

**GOVERNMENT OF INDIA
DEPARTMENT OF SPACE
INDIAN INSTITUTE OF REMOTE SENSING
IIRS
DEHRADUN
PURCHASE & STORES
INVITATION TO TENDER**

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Date : 23/07/2014

M/s

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Our Ref No : GIRS 2014-000132-01

Tender Due: 15:00 Hrs ISTon 14/08/2014

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 compliceance statement quotations will not be considered

SPECIFICATION AND REQUIREMENTS SHEET

NO	Description	Quantity Required
	SUPPLY, INSTALLATION, DEMONSTRATION and TRAINING of IMU along with accessories and software	01 Set

IMPORTANT INSTRUCTIONS

I Competitiveness of the Bidder would be evaluated on the basis of the FOR Destination value of all the items taken together.

Sl.No	Description	Specifications
Navigation 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
General specifications		
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
	Physical parameter of instrument	As compact as possible ¹
e.	Weight	Less than 100grams
f.	Shock limit	500 g or better
g.	Software ²	<ul style="list-style-type: none"> ✓ compatible with XP/Vista/Win7/Win8 ✓ capable to remove noise removal ✓ Export data to raw, ASCII and other generic format
h.	Features	<ul style="list-style-type: none"> ✓ Should perform Kalman filtering with gyro and accelerometer ✓ Should be capable to measure noise
i.	Warranty and Services (after sale service)	<ul style="list-style-type: none"> ✓ 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. ✓ Technical support for 3 years or more (optional)³
j.	Accessories	<ul style="list-style-type: none"> ✓ Need to have customary accessories such as cables/data transfer cable, connectors, battery charger adapter, data cards/USB flash drive, starter kit,etc.

Other Specifications				
		Accelerometer	Gyroscope	Magnetometer
a.	Measurement range	±5 g	±300 ⁰ /sec	±3 Gauss
b.	In-run bias stability	±0.05mg	10 ⁰ /hr	-
c.	Initial bias error	±0.002g	±0.05 ⁰ /sec	±0.003 Gauss
d.	Scale Factor Stability	±0.05%	±0.05%	±0.1%
e.	Noise density	100µg/√hz	0.005 ⁰ /sec/√hz	100 µGauss/√hz
f.	Alignment error	±0.05 ⁰	±0.05 ⁰	±0.05 ⁰
g.	Sampling rate	4kHz or more	4kHz or more	50 Hz or more

Internal GPS Specifications		
a.	GPS receiver type	<ul style="list-style-type: none"> ✓ 50 or more channel Channels ✓ SBAS: Should be GAGAN enabled
b.	Data output rate	Up to 4Hz or more
c.	Time-to-First-Fix	As less as possible
d.	GPS velocity accuracy	0.1 m/sec or better
e.	GPS heading accuracy	0.5° or better