

ज्ञापांक.....५५११/आपूर्ति

92-1-8-2015


पुलिस महानिदेशक का कार्यालय, बिहार, पटना।

पटना, दिनांक- 22-8-16

सेवा में,

निदेशक,
सूचना एवं जनसम्पर्क विभाग,
बिहार, पटना।

विषय- निविदा आमंत्रण सूचना सं०-32/2016-17 के प्रकाशन के संबंध में।
निदेशानुसार उपर्युक्त विषय के संबंध में निविदा आमंत्रण सूचना सं०-32/2016-17 की पाँच प्रतियाँ (सी०डी० सहित) संलग्न करते हुए अनुरोध है कि इसे राज्य एवं राज्य से बाहर के प्रमुख समाचार पत्रों में (अंग्रेजी एवं हिन्दी) के अगले दो संस्करणों में प्रकाशित कराने की कृपा की जाय साथ ही पी०आर०डी० वेबसाइट पर भी प्रसारित करने की कृपा की जाय।
इस निविदा आमंत्रण सूचना का प्रकाशन किन-किन समाचार पत्रों में किया गया इसकी सूचना देने की कृपा की जाय।
अनु०-यथोपरि।


पुलिस महानिरीक्षक के सहायक (क्यू०),
बिहार, पटना।

प्रतिलिपि:-


- आई०टी० मैनेजर, पुलिस महानिदेशक का कार्यालय, बिहार, पटना को कृपया सूचनार्थ। कृपया इसे आज ही वेबसाइट पर अपलोड किया जाय।

Police Headquarters, Bihar, Patna
Notice Inviting Tender No-32/2016-17

1. Name of the Department : Office of Director General of Police, Bihar, Patna.
2. Last date & time for the acceptance of the Tender : 22/09/2016, Till 11:00 AM.
3. Date & time fixed for the opening of the Tender : 22/09/2016 At 11:00 AM
4. Place fixed for receiving & opening the tender : Office of Director General of Police, Bihar, Patna.
5. Details of Job :

S.N.	Item name	Quantity
1	Radio Test Equipment	02

Specifications and other terms & conditions of the tender may be obtained in person from this office or may be downloaded from the website www.prdbihar.org or www.biharpolice.bih.nic.in.


AIG (Q)
 Bihar, Patna


Terms & Conditions Of Tender No. 32/2016-17

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tender of the firm will be accepted only on the condition that if their tenders are approved, the firm shall get registered with the Commercial Tax Department, Bihar, before the purchase order is issued.

2. The tender should be submitted in two parts : (i) Technical Bid and (ii) Financial Bid, duly sealed in two separate envelopes super-scribed as "Technical Bid" and "Financial Bid".
3. All relevant papers/certificates/specifications etc. of items should be enclosed in the Technical Bid.
4. The rates of the items shall be quoted in the Financial Bid only.
5. All charges like BST/CST/Service Tax /VAT etc. shall be clearly mentioned in the Financial Bid and the net rate (in figures and words) including all taxes and duties must also be quoted. Vague offers like indicating taxes "as applicable" will not be accepted.
6. The rates of the items shall be quoted in the Financial Bid in two parts :
(i) With AMC (Annual Maintenance Contract) and (ii) Without AMC
7. There should be no cutting, over writing or correction on the rates.
8. The technical and financial bids for each item should be submitted separately in separate envelopes. The technical and financial bids for more than one items submitted together in the same envelope shall not be accepted.
9. If the financial bid is submitted in the same envelope containing the technical bid then also it shall be summarily rejected.
10. The technical and financial bids should be put in two separate sealed envelopes and the envelopes should be marked Tender No-32/2016-17 (Technical Bid) and Tender No-32/16-17(Financial Bid) along with the name and address of the firm.
The sealed envelopes containing the technical and the financial bids should be sent in another sealed envelope which should be marked as Tender No-32/2016-17. This envelope should not bear the name and address of the firm.
11. Up-to-date Income Tax Returns, Turn Over of last three financial years and a photocopy of PAN of the participating firm should be submitted with the technical bid. It should be specifically mentioned whether IT return has been filed manually or electronically.
12. The turn over of the firm for the 2015-16 financial year should be at least double the amount of the supply order which is being issued. A copy of the profit and loss Account of the firm for the 2015-16 financial year, certified by a Chartered Accountant should be submitted along with the tender. If the tenderer is authorized dealer or authorized supplier of manufacturing firm, then the certified details of the turnover of authorizing firm may be accepted.
13. If there is some discount in the price of any item, it should be deducted from price itself and should not be quoted separately.
14. If the product is available on DGS & D rate contract, then a copy of the contract must be attached and pricing be done including all taxes.
15. A copy of the test report for the product issued by a competent authority within last one year should be attached with the technical bid.

16. In case of Bullet Proof/Bullet Resistant items, test report of TBRL is compulsory.
17. Firms participating in this tender shall also submit duly sworn affidavit to the effect that " this firm has not been black listed/debarred by any Government or Semi Government or Private Agency and no sister concern of this firm is participating in this tender."
18. Firms participating in this tender shall also submit the self attested list of users of its equipments.
19. All items shall be received at Central Clothing Store, Patna, therefore price should be quoted FOR Central Clothing Store, Phulwari Sharif, Patna.
20. Firms will have to deposit a sum of Rs.50,000/- (Fifty Thousand) only as an earnest money in the form of Bank Draft duly pledged in favour of the undersigned along with the quotations.
21. Technical Bids will be opened on schedule date and time in the office chamber of Police Headquarter. Representatives of the firms competing in the tender may remain present at the time of opening of the technical bid.
22. The technical bids will be opened first and placed before the Technical Committee of the Police Headquarters, Bihar. If the technical bids are found satisfactory as per tender conditions, it will be put before Central Purchase Committee of the Police Headquarters, Bihar. The firms may be required to participate in the demonstrations of the quoted product and discussions with this committee.
23. Any paper/document will not be accepted after opening the tender.
24. Successful firm will have to enter into an agreement after depositing a sum of 5% of the total value of the order as security money in the form of Bank Guarantee duly pledged in favor of undersigned.
25. The firm will be required to provide satisfactory service after the delivery of the product.
26. The firm will be required to supply all the items within the stipulated time frame as mentioned in the purchase order.
27. Payment for the delivered items will be made only after the acceptance report of the Inspection Committee of the Police Headquarters, Bihar.
28. The firm whose quotation is approved by the Central Purchase Committee of the Police Headquarters, Bihar, shall be invited to enter into an agreement with the undersigned.
29. It is compulsory to submit the duly filled chart attached herewith, along with the technical bid.
30. Indexing of the requisite documents must be done and submitted along with the technical bid.
31. Hands on training of the equipment must be imparted to the user group by the firm.
32. Director General of Police Bihar, Patna reserves the right to reject any or all the quotations partially or fully without assigning any reason thereof.
33. The Quantity indicated may increase or decrease at the time of issuing purchase order.


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Bihar, Police

RADIO COMMUNICATION (ANALOG & DIGITAL) SET Consisting of:

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1. RF Signal Generator
2. RF Power Meter
3. Audio Frequency Counter
4. SINAD Meter
5. Distortion meter
6. Audio Function Generator
7. Oscilloscope
8. Digital Multimeter
9. Channel Analyzer
10. Tracking Generator
11. Frequency Counter
12. Frequency Error Meter
13. Signal Strength Meter
14. Antenna and Cable Fault Locator
15. SNR Meter
16. DMR Radio Test Facility
17. DMR Repeater Test

S. No.	Parameters	Specifications
1.	General Characterization	
	a. Operating voltage	AC 220+10% @50Hz, DC: 24/12V Internal/External
	b. Display Size	Minimum 6" full color LCD or Better
	c. USB port	Should be available
	d. Ethernet	Should be available
	e. Calibration Support	Calibration facilities should be available in India free of cost during the guarantee/warranty period
	f. Field up gradations	i. The product should field upgradable to other Digital Technologies such as P25 Phase I & II testing, DMR Radio with repeater, NXDN, dPMR, PTC. ii. The equipment should be capable of performing tests of digital/analog radio set and contain all functionalities in one stand-alone unit. iii. Service support should be available in India.
2.	Signal Generator For receiver test	
	a. Frequency Range	250KHz to 1GHz or better
	b. Frequency Resolution	1Hz or better
	c. Output level range	T/R Port: -50 to -125dBm Gen Port: -5 to -65 dBm
	d. Resolution	0.1dB or better
	e. Port protection limit	a. T/R Port: 50W for 5 Minutes and 150W for 30s b. Antenna Port: +20 dBm with warning above +17dBm c. Gen Port: +20 dBm with warning above +17dBm (Remove power immediately when alarm sounds)
	f. Harmonics	-20dBc Max or better
	g. Non-Harmonics	-30dBc Max or better
2.1.	Modulation	
	a. Selection Mode	OFF, AM, FM
	b. Waveforms	Sine
2.2.	FM Modulation	
	a. Deviation Range	0 to +75KHz or better
	b. Deviation accuracy	5% of setting
	c. Resolution	10Hz or better
	d. Modulation range	DC to 20KHz or better

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QRS/Specification or Radio Comm Test Set (Analog/Digital)		
S.No.	Parameters	Specification
2.3.	AM Modulation	
	a. AM depth range	0-100% or better
	b. Accuracy	Up to 10%
	c. Modulation Bandwidth	DC to 20 KHz or better
	d. Resolution	1Hz
3.	Receiver (Transmitter test)	
	a. Frequency range	250kHz to 1GHz or better
	b. Demodulation selection	OFF, AM, FM
	c. Signal Code	1KHz tone Private line, Digital Private line, Single tone, Two-tone paging, 3/6 tone paging, POCSAG, external input from both supplied microphone and BNC input.
	d. Sensitivity	Less than -25dBm (10dB SINAD) or better
3.1	Demodulation Measurement	
	a. FM Deviation	Range: 500Hz to 75KHz or better
	b. Accuracy	±3%
	c. Range	20Hz to 20KHz
	d. AM Deviation	Range: 5% to 100%
	e. Accuracy	Up to 5%
	f. AM rate	20Hz to 15KHz or better
4.	RF Power Meter	
	a. Range 0.10 to 125Watt. Resolution 0.01W	
	a. VSWR (with attenuator <10dB): Better than 1.20:1	
5.	Signal to Noise Ratio Meter	
	a. Frequency range	300Hz to 3KHz or better
	b. Range	-80dB to 0 dB or better
	c. Accuracy	±1dB
6.	Audio Frequency Counter	
	Range	20 to 20KHz
	Wave Shape	Sine or Square
7.	SINAD meter	
	a. Frequency range	300Hz to 3KHz or better
	b. Accuracy	±1.5dB
	c. Range	0 to 50dB or better
	d. Level	0.9 Vpp to 90 Vpp or better
8.	Distortion meter	
	a. Distortion range	1% to 50% or better
	b. Freq range	300Hz to 3KHz
	c. Resolution	10% or better
9.	Audio Generator	
	a. Frequency Range	Sine, DC to 20KHz or better
	b. Level range	0 to 1.57 Vrms
	c. Modulation type	1KHz tone, Single tone, DTMF, Two-tone paging etc.
10.	Oscilloscope	
	a. Frequency range (vertical)	100 to 5KHz or better
	b. Input range (vertical)	10mV to 10 V
	c. Accuracy (vertical)	10% of full scale
	d. Accuracy (Horizontal)	3% of full scale
	e. Marker Functions	Time with Amplitude, deviation or % depth
11.	Digital Multimeter	
	a. Voltage Range	200mV to 1000V, or more (150VAC rms or VDC max input)
	b. AC voltage freq range	50Hz to 10KHz
	c. Accuracy	AC +5% full-scale ±1 LSB DC ±1% full scale ±1 LSB
	d. AC/DC ampere meter	200mA to 20A or better Auto (20A range uses optional shunt connected to voltmeter)
	e. Resolution	3 digit or more (up to 2000 Counts)
	f. Ohmmeter	Full scale range: 200 Ohms to 20Mohms, Auto
12.	RF Spectrum Analyzer	
	a. Frequency range	2MHz to 1 GHz
	b. Frequency resolution	1Hz
	c. Span	10 KHz to 5 MHz

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	d. Noise Floor	-140 dBm
13.	Tracking generator	
	a. Tracking generator output	Refer to RF Spectrum Analyzer section for: - Frequency range and accuracy - Output level range, resolution and accuracy
	b. Tracking generator controls	Output port selection, RF level, reference cal
14.	DMR Radio Technology	
	a. RF Signal Generator	250KHz - 1GHz or better
	b. Output level	Same as in case of signal generator
	c. Modulation	4-FSK
	d. Test Pattern	STD IB 1030, STD IB CAL, STD IB 511 (.153)
	e. Duplex Radio/Repeater	Testing facility should be available
	f. Vocoder test	Vocoder testing facility should be available
14.1.	DMR Measurement FSK-Error	Test Facility should be available
	a. Range	0 to 10%
	b. Resolution	0.1%
	c. Accuracy	<5.0% of reading
14.2.	Symbol Deviation	
	a. Range	1745 to 2140 Hz
	b. Resolution	0.1 Hz
	c. Accuracy	+/- 10 Hz
14.3.	Symbol clock Error	
	a. Range	+/- 12ppm
	b. Resolution	0.01 ppm
	c. Accuracy	+/- 1 ppm
14.4.	DMR Repeater Test	Test Facility should be available
15.	Environmental and Safety Standard	
	a. Operating temperature	0 to 45 degree Celsius (in accordance with MIL PRF - 2880F Class-3)
	b. Storage Temperature	-20 to 60 degree Celsius
	c. Relative Humidity	75% up to 30 degree Celsius
	d. Safety Standard	UL61010B-1, EN61010-1, CSA C22.2 No-61010-1 or equivalent.
16.	Accessories	
		All required accessories for testing all parameters of equipment and User/Maintenance Manual must be provided.
		BNC Male to TNC Male cable
		N Male to BNC Female Adapter
		TNC Male to BNC Female Adapter
		Operational Manual Hard/Soft Copy
		Power Cord
		Technical Manual Hard/Soft Copy
		Antenna
		Microphone
		Oscilloscope Probe
		24V to 12V converter
		Soft carry case
		Remote front Panel

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