

Bid Document

Bid Details	
Bid End Date/Time	21-07-2020 13:00:00
Bid Opening Date/Time	2020-07-21 13:30:00
Bid Life Cycle (From Publish Date)	90 (Days)
Bid Offer Validity (From End Date)	60 (Days)
Ministry/State Name	Ministry Of Defence
Department Name	Department Of Defence
Organisation Name	Indian Coast Guard
Office Name	*****
Total Quantity	1
Item Category	GNSS RECEIVER FOR REFERENCE STATION
MSE Exemption for Years of Experience and Turnover	No
Startup Exemption for Years of Experience and Turnover	No
Bid to RA enabled	No
Inspection Required	No

EMD Detail

Advisory Bank	State Bank of India
EMD Percentage(%)	0.50
EMD Amount	9000

ePBG Detail

Advisory Bank	State Bank of India
ePBG Percentage(%)	2.00
Duration of ePBG required (Months).	15

(a). EMD EXEMPTION: The bidder seeking EMD exemption, must submit the valid supporting document for the relevant category as per GeM GTC with the bid. Under MSE category, only manufacturers for goods and Service Providers for Services are eligible for exemption from EMD. Traders are excluded from the purview of this Policy.

(b). EMD & Performance security should be in favour of Beneficiary, wherever it is applicable.

Beneficiary:

ICGS RATNAGIRI
H1 PLOT, MIDC AREA , RATNAGIRI-415639
(The Commanding Officer)

Splitting

Bid splitting not applied.

GNSS RECEIVER FOR REFERENCE STATION (1 pieces)

Technical Specifications

[* As per GeM Category Specification](#)

Specification	Specification Name	Values	Bid Requirement (Allowed Values)
RECEIVER FEATURES & FUNCTIONS	Receiver Type	Base	*
	Mode of Processing	Both Static & Fast Static and Real Time Kinematic (RTK)	Both Static & Fast Static and Real Time Kinematic (RTK)
	"RTK processing (hint: Network RTK Correction - All Commonly available industry stadand Network Solution)"	Both Single Base RTK Correction & Network RTK Correction	Both Single Base RTK Correction & Network RTK Correction
	Receiver Antenna	External	*
	Antenna Type	Choke Ring	Choke Ring
	Supported positioning signal bands for the Antenna	L1,,L2,L5,G1,G2,G3,E1, E5ab,E6,B1,B2,B3	*
	Phase centre Accuracy	Less than 1 mm	Less than 1 mm
	Phase centre Repeatability	Less than 1 mm	Less than 1 mm
	Minimum Tracking elevation	0 deree	*
	Minimum independent and concurrent	12	*

	datalogging sessions		
RECEIVER POSITIONING PERFORMANCE & ACCURACY (RMS)	Differential GPS (DGPS) Accuracy - (Horizontal)	25 cm + 1 ppm	25 cm + 1 ppm Or higher
	Differential GPS (DGPS) Accuracy - (Vertical)	40 cm + 1 ppm	40 cm + 1 ppm Or higher
	High Precision / Long Observation Static Accuracy - (Horizontal)	3 mm + 0.1 ppm	3 mm + 0.1 ppm Or higher
	High Precision / Long Observation Static Accuracy - (Vertical)	3.5 mm + 0.4 ppm	3.5 mm + 0.4 ppm Or higher
	Static and Fast Static Accuracy - (Horizontal)	3 mm + 0.5 ppm	3 mm + 0.5 ppm, 3 mm + 0.1 ppm Or higher
	Static and Fast Static Accuracy - (Vertical)	5 mm + 0.5 ppm	5 mm + 0.5 ppm, 3.5 mm + 0.4 ppm, 2.5 mm + 1 ppm, 2.5 mm + 0.5 ppm Or higher
	Real-Time Kinematic (RTK) Accuracy - (Horizontal)	8 mm + 1 ppm	8 mm + 1 ppm, 8 mm + 0.5 ppm, 6 mm + 0.5 ppm, 5 mm + 0.5 ppm Or higher
	Real-Time Kinematic (RTK) Accuracy - (Vertical)	15 mm + 1 ppm	15 mm + 1 ppm, 15 mm + 0.5 ppm, 10 mm + 1 ppm, 10 mm + 0.8 ppm Or higher
RECEIVER TRACKING CAPABILITIES	"Base Line Processing Range (Static) (May indicate '0' if Not Applicable)"	300	300, 350, 400, 450, 500, 600, 700, 800, 900, 1000 Or higher
	Number of Channels	-	*
	Initialisation Time	10	*
	Maximum Position Update Rate(Hz)	20	20.0 - 100.0 Or higher
	MET/Tilt Sensor input	Yes	Yes
	Position Acquisition Method	Float to Fix,Fix	*
GNSS TRACKING SIGNALS	Receiver Traking Signals (Hint: Select applicable Signals only)	GPS - L1,GPS - L1 C/A,GPS - L2,GPS - L2 P,GPS - L5,GLONASS - L1,GLONASS - L2,GLONASS - L2 C/A,GLONASS - L2 P,GLONASS - L3,NAVIC	*

		- L5,Galileo - E1,Galileo - E5 a,Galileo E5 b,Galileo - E5 ab,Galileo - E6,BeiDou - B2,BeiDou - B3,QZSS - L1,QZSS - L2,QZSS - L5	
	SBAS Support	GAGAN,WAAS,EGNOS, MSAS	GAGAN, WAAS, EGNOS, MSAS
POST PROCESSING SOFTWARE / ON- BOARD SOFTWARE FEATURES	Post Processing Software with free updates upto Warranty period inclusive in the scope of supply	NA	NA
	On-Board Software Features	support the configurable input,output and logging of Met/Tilt measurements,Web Interface for full control,Configuration and access management of reciever,Support remote configuration,Data retrieval and firmware upgrading,Configurable email alert functionality,support IP filtering, restricting IP packet access to and from the receiver for enhanced access control security,Support FTP downloads as well as the FTP Push command,Capable of pushing logged and converted data files to three separate FTP servers,NTRIP Caster, NTRIP Client and NTRIP Server functionality	support the configurable input, output and logging of Met/Tilt measurements, Web Interface for full control, Configuration and access management of reciever, Support remote configuration, Data retrieval and firmware upgrading, Configurable email alert functionality, support IP filtering, restricting IP packet access to and from the receiver for enhanced access control security, Support FTP downloads as well as the FTP Push command, Capable of pushing logged and converted data files to three separate FTP servers, NTRIP Caster, NTRIP Client and NTRIP Server functionality
COMMUNICATIONS	Communication Ports	USB,RS 232,Bluetooth, Combined LEMO,Wi-Fi / WLAN,RJ45,Mini USB	*
	Communication Protocols	NMEA,RINEX,RTCM 2.0,RTCM 3.0,CMR,CMR+,BINEX	*
	Phone Modem Antenna	Internal Antenna	Internal Antenna

	Radio Modem Antenna	NA	NA
	Built-in Data Links - Phone & Radio Modems	GSM,GPRS,LTE,HSDPA, UHF,NA	*
	External Data Links Supported	GSM,GPRS,LTE,UMTS,H SDPA,ADSL,UHF	*
RAM / STORAGE	Data Storage Medium	Internal/Removable,External / Memory Stick	Internal/Removable, External / Memory Stick
	Internal / Removable Storage Capacity	32 GB	32 GB Or higher
	External / Removable Storage Slot	USB	*
	External Storage / Memory Stick Capacity supplied with Receiver - inclusive in the scope of supply	32	32 Or higher
BATTERY	Power Source	Internal / Removable-Rechargeable Battery,External - Rechargeable Battery	Internal / Removable-Rechargeable Battery, External - Rechargeable Battery
	Chemistry of Battery	Li-ion	Li-ion
	Capacity of Battery (Ah)	48.96	48.96
	Battery Back Up Time	15	*
	Number of Batteries required for operation	1	*
	Number of Batteries Supplied	2	2, 4 Or higher
OTHER FEATURES & FUNCTIONS OF THE RECEIVER	Other Features & Functions	Base Station serves multiple Rovers,Base Station Compatible to Base / Rovers of other makes,Interchangeable / Configurable as Base or Rover,Provision to Indicate the Connectivity with Base Station,Multi-path Mitigation for Receiver and Antenna,All Control functions available with Receiver,Automatic restart Functionality after loss of power in the same configuration,Supports 12 V External Battery; Supporting both AC and	Base Station serves multiple Rovers, Base Station Compatible to Base / Rovers of other makes, Interchangeable / Configurable as Base or Rover, Provision to Indicate the Connectivity with Base Station, Multi-path Mitigation for Receiver and Antenna, All Control functions available with Receiver, Automatic restart Functionality after loss of power in the same configuration, Supports 12 V External Battery;

		DC operation (with a minimum input power range of 10-28 VDC), Hot - Swappable b/w External and Internal Power Sources without affecting Data Recording	Supporting both AC and DC operation (with a minimum input power range of 10-28 VDC), Hot - Swappable b/w External and Internal Power Sources without affecting Data Recording
GENERIC	Radio Power	-	0.0 - 35.0 Or higher
	Weight of Receiver (including Battery)	-	*
	Size of Receiver (length x width x depth) (mm X mm X mm)	-	*
ENVIRONMENTAL PARAMETERS	Minimum Operating Temperature	-30	-30, -40 Or lower
	Maximum Operating Temperature	65	65 Or higher
	Non Condensing Humidity, Rh	100	100 Or higher
	Ingress Protection	IP 67	IP 67, IP 68 Or higher
	Operational Altitude (MSL)	Upto 10000 METER	*
ACCESSORIES	Accessories - inclusive in the scope of supply	USB Data Transfer Cable, Connectors and Cables for Connecting to Car Batteries, Suitable Battery Charger to rechargeable batteries from AC Mains, 12 V Vehicle Charging Kit, Light Weight carrycase	USB Data Transfer Cable, Connectors and Cables for Connecting to Car Batteries, Suitable Battery Charger to rechargeable batteries from AC Mains, 12 V Vehicle Charging Kit, Light Weight carrycase
	Length of suitable connecting Cable for Antenna (meters) - inclusive in the scope of supply	30	30, 50 Or higher
INSTALLATION & COMMISSIONING & STC	Installation & Commissioning	Without installation & Commissioning	Without installation & Commissioning
	STC of the product read, understood and agreed	NA fo Without installation & Commissioning	NA fo Without installation & Commissioning
WARRANTY / TRAINING	On-site Warranty	3	3 Or higher
	Training Period - Provided at at Buyer's Premises	5	5 Or higher

TEST REPORTS	Compliance to Dust test	IS/IEC-60529	*
	Compliance to Water Intrusion test	IS/IEC-60529	*
	Compliance to Vibration test	MILSTD-810 G	*
	Agreed to furnish OEM Test report to the Buyer on demand	Yes	Yes
	Availability of Test Reports from Central Govt / NABL approved / ILAC accredited Lab to prove conformity to the specification	No	No
	If Yes, Test Report to be furnished to the Buyer on demand	NA	*
	Test Report No and Date	-	*
	Name of the Lab and Address	-	*

* Specifications highlighted in bold are the Golden Parameters.

* Bidders may note that In respect of non-golden Parameters, the specifications 'Values' chosen by Buyer will generally be preferred over 'Bid requirement (allowed Values) by the Buyer.

Additional Specification Documents

Consignees/Reporting Officer and Quantity

S.No.	Consignee/Reporting Officer	Address	Quantity	Delivery Days
1	*****	*****RATNAGIRI	1	30

Special terms and conditions for category GNSS RECEIVER FOR REFERENCE STATION

1.1.1. SELER'S RESPONSIBILITIES: The Scope of installation and Commissioning for GNSS Receiver for Reference Station shall be as under: Inclusive in the Scope of Installation & Commissioning: Fixing the GNSS Receiver for Reference Station / Base Station and antenna on already built Platform / Pillar / Monument provided by the consignee. Laying & Installation of suitable Antenna cable as applicable. Supply, Laying & Installation of suitable Electrical Cable, if required, between the Base Station and Power Socket. All necessary accessories for laying & installation of Antenna Cabling and Electrical cabling. Installation, Commissioning & Demonstration of the Base station to the satisfaction of the buyer / consignee. Providing

Training to the buyer's representatives after successful installation & Commissioning of the equipment, if applicable. 1.2. CONSIGNEE / USER'S RESPONSIBILITIES: Providing built-up Platform / Pillar / Monument for installation & commissioning of the Base Station. Civil work for Foundation of Platform / Pillar / Monument and Electrical earthing, wherever required. Providing AC Mains power supply and providing Inverter / Generator, if backup is required. Providing Server / Desktop Computer / Laptop as per the end user's requirement. Necessary approvals from regulatory authorities, if any, for installation of the Base Station.

Bid Specific Additional Terms and Conditions

1. Scope of supply (Bid price to include all cost components) : Supply Installation Testing Commissioning of Goods and Training of operators and providing Statutory Clearances required (if any)

[This Bid is also governed by the General Terms and Conditions](#)

---Thank You---