GOVERNMENT COLLEGE OF ENGINEERING, KEONJHAR

(Formerly Orissa School of Mining Engineering [Degree Stream], Keonjhar)
At: Jamunalia, P.O.: Old Town, Dist., Keonjhar, Pin: 758002 (Odisha)
Tel: 06766-213180, 213181 (O)/ 254230 (Fax), Web: www.gcekjr.ac.in

INVITATION LETTER

Package Code: TEQIP-III/2019/OD/geco/48

Current Date: 30-Aug-2019

Package Name: DGPS

Method: Shopping Goods

Sub: INVITATION LETTER FOR DGPS

Dear Sir.

1. You are invited to submit your most competitive quotation for the following goods with item wise detailed specifications given at Annexure I,

Sr. No	Item Name	Quantity	Place of Delivery	Installation Requirement (if any)
1	DGPS	1	Government College of Engineering, At:Jamunalia, Po: Old Town, Keonjhar Dist: Keonjhar, Pin: 758002, Odisha	NA

2. Government of India has received a credit from the International Development Association (IDA) towards the cost of the Technical Education Quality Improvement Programme [TEQIP]-Phase III Project and intends to apply part of the proceeds of this credit to eligible payments under the contract for which this invitation for quotations is issued.

Quotation

- 3.1 The contract shall be for the full quantity as described above.
- 3.2 Corrections, if any, shall be made by crossing out, initialling, dating and re writing.
- 3.3 All duties and other levies payable by the supplier under the contract shall be included in the unit Price.
- 3.4 Applicable taxes shall be quoted separately for all items.
- 3.5 The prices quoted by the bidder shall be fixed for the duration of the contract and shall not be subject to adjustment on any account.
- 3.6 The Prices should be quoted in Indian Rupees only.
- Each bidder shall submit only one quotation.
- Quotation shall remain valid for a period not less than 30days after the last date of quotation submission.

- Evaluation of Quotations: The Purchaser will evaluate and compare the quotations determined to be Substantially responsive i.e. which
 - 6.1 are properly signed; and
 - 6.2 Confirm to the terms and conditions, and specifications.
- The Quotations would be evaluated for all items together.
- 8. Award of contract The Purchaser will award the contract to the bidder whose quotation has been determined to be substantially responsive and who has offered the lowest evaluated quotation price.
 - Notwithstanding the above, the Purchaser reserves the right to accept or reject any quotations and to cancel the bidding process and reject all quotations at any time prior to the award of Contract.
 - The bidder whose bid is accepted will be notified of the award of contract by the Purchaser prior to expiration of the quotation validity period. The terms of the accepted offer shall be Incorporated in the purchase order.
- 9. Payment shall be made in Indian Rupees as follows:

Payment Description	Expected Delivery Period (in Days)	Payment Percentage
Satisfactory Delivery, Installation and Satisfactory	45	100

- Liquidated Damages will be applied as per the below:
 Liquidated Damages Per Day Min %:N/A
 Liquidated Damages Max %:N/A
- All supplied items are under warranty of 24 months from the date of successful acceptance of items and AMC/Others is 0.
- 12. You are requested to provide your offer latest by 14:00 hours on 14-Sep-2019.
- 13. Detailed specifications of the items are at Annexure I.
- 14. Training Clause (if any)
- 15. Testing/Installation Clause (if any) SUPPLY AND INATALLATION AT GCE, KONJHAR WITHIN DUE DATE OF SUPPLY.

- 16. Performance Security shall be applicable: 0%
- 17. Information brochures/ Product catalogue, if any must be accompanied with the quotation clearly indicating the model quoted for.
- 18. Sealed quotation to be submitted/ delivered at the address mentioned below, Government Engineering College, Keonjhar, The Principal At-Jamunalia, Post-Old Town, Dist-Keonjhar, Pincode-758002
 - 19. We look forward to receiving your quotation and thank you for your interest in this project.

(Authorized Signatory)
Name & Designation

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Annexure I

DGPS TECHNICAL SPECIFICATION

01.11		FIELD SOFTWARE & POST PORCESSING ETC. Description		
SI. No	Point	Identical interchangeable Base & Rover complete system including		
1	MAIN	accessories like Antenna receiver, controller and cables etc.		
2.	BASE & ROVER	Antenna and receiver built in single housing with Bluetooth		
2.1	TYPE	GPS: L1C/A, L1C, L2C, L2E, L5		
2.20	TRACKING	GLONASS: L1C/A, L1P, L2C/A, L2P, L3		
		SBAS: L1C/A, L5 (for SBAS satellites that support L5)		
		Galileo: E1, E5A, E5B		
		BeiDou (COMPASS): B1, B2		
		SBAS: QZSS, WAAS, EGNOS, GAGAN		
3.	NO OF CHANNELS	400 Plus		
4.	MODES	Static, Rapid Static kinematic, Real Time Kinematic		
	ACCURACY			
5	STATIC PERFORMANCE			
5.1	HORIZONTAL	3mm+0.1ppm		
5.2	VERTICAL	3.5mm+0.4ppm		
6	KINEMATIC & RTK PERFOR	MANCE		
6.1	Horizontal Accuracy	8mm + 1 ppm		
	Vertical Accuracy	15mm + 1 ppm		
	CODE DIFFERENTIAL GNSS POSITIONING			
	Horizontal	0.25 m + 1 ppm RMS		
	Vertical	0.50 m + 1 ppm RMS		
	Time to RTK Initialization	Less than 8 sec		
7.	LED STATUS INDICATOR Tracking , transmission & Bluetooth etc			
8.	COMMUNICATIONS	Serial: 3 serial on Port 1, full RS-232 serial (Dsub 9 pin) on Port 2		
		• fully Integrated in built Radio Modem & support of External radio		
		protocol		
		Cellular GSM/GPRS modem option. Riveteeth		
_	DOMER	Bluetooth Battery for continuous data logging at least 5 hours/each		
9.	POWER CONSUMPTION	Not more than 3.2 watts		
10.	WEIGHT	Receiver with battery weight should be less than <1.7 kg		
11.	UPDATE RATE	20Hz or better		
12. 13.	OPERATIONAL	-40° C to +65° C		
13.	TEMPURATURE			
14.	STORAGE TEMPURATURE	-40° C to +75° C		
15.	DUST & WATER	IP 67 or better		
200000-0	PROTECTION			
16.	SHOK/DROP 2m or more on to hard surface			
17.	HUMIDITY 100%, condensing			

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SPECIFICATION FOR CONTROLLER

SI. No	Point	Description
1.	TYPE	Scratch-resistant, touch-screen display, highly readable in both low light and glaring sunshine.
2.	OPERATING SYSTEM	Microsoft® Windows Embedded Handheld 6.5
3.	WEIGHT	Not more than 1.5 kg
4.	CAMERA & GPS	5MP or more resolution with autofocus and LED Flash Inbuilt GPS with Geo-tagging Facility.
5.	DISPLAY	4.2"VGA LCD TFT with High visibility backlit LCD with 640x480 pixel.
6.	GRAPHICAL DISPI,AY	Controller should be capable of creating complete points, lines in the field
7.	KEYBOARD	Full QWERTY key pad Hard with Numeric keyboard for numbering & function short keys
0	MEMORY	256 MB of RAM or more Internal 8 GB or more flash storage
8.	BATTERY	More than 10-15 hours on operation condition on a single charge
9.	OPERATION	-30°C to +60°C or better
10.	STORAGE	20 C to +70 C or better
11.	COMMLNICATION	Bluetooth, USB Port, Wi-Fi ,3G, Data communication interface
12.		IP68 water proof and dust proof
13.	DI]ST ANDWATER PROTECTION	
14.	DROP	1 m or better

CONTROLLER FIELD SOFTWARE

SI. No	Point	Description Ctation
1.	Should have following	The software should be able to log data for all the signals tracked & Static, Fast Static, RTK. Automatic survey (by distance, by time, stop & go) Satellite view status (quality, position, sky view, satellites list, base info, PDOP, HDOP), Line, polygon, area calculation, National grids, System
	,	Stake Out Should support Graphical stakeout, not only for points but for Lines as well. Should be able perform Real Time Quality Control for stake out positions
		Feature Coding with Automatic drawing
		Active Background maps in the form of
		IDEC/TIEF DXF/DWG
		Export to industry standard formats like CSV,DXF,KML etc
		Should support COGO functionality
		Calculation of transformation parameters from point list.
		Data formats input and outputs
		CMR+ CMR+, CMRx input and outputs
		•RTCM: RTCM 2.1, RTCM 2.3, RTCM 3.0, RTCM 3.1
		NMEA outputs.
^	ELLIPSOIDS	All a server allipsoids User definable ellipsoids
3.	MAP PROJECTIONS	Mercator Transverse Meracator, User definable UTM and country specific
3.	WAFFRODESTIONS	Obligue Morestor, Lambert (1 and 2 standard
		parallels) Soldner Cassini, Polar Stereographic, Double Stereographic,
100		RSO, other country specific projection
4.	GEOIDAL MODEL	Unload Cooldal model to system
5.	GRAPHICS	Graphical representation of points, lines and areas application result plots
6.	ICONS	I was indicating the current status of measure modes, settings, battery etc
0.	1.001.0	It should be possible to configure or see status of the iconed devices by touching on the screen
7.	CONFIGURATION	Ability to store and transfer all instrument and application collinguation
1.	SETS	ui for different eneratore curvey tasks etc.
8.	FREE CODING	Departing codes with optional attributes in between of measurements.
9.	THEMATICAL CODING	Manual code entry or selection from a user defined coding points

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		lines and areas with optional attributes when measuring Manual code entry or selection from a user defined
10.	QUICK CODING	Recording a measurement with a point code or free code by entering numerical quick code from user defined code list
11.	AVERAGING	Averaging of multiple points within user defined
12.	ON BOAR-D PROGRAMMES	Surveying, Staking, COGO, Area ,Two point distance, Hidden point measurements.
13.	ON BOARD APPLICATION	Controller should have software to work in both GPS and TPS mode and should support survey data collection, job creation, Graphical stakeout, Map screen with zoom in

OFFICE SOFTWARE

SI. No	Point	Description		
1.	PLATFORM	Inbuilt CAD Platform Calculate distance & Angle between points , Line Joining, polygon, text, circle, etc The software should be a combined software capable of handling the GPS, TPS and Digital level data		
2.	IMPORT	Capable of importing the RAW Data logged from GPS and RINEX data with maps created in the field to be downloaded as such and should be capable of downloading data from Total stations and Digital levels		
3.	EXPORT	Capable of Exporting the data in RINEX format as well as capable of transferring the maps directly to CAD with the code lists enabling the symbols to be attached without manual editing.		
4.	REPORTING	Software should be capable of generating HTML Style reports directly for the surveyed data		
5.	PROCESSING OPTIONS	Capable of Processing the Raw static data of GPS and GLONASS for both manually and automatically		
6.	DATUM TRANSFORMATION	Capable of transferring the data from one datum to another for given set of common points with or without the knowledge of datum		
7.	ADJUSTMENT	Capable of performing 3D adjustments for the surveyed area of GPS networks.		
8.	OPERATING SYSTEM	Designed to run on windows 7, windows 8, windows 10 operating system		
9.	DATUM CONVERSION	Facility to compute parameters for datum conversion		
10.	COGO Calculation	Software should be capable of computing the coordinates of unknown points using reference points and coordinates		
11.	IMAGE REFERENCING	Software should have an image referencing module and the surveyed data should be imported directly on this back ground Raster image		
12.	IMPORT RTK DATA	Should be able to handle RTK data and be able to Process RTK data		
13.	SURFACE & CONTORING	The software should be a capable of Surface Modelling, 3D visualization and quick contouring.		

ALL ACCESSORIES, HARDWARE AND SOFTWARE SHOULD BE OF SAME OEM BASE STATION

SL. No.	ITEM	QUANTITY (No)
1.	Receiver	1
2.	Wooden Telescopic Tripod	1
3.	Tribrach with optical plummet,	1
4.	Rechargeable batteries	2
5.	Quick charger, charge two battery simultaneously	1
6.	Carrying case	1
7.	Post Processing software	1
8.	Controller with Battery , Charger & cable	1
9.	Controller Software	1
10	Controller mount	1 1 1 1 1
11.	External Battery Cable	12/2/

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ROVER STATION

SL. No.	ITEM	QUANTITY (No)
		1
1.	Receiver	1
2.	Wooden Telescopic Tripod	1
3.	Tribrach with optical plummet,	2
4.	Db	1
5.	Quick charger, charge two battery simultaneously	1
6.	2m Aluminum Telescopic	1
7.	Aluminum Telescopic bipod	1
8.	Controller with Battery , Charger & cable	1
9.	Controller Software	1
10.	Pole bracket	1
11.	Controller mount	

1. Bidders are requested to go through the Technical specifications All the Fields are must (100% matching or higher specification) for Technical Evaluation of the DGPS Equipment. Otherwise bid will be rejected.

2. The above noted Specifications are the guideline for quoting the rates. The Tendering Authority has discretionary power in accepting/rejecting the bid submitted by the tenderer with any deviation from the above noted specifications for DGPS Equipment.

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FORMAT FOR QUOTATION SUBMISSION (In letterhead of the supplier with seal)

Date:

Sales tax and other taxes payable	In figures (B)	
	% ul	
Total Price	€	
Quoted Unit rate in Rs.	(Including Ex-Factory price, excise duty, packing and forwarding, transportation, insurance, other local costs incidental to delivery and warranty/ guaranty commitments)	ost
Unit		Total Cost
Qty.		
Description of Qty. Unit	goods \ (with full Specifications)	
SI. No.		

- months shall apply to the offered items and we also confirm to agree with (Amount in figures) We agree to supply the above goods in accordance with the technical specifications for a total contract price of Rs. (Rupees ——amount in words) within the period specified in the Invitation for Quotations. We confirm that the normal commercial warranty/ guarantee of ————months shall apply to

We hereby certify that we have taken steps to ensure that no person acting for us or on our behalf will engage in bribery. terms and conditions as mentioned in the Invitation Letter.

Signature of Supplier
Name:
Address: