts, mp2, mpg2, mpeg2, mpv, m2v, 3gp, 3g2, h264, mp4,mpeg4, mpg4)</li> <li>• Visualisation options: Support for files over 2 GB in size, Geographic linking &amp; Sync Views, Dynamic North Arrow &amp; Scale Bar, Geo-Point tool, image histogram modification tools, Filtering for thematic images, Visual change detection between any data types, Swipe / Blend / Flicker/ Portal, Inquire cursor and inquire box, including MGRS support, Interpolation techniques: linear or non-linear rubber sheeting, Create an unlimited number of JPEG2000 compressed images from input images with either export or</li> </ul>	<b>1</b>

	<p>direct-write.</p> <ul style="list-style-type: none"> <li>• Registration &amp; RPC Ortho-rectification: <ul style="list-style-type: none"> <li>▪ Image-to-Map &amp; Image-to-Image Registration</li> <li>▪ Interactive/Automatic Ground Control Point Generation</li> <li>▪ Subpixel Ground Control Point Location</li> <li>▪ Automatic Geo-referencing: ASTER, AVHRR,AATSR, ASAR, MERIS, MODIS, Radarsat, SeaWiFS, SPOT, Cosmo-SkyMed</li> <li>▪ Ortho-rectification (RPCs): Aerial Photographs (Digital and Frame), ASTER, CARTOSAT-1, Generic Pushbroom Sensors, IKONOS, OrbView-3, GeoEye-1, Worldview, FORMOSAT-2, Kompsat-2, Quickbird, SPOT 1-5, RapidEye</li> <li>▪ Replacement Sensor Model (RSM)</li> <li>▪ Guided Workflow for Ortho-rectification (RPCs)</li> <li>▪ Rotated Projections</li> <li>▪ Warping Methods: Delaunay Triangulation, Polynomial, Rotation, Scaling, Translation (RST)</li> <li>▪ Support more than 55 projections</li> <li>▪ Support more than 45 spheroids and 200 datum's</li> <li>▪ Capabilities to add more spheroids and datum's</li> </ul> </li> <li>• Pre-processing &amp; Calibration: Apply Gain &amp; Offset, Bad Band Identification, Bad Line Replacement, Bad Pixel Replacement, Cross-Track Illumination Correction, Dark Subtraction, Destripe Data, Empirical Line Calibration, ERS and Radarsat Data Calibration, Emissivity calculation, Flat Field Calibration, Ignore Pixel Value, InternalAverage Relative Reflectance correction, Calibration, Log Residuals, MODIS Bowtie Correction, Thermal Atmospheric Correction</li> <li>• WindowsXP, Vista, 7, 8, 8.1, 10 Professional/Home 64-bit supported</li> <li>• <b>Three years free maintenance and upgradation</b></li> <li>• <b>Free onsite training (at least for 3 days)</b></li> </ul>	
<b>7</b>	<b>ERDAS IMAGINE (Latest Version)</b>	
<b>7.01</b>	<p><b>ERDAS IMAGINE (Latest Version)</b></p> <ul style="list-style-type: none"> <li>➤ IMAGINE Professional (Includes functionality of Optical and Radar Image Processing, Hyperspectral Processing, Advance Classification and Spatial Modelling) with IMAGINE Expansion pack (for advance change detection, automatic georeferencing, Radar Orthorectification)</li> <li>➤ IMAGINE Photogrammetry (LPS) and IMAGINE Terrain Editor (Stereo Editing of DTM)</li> <li>➤ ATCOR for IMAGINE</li> </ul> <ul style="list-style-type: none"> <li>• Spatial Modeler should be provided many levels of flexibility for users to implement new geoprocessing algorithms, to annotate or encrypt spatial model content, to customize ERDAS IMAGINE</li> <li>• More sensors supported for orthorectification, such as Sentinel-1 SAR data, KazEOSat-1 and -2, and GokTurk-1</li> </ul>	<b>3</b>

	<ul style="list-style-type: none"> <li>• Efficient analysis of the publicly downloadable Copernicus program through a direct-read capability for Sentinel-2 13-band data</li> <li>• New resampling technique – LaGrange</li> <li>• WCS/WMS re-write for thread safety</li> <li>• Access web services without using GeoServices Explorer</li> <li>• Display quality - Float data up to 32767 bins</li> <li>• 3D Point Cloud measurement</li> <li>• Photogrammetric Spatial Modeler Operators</li> <li>• WindowsXP, Vista, 7, 8, 8.1, 10 Professional/Home 64-bit supported</li> <li>• <b>Three years free maintenance and upgradation</b></li> <li>• <b>Free onsite training (at least for 3 days)</b></li> </ul>	
<b>8</b>	<b>eCognitionDeveloper (Latest Version)</b>	
<b>8.01</b>	<b>eCognitionDeveloper (Latest Version)</b> <ul style="list-style-type: none"> <li>• Object-based image analysis tools and algorithms</li> <li>• Analyzes raster, vector and point cloud data</li> <li>• Intuitive development environment</li> <li>• Scalable from a single desktop to enterprise production workflows</li> <li>• Software Development Kit (SDK)</li> <li>• Online access to ruleset resources</li> <li>• Windows XP, Vista, 7, 8, 8.1, 10 Professional/Home 64-bit supported</li> <li>• <b>Three years free maintenance and upgradation</b></li> <li>• <b>Free onsite training (at least for 3 days)</b></li> </ul>	<b>1</b>
<b>9</b>	<b>SPSS (Latest Version)</b>	
<b>9.01</b>	<b>SPSS (Latest Version)</b> <ul style="list-style-type: none"> <li>➤ Including SPSS Modeler and SPSS Amos</li> <li>• Comprehensive set of statistical tools</li> <li>• Easy statistical analysis</li> <li>• Integration with Open Source</li> <li>• Base edition</li> <li>• Custom Tables and Advanced Statistics add-on</li> <li>• Complex Sampling and Testing add-on</li> <li>• Forecasting and Decision Trees add-on</li> <li>• New statistics and charting capabilities</li> <li>• Support for many data sources</li> <li>• Visual analysis streams</li> <li>• Automatic data preparation</li> <li>• Automated modeling</li> <li>• A range of algorithmic methods</li> <li>• Text analytics</li> <li>• Geospatial analytics</li> <li>• Multiple deployment methods</li> <li>• On-screen model to results</li> <li>• Non-graphical modeling</li> <li>• Find unexpected relationships</li> </ul>	<b>7</b>

	<ul style="list-style-type: none"> <li>• Windows XP, Vista, 7, 8, 8.1, 10 Professional/Home 64-bit supported</li> <li>• <b>Three years free maintenance and upgradation</b></li> <li>• <b>Free onsite training (at least for 3 days)</b></li> </ul>	
<b>10</b>	<b>Desktop Computer Standard</b>	
<b>10.01</b>	<b>Desktop Computer Standard</b> <ul style="list-style-type: none"> <li>• Touch All-in-One Desktop</li> <li>• Operating system: Windows 10 Professional/Home 64-bit</li> <li>• Processor:7thGen Core i5-7400T (2.4 GHz, Turbo Boost up to 3 GHz,6 MB Cache, 64-bit, 4 Cores)</li> <li>• Memory, standard: 8 GB DDR4-2133 SDRAM (1 x 8 GB)</li> <li>• Storage (Hard drive): 1 TB 7200 rpm SATA</li> <li>• Graphics: 930MX (2 GB GDDR5 dedicated)</li> <li>• Optical disk drive: DVD-Writer</li> <li>• Display: 23.8" diagonal FHD UWVA anti-glare WLED-backlit touch screen (1920 x 1080)</li> <li>• Connectivity: Expansion slots - 2 M.2 Network interface - Integrated 10/100/1000 GbE LAN Wireless - 802.11a/b/g/n/ac (1x1) and Bluetooth® 4.2 M.2 combo</li> <li>• Ports: 2 USB 2.0; 1 USB 3.0 Type-C™; 2 USB 3.0</li> <li>• Input: Webcam - TrueVision HD camera Pointing device - Wireless Mouse (with nano dongle) Keyboard - Wireless Keyboard with volume control</li> <li>• Power supply type: 150 W external AC power adapter</li> <li>• Warranty: 3-year</li> <li>• Pre-installed software: Microsoft Office Home and Student 2016, Computer security software (30-day subscription)</li> </ul>	<b>40</b>
<b>11</b>	<b>Desktop Computer Advanced</b>	
<b>11.01</b>	<b>Desktop Computer Advanced</b> <ul style="list-style-type: none"> <li>• Touch All-in-One Desktop</li> <li>• Operating system: Windows 10 Professional/Home 64-bit</li> <li>• Processor:7th Gen Core i7-7700T (Quad core), (2.9 GHz; Turbo Boost 2.0 upto 3.8 GHz; 8 MB Smart Cache; 64-bit; AVX2, HT, VT-x)</li> <li>• Memory:16 GB PC4-17000 DDR4-2133 (17 GB/s), 2 DDR4 SODIMM Slots</li> <li>• SSD &amp;Hard Drive:128 GB M.2 SATA SSD, 2 TB SERIAL ATA III Hard drive; 600 MB/sec @ 5400 RPM</li> <li>• Graphics: 930MX (4 GB GDDR5 dedicated)</li> <li>• Optical disk drive: DVD-Writer</li> <li>• Display:23.8" Anti-Glare Touchscreen, IPS Full HD LED Display, 10-point Projected Capacitive Touchscreen, Full High Definition Display – Resolution: 1920 x 1080 (1080p); Brightness - 300 nits and Aspect Ratio – 16:9; Colour Gamut – 72%</li> <li>• Connectivity: Wired LAN - Integrated 10/100/1000 Gigabit Ethernet, Wireless LAN – Intel Dual Band Wireless – AC 3168 (802.11 ac) and PAN – Bluetooth 4.2</li> <li>• Ports: 2 USB 2.0; 1 USB 3.0 Type-C™; 2 USB 3.0</li> </ul>	<b>1</b>

	<ul style="list-style-type: none"> <li>• Input: Webcam - TrueVision HD camera Pointing device - Wireless Mouse (with nano dongle) Keyboard - Wireless Keyboard with volume control</li> <li>• Power supply type: 150 W external AC power adapter</li> <li>• Warranty: 3-year</li> <li>• Pre-installed software: Microsoft Office Home and Student 2016, Computer security software (30-day subscription)</li> </ul>	
<b>12</b>	<b>Plotter</b>	
<b>12.01</b>	<p><b>Plotter</b></p> <ul style="list-style-type: none"> <li>• A0 (36 inch) Plotter</li> <li>• Functions: Print, copy, scan</li> </ul> <p><b><u>Speed specifications</u></b></p> <ul style="list-style-type: none"> <li>• Print time line drawing (economode, A1 plain paper): 21 sec/page</li> <li>• Print speed line drawing (economode, A1 plain paper): 120 A1 prints per hour</li> <li>• Linear scan speed: Up to 6.35 cm/sec (color, 200 dpi) up to 19.05 cm/sec (grayscale, 200 dpi)</li> </ul> <p><b><u>Memory specifications</u></b></p> <ul style="list-style-type: none"> <li>• Memory: 128 GB (file processing)</li> <li>• Internal Storage - Standard, 500 GB</li> </ul> <p><b><u>Technical specifications</u></b></p> <ul style="list-style-type: none"> <li>• Print quality (best): Color: Up to 2400 x 1200 optimized dpi</li> <li>• Number of print cartridges:6 (cyan, gray, magenta, matte black, photo black, yellow)</li> <li>• Ink types: Dye-based (C, G, M, pK, Y)/ pigment-based (mK)</li> <li>• Non-printable area (cut-sheet):3 x 22 x 3 x 3 mm</li> <li>• Guaranteed minimum line width: 0.07 mm (ISO/IEC 13660:2001(E))</li> <li>• Line accuracy: ±0.1%</li> <li>• Maximum optical density (black): 6 L* min/2.15 D</li> <li>• Scan resolution, optical: Up to 600/1200 dpi</li> <li>• Scanner type: Sheetfed, CIS (Contact Image Sensor)</li> <li>• Scan size, maximum: 914 x 8000 mm (JPEG), 914 x 12,000 mm (TIFF) (Files no bigger than 2 GB), 610 x 18,000 mm (TIFF) (Files no bigger than 2 GB)</li> <li>• Copy reduce / enlarge settings: 25 to 400%</li> <li>• Copies, maximum: Up to 99 copies</li> </ul> <p><b><u>Paper handling</u></b></p> <ul style="list-style-type: none"> <li>• Finished output handling: Input: two automatic front-loading roll feedsmart roll switching sheet feed Output: integrated output stacking tray (from A4/A to AO/E, with up to 50 A1/D-size capacity) media bin automatic cutter Scanner: straight-through scan paper path for sheet and</li> </ul>	<b>1</b>

	<p>cardboard originals</p> <ul style="list-style-type: none"> <li>Media types: Bond and coated paper (bond, coated, heavyweight coated, super heavyweight plus matte, colored), technical paper (natural tracing, translucent bond, vellum), film (clear, matte, polyester), photographic paper (satin, gloss, semi-gloss, matte, high-gloss), backlit, self-adhesive (two-view cling, indoor paper, polypropylene, vinyl)</li> <li>Media weights, recommended: 60 to 328 g/m<sup>2</sup></li> <li>Media sizes standard (metric rolls): 210 to 914-mm wide sheets 279 to 914-mm rolls</li> <li>Media sizes, custom: 210 x 279 to 914 x 1219 mm</li> <li>Roll external diameter: 140 mm</li> <li>Media thickness: Up to 19.7 mil</li> </ul> <p><b><u>Connectivity</u></b></p> <ul style="list-style-type: none"> <li>ePrint capability: Yes</li> <li>Printing path: Direct printing from USB flash drive, email printing</li> <li>Connectivity, standard: Gigabit Ethernet</li> </ul> <p><b><u>Power and operating requirements</u></b></p> <ul style="list-style-type: none"> <li>Power consumption: 120 watts (printing/scanning) 1.3 watts (5 watts with embedded Digital Front End) (sleep)</li> <li>Operating temperature range: 5 to 40°C</li> </ul> <p><b><u>Warranty</u></b></p> <ul style="list-style-type: none"> <li>1-Year Warranty</li> </ul>	
<b>13</b>	<b>Laser Printer Monochrome</b>	
<b>13.01</b>	<p><b>Laser Printer Monochrome</b></p> <ul style="list-style-type: none"> <li>Print speed black: Up to 14 ppm</li> <li>Print technology: Laser, Processor speed: 234 MHz</li> <li>Connectivity: Hi-Speed USB 2.0 port</li> <li>Memory: 2 MB</li> <li>Supports duplex printing</li> <li>Warranty: 1-Year</li> </ul>	<b>4</b>
<b>14</b>	<b>Laser Printer Colour</b>	
<b>14.01</b>	<p><b>Laser Printer Colour</b></p> <ul style="list-style-type: none"> <li>Print speed black: Normal: Up to 20 ppm</li> <li>Print speed color: Normal: Up to 20ppm</li> <li>Print quality black (best): Up to 600 x 600 dpi</li> <li>Print quality color (best): Up to 1200 x 1200 dpi</li> <li>Print Resolution Technologies: ImageRET 3600</li> <li>Duty cycle (monthly, A4): Up to 40,000 pages</li> <li>Direct print : From USB – Supported file type Tiff,JPG,PDF&amp; XPS</li> <li>Print technology: Laser with network</li> <li>Processor speed: 800 MHz</li> </ul>	<b>1</b>



	<ul style="list-style-type: none"> <li>• Display: 5" color graphic screen</li> <li>• Connectivity: Mobile printing capability, wireless capability, high speed USB port</li> <li>• Compatible operating systems: Windows® 10, 8.1, 8, 7: 32-bit or 64-bit</li> <li>• Memory: 2 GB</li> <li>• Paper handling input, standard: 550-sheet input tray</li> <li>1-sheet priority tray</li> <li>• Paper handling output, standard: 250-sheet output bin</li> <li>• Maximum output capacity (sheets): Up to 600 sheets (10 mm stack height)</li> <li>• Duplex printing: Yes</li> <li>• Media sizes supported: Letter, Legal, Executive, A3,A4, A5, A6, B5 (JIS), B6(JIS), Postcard(JIS), Double Postcard(JIS), Envelope #10, Envelope Monarch, Envelope B5, Envelope C5, Envelope DL, A5-R</li> <li>• Power consumption: 1.5kva</li> <li>• Energy efficiency: ENERGY STAR® certified</li> </ul>	
<b>15</b>	<b>Flatbed Scanner</b>	
<b>15.01</b>	<b>Flatbed Scanner</b> <ul style="list-style-type: none"> <li>• Operating System: MacOS 9.1, MacOS X, Windows 98/2000/ME/XP/7/8/10</li> <li>• Processor Type: Pentium II, PowerPC</li> <li>• Processor Speed: 233 Hz</li> <li>• Min RAM Size: 64 MB</li> <li>• Min Hard Drive Space: 225 MB, 240 MB</li> <li>• Power Consumption: 17 Watt</li> <li>• External power adapter</li> <li>• Optical Resolution: 1200 dpi x 1200 dpi</li> <li>• Type:Flatbed scanner</li> <li>• Interface: USB</li> <li>• Connector Type: Type B</li> <li>• Scanner Speed Details: 12 sec/scan - preview 45 sec/scan - OCR - A4 45 sec/scan - color - 10x15cm</li> <li>• Interface Type: USB</li> <li>• Form Factor:Desktop</li> <li>• Input Type:Color</li> <li>• Scan Element Type: CCD</li> <li>• Document Size Class: A4/Letter</li> <li>• Max Supported Document Size: 8.5 in x 11.7 in</li> <li>• Max H-Document Size: 8.5 m</li> <li>• Max V-Document Size: 11.7 m</li> <li>• Grayscale Depth: 8-bit (256 gray levels)</li> <li>• Color Depth: 48-bit color</li> <li>• Max H-Optical Resolution: 1200 dpi</li> <li>• Max V-Optical Resolution: 1200 dpi</li> </ul>	<b>4</b>

	<ul style="list-style-type: none"> <li>• Supported Document Type:Plain paper</li> <li>• Document Feeder Type:Manual</li> <li>• Control Panel Buttons Functions:Copy, scan</li> </ul>	
<b>16</b>	<b>Handheld GPS</b>	
<b>16.01</b>	<b>Handheld GPS</b> <ul style="list-style-type: none"> <li>• Display resolution: 240 x 320 pixels</li> <li>• Display type:2.2-inch transfective, 65K colour,sunlight-readable display</li> <li>• Battery:2 AA batteries</li> <li>• Battery life:25 hours</li> <li>• Waterproof: IPX7</li> <li>• PC interface:USB</li> <li>• Built-in memory:3.7 GB</li> <li>• Expandable internal memory</li> <li>• Accepts data cards:microSD data card</li> <li>• Antenna type:Internal</li> <li>• Electronic compass: 3-axis</li> <li>• Barometric altimeter</li> </ul>	<b>5</b>
<b>17</b>	<b>Interactive Whiteboard Display</b>	
<b>17.01</b>	<b>Interactive Whiteboard Display</b> <ul style="list-style-type: none"> <li>• Screen Size (diagonal): 75"</li> <li>• Active Display Area (mm): 1650.24(H) x 928.26(V)</li> <li>• Resolution: 3840 x 2160 (QWUXGA)</li> <li>• Aspect Ratio: 16:9</li> <li>• Display Colors: 1.07B</li> <li>• Brightness (cd/m<sup>2</sup>; typ.): 450</li> <li>• Contrast Ratio: 5000:1</li> <li>• Response Time (ms; GTG): 6</li> <li>• Viewing Angle: 178°/178°</li> <li>• Lifetime (hours): 35,000</li> <li>• Backlight type: LED</li> <li>• Touch Screen</li> <li>• Touch Accuracy (typ.): ±5mm</li> <li>• Resolution: 32767 x 32767</li> <li>• Response Rate: 125 rps</li> <li>• Touch Method: Pointer including fingers</li> <li>• Multi-Touch: 4 point</li> <li>• Interface: USB 2.0 compatible (full speed), HID compatible, Plug &amp; Play compatible</li> <li>• Detection Method: Optical Image Sensors</li> <li>• Operating Systems: Windows XP / Vista / 7 / 8, Linux 2.6X and above,Mac OSX 10.4 and above</li> <li>• Monitor Resolution: 3840 x 2160 (QWUXGA)</li> <li>• Input: <ul style="list-style-type: none"> <li>1 x DP (1.2)</li> <li>1 x HDMI (2.0)</li> <li>3 x HDMI (1.4)</li> <li>2 x USB</li> </ul> </li> <li>• Output:</li> </ul>	<b>1</b>

	<p>Speaker (10W x 2CH) Audio (Line out)</p> <ul style="list-style-type: none"> <li>• Input Voltage: 100 – 240V AC</li> <li>• Power consumption: 310 W</li> <li>• Tempered Glass (Anti glare): Yes</li> <li>• Auto Power Control: Yes</li> <li>• Auto Brightness Sensor: Yes</li> <li>• Temperature (°C): 0 - 40</li> <li>• Humidity (%): 20 - 80</li> <li>• Wall Mounting (WxH), mm: 800 x 400 / 800 x 600 (M8)</li> </ul>	
<b>18</b>	<b>Projector</b>	
<b>18.01</b>	<p><b>Projector</b></p> <ul style="list-style-type: none"> <li>• Projection System: 3LCD Technology, RGB liquid crystal shutter; with remote controlled screen</li> <li>• LCD Panel: 0.55 inch with MLA (D10)</li> <li>• Colour Light Output: 3,600 Lumen- 2,235 Lumen (economy)</li> <li>• White Light Output: 3,600 Lumen - 2,235 Lumen (economy)</li> <li>• Resolution: XGA, 1024 x 768, 4:3</li> <li>• Aspect Ratio: 4:3</li> <li>• Contrast Ratio: 15,000 : 1</li> <li>• Light source: Lamp</li> <li>• Lamp: UHE, 210 W, 6,000 h durability, 10,000 h durability (economy mode)</li> <li>• Keystone Correction: Auto vertical: <math>\pm 30^\circ</math>, Manual horizontal <math>\pm 30^\circ</math></li> <li>• Colour Processing: 10 Bits</li> <li>• 2D Vertical Refresh Rate: 100 Hz - 120 Hz</li> <li>• Colour Reproduction: Upto 1.07 billion colours</li> <li>• Projection Ratio: 1.48 - 1.77:1</li> <li>• Zoom: Manual, Factor: 1.2</li> <li>• Lens: Optical</li> <li>• Image Size: 30 inches - 300 inches</li> <li>• Projection Distance Wide/Tele: 1.8 m - 2.17 m (60-inch screen)</li> <li>• Projection Lens F Number: 1.49 - 1.72</li> <li>• Focal Distance: 16.9 mm - 20.28 mm</li> <li>• Focus: Manual</li> <li>• Offset: 8:1</li> <li>• USB Display Function: 2 in 1: Image / Mouse</li> <li>• Interfaces: Wireless LAN IEEE 802.11b/g/n (optional), Cinch audio in, Composite in, HDMI in, VGA in, USB 2.0 Type B, USB 2.0 Type A</li> <li>• The iProjection application to enables a wireless connection for projecting images and files from smart devices</li> <li>• With the control of a host PC, up to 50 terminals</li> <li>• Multi-PC projection to a single projector connectivity</li> <li>• Security: Kensington lock, Security cable hole, Wireless</li> </ul>	<b>3</b>

	<p>LAN unit lock, Password protection</p> <ul style="list-style-type: none"> <li>• 2D Colour Modes: Dynamic, Cinema, Presentation, sRGB, Blackboard</li> <li>• Features: AV mute slide, Automatic keystone correction, Built-in speaker, Horizontal and vertical keystone correction, Long lamp life, Quick Corner</li> <li>• Video Colour Modes: Blackboard, Cinema, Dynamic, Presentation, sRGB</li> <li>• Energy Use: 282-Watt, 203 Watt (economy), 0.2 Watt (standby)</li> <li>• Supply Voltage: AC 100 V - 240 V, 50 Hz - 60 Hz</li> <li>• Product dimensions: 302Width x Depth x )mm 82x 237x (Height)</li> <li>• Noise Level: Normal: 37 dB (A) - Economy: 28 dB (A)</li> <li>• Temperature: Operation 5° C - 35° C, Storage -10° C - 60° C</li> <li>• Humidity: Operation 20% - 80%, Storage 10% - 90%</li> <li>• Options: Air filter</li> <li>• Loudspeaker: 2 Watt</li> <li>• Includes: - Power Cable: 1.8m, Computer Cable (VGA Cable): 1.8m, USB Cable (Type A/B): 1.8m, Remote Control with Alkaline AA Battery x 2, Soft Carrying Case.</li> <li>• Warranty: 1-Year on Projector and 3-Months on projector lamp.</li> </ul>	
<b>19</b>	<b>Air Conditioner</b>	
<b>19.01</b>	<p><b>Air Conditioner</b></p> <ul style="list-style-type: none"> <li>• Refrigerant:R-22</li> <li>• Remote Control: Yes</li> <li>• Cooling Capacity: 1774 W</li> <li>• Star Rating: 5</li> <li>• Type: Split</li> <li>• Capacity in Tons: 2 Ton</li> <li>• Colour: White</li> <li>• Cooling and Heating: No</li> <li>• Operating Modes: LCD Remote, Lock, Reset, Backlight, Swing</li> <li>• Compressor: High EER Scroll</li> <li>• Connecting Pipe Length: 4 M</li> <li>• Connecting Pipe Type: Cu – Cu</li> <li>• Indoor Noise Level: 50</li> <li>• Connecting Cable: 4 M</li> <li>• Copper Tubes: Inner Grooved</li> <li>• Air Vent: Cross Flow</li> <li>• Indoor Air Flow Volume: CMH 980 / 890</li> <li>• Sleep Mode: Yes</li> <li>• Timer: Yes</li> <li>• Auto Restart: Yes</li> <li>• Self-Diagnosis: Yes</li> <li>• Body and Design Features: Hydrophilic Aluminium Fin</li> </ul>	<b>2</b>

	<ul style="list-style-type: none"> <li>• Air Flow Features: Air Flow Volume: 1080 CMH</li> <li>• Dust Filter: Yes</li> <li>• Other Filter Features: Silver Ion, Ionizer</li> <li>• Active Carbon Filter: Yes</li> <li>• Power Requirement: AC 230 V, 50 Hz</li> <li>• Power Consumption: 1774 W</li> <li>• Operating Current: 7.9 A</li> <li>• Other Power Features: Rated Cooling Capacity: 6300 W</li> <li>• Turbo Mode: Yes</li> <li>• EER: 4 W/W</li> <li>• Panel Display: LED</li> <li>• Night Glow Buttons on Remote: Yes</li> <li>• Services: Two Free Services of AC within Warranty Period on Demand</li> <li>• Warranty: 1-year comprehensive; 5-years on compressor</li> </ul>	
<b>20</b>	<b>UPS</b>	
<b>20.01</b>	<p><b>UPS</b> 15 KVA, Battery 120AH Required For 3 Hr. Backup – 30 nos. battery @ 11750.00 each ( Exide/Base/Quanta)</p> <p><b>Key Features</b></p> <ul style="list-style-type: none"> <li>• True Online Double Conversion Technology</li> <li>• High End IGBT based</li> <li>• High End Micro Controller</li> <li>• Automatic Battery Charging in UPS Off Mode</li> <li>• Wide Input Voltage Range</li> <li>• Advanced Battery Management</li> <li>• Short Circuit and Overload Protection</li> <li>• Hot Standby (Optional)</li> <li>• Galvanic Isolation(Available at Output)</li> <li>• 3 Phase In ~ 3 Phase Out</li> <li>• Specially Designed to Suit Indian Power and Environment Conditions</li> <li>• Generator Compatible</li> <li>• Over Temperature Protection</li> </ul>	<b>1</b>
<b>21</b>	<b>Axis Pocket Transit Compass</b>	
<b>21.01</b>	<p><b>Axis Pocket Transit Compass</b></p> <ul style="list-style-type: none"> <li>• For measuring strike, dip, lineation, foliation etc.</li> <li>• Dual-axis for every angle, every direction</li> <li>• Hollow hinge for efficient, accurate measurements</li> <li>• Bubble Level</li> </ul>	<b>2</b>
<b>22</b>	<b>Pocket Transit Geo Compass</b>	
<b>22.01</b>	<p><b>Pocket Transit Geo Compass</b></p> <ul style="list-style-type: none"> <li>• For measuring strike, dip, lineation, foliation etc.</li> <li>• Housing Material: Aluminum</li> <li>• Adjustable Declination</li> <li>• Sighting Hole</li> <li>• Sighting Mirror</li> <li>• Bubble Level</li> </ul>	<b>2</b>
<b>23</b>	<b>Pocket Stereoscope</b>	

<b>23.01</b>	<b>Pocket Stereoscope</b> <ul style="list-style-type: none"> <li>• Adjustable very high-quality Pocket Stereoscope for reading aerial photograph</li> <li>• Manufactured with latest technology</li> <li>• Materials: Tough, Metallic</li> <li>• Legs: High Grade Stainless steel</li> <li>• Lenses: Crown glass lenses</li> <li>• Magnification:4x</li> <li>• Carry Case: Wooden container</li> <li>• Weight: Light</li> </ul>	<b>50</b>
<b>24</b>	<b>Mirror Stereoscope</b>	
<b>24.01</b>	<b>Mirror Stereoscope</b> <ul style="list-style-type: none"> <li>• Materials: Tough, Metallic</li> <li>• Mirrors: Surface coated long lasting chrome mirrors for crystal clear images</li> <li>• Magnification:4X Binocular, Eyepiece: 2.75 dioptre X 8mm.Field of view 12.5 degrees. 1.2X Eyepiece: Plano convex lenses. Crown Glass lenses. The interocular distance in the binocular viewer have to be adjustable from 54 mm to 74 mm. The eye pieces of the binocular viewer should be individual focusing type with dioptic setting upto + dioptries.</li> <li>• Size In use: 210mm high, 170mm wide and 590mm long</li> <li>• Coverage: Covers the entire 60% overlap of aerial photos</li> <li>• Parallax wedge: 5 scales around edges and allows measurement of irregular shapes and height</li> <li>• Carry Case: Plastic/wooden container</li> <li>• Weight: Light</li> </ul>	<b>5</b>
<b>25</b>	<b>Sound Level Meter</b>	
<b>25.01</b>	<b>Sound Level Meter</b> <ul style="list-style-type: none"> <li>• Measurement ranges: 30 to 100 and 60 to 130 dB Noise floor &lt; 33dB(A)</li> <li>• Time weightings: Fast, Slow, Impulse Freq. Weightings A and C</li> <li>• Battery power: 3 x AA Alkaline for &gt;35 hours operation</li> <li>• External power: 5V via USB Mini B socket</li> <li>• Dimensions: 72 x 212 x 31mm, 245g</li> <li>• Tripod mount 1/4" socket</li> <li>• AC output 0.85V RMS @ FSD "A" weighted</li> <li>• DC output 0 to 3.3V DC for FSD on selected range (FOC option)</li> <li>• Operating conditions RH: 5 to 90% (non-condensing)</li> <li>• Temperature: 0 to 40°C</li> <li>• Atmos. pressure 65 to 108kPa</li> </ul>	<b>1</b>
<b>26</b>	<b>Abney's Level</b>	

<b>26.01</b>	<b>Abney's Level</b> <ul style="list-style-type: none"> <li>Graduated 0 to <math>\pm 100'</math> (topo), 0 to <math>\pm 25</math> (chain corr.), 0 to <math>\pm 60^\circ</math>, 0 to 150% on two interchangeable scale rings. No vernier. Scale pointer has fine adjustment with turn of small thumbscrew; locks with turn of large thumbscrew. Eyepiece slides out to focus bubble. 6-1/2"L. Flat base, brass tube with aluminum arc. Carrying case has belt loop, snap closure.</li> </ul>	<b>10</b>
<b>27</b>	<b>Digital Planimeter</b>	
<b>27.01</b>	<b>Digital Planimeter</b> <ul style="list-style-type: none"> <li>Max. measuring range: 325mm vertical; 30m horizontal Accuracy: within <math>\pm 0.2\%</math> (within <math>\pm 2/1000</math> pulses)</li> </ul>	<b>2</b>
<b>28</b>	<b>Flow Meter</b>	
<b>28.01</b>	<b>Flow Meter</b> <ul style="list-style-type: none"> <li>For measuring water current</li> <li>8011 series High Impact Styrene Impeller; 125mm diameter by 270mm pitch ; 0.03 to 10m/s ; <math>\pm 1.5\%</math> of reading above 0.15m/s; 5m/s <math>\pm 0.004</math>m/s below 0.15m/s</li> </ul>	<b>1</b>
<b>29</b>	<b>Showcase Furniture</b>	
<b>29.01</b>	<b>Showcase Furniture</b> <ul style="list-style-type: none"> <li>High Quality cold rolled steel plate; Thickness 0.4-1.2 mm. Lock facility with five layers</li> </ul>	<b>4</b>
<b>30</b>	<b>Steel Almirah</b>	
<b>30.01</b>	<b>Steel Almirah</b> <ul style="list-style-type: none"> <li>Roayl Ivory coloured , 70 Kg, 48.8 x 91.4 x 198.1 cm Steel Standard Almirah</li> </ul>	<b>4</b>
<b>31</b>	<b>Steel Racks</b>	
<b>31.01</b>	<b>Steel Racks</b> <ul style="list-style-type: none"> <li>Height 12-inch X 36 inch X 78 inch, 5 levels, 20 Gauge, 14 Gauge angle</li> </ul>	<b>2</b>
<b>32</b>	<b>Office Furniture</b>	
<b>32.01</b>	<b>Office Furniture</b> <ul style="list-style-type: none"> <li>Best wooden/iron, chairs/workstation</li> <li>Webbing / PU Foam &amp; Upholstery Fabric, Durable structure, leatherite and ergonomical design, comfortable armrest, Leatherette finish with Neo-classical style</li> </ul>	<b>1</b>
<b>33</b>	<b>Conference Table</b>	
<b>33.01</b>	<b>Conference Table</b> Melamine Faced Particle Board, knockdown design, Six seater	<b>1</b>
<b>34</b>	<b>SOI Topographical Map</b>	
<b>34.01</b>	<b>SOI Topographical Map (Scale 1: 25,000)</b> <ul style="list-style-type: none"> <li>Mountainous, hilly, plateau and plain area</li> <li>Year of publication: 1970s and/or 1930s</li> </ul>	<b>100</b>
<b>34.02</b>	<b>SOI Topographical Map (Scale 1: 50,000), OSM</b> <ul style="list-style-type: none"> <li>Mountainous, hilly, plateau and plain area</li> <li>Year of publication: 2010 (UTM WGS 84)</li> </ul>	<b>100</b>
<b>34.03</b>	<b>SOI Topographical Map (Scale 1: 50,000)</b>	<b>100</b>

	<ul style="list-style-type: none"> <li>• Mountainous, hilly, plateau and plain area</li> <li>• Year of publication: 1970s and/or 1930s</li> </ul>	
<b>34.04</b>	<b>SOI Topographical Map (Scale 1: 250,000)</b> <ul style="list-style-type: none"> <li>• Mountainous, hilly, plateau and plain area</li> <li>• Year of publication: 1970s and/or 1930s</li> </ul>	<b>100</b>
<b>35</b>	<b>Aerial Photograph (Stereopair)</b>	
<b>35.01</b>	<b>Aerial Photograph (Stereopair)</b> <ul style="list-style-type: none"> <li>• Stereoscopic view</li> <li>• Color and B/W both</li> <li>• Mountainous, hilly, plateau and plain area</li> <li>• Diversified landscape</li> </ul>	<b>50-Set Stereo pair</b>
<b>36</b>	<b>Digital Vernier Caliper</b>	
<b>36.01</b>	<ul style="list-style-type: none"> <li>• Material: Stainless steel.</li> <li>• Overall Size (L x W): Approx.235mm x 16mm / 9.25 x 0.63 inch</li> <li>• Head Width: Approx.75mm/ 2.95inch</li> <li>• Maximum Measurement: Approx. 150mm / 5.9 inch</li> <li>• mm/inch conversion switch, zero calibration switch for convenient operation.</li> <li>• Internal, external and height dimensions can be easily and accurately measured.</li> <li>• Adjustable thumbscrew to locks the jaws of the caliper in place.</li> <li>• Easy to read LCD display.</li> <li>• Powered by 1 Button Cell.</li> <li>• One year warranty.</li> </ul>	<b>10</b>
<b>37</b>	<b>3D Laser Scan Station</b>	
<b>37.01</b>	<b>3D Laser Scan Station</b> <p><b>Distance measurement system</b></p> <ul style="list-style-type: none"> <li>• Maximum range: 120 m</li> <li>• Maximum scan rate 1 Mio Pts/sec</li> <li>• Resolution setting: 0.8 mm to 50 mm at 10 m</li> <li>• Laser class: 1</li> <li>• Dual axis compensator: Yes</li> </ul> <p><b>Imaging system</b></p> <ul style="list-style-type: none"> <li>• Internal camera: Yes</li> <li>• HDR: Yes</li> <li>• External camera: Optional</li> </ul> <p><b>Environmental</b></p> <ul style="list-style-type: none"> <li>• Operating temperature: -20° C to +50° C</li> <li>• Solid particle/liquid ingress protection: IP54</li> <li>• Survey/ Setup functionality</li> <li>• Quick orientation: Yes</li> <li>• Set azimuth: Yes</li> <li>• Know backsight: Yes</li> <li>• Resection: Yes</li> <li>• Auto resection: Yes</li> </ul>	<b>1</b>



	<ul style="list-style-type: none"> <li>• Traverse: Yes</li> </ul> <p><b>General Functionality</b></p> <ul style="list-style-type: none"> <li>• Onboard target acquisition: Yes</li> <li>• Check &amp; Adjust: Yes</li> <li>• One button scan control: Yes</li> <li>• Scan area definition from video or scan: Yes</li> <li>• Batch job scanning: Yes</li> </ul> <p><b>Laser Scanner Includes</b></p> <ul style="list-style-type: none"> <li>• Carrying case, Tribraich, 4x Battery, Charger, Cable, Quick ScanStation, USB stick ScanStation, Cyclone 1x CD, 1-year contract CCP Basic</li> </ul> <p><b>Warranty: 2-Year manufacturing warranty</b></p>	
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**1. General Instructions:**

In the event of e-tendering, intending bidder may download the tender documents from the website: <https://wbtenders.gov.in> directly with the help of Digital Signature Certificate(DSC) or from the Cooch Behar PanchananBarmaUniversity website [www.cbpbu.ac.in](http://www.cbpbu.ac.in).

**2. Submission of bids:**

Both Technical Bid and Financial Bid are to be submitted concurrently duly digitally signed by the Company personnel who is in the pay roll of the Company (having Authorization from the Company management) in the website <https://wbtenders.gov.in>. All papers must be submitted in English language.

**3. Time Schedules for the e-tender:**

The Time Schedule for obtaining the Bid Documents, Pre-Bid meetings, the submission of bids and other documents etc. will be as per the list provided in Clause No. 10 given below.

**4. Eligibility for Quoting:**

Manufacturers or Dealers/Distributors/Agents duly authorised by the manufacturers who are able to supply the assured quantities as per requirement & have requisite Annual Average Turnover, as per clause no. 5, are only eligible for quoting. Manufacturers not having the capability to supply the required quantity solely need not apply. Failure of submission of declaration of full supply may lead to cancellation of tender.

Further, vendors who were declared black listed and/or insolvent by any Govt. Concern/any Institutions in the Country for particular item or items are not eligible to participate in the current tender for that item or items.

Vendors must have trade license within West Bengal in case of all the items to be purchased with supply experience in educational institutions.

Vendors must have trade license with ISO 9001:2015 and EPN registered partner (in case of ArcGIS and ENVI) with supply experience in educational institutions.

**Annual Turnover Requirements:**

Vendors having average annual Turn Over for last three financial years are more than Rs.50 lakh in India or equivalent foreign currency in the respective foreign

country for the year 2014-15, 2015-16& 2016-17 are eligible to participate in the Tender.

## 5. Submission of Tenders

### 5.1 General process of submission

Tenders are to be submitted online through the website stated in Clause 1. All the documents uploaded by the Tender Inviting Authority form an integral part of the contract. Tenderers are required to upload all the tender documents along with the other documents, as asked for in the tender, through the above website within the stipulated date and time as given in the Tender. Tenders are to be submitted in two folders at a time, one is Technical Bid and the other is Financial Bid. The tenderer shall carefully go through the documents and prepare the required documents and upload the scanned documents of originals in Portable Document Format (PDF) to the portal in the designated locations/folders of Technical Bid. He needs to fill up the BOQ in the designated cell and upload the same in designated location of Financial Bid. The documents uploaded are virus scanned and digitally signed using the Digital Signature Certificate (DSC). Tenderers should specially take note of all the addendum/corrigendum related to the tender till the bid submission ends. Tenderers should in general upload the latest documents as part of the tender, however, in case of failure in uploading such documents, it will be deemed that they (tenderers) have taken note of such latest documents including addendum/corrigendum, if published till the bid submission ends.

### 5.2 Technical Bid

The Technical Bid should contain scanned copies and/or declarations in the following standardised formats in two covers (folders):

- I. Technical File (Statutory Cover) containing:
  1. **Notice Inviting Tender (NIT)** – The NIT as published is to be downloaded and then uploaded the same digitally signed (*to be submitted in “NIT” folder*).
  2. **Annexure** –
    - a) Basic Information (Vide Annexure I) (*to be submitted in “Annexure” folder*)
    - b) Application for Tender - (Vide Annexure II) (*to be submitted in “Annexure” folder*)
    - c) Authorization letter - (Vide Annexure III) (*to be submitted in “Annexure” folder*)
    - d) Affidavit Proforma - (Vide Annexure IV) (*to be submitted in “Annexure” folder*)
  3. Technical details of the Items Quoted (Bidders must submit Technical specification along with Catalogue of the item quoted in **“Technical Details”** Folders.
  4. Bidder must submit Audited Balance Sheet and Profit and loss Account for last 3 (three) financial year namely 2013-14, 2014-15& 2015-16 in **“Accounts”** folder.

**Note: Tenders will be summarily rejected if any item in the statutory cover is missing.**

II. My Document (Non-Statutory Cover) containing as follows:

Sl. No.	Category	Sub-Category	Sub-Category Description
1	Certificates	Certificates	PAN Card of the Bidder
			VAT/ CST /GST Registration Certificate
			Exemption Certificate for paying EMD for the current financial year (if any)
2	Company Details	Company Details 1	Trade Licence/Enlistment Certificate
			Registration with Registrar of Companies
			Memorandum of Articles for Limited Companies.
3	Credential	Credential 1	<p>a) Copy of the purchase order for supplying Similar nature of items at least for last 2 years in an Institute of Higher Learning</p> <p>b) Brief User List preferably for users in West Bengal in an Institute of Higher Learning</p>
4	Financial Information	Payment Certificate 1	Income Tax Returns submitted for the Assessment year 2013-14
			Income Tax Returns submitted for the Assessment year 2014-15
			Income Tax Returns submitted for the Assessment year 2015-16
		Payment Certificate 2	VAT/CST/GST Returns (of the last quarter) for the year 2013-14
			VAT/CST/GST Returns (of the last quarter) for the year 2014-15
			VAT/CST/GST Returns (of the last quarter) for the year 2015-16

### 5.3 Financial Bid

The Financial Bid should contain the following document in one cover (folder):

**Bill of Quantities (BOQ):** The tenderer is to fill-up the designated cell as marked by the University in the BOQ under online mode through computer for preparing their quotation and thereafter tenderer will have to upload the same after digitally signed as submission of their quotation (Only downloaded copies of the BOQ as available in the web portal are to be uploaded without changing the name of the BOQ file after virus scanned and digitally signed by the tenderer)

- The tenderers are not required to submit hard copies of Technical File (Statutory) or Mydocuments (Non-Statutory). Submission of hard copy of Financial Bid is strictly prohibited and only be submitted through on line through NIC portal.

## **7. Evaluation of the tenders**

During the tender evaluation process, the “Technical Bid” will be opened first. Those Bidders who have qualified in respect of the essential & other requirements in “Technical Bid” will be identified and their financial bid will be opened. The financial bid of those Tenderer failing to meet the technical & other requirements laid down in the tender will not be opened and be rejected. The Tenderer offering the item found suitable and as per the tender specifications will only be selected. Final selection of the lowest bidder in respect of Financial Bid is subject to further verification. The Financial Bids of only those tenderers who have been considered as Technically Qualified will be opened. If found suitable in the context of above pre-qualification etc, the Tenderer quoting the lowest rate will be considered as successful.

## **8. TERMS & CONDITIONS REGARDING PURCHASE POLICY OF TENDERING AUTHORITY:**

### **9.1 Bid Information:**

- a) Partial Quotation within the same item serial number as mentioned in BOQ and also in this NIT will not be accepted and tender will be liable for cancellation.
- b) All duties, taxes and other levies payable by the contractor under the contract shall be included in the total price but should be indicated separately in the price bid.
- c) The rate quoted by the bidder shall be fixed for the duration of the contract and shall not be subject to adjustment on any account.
- d) Currency will be made either in INR or from any of the foreign currencies like USD, GBP, EURO and JPY.

**9.2 Evaluation of Quotation:** The Purchaser will evaluate and compare the quotations determined to be substantially responsive stage wise. Firstly, Technical Bid will be evaluated based on and thereafter Price Bid for technically qualified bidders will be evaluated for selection of vendor.

**9.3 Award of Contract:** The contract shall be made item wise as per Item Serial number of the List of Items as shown in Clause 15. The purchaser will award the contract to the bidder whose quotation has been determined to be substantially responsive both technically and commercially. Purchaser reserves the right to reject any or all the tender, wholly or partly, without assigning any reason thereof and shall not be bound to accept the lowest bid.

**9.4 Warranty:** The vendor shall be fully responsible for the comprehensive onsite warranty (3/3/3-part/labour/onsite) in all respect of the equipment's, accessories etc. including spares and services for a period of three years from the date of installation. Warranty will be effective from the date of joint installation Report.

**9.5 Adequate support service facility:** The bidder/manufacturer should have adequate service support centre in Kolkata for any emergency breakdown/fault offering facility within 48 hours and should be agreeable to provide CMC facility after the warranty period.

- 9.6 **Training Facility:** User training regarding the operation of the equipment's shall be arranged by the supplier/vendor at no extra cost.
- 9.7 **Manufacturer's Authorisation:** Document in support of Manufacturer/Dealer and Service Provider has to be submitted along with the tender paper. If the bidder is not the manufacturer, proper manufacturer's authorization and warranty from manufacturer is required.
- 9.8 **Credentials:** Documents of previous experience of the job, at least 2 years, must be submitted along with the tender.
- 9.9 **DSIR Certification:** The Cooch Behar PanchananBarma University will provide the certificate at the time of purchase, if necessary.
- 9.10 **Make & Model:** Bidder must mention Make and Model in the Information Sheet as given vide Annexure-I and must send the product details/catalogue/brochure in the "Technical Details" folder.
- 9.11 **Time Schedule:** The supply and installation work must be completed within 30 days from the date of receipt of the purchase order.
- 9.12 **Validity of offer:** A bidder should spell out in the tender that it shall remain valid for a minimum period of three years from the date of opening of the tender and during this period, the bidder shall not be entitled to revoke or cancel its offer.
- 9.13 **Place of delivery:** Department of Geography, Cooch Behar PanchananBarma University, Cooch Behar -736101.
- 9.14 **Payment Schedule:** Payment be made after delivery and installation of the items.
- 9.15 **Performance Security:**  
Successful bidder should deposit Performance Security money equivalent to the 10% of the order value in the form of DD/Bank Guarantee immediately before issuing purchase order from the University. Such security will be refunded after completion of the warranty period in normal case without any accrued interest. University may forfeit the Security Money in the event of the following circumstances:
- i) Selected bidder withdraws the bid before expiry of its validity but after receipt of the Purchase Order.
  - ii) Selected bidder does not accept the order after issuing the same or fails to enter into a contract within validity period of offer.
  - iii) Selected bidder fails to supply the items within the scheduled time as specified in the Purchase Order
  - iv) If before expiry of the warranty period, the supplied items break down or do not function satisfactorily due to the cause related with the item itself or for its installation and not for any reason caused by the University Authority and the supplier denies to take the responsibility to make the supplied items in order.
  - v) In case of any false submission /statement by the bidder.
  - vi) In case of any refusal to abide by terms and conditions or refusal to enter into a written agreement as per prefixed terms and conditions.
- 9.16 **Quantity Changeability:** Quantity as stated in the tender document may subject to

change at the time of issuing purchase order due to the fund crunch or for other valid reasons.

**9.17 Requisite Documents to be submitted:** Bidder must have adequate documents relating to Trade License and updated returns for Income Tax, VAT, Audited Statement of Accounts and other documents as sought for under Clause 6.2.II of this tender.

**9.18 Turnover Criterion:** Bidder must have average annual turnover of more than Rs.50 lakh in three financial year ending 2016-17.

**9.19 Disposal of Disputes:** In case of any dispute, the University's decision will be treated as the final and conclusive. All legal actions are subject to the jurisdiction of Kolkata High Court.

**9.20 Conversion of FC Rate:** Generally, the West Bengal Government Portal is equipped enough for conversion of Foreign Currency (FC) rate into INR. In case of any problem arising out of the West Bengal Government Portal for e-tender regarding the conversion rate against foreign currencies quoted by the bidders in the BOQ, the conversion rate as existing in the official website of the Reserve Bank of India (RBI) as on the date of opening the Financial Bid will be considered for Financial Bid Evaluation.

**9.21 Discretion of the University:** University may take decision about non-purchase of the said equipment even after selection of vendor due to its fund constraints.

9.22 University may seek documents from the bidder in addition to the scanned documents sent by them at the time of uploading technical bid for verification and evaluation of tender.

9.23 University reserves the right to relax any clause as stated hereinabove for selection of responsive vendor.

#### 10. Dates & Information:

Sl.No.	Activities	Date & Time
1	Date of uploading of N.I.T. Documents in the e-tender portal of NIC : <a href="https://wbtenders.gov.in">https://wbtenders.gov.in</a>	26.12.2017
2	Documents download (Online)	26.12.2017 (from 6.30 p.m.)
3	Bid Submission Start Date (Online)	26.12.2017 (from 6.30 p.m.)
4	Bid Submission Closing Date (Online)	16.01.2018 (up to 6.30 p.m.)
5	Bid Opening Date (Online) – Technical Bid	18.01.2018 (after 6.30 p.m.)
6	Date of uploading list for technically qualified bidder (Online)	To be notified later
7	Date of opening of Financial Bid	To be notified later
8	Date of uploading of list of bidders along with the approved Rate	To be notified later

11. Opening the financial bid as per schedule mentioned.  
Financial bid can be seen & accessed by the bidder through the NIC Portal on line after opening of financial bid on line. No objections raised by any Bidder in this respect will be entertained by the University. No informal tender will be entertained in the Bid further.
12. During the scrutiny, if it comes to the notice to tender inviting authority that the credential or any other paper found incorrect/ manufactured/ fabricated, that bidder would not allowed to participate in the tender and that application will be rejected outright without any prejudice.
13. The Tender Selection Committee reserves to right to cancel the N.I.T. due to unavoidable  
Circumstances and no claim in this respect will be entertained.

#### 14. **STEPS TO BE FOLLOWED FOR SUBMISSION OF E-TENDER**

##### 1. SEARCHING THE TENDER

- ➔After Login on [www.wbtenders.gov.in](http://www.wbtenders.gov.in) with DSC Click on Search Active Tenders
- ➔In Keyword writes Tender Reference No. / Tender memo. No. or put Tender ID and click on submit on NIC website.

##### 2. DOWNLOADING THE TENDER DOCUMENTS

- ➔After searching the particular tender, you will find NIT & BOQ and other document, click on those to download and save the documents.
- ➔Then fill the login Id and password which is written on top or your own login id and password; the same page will appear again click on NIT & BOQ to download.
- ➔While downloading the BOQ please do not change the name of the BOQ and quote as per the exact Accounting Unit, as mentioned.

##### 3. UPLOADING DOCUMENTS UNDER “MY DOCUMENTS” FOLDER

- ➔First upload all the “My Documents” before starting the Bid Submission process.
- ➔While starting the Bid submission process after the EMD payment you will find an option “Do you want to submit Other Important Documents”.
- ➔Here click on YES to submit the MY DOCUMENTS and then tick mark the check boxes to tag those documents in that particular tender.

##### 4. UPLOADING DOCUMENTS UNDER “STATUTORY COVER” FOLDER

- ➔First upload Tender Document (Other than BOQ) with digital signature in **NIT Folder**.
- ➔Thereafter, upload Scanned Copy of all Annexure in the **Annexure Folder**.

##### 5. BOQ

- ➔While first opening the BOQ there is an option at top of the rows. “Security warning Macros have been disabled” Click on Options.
- ➔Select “Enable the content” then OK. This will enable you to visualize the BOQ.
- ➔Upload BOQ in the “BOQ Folder” under “Financial Cover” after filling up financial data in the appropriate columns

## 6. ITEM WISE DETAILS

➔ Select that item as Yes/No from drop down list which item bidder wants to quote the amount.



Annexure I

**FURNISHING BASIC INFORMATION**

(To be furnished in the Company's official letter pad)

<b>1.</b>	<b>Name of the Bidder</b>	
<b>2</b>	<b>Address for Communication</b>	
<b>3</b>	<b>Contact Number(s)</b>	
<b>4</b>	<b>E-mail ID</b>	
<b>5</b>	<b>Trade Licence No.</b> (Please enclose copy of Trade Licence)	
<b>6</b>	<b>PAN(Please enclose copy of PAN Card)</b>	
<b>7</b>	<b>VAT No.(Please enclose copy of VAT)</b>	
<b>8</b>	<b>Do you have previous experience for supplying similar nature of Items at Educational Institute of Higher Learning?</b> (Please enclose copy of Purchase order& user list, if yes)	<b>Yes/No</b> (Please put tick mark)
<b>9</b>	<b>Annual Turnover as per Audited P/L ACCOUNTS &amp; BALANCE SHEET</b>	<b>2014-15 :Rs.....</b> <b>2015-16 :Rs.....</b> <b>2016-17 :Rs.....</b> <b>Average Annual Turnover: Rs.....</b>
<b>10</b>	<b>Status of the bidder(Please enclose copy authenticating your status)</b>	<b>Manufacturer/Dealer/Distributor/Selling Agent/Stockiest</b> (Please put tick mark)

**I hereby declare that the above information is true and correct to the best of my knowledge and belief. In case of any false/wrong/misleading information, I shall be bound to take the decision taken by the University.**

**Signature of the Bidder  
(With Seal)**

Annexure II

APPLICATION FOR TENDER

(To be furnished in the Company's official letter pad with full address and contact no, Email address etc)

To  
The Head  
Department of Geography  
Cooch Behar Panchanan Barma University  
Cooch Behar-736101  
West Bengal

Sub: NIT for the Supply of **different Instruments** for the purpose of Departmental requirement

Ref: - \_\_\_\_\_N.I.T. No .....dated .....

Sir,

Having examined the pre-qualification & other documents published in the N.I.T, I/we hereby submit all the necessary information and relevant documents for evaluation:

1. That the application is made by me/us on behalf of ..... in the capacity ..... duly authorized to submit the offer. The authorization letter from the Company is attached in Annexure II.
2. We accept the terms and conditions as laid down in the tender document vide **Clause 9** and declare that we shall abide by it throughout the tender period including its extensions, if any.
3. We have gone through the Tender Document thoroughly and quoted the tendered items keeping in mind all sorts of information as furnished in the tender document including Corrigendum/Addendum as published from time to time.
4. We are offering rate for the following item /items with manufacturing capacity and assured supply to the Cooch Behar Panchanan Barma University.

Sl. No.	Description of Items	Make	Model No.	Quantity	Offer Validity

4. In the event of being selected, I will make the supply within the stipulated period excepting the condition which is beyond our control.

Date :-

Signature of applicant including title and capacity in which application is made.

Contact no:  
E-mail address

Postal Address:

Annexure III

(Authorization letter in favour of the applicant (other than Managing Director/  
Proprietor/Partner) from the competent authority.)

FORMAT

(To be furnished in the Company's official letter pad with full address and contact no, Email  
Address etc)

(TO WHOM IT MAY CONCERN)

This is to certify that Mr.....(Name),  
employee of this Organisation as ..... (Official Designation)  
is  
hereby authorised to submit tender online, Vide NIT No.....,  
Dated ..... on behalf of the Organisation.

Signature of the competent authority with Seal

.....

(Signature of the Authorised Person)

Signature of Mr.....

.....is hereby attested.

Signature of the competent authority with Seal

ANNEXURE IV

(Affidavit Proforma)

(To be furnished in Non – Judicial Stamp paper  
of appropriate value duly notarized)

I, Sri/Smt. ....

The Managing Director/Proprietor (etc.) of the Firm.,  
.....(Name of the firm)

At (address).....

do hereby solemnly affirm and declare as follows:

1. That I have not ever been convicted of any offence making myself liable to be disqualified to supply of Chemicals / Equipments/other items to any Govt. or Govt. undertaking Organization /Institution in the State of West Bengal or other State or States.

2. That no case is pending against me or against my firm in any criminal court of law to supply of Chemicals, Lab. Chemicals & Laboratory Equipments and other items to the Govt. or Govt. undertaking Organization / Institution in the State of West Bengal or other State or States (If any case is pending, state the details).

3. That, I also declare that if any information subsequently found incorrect or false will it automatically render the tender submitted by me cancelled and make me liable for penal/legal action as per law of the country.

4. That my concern has not yet been declared bankrupt by any banking or money lending agency duly licensed by RBI nor has it been considered doubtful by any Government concern so far as the solvency of the organisation is concerned.

5. That I do further affirm that the statements made by me in this tender are true to the best of my knowledge and belief and all the documents attached are genuine & correct.

Deponent(s).