Telephone : 91-532-227+1122, 1123	मोतीलाल नेहरू राष्ट्रीय प्रौद्योगिकी संस्थान इलाहाबाद,
Fax : 0532-2545341, 2545822	इलाहाबाद–211004 (भारत)
GRAM : MNNIT	**Motilal Nehru National Institute of Technology Allahabad**
Website : http:\\www.mnnit.ac.in	Allahabad-211004 (India)
Email : spo@mnnit.ac.in, fip@mnnit.ac.in	An Institute of National Importance as Declared by NIT Act, GOI, 2007

INVITATION FOR SUPPLY OF PERMANENT GPS BASE STATION
(For Contracts value estimated to cost less than Rs.25 lakhs)

1	**Closing Date/Time for submission of Quotations**	04/06/2014; 14:30 Hrs.
2	**Opening Date/Time of Quotations**	04/06/2014; 15:00 Hrs.
3	**Quotations to be submitted at**	The Office of Faculty-In-charge (Purchase) M.N.N.I.T. Allahabad, Allahabad-211 004 (U.P.)
4	**Place of opening of quotations**	The Office of Faculty-In-charge (Purchase) M.N.N.I.T. Allahabad, Allahabad-211 004 (U.P.)
5	**Tender Fee**	Rs. 200.00 (Non-refundable), in form of a Demand Draft drawn in favor of DIRECTOR, MNNIT Allahabad.
6	**Earnest Money Deposit (EMD)**	**Rs. 50,000/- (Rs. Fifty Thousand only),** in form of FDR/Bank guarantee, from any of the Commercial Banks, drawn in favour of "Director, MNNIT Allahabad" payable at Allahabad, and valid for a period of 45 days beyond the final bid validity period

To,

Dear Sir

You are invited to submit your most competitive quotation for the following items. The quotation should be sent directly to the undersigned under Sealed Cover marked "Quotation Reference No., Date", and "The Due Date:

Sl. No.	Description of item with Specification	Quantity
1..	**PERMANENT GPS BASE STATION** (Main Unit, External Geodetic Antenna, Antenna Cable, Charger & Software for Data Processing) **Details specification as per ANNEXURE 'B'**	01 no.

The sealed tenders must be submitted in the Office of the Faculty In-charge (Purchase), on or before **due date & time as mentioned above** in the office of the undersigned, in the presence of bidder's authorized representatives, who choose to attend and shall sign a register evidencing their attendance.

The tender/quotations NOT submitted in the prescribed format or Incomplete in any respect will be outrightly rejected.

Faculty in-Charge, Purchase
MNNIT Allahabad

1. **Bid Price:**
   (a) The contract shall be for the full quantity as described above. Corrections, if any, shall be made by crossing out, initialing, dating and rewriting.
   (b) All duties, taxes and other levies payable by the contractor under the contract shall be included in the total price.
   (c) The rates quoted by the bidder shall be fixed for the duration of the contract and shall not be subject to adjustment on any account.
   (d) The prices should be quoted in Indian Rupees only for indigenous items. For items/imported items, the prices should be quoted in foreign currency.
   (e) Each bidder shall submit only one quotation.

2. **Validity of Quotation:**
   Quotation shall remain valid for a period not less than **120 days** after the deadline date specified for submission.

3. **Evaluation of Quotations:**
   (a) The purchaser will evaluate and compare the quotations determined to be substantially responsive, i.e., which
   (i) are properly signed; and
   (ii) conform to the terms and conditions, and specifications.
   (iii) will be with tender fees, and EMD required, if any.
   (b) The Quotations would be evaluated separately for each item.

4. **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 for 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 if falls under Govt. purchase rules, i.e., GFR-2005

5. **Formats and Signing of Bid:**
   - Each & every pages of the submitted bid must carry the page numbers.
   - The bidders are not allowed to make additional and alteration in the tender document, any additions and alteration in the tender document, any additions and alterations shall be at bidder's risk. Conditional/modified tender are liable to be rejected.
   - The tender/quotations NOT submitted in the prescribed format or Incomplete in any respect will be outrightly rejected.
   - If the bid submitted without compliance sheet details of items the bid will be outrightly rejected.
   - The bid shall be typed or written in indelible ink and shall be signed by the Bidder/Tenderer or a person or persons duly authorized to bind the Bidder/Tenderer to the Contract. All pages of the bid, except for unamended printed literature, shall be initialed by the person or persons signing the bid.
   - Any interlineations, erasure or overwriting shall be valid only if they are initiated by the persons or persons signing the bid.
   - The Bidder shall furnish information as described in the Form of Bid on commissions or gratuities, if any, paid or to be paid to agents relating to this Bid, and to contract execution if the Bidder is awarded the contract.

6. **Payment condition:** 100% Payment shall be made only after satisfactory delivery of items in good condition and receive satisfactory report by competent authorities after completion the works. Advance payment is not permitted.

7. Normal Commercial warranty/ guarantee (if applicable) to the supplied goods.

INSTRUCTIONS/GUIDELINES TO BIDDERS (ITB)

1. Bidders who had supplied the Government departments, PSUs/NITs/IITs/IIITs and reputed Institutions and Organizations should only apply.

2. The bidder should enclose the cliental list with contact address along with Phone/Fax for reference, for the quoted item.

3. Please quote the prices of F.O.R. Motilal Nehru National Institute of Technology Allahabad, Allahabad.
   [NOTE: Custom/Excise Duty Exemption Certificate will be provided by MNNIT Allahabad after receiving your request letter for the same.
   - **MNNIT Allahabad avails Custom Duty Exemption in terms of Government Notification N. 51/96-Customs dated 23 July, 1996, and Central Excise Duty Exemption in terms of Government Notification N. 10/97-Central Excise dated 01 March, 1997, as amended from time to time.**

4. The Bidders are requested to submit their Quotation with EMD in the form of Demand Draft/ Bank Guarantee/ Short term Deposit of the cost of items in favor of "The Director, MNNIT, Allahabad" payable at Allahabad. Quotation without EMD will be summarily rejected. EMD's of all Bidders will be returned back after the purchase order /contract agreement is issued to successful bidder.

5. Successful Bidders must have to submit the performance security @ 10% of the purchase order or contract value and it will be retained up to the warranty period.

6. The bidder should enclose relevant documents wherever necessary to substantiate his eligibility.

7. The Institute is eligible for and can provide necessary documentation for Custom/Excise and Octroi exemption on demand, if permitted under rule.

8. Motilal Nehru National Institute of Technology Allahabad, Allahabad, reserves the right to reject, accept any or whole or part of any of the tender without assigning any reason thereof and no claim will be heard. In case of dispute, the decision of The Director, MNNIT, and Allahabad will be final and binding.

9. If the successful bidder is not able to supply the goods items within the delivery date specified in the purchase order, the purchase order will be automatically treated as cancelled after expiry of delivery date period. The vendor will have to submit an undertaking in this regard that this condition is acceptable to him. In case of extra ordinary circumstances the vendors must send a request for extension of validity of purchase orders, with proper justification prior to the expiry of validity date for consideration.

10. In case of sophisticated items, an on-site training needs to be provided with no extra cost.

11. The quotation must be accompanied by leaflets/operation manuals/books etc.

12. Wherever applicable the vendors must quote the branded /desired items.

CHECK LIST
(ON THE LETTER HEAD OF THE BIDDER)

The Bid will be the compilation of following documents, along with required supporting documents. No document in support of minimum eligibility criteria will be accepted / entertained after opening of tender.

Sl. No	Documents
1.	Cover letter by bidder (On the Letter Head of the Bidder)
2.	Tender Fee
3.	Earnest Money Deposit (EMD), if required
4.	Cliental List for quoted item
5.	**Annexure-A** : Bid Proposal Sheet (On the Letter Head of the Bidder)
6.	**Annexure-B** : Full Technical Specification of Permanent GPS Base Station
7.	**Annexure-C** : Compliance of bidder with reference to the equipment (On the Letter Head of the Bidder)
8.	**Annexure-D** : PRICE BID (On the Letter Head of the Bidder)

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ANNEXURE-A

BID PROPOSAL SHEET
(ON THE LETTER HEAD OF THE BIDDER)

To
Faculty In-charge (Purchase)
MNNIT Allahabad, Allahabad
Subject: Supply of **"PERMANENT GPS BASE STATION"** at MNNIT Allahabad, Allahabad.

Dear Sir,

We, the undersigned Tenderers, having read and examined in detail the specifications as specified in this document in respect of Supply of **Permanent GPS Base Station** at MNNIT Allahabad, Allahabad do hereby propose to supply the required products and services.

Tender No.				
Tender Fees submitted	YES / NO		(Please strike off whatever is not applicable)	
Amount	Mode	Date of Issue	Name of Bank	Valid up to
	Demand Draft			
EMD submitted	YES / NO		(Please strike off whatever is not applicable)	
Amount	Mode	Date of Issue	Name of Bank	Valid up to
	Demand Draft			

(i) **ADDITIONAL PURCHASE/WORK ORDER:** We understand that the MNNIT Allahabad, Allahabad, in case of the requirements may also place repeat purchase order/work order on the company. In such cases, we shall accept and execute all the purchase/work order placed on us by MNNIT Allahabad, Allahabad.

(ii) **BID PRICING:** We further declare that the prices stated in our proposal are in accordance with your Terms & Conditions in the bidding document. We further understand that the quantities as specified in this Tender may increase or decrease at the time of Award of Purchase Order as per the requirements of MNNIT Allahabad, Allahabad.

(iii) **QUALIFYING DATA:** We confirm that we satisfy the qualifying criteria and have attached the requisite documents as documentary proofs. In case you require any further information/documentary proof in this regard during evaluation of our bid, we agree to furnish the same in time to your satisfaction.

(iv) **CONTRACT PERFORMANCE SECURITY:** We hereby declare that in case the contract is awarded to us, we shall submit the performance Guarantee Bond in the form of Bank Guarantee for the amount of 10% of the total order value.

(v) **PAYMENT TERMS:** We hereby declare that in case the contract is awarded to us, we agree with payment terms specified in the tender documents.

(vi) **CERTIFICATE AND DECLARATION:**

   a) I/We certify that no addition/modification/alteration has been made in the Original Tender Document. If at any stage addition /modification /alteration is noticed in the Original Document, I/We will abide by the terms and conditions contained in the original tender document, failing which MNNIT Allahabad reserves the right to reject the tender and/or cancel the contract

   b) It has been certified that all information provided in tender form is true and correct to the best of my knowledge and belief. We hereby declare that our proposal is made in good faith, without collusion or fraud. No forged /tampered document(s) are produced with tender form for gaining unlawful advantage. We understand that MNNIT Allahabad is authorized to make enquiry to establish the facts claimed and obtained confidential reports from clients.

   c) In case it is established that any information provided by us is false / misleading or in the circumstances where it is found that we have made any wrong claims. Further MNNIT Allahabad is also authorized to blacklist our firm/company/agency and debar us in participating in any tender/bid in future.

   d) I / We assure the Institute that neither I /We, nor any of my /our workers, will do any act which is improper / illegal during the execution in case the tender is awarded to us.

   e) I / We assure the Institute that I / We will NOT be outsourcing any work specified in the tender document, to any other firm.

   f) Neither I / We, nor anybody on my /our behalf will indulge in any corrupt activities /practices in my /our dealing with the Institute.

   g) Our Firm / Company / Agency is not been blacklisted or banned by any Govt. Department, PSU, University, Autonomous Institute or any other Govt. Organization.

   h) I/We certify that, I have understood all the terms & conditions (GCC and ITB etc.), as indicated in enquiry of the tender document, and hereby accept all the same completely.

   i) I/We, further certify that I/We, possess all the statutory /non-statutory registrations, permissions, approvals, etc., from the Competent Authority for providing the requisite services,

   j) We understand that you are not bound to accept the lowest or any bid you may receive.

   k) I/We hereby declare that this tender on acceptance communicated by you shall constitute a valid and binding contract between us.

   l) I/We certify that the submitted quotation is duly paginated and contains from page no. 1 to ………………..

Date: Signature and Seal of the Manufacturer/Bidder

Full Specification of 'PERMANENT GPS BASE STATION'

Sl. No.	Description
1.	The offered receiver must be capable of tracking 50 satellites with up to 6 signals per satellite simultaneously. As such, the offered receiver shall have 300+ physical channels to accommodate this tracking. Dynamic channel allocation is not an acceptable substitute for physical channels as it requires the receiver to cycle through channels and loads the CPU of the receiver. Multiple frequency, 300+ channel GNSS receiver supporting the following simultaneous signal tracking:

GPS:	GLONASS:	GALILEO:	QZSS:	Compass:	SBAS:	L-Band:
1. L1 C/A	1. L1 C/A	1. L1 CBOC	1. L1 C/A	1. B1	1. L1 C/A (EGNOS/MSAS/WAAS)	1. OmniSTAR VBS
2. L2E/L2P	2 L1P	2. E5A	2. L1C	2. B2	2. L5 (WAAS)	2. OmniSTAR HP
3. L2C	3 L2 C/A	3. E5B	3. L1 SAIF	3. B3		3. OmniSTAR XP
4. L5	4. L2P	4. E5AltBoc	4. L2C			
	5. L3 CDMA		5. L5			
			6. LEX			

Sl. No.	Description
2.	Receiver must be capable of tracking all satellites in view, even if unhealthy, to an elevation angle of 0°.
3.	L1, L2 SNR in dB Hz referenced to a 1 Hz (or better) bandwidth SNR (amplitude) discretization should be better than 0.5% of full scale.
4.	The offered receiver shall support RAIM to detect and reject degraded signals to improve position quality.
5.	When and if the DOD disables anti-spoofing, the receiver must be capable of tracking L1 and L2 phase and P code observables.
6.	Receiver must support the ability to enable/disable code and carrier multipath rejection technology using a serial/IP command.
7.	The offered receiver shall offer a minimum of two power inputs supporting both AC and DC operation with a minimum input power range of 10-28VDC.
8.	The offered receiver shall support Power over Ethernet (PoE 802.3af) as a means of powering the receiver.
9.	The offered receiver shall have power consumption less than 5 W while tracking satellites.
10.	Power On and Power off voltages must be user configurable.
11.	The offered receiver shall contain an internal battery and integrated internal battery charger. The internal battery shall be capable of operating the unit standalone for up to 12 hours.
12.	Internal battery must be capable of operating as an internal battery backup system (UPS) with user configurability to enable/disable this functionality.
13.	Integrated charger must be user configurable based on input voltage to determine when to disable charger if voltage is too low.
14.	Integrated charger must be user configurable to allow user the option of setting when the internal battery is charged. Battery charging modes required are to charge when ON or OFF, when ON, when OFF, and NEVER.
15.	Support Power over Ethernet (PoE 802.3af) with user configurability to enable/disable this feature.
16.	Integrated charger must be capable of charging from PoE input with user configurability to enable/disable this feature.
17.	The receiver must automatically restart after loss of power and must power up in the same configuration when powered down (or loss of power).
18.	The receiver front panel display must be capable of being turned off to preserve power.
19.	The receiver shall offer an automatic shutdown and wakeup routine to allow the receiver to power down when not needed, and wake up at a predetermined time and continue the configured activity.
20.	Support of logging rates from 50Hz to 600 seconds.
21.	Must contain embedded (non-removable) memory with 8GB of logging space.
22.	In addition to the internal embedded memory, the receiver must have a source of removable media supporting up to 1TB of logging space.
23.	Must support a minimum of 12 independent and concurrent logging sessions.
24.	Internally logged data shall have a file size of less than 1MB (unzipped) for a 24 hour, 15 second file to maximize storage capacity.
25.	Must be capable of producing both RINEX and BINEX file formats internal to the receiver without the need for external tools/converters.
26.	Must be capable of pushing logged and converted data files to three separate FTP servers.
27.	Must be capable of sending logged and converted data files via email.
28.	Receiver must support both a configurable ring buffer style memory deletion scheme as well as session specific "pools" with similar functionality. Additionally, data must be able to be protected from being overwritten in the case of an event.
29.	Receiver must support the configurable input, output and logging of Met/Tilt measurements.
30.	The receiver must have an integrated RJ45 connector (supporting both TCP/IP and UDP), two serial ports, USB, and an external frequency input.
31.	A minimum of 10 unique TCP/IP ports. Unique meaning one multicast TCP/IP port (allows multiple connections) only counts as 1 TCP/IP port. Each port must be fully configurable independent of the other ports and outputs.
32.	In addition to the 10 TCP/IP ports, the receiver shall support a minimum of 3 NTRIP Caster, 3 NTRIP Client, and 3 NTRIP Server ports.
33.	Receiver must support data streaming on at least 10 TCP/IP ports supporting up to 50 connections.
34.	NTP Client and NTP Server functionality.
35.	Receiver must support IP filtering restricting IP packet access to and from the receiver for enhanced access control security based on individual IP addresses or subnets based on a user specified net mask.
36.	A USB port supporting both Device and Host mode operation.
37.	The receiver must support three Bluetooth connections or greater.
38.	The receiver must support FTP downloads as well as the FTP REST command.
39.	The receiver must support the following streaming data types: CMR, CMR+, CMRx, RTCM v2.x, RTCM v3.x, BINEX, NMEA, and other proprietary type messages.
40.	The offered receiver shall be capable of monitoring its own position and alerting via both graphical and email mean of any detected change in antenna position. The tolerance at which to send alerts shall be user configurable depending upon the solution type in use.
41.	The receiver shall support email alerts for various functions such as tracking, power, reboots, logging, status, etc.
42.	The receiver shall support on board worldwide real-time precise point positioning (PPP), for example, Trimble RTX technology, via both Internet Protocol (IP) and L-Band satellite delivery.
43.	The receiver shall support dynamic domain name system (DDNS).
44.	Receiver must implement a secure network connection (secure means via an encrypted, authenticated session) as well as provide various access levels to the receiver controls.
45.	The offered receiver shall weigh no more than 2 kg (4.5 lbs) with an internal battery installed.
46.	The offered receiver must be configurable in the field without the use of additional aids such as data collectors, computers, PDA type devices, or similar devices/technologies. This should be accomplished via a multi-line LCD style display with sufficient buttons to facilitate such configuration.
47.	Receiver must meet the following environmental specification: Operating temperature: -40° C - + 65° C, Humidity: 100%, fully sealed, Shock: 1m drop to hard surface.
48.	Receiver must have a Mean Time between Failure (MTBF) of at least 57,500 hours according to the Bellcore "Ground Benign" specifications.

Sl. No.			
49.	**Position Performance**	Static (long)	3mm + 0.1 ppm (Horizontal) RMS or better
			3.5mm + 0.4 ppm (Vertical) RMS or better
		Fast (or Rapid) static	5mm + 0.5 ppm (Horizontal) RMS or better
			10mm + 0.5 ppm (Vertical) RMS or better
		RTK	10mm + 1 ppm (Horizontal) RMS or better
			20mm + 1 ppm (Vertical) RMS or better

Bill of Quantity (BOQ)

1. Receiver (1nos)
2. External Geodetic Antenna (1nos)
3. 30m Antenna Cable (1nos)
4. AC charger (1nos)
5. Ethernet Cable (1nos)
6. Cable to connect receiver to Computer (1nos)
7. Software to manage and configure the receiver (1nos)

Signature (in ink, with date) & Seal of Bidder/Tenderer

Technical Compliance of 'PERMANENT GPS BASE STATION'
(ON THE LETTER HEAD OF THE BIDDER)

Sl. No.	Description	Whether meet the requirement (Yes/No)	Quoted Models specifica-tions
1.	The offered receiver must be capable of tracking 50 satellites with up to 6 signals per satellite simultaneously. As such, the offered receiver shall have 300+ physical channels to accommodate this tracking. Dynamic channel allocation is not an acceptable substitute for physical channels as it requires the receiver to cycle through channels and loads the CPU of the receiver. Multiple frequency, 300+ channel GNSS receiver supporting the following simultaneous signal tracking: **GPS:** 1. L1 C/A 2. L2E/L2P 3. L2C 4. L5 **GLONASS:** 1. L1 C/A 2 L1P 3 L2 C/A 4. L2P 5. L3 CDMA **GALILEO:** 1. L1 CBOC 2. E5A 3. E5B 4. E5AltBoc **QZSS:** 1. L1 C/A 2. L1C 3. L1 SAIF 4. L2C 5. L5 6. LEX **Compass:** 1. B1 2. B2 3. B3 **SBAS:** 1. L1 C/A (EGNOS/MSAS/WAAS) 2. L5 (WAAS) **L-Band:** 1. OmniSTAR VBS 2. OmniSTAR HP 3. OmniSTAR XP		
2.	Receiver must be capable of tracking all satellites in view, even if unhealthy, to an elevation angle of 0°.		
3.	L1, L2 SNR in dB Hz referenced to a 1 Hz (or better) bandwidth SNR (amplitude) discretization should be better than 0.5% of full scale.		
4.	The offered receiver shall support RAIM to detect and reject degraded signals to improve position quality.		
5.	When and if the DOD disables anti-spoofing, the receiver must be capable of tracking L1 and L2 phase and P code observables.		
6.	Receiver must support the ability to enable/disable code and carrier multipath rejection technology using a serial/IP command.		
7.	The offered receiver shall offer a minimum of two power inputs supporting both AC and DC operation with a minimum input power range of 10-28VDC.		
8.	The offered receiver shall support Power over Ethernet (PoE 802.3af) as a means of powering the receiver.		
9.	The offered receiver shall have power consumption less than 5 W while tracking satellites.		
10.	Power On and Power off voltages must be user configurable.		
11.	The offered receiver shall contain an internal battery and integrated internal battery charger. The internal battery shall be capable of operating the unit standalone for up to 12 hours.		
12.	Internal battery must be capable of operating as an internal battery backup system (UPS) with user configurability to enable/disable this functionality.		
13.	Integrated charger must be user configurable based on input voltage to determine when to disable charger if voltage is too low.		
14.	Integrated charger must be user configurable to allow user the option of setting when the internal battery is charged. Battery charging modes required are to charge when ON or OFF, when ON, when OFF, and NEVER.		
15.	Support Power over Ethernet (PoE 802.3af) with user configurability to enable/disable this feature.		
16.	Integrated charger must be capable of charging from PoE input with user configurability to enable/disable this feature.		
17.	The receiver must automatically restart after loss of power and must power up in the same configuration when powered down (or loss of power).		
18.	The receiver front panel display must be capable of being turned off to preserve power.		
19.	The receiver shall offer an automatic shutdown and wakeup routine to allow the receiver to power down when not needed, and wake up at a predetermined time and continue the configured activity.		
20.	Support of logging rates from 50Hz to 600 seconds.		
21.	Must contain embedded (non-removable) memory with 8GB of logging space.		
22.	In addition to the internal embedded memory, the receiver must have a source of removable media supporting up to 1TB of logging space.		
23.	Must support a minimum of 12 independent and concurrent logging sessions.		
24.	Internally logged data shall have a file size of less than 1MB (unzipped) for a 24 hour, 15 second file to maximize storage capacity.		
25.	Must be capable of producing both RINEX and BINEX file formats internal to the receiver without the need for external tools/converters.		
26.	Must be capable of pushing logged and converted data files to three separate FTP servers.		
27.	Must be capable of sending logged and converted data files via email.		
28.	Receiver must support both a configurable ring buffer style memory deletion scheme as well as session specific "pools" with similar functionality. Additionally, data must be able to be protected from being overwritten in the case of an event.		
29.	Receiver must support the configurable input, output and logging of Met/Tilt measurements.		
30.	The receiver must have an integrated RJ45 connector (supporting both TCP/IP and UDP), two serial ports, USB, and an external frequency input.		
31.	A minimum of 10 unique TCP/IP ports. Unique meaning one multicast TCP/IP port (allows multiple connections) only counts as 1 TCP/IP port. Each port must be fully configurable independent of the other ports and outputs.		
32.	In addition to the 10 TCP/IP ports, the receiver shall support a minimum of 3 NTRIP Caster, 3 NTRIP Client, and 3 NTRIP Server ports.		
33.	Receiver must support data streaming on at least 10 TCP/IP ports supporting up to 50 connections.		
34.	NTP Client and NTP Server functionality.		
35.	Receiver must support IP filtering restricting IP packet access to and from the receiver for enhanced access control security based on individual IP addresses or subnets based on a user specified net mask.		
36.	A USB port supporting both Device and Host mode operation.		
37.	The receiver must support three Bluetooth connections or greater.		
38.	The receiver must support FTP downloads as well as the FTP REST command.		
39.	The receiver must support the following streaming data types: CMR, CMR+, CMRx, RTCM v2.x, RTCM v3.x, BINEX, NMEA, and other proprietary type messages.		
40.	The offered receiver shall be capable of monitoring its own position and alerting via both graphical and email mean of any detected change in antenna position. The tolerance at which to send alerts shall be user configurable depending upon the solution type in use.		
41.	The receiver shall support email alerts for various functions such as tracking, power, reboots, logging, status, etc.		
42.	The receiver shall support on board worldwide real-time precise point positioning (PPP), for example, Trimble RTX technology, via both Internet Protocol (IP) and L-Band satellite delivery.		

     Signature (in ink, with date) & Seal of Bidder/Tenderer

43.	The receiver shall support dynamic domain name system (DDNS).			
44.	Receiver must implement a secure network connection (secure means via an encrypted, authenticated session) as well as provide various access levels to the receiver controls.			
45.	The offered receiver shall weigh no more than 2 kg (4.5 lbs) with an internal battery installed.			
46.	The offered receiver must be configurable in the field without the use of additional aids such as data collectors, computers, PDA type devices, or similar devices/technologies. This should be accomplished via a multi-line LCD style display with sufficient buttons to facilitate such configuration.			
47.	Receiver must meet the following environmental specification: Operating temperature: -40° C - + 65° C, Humidity: 100%, fully sealed, Shock: 1m drop to hard surface.			
48.	Receiver must have a Mean Time between Failure (MTBF) of at least 57,500 hours according to the Bellcore "Ground Benign" specifications.			
49.	**Position Performance**	Static (long)	3mm + 0.1 ppm (Horizontal) RMS or better	
			3.5mm + 0.4 ppm (Vertical) RMS or better	
		Fast (or Rapid) static	5mm + 0.5 ppm (Horizontal) RMS or better	
			10mm + 0.5 ppm (Vertical) RMS or better	
		RTK	10mm + 1 ppm (Horizontal) RMS or better	
			20mm + 1 ppm (Vertical) RMS or better	

	Bill of Quantity (BOQ)		
1	Receiver (1nos)		
2	External Geodetic Antenna (1nos)		
3	30m Antenna Cable (1nos)		
4	AC charger (1nos)		
5	Ethernet Cable (1nos)		
6	Cable to connect receiver to Computer (1nos)		
7	Software to manage and configure the receiver (1nos)		

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PRICE BID
(ON THE LETTER HEAD OF THE BIDDER)

Sl. No.	Description of item with Specification	Qty	Offered Make/ Model	U/ Price	T/Price (in Rs.)	
					In Figures	In Words
1.	**PERMANENT GPS BASE STATION** (Main Unit, External Geodetic Antenna, Antenna Cable, Charger & Software for Data Processing) **Details specification as per ANNEXURE 'B'**	01No.				

We agree to supply the above goods in accordance with the technical specifications for a total contract price of_____ within the period specified in the Invitation for Quotations.

Signature and Seal of the Manufacturer/Bidder

Note:

1. Bidders should provide copies of original Memorandum and Articles of Association, defining the constitution of legal status, place of registration and place of business of the company.