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

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# **DEHRADUN PURCHASE & STORES**

Date: 09/10/2014

INVITATION TO TENDER

Our Ref No : GIRS

2014-000132-01

Tender Due: 15:00 Hrs ISTon 28/10/2014

Dear Sirs,

M/s

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
Supply, Installation, Demonstration & Training of Inertial Measurement Unit (IMU) with and Software (Details of Specifications & Requirements are enclosed)			NOS.	1
DEL	IVERY AT:	IIRS		
MOI	DE OF DESPATCH	DOOR DLVRY		

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**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 compliance statement quotation will not be considered.

	A STATE OF THE STA	SPECIFIC	CATION AND REC	DUREMENTS SHEET				
SPECIFICATION AND REQUIREMENTS SHEET  O Description  Oughtity Required								
SUPPLY, INSTALLATION, DEMOSTRATION and TRAINING of IMU 01 Set								
	along with accessories and software							
					, ,			
	IMPORTANT INSTR							
I	Competitiveness of the	Bidder w	ould be evaluated on	the basis of the FOR D	estination value of all the items			
	taken together.			or me rone b	' value of all the items			
CIN	D							
Sl.No	Description		Specifications					
	ation requirements		TV					
<u>a.</u> b.	Typical position accuracy		Horizontal: ±3 m RMS or better, vertical: ±5 m RMS or better					
			±0.1 m/s or better					
, C.	c. Typical attitude accuracy		±0.3 deg RMS roll & pitch or better					
d.			±1 deg RMS heading or better					
	Data output rate		up to 500 Hz or mo	up to 500 Hz or more				
	al specifications		TIOD O O DOGGO		-			
a.	Interface options		USB 2.0 or RS232					
	Other sensor integration		Should have an internal GPS for correcting accumulating bias					
	Operating temperature Physical parameter of instrument		-40 °C to +50 °C					
		strument						
<u>e.</u>	Weight		Less than 100grams	S				
<u>f.</u>	Shock limit		500 g or better					
g.	g. Software <sup>2</sup>		compatible with XP/Vista/Win7/Win8					
			capable to remove noise removal					
h.	Fastures		Export data to raw, ASCII and other generic format					
11.	Features				th gyro and accelerometer			
	i. Warranty and Services (after sale service)		✓ Should be capable to measure noise					
1.			Should have warranty for 1 year or more.					
			✓ Should provide strong service which includes adequate training &					
			calibration for each component, repairing/installation of hardware					
			and software.					
				support for 3 years or r				
J.	Accessories		✓ Need to have customary accessories such as cables/data					
			transfer cable, connectors, battery charger adapter, data					
			cards/USB flash drive, starter kit,etc.					
12	Specifications				4)			
		Accelero	meter	Gyroscope	Magnetometer			
<u>a.</u>	Measurement range	±5 g		±300°/sec	±3 Gauss			
b.	In-run bias stability	±0.05mg		10 <sup>0</sup> /hr	-			
C.	Initial bias error	±0.002g		±0.05°/sec	±0.003 Gauss			
<u>d.</u>	Scale Factor Stability	±0.05%		±0.05%	±0.1%			
e. f.	Noise density	100μg/√hz		0.005 <sup>0</sup> /sec/√hz	100 μGauss/√hz			
	Alignment error	±0.05 <sup>0</sup> 4kHz or more		±0.05°	±0.05°			
g.	Sampling rate I GPS Specifications	4KHZ OF I	поге	4kHz or more	50 Hz or more			
a.	GPS specifications GPS receiver type		O or more about 1	Yhonnolo				
a.								
b.	Data output rate		✓ SBAS: Should be GAGAN enabled to 4Hz or more					
c.	Time-to-First-Fix		less as possible					
d.	GPS velocity accuracy		/sec or better					
e.	GPS heading accuracy		0.5° or better					
	or o nodding docuracy	v.5 of better						

-	GPS horizontal position	GPS: 5 m or less	
	accuracy	SBAS(GAGAN):2.0 m or less	

<sup>&</sup>lt;sup>1</sup> 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.

<sup>&</sup>lt;sup>2</sup> All software modules should be GUI based and should be supported by recent Microsoft windows operating system.

<sup>&</sup>lt;sup>3</sup> Vendor should quote it separately.