No.: 0280/Purchase Office/GIS CELL/GPS Base Station/2014 Dated: 08/05/2014

Telephone : 91-532-227+1122, 1123 Fax

Email

0532-2545341, 2545822 :

GRAM : MNNIT Website : http://www.mnnit.ac.in

> spo@mnnit.ac.in, : fip@mnnit.ac.in

मोतीलाल नेहरू राष्ट्रीय प्रौद्योगिकी संस्थान इलाहाबाद, इलाहाबाद–211004 (भारत)

Motilal Nehru National Institute of Technology Allahabad Allahabad-211004 (India)

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:

 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:

GENERAL TERMS & CONDITION (GCC)

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

SI. 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)
0.	

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 Amount Mode		YES / NO	(Please strike off whatever is	s not applicable)
		Date of Issue	Name of Bank	Valid up to
	Demand Draft			
EMD submit	ted	YES / NO	s not applicable)	
Amount	Mode	Date of Issue	Name of Bank	Valid up to
	Demand Draft			

ADDITIONAL PURCHASE/WORK ORDER: We understand that the MNNIT Allahabad, Allahabad, in case of the requirements may (i) 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.

BID PRICING: We further declare that the prices stated in our proposal are in accordance with your Terms & Conditions in the bidding (ii) 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 gualifying 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.
- CONTRACT PERFORMANCE SECURITY: We hereby declare that in case the contract is awarded to us, we shall submit the (iv) performance Guarantee Bond in the form of Bank Guarantee for the amount of 10% of the total order value.
- PAYMENT TERMS: We hereby declare that in case the contract is awarded to us, we agree with payment terms specified in the (v) tender documents.

CERTIFICATE AND DECLARATION: (vi)

- 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
- It has been certified that all information provided in tender form is true and correct to the best of my knowledge and belief. We b) 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.
- In case it is established that any information provided by us is false / misleading or in the circumstances where it is found that we c) 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.
- 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 d) 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.
- Neither I / We, nor anybody on my /our behalf will indulge in any corrupt activities /practices in my /our dealing with the Institute.
- Our Firm / Company / Agency is not been blacklisted or banned by any Govt. Department, PSU, University, Autonomous Institute g) or any other Govt. Organization.
- I/We certify that, I have understood all the terms & conditions (GCC and ITB etc.), as indicated in enquiry of the tender document, h) and hereby accept all the same completely.
- I/We, further certify that I/We, possess all the statutory /non-statutory registrations, permissions, approvals, etc., from the i) Competent Authority for providing the requisite services,
- We understand that you are not bound to accept the lowest or any bid you may receive.
- I/We hereby declare that this tender on acceptance communicated by you shall constitute a valid and binding contract between us. I/We certify that the submitted quotation is duly paginated and contains from page no. 1 to k)

I)

Date:

Signature and Seal of the Manufacturer/Bidder

ANNEXURE-B

Full Specification of 'PERMANENT GPS BASE STATION'

1. c	Description													
¹ . c	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 suppor	ting the following s	simultaneous signal	tracking:	-		-							
1	GPS: 1. L1 C/A	GLONASS: 1. L1 C/A	GALILEO: 1. L1 CBOC	QZSS: 1. L1 C/A	Compass: 1. B1	SBAS: 1. L1 C/A (EGNOS/MSAS/WAAS)	L-Band: 1. OmniSTAR VBS							
	2. L2E/L2P 3. L2C	2 L1P 3 L2 C/A	2. E5A 3. E5B	2. L1C 3. L1 SAIF	2. B2 3. B3	2. L5 (WAAS)	2. OmniSTAR HP 3. OmniSTAR XP							
4	4. L5	4. L2P 5. L3 CDMA	4. E5AltBoc	4. L2C 5. L5										
				6. LEX										
			ng all satellites in view a 1 Hz (or better) ban			ngle of 0°. n should be better than 0.5% of full	scale.							
4. 1	The offered recei	iver shall support R	AIM to detect and rej	ect degraded signals	s to improve posi	tion quality.								
					0	L2 phase and P code observables. logy using a serial/IP command.								
7. 1	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. The offered receiver shall support Power over Ethernet (PoE 802.3af) as a means of powering the receiver.													
9. 1	The offered recei	iver shall have pow	er consumption less t	han 5 W while tracki										
			nust be user configura an internal battery and		battery charger	The internal battery shall be capa	ble of operating the							
ι	unit standalone f	or up to 12 hours.		-										
						user configurability to enable/disab able charger if voltage is too low.	ble this functionality.							
14. I	Integrated charg	er must be user c	configurable to allow u	user the option of s		internal battery is charged. Batte	ery charging modes							
		0	OFF, when ON, when 802.3af) with user cor		e/disable this fea	ture.								
16. I	Integrated charge	er must be capable	of charging from PoE	input with user con	figurability to ena	able/disable this feature.								
			tart after loss of powe st be capable of being			nfiguration when powered down (or	loss of power).							
19. 1	The receiver sha	all offer an automa	atic shutdown and wa			to power down when not needed,	, and wake up at a							
		me and continue th ig rates from 50Hz	e configured activity. to 600 seconds.											
21. N	Must contain em	bedded (non-remov	vable) memory with 80											
			d memory, the receive pendent and concurre			nedia supporting up to 1TB of loggi	ng space.							
24. I	Internally logged	data shall have a f	ile size of less than 1	MB (unzipped) for a	24 hour, 15 seco	and file to maximize storage capacit								
			RINEX and BINEX file and converted data fil			out the need for external tools/conv	erters.							
27. N	Must be capable	of sending logged	and converted data fil	es via email.										
			igurable ring buffer st e protected from being			ell as session specific "pools" with	similar functionality.							
29. F	Receiver must su	upport the configura	able input, output and	logging of Met/Tilt m	neasurements.		-							
						o serial ports, USB, and an external ultiple connections) only counts as 1								
F	port must be fully	configurable indep	pendent of the other p	orts and outputs.		. , ,	•							
						NTRIP Client, and 3 NTRIP Server ptions.	ports.							
34. N	NTP Client and N	NTP Server function	nality.				Receiver must support data streaming on at least 10 TCP/IP ports supporting up to 50 connections. NTP Client and NTP Server functionality.							
35. F			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. A USB port supporting both Device and Host mode operation.												
a 36. <i>A</i>	The receiver must support three Bluetooth connections or greater.													
36. A 37. 1		orting both Device st support three Blu	ser specified net mask and Host mode opera	k. tion. greater.	nd.		sed on individual IP							
36. / 37. 1 38. 1 39. 1	The receiver mus The receiver mus	orting both Device st support three Blu st support FTP dow	ser specified net mask and Host mode opera letooth connections or nloads as well as the	κ. tion. · greater. FTP REST commar		/2.x, RTCM v3.x, BINEX, NMEA, a								
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ANNEXURE-C

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

SI. No.	».							Quoted Models specifi ca- tions
1.								
					eiver to cycle through chan			
L	of the receiver. Multiple	frequency, 300+	channel GNS	S receiver sup	oporting the following simul	aneous signal tracking:		
	GPS: GLONASS:	GALILEO:	QZSS:	Compass:	SBAS:	L-Band: 1. OmniSTAR VBS		
	1. L1 C/A 1. L1 C/A 2. 2 L1P	1. L1 CBOC	1. L1 C/A 2. L1C	1. B1 2. B2	1. L1 C/A (EGNOS/MSAS/WAAS)	2. OmniSTAR VBS		
	L2E/L2P 3 L2 C/A	2. E5A	3. L1 SAIF	3. B3	2. L5 (WAAS)	3. OmniSTAR XP		
	3. L2C 4. L2P	3. E5B	4. L2C					
	4. L5 5. L3 CDMA	4. E5AltBoc	5. L5 6. LEX					
2.	Receiver must be capa	le of tracking all s		w, even if unl	healthy, to an elevation ang	le of 0°.		
3.					NR (amplitude) discretization			
	0.5% of full scale.							
4.					d signals to improve position			
5.	when and if the DOD observables.	lisables anti-spoc	fing, the rece	iver must be	capable of tracking L1 an	d L2 phase and P code		
6.		the ability to one	blo/disablo_cc	do and carri	er multipath rejection tech	nology using a sorial/IP		
0.	command.		ible/ulsable cc		er multipatit tejection tech	nology using a senal/ir		
7.		all offer a minimu	m of two powe	er inputs sup	porting both AC and DC or	peration with a minimum		
	input power range of 10	-28VDC.						
8.) as a means of powering the	ne receiver.		
	The offered receiver sh				ile tracking satellites.			
10.	Power On and Power of				internal bottomy charges	bo intornal bottom about		
11.	be capable of operating				internal battery charger. 1	ne internal battery shall		
12.					/ backup system (UPS) wit	h user configurability to		
	enable/disable this fund	ionality.	-					
13.	Integrated charger mus	be user configura	able based on	input voltage	e to determine when to disa	able charger if voltage is		
	too low.							
14.					ion of setting when the inte			
15.					en ON, when OFF, and NE to enable/disable this feature			
16.					user configurability to enable			
17.					power up in the same cont			
	down (or loss of power)	-						
18.	The receiver front pane							
19.	needed, and wake up a				ne to allow the receiver to	power down when not		
20.					igureu activity.			
21.								
22.	In addition to the interr				ave a source of removable	media supporting up to		
	1TB of logging space.							
23.	Must support a minimu					and file to maximize		
24.	storage capacity.	nall have a file s	size of less th	an TIVIB (unz	zipped) for a 24 hour, 15	second file to maximize		
25.		lucing both RINE	X and BINEX	file formats ir	nternal to the receiver with	out the need for external		
	tools/converters.	-						
26.	Must be capable of pus							
27.	Must be capable of sen							
28.					deletion scheme as well as			
29.	Receiver must support				ted from being overwritten	III THE CASE OF ALL EVENT.		
					oth TCP/IP and UDP), two s	erial ports. USB. and an		
JU.	external frequency inpu					•		
30.			Inique meani	na one multio	cast TCP/IP port (allows m			
30. 31.	A minimum of 10 uniqu							
31.	A minimum of 10 unique counts as 1 TCP/IP por	Each port must	be fully config	urable indepe	endent of the other ports an	d outputs.		
	A minimum of 10 unique counts as 1 TCP/IP por In addition to the 10 T	Each port must	be fully config	urable indepe		d outputs. 3 NTRIP Client, and 3		
31. 32.	A minimum of 10 unique counts as 1 TCP/IP por In addition to the 10 T NTRIP Server ports.	Each port must CP/IP ports, the r	be fully config eceiver shall	urable indepe support a min	endent of the other ports an nimum of 3 NTRIP Caster,	3 NTRIP Client, and 3		
31. 32. 33.	A minimum of 10 unique counts as 1 TCP/IP por In addition to the 10 T NTRIP Server ports. Receiver must support	Each port must CP/IP ports, the r lata streaming on	be fully config eceiver shall	urable indepe support a min	endent of the other ports an	3 NTRIP Client, and 3		
31. 32. 33. 34.	A minimum of 10 unique counts as 1 TCP/IP por In addition to the 10 T NTRIP Server ports. Receiver must support NTP Client and NTP Set	Each port must CP/IP ports, the r lata streaming on rver functionality.	be fully config eceiver shall at least 10 TC	urable indepe support a min CP/IP ports su	endent of the other ports an nimum of 3 NTRIP Caster, upporting up to 50 connection	3 NTRIP Client, and 3		
31. 32. 33.	A minimum of 10 unique counts as 1 TCP/IP por In addition to the 10 T NTRIP Server ports. Receiver must support NTP Client and NTP Set	Each port must CP/IP ports, the r lata streaming on rver functionality. IP filtering restric	be fully config eceiver shall at least 10 TC ting IP packe	urable independent support a min CP/IP ports support t access to a	endent of the other ports an nimum of 3 NTRIP Caster, upporting up to 50 connection and from the receiver for e	3 NTRIP Client, and 3		
31. 32. 33. 34. 35.	A minimum of 10 unique counts as 1 TCP/IP por In addition to the 10 T NTRIP Server ports. Receiver must support NTP Client and NTP Se Receiver must support security based on indiving A USB port supporting	Each port must CP/IP ports, the r lata streaming on rver functionality. IP filtering restric dual IP addresses oth Device and H	be fully config eceiver shall at least 10 TC ting IP packet or subnets bat ost mode ope	urable indepension of the support a minimate support a minimate support a minimate support of the support of th	endent of the other ports an nimum of 3 NTRIP Caster, upporting up to 50 connection and from the receiver for e	3 NTRIP Client, and 3		
31. 32. 33. 34. 35. 36. 37.	A minimum of 10 unique counts as 1 TCP/IP por In addition to the 10 T NTRIP Server ports. Receiver must support NTP Client and NTP Se Receiver must support security based on indiv A USB port supporting The receiver must support	Each port must CP/IP ports, the r lata streaming on rver functionality. IP filtering restric dual IP addresses oth Device and H ort three Bluetooth	be fully config eceiver shall at least 10 TC ting IP packe or subnets ba ost mode ope n connections	urable independent support a min CP/IP ports support t access to a used on a use ration. or greater.	endent of the other ports an nimum of 3 NTRIP Caster, upporting up to 50 connection and from the receiver for e er specified net mask.	3 NTRIP Client, and 3		
31. 32. 33. 34. 35. 36. 37. 38.	A minimum of 10 unique counts as 1 TCP/IP por In addition to the 10 T NTRIP Server ports. Receiver must support NTP Client and NTP Se Receiver must support security based on indiv A USB port supporting The receiver must supp The receiver must supp	Each port must CP/IP ports, the r lata streaming on rver functionality. IP filtering restric dual IP addresses oth Device and H port three Bluetooth port FTP download	be fully config eceiver shall at least 10 TC ting IP packe or subnets ba ost mode ope connections s as well as th	urable independent support a mini- CP/IP ports support t access to a used on a use ration. or greater. e FTP REST	endent of the other ports an nimum of 3 NTRIP Caster, upporting up to 50 connection and from the receiver for e er specified net mask.	3 NTRIP Client, and 3 ons. nhanced access control		
31. 32. 33. 34. 35. 36. 37.	A minimum of 10 unique counts as 1 TCP/IP por In addition to the 10 T NTRIP Server ports. Receiver must support NTP Client and NTP Se Receiver must support security based on indivi- A USB port supporting The receiver must support The receiver must support The receiver must support	Each port must CP/IP ports, the r lata streaming on rver functionality. IP filtering restric dual IP addresses oth Device and H ort three Bluetooth ort three Bluetooth ort FTP download ort the following s	be fully config eceiver shall at least 10 TC ting IP packe or subnets ba ost mode ope to connections is as well as the streaming dat	urable independent support a mini- CP/IP ports support t access to a used on a use ration. or greater. e FTP REST	endent of the other ports an nimum of 3 NTRIP Caster, upporting up to 50 connection and from the receiver for e er specified net mask.	3 NTRIP Client, and 3 ons. nhanced access control		
31. 32. 33. 34. 35. 36. 37. 38. 39.	A minimum of 10 unique counts as 1 TCP/IP por In addition to the 10 T NTRIP Server ports. Receiver must support NTP Client and NTP Se Receiver must support security based on indiv A USB port supporting The receiver must supp The receiver must supp The receiver must supp NMEA, and other propr	Each port must CP/IP ports, the r rver functionality. IP filtering restric dual IP addresses oth Device and H ort three Bluetooth ort fTP download ort the following etary type messag	be fully config eceiver shall s at least 10 TC ting IP packe or subnets ba ost mode ope n connections s as well as th streaming dat ges.	urable independent support a mini- cP/IP ports support a access to a lised on a use ration. or greater. e FTP REST a types: CMF	endent of the other ports an nimum of 3 NTRIP Caster, apporting up to 50 connection and from the receiver for e er specified net mask. command. R, CMR+, CMRx, RTCM v2	3 NTRIP Client, and 3 ons. nhanced access control 2.x, RTCM v3.x, BINEX,		
31. 32. 33. 34. 35. 36. 37. 38.	A minimum of 10 unique counts as 1 TCP/IP por In addition to the 10 T NTRIP Server ports. Receiver must support NTP Client and NTP Se Receiver must support security based on indiv A USB port supporting The receiver must supp The receiver must supp The receiver must supp NMEA, and other propr The offered receiver st	Each port must CP/IP ports, the r rver functionality. IP filtering restric dual IP addresses oth Device and H ort three Bluetooth ort three Bluetooth ort FTP download ort the following etary type messag all be capable of	be fully config eceiver shall at least 10 TC ting IP packer or subnets ba ost mode ope n connections is as well as the streaming dat ges.	urable independent support a mini- cP/IP ports support a access to a used on a use ration. or greater. e FTP REST a types: CMF own position	endent of the other ports an nimum of 3 NTRIP Caster, apporting up to 50 connection and from the receiver for e er specified net mask. command. R, CMR+, CMRx, RTCM v2 and alerting via both grap	3 NTRIP Client, and 3 ons. nhanced access control 2.x, RTCM v3.x, BINEX, hical and email mean of		
31. 32. 33. 34. 35. 36. 37. 38. 39.	A minimum of 10 unique counts as 1 TCP/IP por In addition to the 10 T NTRIP Server ports. Receiver must support NTP Client and NTP Se Receiver must support security based on indiv A USB port supporting The receiver must supp The receiver must supp The receiver must supp NMEA, and other propr The offered receiver st	Each port must CP/IP ports, the r rver functionality. IP filtering restric dual IP addresses oth Device and H ort three Bluetooth ort three Bluetooth ort FTP download ort the following etary type messag all be capable of antenna position	be fully config eceiver shall at least 10 TC ting IP packer or subnets ba ost mode ope n connections is as well as the streaming dat ges.	urable independent support a mini- cP/IP ports support a access to a used on a use ration. or greater. e FTP REST a types: CMF own position	endent of the other ports an nimum of 3 NTRIP Caster, apporting up to 50 connection and from the receiver for e er specified net mask. command. R, CMR+, CMRx, RTCM v2	3 NTRIP Client, and 3 ons. nhanced access control 2.x, RTCM v3.x, BINEX, hical and email mean of		
31. 32. 33. 34. 35. 36. 37. 38. 39.	A minimum of 10 unique counts as 1 TCP/IP por In addition to the 10 T NTRIP Server ports. Receiver must support NTP Client and NTP Set Receiver must support security based on indiving A USB port supporting The receiver must support The offered receiver start any detected change in upon the solution type in The receiver shall support	Each port must CP/IP ports, the r rver functionality. IP filtering restric dual IP addresses oth Device and H ort three Bluetooth ort three Bluetooth ort the following etary type messac all be capable of antenna position or use.	be fully config ecciver shall at least 10 TC ting IP packer or subnets bar ost mode ope to connections a swell as the streaming dat ges. monitoring its . The tolerand various functi	urable independent support a mini- cP/IP ports support a cccess to a lised on a use ration. or greater. e FTP REST a types: CMF own position ce at which the ons such as t	endent of the other ports an nimum of 3 NTRIP Caster, apporting up to 50 connection and from the receiver for e er specified net mask. command. R, CMR+, CMRx, RTCM v2 and alerting via both grap	3 NTRIP Client, and 3 ons. nhanced access control 2.x, RTCM v3.x, BINEX, hical and email mean of configurable depending gging, status, etc.		

43.	13. The receiver shall support dynamic domain name system (DDNS).					
44.						
	as provide various access levels to the receiv					
45.	The offered receiver shall weigh no more that					
46.	The offered receiver must be configurable					
	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.						
	100%, fully sealed, Shock: 1m drop to hard s					
48.	48. Receiver must have a Mean Time between Failure (MTBF) of at least 57,500 hours according to the Bellcore "Ground					
	Benign" specifications.					
49.		Static	3mm + 0.1 ppm (Horizontal) RMS or better			
		(long)	3.5mm + 0.4 ppm (Vertical) RMS or better			
		Fast (or	5mm + 0.5 ppm (Horizontal) RMS or better			
	Position Performance	Rapid)	10mm + 0.5 ppm (Vertical) RMS or better			
		static RTK	10mm + 1 nnm (Herizentel) BMC or better			
			10mm + 1 ppm (Horizontal) RMS or better			
			20mm + 1 ppm (Vertical) RMS or better			
-	Bill of Quantity (BOQ)				T	
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 (1no	s)				
7	Software to manage and configure the received	ver (1nos)				

ANNEXURE-D

PRICE BID (ON THE LETTER HEAD OF THE BIDDER)

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

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.

Note:

Signature and Seal of the Manufacturer/Bidder

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.