GOVERNMENT OF INDIA DEPARTMENT OF SPACE INDIAN INSTITUTE OF REMOTE SENSING **IIRS**

Email:

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DEHRADUN PURCHASE & STORES

Date: 30/06/2014

INVITATION TO TENDER

Our Ref No: GIRS

2014-000132-01

M/s

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Tender Due: 15:00 Hrs ISTon 17/07/2014

Dear Sirs,

Please submit your sealed quotation, in the Tender Form enclosed here along with the descriptive catalogues / pamphlets /literature, superscribed with Our Ref.No. and Due Date for the supply of the following items as per the terms & conditions mentioned in Annexure(Form No:

S.No.	. Description of Items with Specifications	Unit	Quantity
1	Supply, Installation, Demonstration & Training of Inertial Measurement Unit (IMU) with accessories and Software (Details of Specifications & Requirements are enclosed)	NOS.	1

DELIVERY AT:

IIRS

MODE OF DESPATCH

DOOR DLVRY

DUTY EXEMPTIONS

SPECIAL INSTRUCTIONS NIL

SPECIFIC TERMS

V.V. NARAYANAN KUTTY PURS. & STORES OFFICER

For and on behalf of the President of India The Purchaser

GENERAL TERMS & CONDITIONS:

- 1. Material should be delivered & installed at IIRS.
- 2. Payment will be made within 30 days from date of receipt of supply and acceptance of the material for orders value upto Rs. 2.0 lakhs. For order value above 2.0 lakhs, 90% payment within 30 days and 10% against Bank Guarantee for the warranty period.
- 3. We cannot furnish Form C/D. Please indicate the applicable percentage of Trade tax / VAT in your quotation, if applicable. Otherwise the quoted rate will be considered as inclusive of all taxes.
- 4. Clearly mention the Make/Brand of the item in your quotation. Please enclosed the Authorization Certificate from the principal of the quoted Make/Model along with the quotation.
- 5. Also clearly mention the exact delivery period and validity of your offer shall be min. 60 days
- 6. Compliance Statement of the quoted model may please furnish along with the quotation, without complicance statement quotations will not be considered

SPECIFICATION AND REQUIREMENTS SHEET OL.NO Description Quan					Quantity Required		
	SUPPLY, INSTALLA	01 Set					
	along with accessories a	and softwa	re				
	IMPORTANT INSTRUCTIONS						
		Competitiveness of the Bidder would be evaluated on the basis of the FOR Destination value of all the items					
~-~	taken together.		29				
Sl.No	Description		Specifications				
Vavigat	tion requirements		,				
a.	Typical position accuracy		Horizontal: ±3 m RMS or better, vertical: ±5 m RMS or better				
b.	Typical velocity accuracy		± 0.1 m/s or better				
c.	Typical attitude accuracy		±0.3 deg RMS roll & pitch or better ±1 deg RMS heading or better				
d.	Data output rate		up to 500 Hz or more				
Genera	l specifications		dp to 500 Hz of more				
a.	Interface options		USB 2.0 or RS232				
b.	Other sensor integration		Should have an internal GPS for correcting accumulating bias				
c.	Operating temperature		-40 °C to +50 °C				
d.	Physical parameter of instrument		As compact as possible ¹				
	Weight		Less than 100grams				
f.	Shock limit		500 g or better				
g.	Software ²		✓ compatible with XP/Vista/Win7/Win8				
O			✓ capable to remove noise removal				
			✓ Export	data to raw, ASCII and other	er generic format		
h.	Features		✓ Should perform Kalman filtering with gyro and accelerometer				
			✓ Should be capable to measure noise				
i.	Warranty and Services	s (after	✓ Should have warranty for 1 year or more.				
	sale service)		✓ Should provide strong service which includes adequate training &				
			calibration for each component, repairing/installation of hardware				
			and software.				
			✓ Technical support for 3 years or more (optional) ³				
j.	Accessories		✓ Need to have customary accessories such as cables/data				
			transfer cable, connectors, battery charger adapter, dat				
			cards/USB flash drive, starter kit,etc.				
nsor	Specifications						
		Acceler	ometer	Gyroscope	Magnetometer		
	Measurement range	±5 g		±300°/sec	±3 Gauss		
b.	In-run bias stability	±0.05m	g	10 ⁰ /hr	-		
C.	Initial bias error	±0.002g		$\pm 0.05^{0}/\text{sec}$	±0.003 Gauss		
d.	Scale Factor Stability	±0.05%		±0.05%	±0.1%		
e.	Noise density	100μg/	\lambda hz	$0.005^{\circ}/\text{sec}/\sqrt{\text{hz}}$	100 μGauss/√hz		
f.	Alignment error	$\pm 0.05^{0}$		$\pm 0.05^{0}$	±0.05°		
g.	Sampling rate	4kHz or	more	4kHz or more	50 Hz or more		
	d GPS Specifications						
a.	GPS receiver type	✓ ✓	 ✓ 50 or more channel Channels ✓ SBAS: Should be GAGAN enabled 				
b.	Data output rate	Up to 4	Hz or more				
c.	Time-to-First-Fix		s as possible				
d.	GPS velocity accuracy		0.1 m/sec or better				
e.	GPS heading accuracy	0.5° or better					

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*	f.	GPS horizontal position	GPS: 5 m or less
		accuracy	SBAS(GAGAN):2.0 m or less

Vendor should provide the exact dimensions of instrument in the tender.

- Vendor should clearly indicate the licensing policy for each module.
- Vendor should provide all details, feature and modules of software.
- Vendor must provide all details of software along with the licensing policies.

Note:

- ✓ Vendor can additionally quote for any other proprietary software/hardware which can improve/maximize the performance/productivity in terms of data acquisition and processing providing its full detail.
- ✓ Vendor should provide all necessary manuals for each component/module of software and hardware.

Deliverable:

- The vendors should provide, without fail, the list of all the subsystems, disks, interfaces (cables/controller cards), other units, licenses, which are part the instrument.
- The vendors should also provide the details of the documentation that will be supplied along with the system.

² All software modules should be GUI based and should be supported by recent Microsoft windows operating system.

³ Vendor should quote it separately.