निविदा सूचना

उत्तर प्रदेश पुलिस रेडियो मुख्यालय, महानगर, लखनऊ — 226006 निवदा संख्याः ई-04/20145 दिनांकः फरवरी-24 2015

निम्नलिखित उपकरणों के क्रय हेतु दो प्रतियों में टेक्निकल एवं वित्तीय भाव पत्र अलग–अलग मुहरबन्द आमन्त्रित किये जाते हैं:--

		प्रतिभूति राशि	टेण्डर फीस (रू०)	
क्र0 उपकरण का नाम		NICTOR CITY	नकद	बैंक ड्राफ्ट/ पोस्टल ऑडर द्वारा
1	रेडियो मुख्यालय, लखनऊ से 04 जनपदों के मध्य कम्प्यूटर कनेक्टिविटी की व्यवस्था के क्य/अधिष्ठापन	80,000/-	300/-	350/-

उपरोक्त कार्य की आपूर्ति हेतु इच्छुक फर्में किसी भी कार्य दिवस में रेडियो मुख्यालय से टेण्डर फीस नकद जमाकर अथवा निर्धारित धनराशि का ड्राफ्ट/पोस्टल आर्डर डाक से भेजकर निविदा फार्म मय टेक्नीकल/फाइनेन्सियल बिड के प्रारूप व शर्तों सहित प्राप्त कर सकती हैं। निविदा फार्म के साथ उपरोक्त कार्य हेतु बीओक्यू एवं तकनीकी विशिष्टियाँ (स्पेशिफिकेशन) उपलब्ध करायी जायेंगी। टेण्डर से सम्बन्धित कोई भी जानकारी किसी भी कार्य दिवस में मोबाइल नं. 09454402615 पर प्राप्त की जा सकती है। निविदा सूचना उ० प्र० पुलिस की वेबसाइट www.uppolice.gov.in एवं सूचना विभाग की वेबसाइट www.upgov.nic.in पर देखी जा सकती है। निविदा की अन्य शर्ते निविदा फार्म में उल्लिखित हैं। विभाग के कार्यालय का फैक्स नं. 0522—2335346 है।

- 2. निविदा के साथ उपकरण के सम्मुख दर्शायी गयी प्रतिभूति राशि/अर्नेस्ट मनी (EMD) जमा की जायेगी जो डिमाण्ड ड्राफ्ट, बैंकर्स चेक, बैंक गारण्टी एवं एफ.डी.आर. के रूप में अपर पुलिस महानिदेशक (दूरसंचार), उ० प्र०, लखनऊ (ADG, Telecom, U.P., Lucknow) के पक्ष में बनवाकर प्रस्तुत की जायेगी। ईएमडी जमा करने से छूट के लिए दावा करने वाली फर्म को सक्षम प्राधिकारी द्वारा निर्गत ईएमडी से छूट प्रदान किये जाने सम्बन्धी प्रपत्र तकनीकी बिड के साथ उपलब्ध कराया जाना अनिवार्य है।
- 3. उक्त प्रणाली / उपकरण की निविदा में जो फर्में भाग लेना चाहती हों वह अपनी पृच्छाओं (Queries) के सम्बन्ध में इस मुख्यालय पर दिनांकः 16.03.2015 को समय 1600 बजे प्रस्तावित प्रीबिड कान्फ्रेंस में प्रतिभाग कर सकते हैं।
- 4. विभाग को उपरोक्त सम्पूर्ण निविदा सूचना को निरस्त करने एवं क्रय किये जाने वाले उपकरणों की संख्या घटाने, बढ़ाने का अधिकार होगा।
- 5. यदि उक्त प्रणाली डी.आई./डी.जी.एस. एण्ड डी. दर अनुबन्ध अथवा शासन द्वारा जारी शासनादेशों के अन्तर्गत किसी संस्था/फर्म पर उपलब्ध हो जाते हैं तो निविदा स्वतः निरस्त समझी जाएगी।
- 6. निविदा प्रक्रिया की समय सारणी निम्नवत होगी-

1. निविदा विक्री की अवधि

दिनांकः 01.03.2015 से दि०ः 30.03.2015 को 1300 बजे तक।

2. प्री-बिड बैठक

दिनांकः 16.03.2015 समय 1600 बजे।

3. निविदा डालने की अन्तिम तिथि

दिनांकः 30.03.2015 समय 1400 बजे तक।

4. तकनीकी ऑफर खोले जाने की तिथि

- दिनांकः 30.03.2015 समय 1600 बजे।

(आर०एस० द्विवेदी) निदेशक, पुलिस दूरसंचार उ०प्र०पुलिस रेडियो मुख्यालय, महानगर लखनऊ

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GENERIC REQUIREMENTS FOR VIRTUAL PRIVATE NETWORK OVER WI- MAX FOR UTTAR PRADESH POLICE RADIO HQ AND DISTRICT HEADQUARTERS

PREPARED BY

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2	General overview of VPN over WI-MAX	1
3	System Overview	1
4	System Capabilities and features	2-3
5	An overview of major technical requirements of system	3-4
6	BOQ for Implementation of mail/ messaging services	4-5
7	Minimum Technical Specification	5-12
8	Other Terms	12-13
9	Tender Format (Annexure-A, Annexure-B)	



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1- Introduction:

Uttar Pradesh Police Radio came into existence in 1938, dedicated especially to cater the communications needs U.P Police, Earlier, communication was totally based on High Frequency. As, more and more communication technologies invented and improved U.P. Police Radio adopted a few of them.

Along with High Frequency communication U.P. Police Radio adopted line communication technologies, such as; Tele-printer, RTTY, Automex and Super Automex, for faster and reliable communication.

Along with the passage of time these technologies became obsolete and out of phase. Equipments based on these technologies are defunct for want of repairs and spare parts.

For more secure and faster communication new solutions are available now a day .VPN over WI-MAX is one such solution.

So, UP Police Radio intends to establish VPN over WI-MAX for data communication at its Headquarters Mahanagar Lucknow and 04 district HQ. (Allahabad, Varanasi, Gautam Buddh Nagar and Moradabad.) remote locations.

2- General overview of Virtual Private Network Over WI-MAX:

The requirements of Radio HQ. is VPN WI-MAX for data transfer from centre location Mahanagar, Lucknow to remote location as above. The Network is required to support data, voice and facsimile communication services. At initial stage Network is expected to support data communication only. The speed of VPN over WI-MAX should be below:-

- 1. VPN over WI-MAX connection at central location(two static IPx2)= 4 Mbps
- 2. VPN over WI-MAX connection at remote location 512 kbps

3. <u>System overview:</u>

The data communication system or messaging system with VPN over WI-MAX shall be controlled through a server installed at UP Police Radio HQ., Mahanagar, Lucknow. The 04 districts HQ/ location of the State shall be connected with the server with a specific identity. Unauthorized identity must not be approved/ allowed for communication with control at radio HQ. or any other districts HQ. of this network & vice-versa.

4. System Capabilities & features:

Data communication shall be installed at central location (i.e. Radio HQ. Lucknow) with 100 Percent redundancy. All district police units shall be connected to central location using VPN over WI-MAX.

Main Server at Radio HQ. shall be linked up through a 02 Mbps via VPN over WI-MAX with the nearest Telephone Exchange.From nearest Telephone Exchange data shall be

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transmitted to the specific district HQ. through Wi-Max communication in a secure way. At the receiving end (i.e. at district HQ.) data shall be received at local Telephone Exchange and then it shall be transmitted through 512 kbps to the last port i.e. at a computer installed in police line at district HQ.

The system should incorporate following features:-

- 1- System should have 100 % redundancy at central location i.e. at Radio Hqrs Lucknow to avoid any break-down in communication.
- 2- There should be full tool proof antivirus and data protector software like SSL and suitable firewall, be installed.
- 3- System connected/disconnected status of Distt Hqrs should be indicated with green/red light at the Radio Hqrs Control.
- 4- There should be an indication with special beep sound or pop-up to indicate the pendency of urgent nature messages.
- 5- Operational feature of the system should be user friendly.
- 6- There should be facility of messaging to all the districts simultaneously and also separately.
- 7- System should be able to generate details of work execution by radio staff working on VPN over Wi-Max along with information related to the numbers of radiograms IN and OUT.
- 8- There shall be search options for messages with the NR/GR or Date.
- 9- There should be automatic registration generation of date time and message number with district code.
- 10- There should be provision for yearly, monthly, weekly and daily statement of IN and OUT radiograms at a glance and printing out such details to find out the work done by the radio staff during the referred period.
- 11- Bilingual (English & Hindi) software shall be preferred.
- 12- The system should be able to generate messages and other details in prescribed format which are enclosed.

5. <u>An overview of major technical requirements of system:</u>

There may be message/email server 2013 or any latest hardware/software at central location (i.e. at UP Police Radio Hqrs) to send and receive messages from remote location i.e. at district Hqrs.

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The software must incorporatestandardized protocols for handling mails/messages and the required graphics. Server programme may run on windows server and may be a part of the Microsoft servers or any other user friendly operating system.

Exchange server should be design to do at least the following:-

- a- <u>To provide a resilient solution</u> It should build upon an architecture that should be designed for simplicity of scale and maximum hardware utilization.
- b- <u>Security and data loss prevention</u>—It should protect organization's communication secrecy. It should also incorporate with anti-malware protections. Data loss prevention feature must also be available.
- c- <u>Large data handling</u> It should be capable to handle large amount of data of the whole state round the clock with 100 % accuracy.
- d- <u>Low cost and less management</u> The system should be a low cost system with less amount of supervision required.
- e- <u>Future expansion</u>— The system should be capable to incorporate more users, voice, video server, fax and/or SMS at later stage.

6- BOQ for Implementation of mail/messaging solutions:

BOQ				
Category	SL.	Items Description	Quantity Required	
	1	Server (2 Proc/ 32GB/ 2*300GB10K SASHDD)	2	
	2	Rack Mounted iSCSI NAS16TB	1	
6	3	Standard Server Rack	1	
Central Location Hardware	4	KVM Switch For Server Rack8 Port	1	
	5	OnlineUPS3 KVA with One Hour backup	1	
	6	MFD Laser	1	
	7	Fire Wall for100 User	1	
42135	8	MSExchange2013 Enterprise OLP	. 1	
	9	MSExchange2013 Standard Client Access License Sngl OLP Device CALESD	25	
	10	MSExchange2013 Ent W/o Svcs Sngl OLP Dvc CAL (Addon to Exc Std CAL)ESD Exchg Svr ENT2013 ENG Disk Kit MVL DVD	0	
	11		1	
Central Location	12	Win Svr Std 2012 SNGL OLPC 2Proc	2	
Software	13	WinSvrCAL2012 SNGL OLP NL Usr CAL	25	
Į.	14	WinSvrStd2012 64 DVD Disk	1	
	15	Print Connecter For Exchange Server	3241	
	16	Report Module For Exchange Server	1	
	17	Customized Softfware as req. by RHQ	1	
	18	GigabiteSwitch24 Port Managed	1	

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Cental Location Job	19	Installation and Configuration at Central Location and One Year Onsite Support	
and Other Items	20	Unified Communications Certificate (SANS UCC Certificate) 4 names for 3 Years	2
Damata Lasatian	21	i3 Work Station with OS	
Remote Location Hardware	22	MFD	4
nardware	23	1KVAOnlineUPSWith2 Hour Backup	4
Remote Location	note Location and Other 24 Installation and Configurationat Remote Location		
Cental Location VPN Connectivity	25	VPNo WiMax 2MbpsVPN Over WiMax Connection at Central Location (2 Static IP) (Yearly Charge) x 2 =4mbps[only for e-Governance and other projects ofCentral/ State Government]	2
	26	Router For Bandwidth Aggregation/ Fail Over	1
	27	Outdoor CPE	2
Remote Location	28	VPNo WiMax 512,VPN Over WiMax Connection (Yearly Charge) [only for e-Governance and other projects of Central/ State Government]	4
VPN Connectivity	29	Outdoor CPE	4
VEIV COILLECTIVITY		The contract of the contract o	
VPN Connectivity	30	Standard4u Network Rack	4

Note-Above BOQ is tentative. vender is free to increase items to fulfil requirements of deptt.

7- Minimum Technical Specification:

Server:				
Item	Description of Requirement			
Chassis	1 U Rack Mountable			
CPU	two numbers of latest generation Intel 6 Core E5-2620v3 processor			
CPU L3 CACHE Memory	15MB L3 Cache			
Motherboard	Intel® C610 Series Chipset			
Memory	32 GB DIMMS scalable to at least upto 512GB, using DDR4 Load Reduced DIMM (LRDIMM) memory modules. Should be capable of identifying and reporting whether genuine OEM memory is installed. Each LRDIMM should work at 2133MHz, 1. 2V even after populating all the DIMMs in the channel.			
Memory Protection	Advanced ECC with multi-bit error protection and memory online spare mode			
HDD Bays Up to 8 SFF/4 LFF max, HDD/SSD				
Optical drive Bay	One optional optical drive bay to install DVD-ROM or DVD-RW.			
Hard disk drive	2x 300GB 10k SAS HDD			

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Controller	Embedded 6Gb/s SATA controller RAID controller with RAID 0/1/10/5 for SATA DIsk. OR PCIe 3.0 based 12Gb/s Raid Controller with RAID 0/1/1+0/5/50/6/60/1 Advanced Data Mirroring/10 Advanced Data Mirroring with 4GB battery backed write cache (onboard or in a PCI Express slot)				
Networking features	1. 1Gb 2-port network adaptor supporting advanced features such as TCP segmentation offload, VLAN tagging, MSI-X, Jumbo frames, IEEE 1588, and virtualization features such as VMDQ.				
Interfaces	Video - 1 4 USB ports (standard) Micro SD slot - 1				
Bus Slots	Three PCI-Express 3.0 slots, at least two x8 and one x16 slots				
Power Supply	Redundant Power Supplies				
Fans	Redundant hot-plug system fans				
Graphics	Integrated Matrox G200 video standard 1280 x 1024 (32 bpp) 1920 x 1200 (16 bpp)				
Industry Standard Compliance	ACPI 2.0b Compliant PCIe 3.0 Compliant PXE Support WOL Support Microsoft® Logo certifications USB 3.0 Support ASHRAE A3/A4				
Embedded system management	Should support monitoring ongoing management, service alerting, reporting and remote management with embedded Gigabit out of band management port Server should support configuring and booting securely with industry standard Unified Extensible Firmware System should support RESTful API integration System management should support provisioning servers by discovering and deploying 1 to few servers with Intelligent Provisioning System should support embedded remote support to transmit hardware events directly to OEM or an authorized partner for automated phone home support				
Security	Power-on password Serial interface control Administrator's password TPM 1.2 UEFI				

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Operating Systems and Virtualization Software Support	Microsoft Windows Server Red Hat Enterprise Linux (RHEL) SUSE Linux Enterprise Server (SLES) Oracle Solaris VMware				
iscsi nas:					
	Description of Requirement				
Item					
Capacities CLIENT OS Compatibility	Windows 8, all 32-bit and 64-bit platforms, Windows 7, all 32-bit and 64-bit platforms, Windows Server 2012 / 2008 R2 platforms				
Chassis	1 U Rack Mountable				
Interface	High performance (10/100/1000) Gigabit Ethernet connection, 2 ports of powered USB 3.0, 1 port of powered USB 2.0 VGA Port				
RAID	RAID 5 with automatic rebuild functionality				
Operating Specifications	Operating temperature 0 to 35 °C, Non-op. temperature -40 to 70°C				
HDD Bays	Up to 4 LFF max HDD				
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KVM Switch:					
Item	Description of Requirement				
Computer Connections	Direct 8, Maximum 128 (via Cascade)				
Port Selection	OSD, Hotkeys, Pushbuttons				
KVM Ports Connectors	8 x SPHD-17 Female (Yellow)				
FW Upgrade Connectors	1 x RJ-11 Female (Black)				
Power Connectors	1 x 3-prong AC Socket (IEC60320/C14)				
Keyboard / Mouse	USB /PS2				
Video	19" LCD 1280×1024 @ 75 Hz ; DDC2B				
Operating Specifications	Operating temperature 0 to 35 °C, Non-op. temperature -40 to 70°C				
Online UPS 3 KVA					
Item	Description of Requirement				
Output					
Output Power Capacity	2100 Watts / 3000 VA				
Max Configurable Power 2100 Watts / 3000 VA					
Nominal Output Voltage	230V				

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Output Voltage Note	Configurable for 220 : 230 or 240 nominal output voltage				
Efficiency at Full Load	91%				
Output Voltage Distortion	Less than 3%				
Output Frequency (sync to mains)	50/60 Hz +/- 3 Hz user adjustable +/- 0.1				
Other Output Voltages	220, 240				
Crest Factor	03:01				
Topology	Double Conversion Online				
Waveform Type	Sine wave				
Output Connections	· 100 / 100				
(8) IEC 320 C13	IEC 320 C13				
(2) IEC 320 C19	IEC 320 C19				
(3) IEC Jumpers	· · · · · · · · · · · · · · · · · · ·				
Bypass	Internal Bypass (Automatic and Manual)				
Input					
Nominal Input Voltage	230V				
Input Frequency	50/60 Hz +/- 5 Hz (auto sensing)				
Input Connections	British BS1363A				
	IEC-320 C20				
	Schuko CEE 7/EU1-16P				
Cord Length	2.44 meters				
Input voltage range for main operations	160 - 280V				
Input voltage adjustable range for mains operation	100 - 280V				
Other Input Voltages	220, 240				
MFD Laser For Central Location					
Item	Description of Requirement				
General					
Paper Type	300 Sheets (max.)				
Paper Size	Drawers: A4/B5				
	Bypass: A3/A5-R				

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Paper Weight	Drawers: 64 – 80 g/m2				
	Bypass: 52 - 163 g/m2				
Memory	Memory 128MB (Shared)				
Printing Function	•				
Print Speed (A4)	25ppm				
Resolution	600 x 600 dpi, 2400 x 2400 dpi (with smoothing)				
Drivers	Windows XP SP3 (32 bit) / X64 (64 bit)				
	Windows Vista (32 bit) / (64 bit)				
	Windows 7 (32bit) / (64 bit)				
	Windows Server 2003 (32 bit)				
	Windows Server 2003 X64 (64 bit)				
	Windows Server 2008 (32 bit) / (64 bit)				
	Windows Server 2008 R2 (32 bit) / (64 bit)				
	USB 2.0/Hi Speed USB x 1				
Interface	USB 2.0/Hi Speed USB x 1				
PDL	GDI				
Copying Function					
Original/Copy Speed	A3 - A5-R				
Resolution	2,400 x 600 dpi (with smoothing)				
First Copy Out Time	Scanning: 600 x 600 dpi, 2400 x 2400 dpi (with smoothing)				
	Copying: 600 x 600 dpi, 2400 x 2400 dpi (with smoothing)				
Original Scanning Speed	20 spm				
First copy time	7.0 sec.				
Multiple Copy	1 to 999 copies				
Reproduction Ratio	25% to 400% (1% Increment)				
Scanning Function					
Scanning speed	20spm				
Scanning mode	Colour, B&W				
Scanning resolution	600dpi x 600dpi				
Compatibility	TWAIN				
Online UPS 1 KVA					
Item	Description of Requirement				
Output					
38 7.75					
Output Power Capacity	700 Watts / 1000 VA				
Max Configurable Power	700 Watts / 1000 VA				
Nominal Output Voltage	230V				

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Output Voltage Note	Configurable for 220 : 230 or 240 nominal output voltage
Efficiency at Full Load	86.00%
Output Voltage Distortion	Less than 3%
Output Frequency (sync to mains)	50/60 Hz +/- 3 Hz user adjustable +/- 0.1
Other Output Voltages	220, 240
Crest Factor	03:01
Topology	Double Conversion Online
Waveform Type	Sine wave
Output Connections	(1) Hard Wire 3-wire (H N + G)
(8) IEC 320 C13	IEC 320 C13
Bypass	Built-in Bypass
Input	Letter the the second control of the second
Nominal Input Voltage	230V
Input Frequency	50/60 Hz +/- 5 Hz (auto sensing)
Input Connections	IEC-320 C20
Cord Length	2.44 meters
Input voltage range for main operations	160 - 280V
Input voltage adjustable range for mains operation	100 - 280V
Other Input Voltages	220, 240
Batteries & Runtime	
Battery Type	Maintenance-free sealed Lead-Acid battery with suspended electrolyte : leakproof
Included Battery Modules	1
Available Battery Module Slots	1
Typical recharge time	3 hour(s)
MFD Laser For Remote Location	
Item	Description of Requirement
Functions	Print, copy, scan, fax

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Multitasking supported	Yes					
Print technology	Laser					
Print languages	Host-based '					
Compatible operating systems	Windows 8, Windows 7, Windows Vista, Windows XP, Windows Server 2008 /2012, Windows Server 2003, Mac OS X v10.4, v10.5, v10.6, Linux					
Display	2-line LCD					
Processor speed	400 MHz					
Media sizes supported	A4; A5; ISO B5; ISO C5; ISO C5/6; ISO C6; ISO DL; 16K;					
Media sizes, custom	76 x 127 to 216 x 356 mm					
Media types	Paper (plain, laser), envelopes, transparencies, labels, cardstock, postcards					
Media weights, supported	60 to 163 g/m²					
Fax transmission speed	33.6 kbps					
Fax memory	Up to 500 pages					
Fax resolution	Up to 300 x 300 dpi					
Speed dials, maximum number	Up to 100 numbers					
Scanner type	Flatbed, ADF					
Scan file format	JPEG, TIF (compressed and uncompressed), PDF, GIF, BMP					
Scan resolution, optical Up to 1200 dpi						
Scan speed (normal, A4) Up to 7.4 ppm (b&w), up to 3 ppm (color)						
File formats, supported	PDF, TIF , JPG, BMP, BIF					
Energy Efficiency	ENERGY STAR® qualified					

Note- vender is free to offer better specs to fulfil above mentioned requirements of the department.

8- <u>Customized solution:</u>

Special features in mail/messaging solution, such as start of duty of radio staff at remote location and change of duty after every 6 or 8 hrs (i.e. rotation duty) should be incorporated.

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U.P. Police Radio Hqrs intend to monitor the performance of radio staff by number of mail/messages sent by particular radio staff as well as the status of remote location which are online or offline.

At Radio Hqrs as well as remote location radio staff must be alerted by the system for pending mail status by notification/pop-up.

It is desirable that lists, such as designation of officials, date, time etc. should appear automatically as soon as first few digits are typed in particular space and these lists can be upgradable.

If these and aforesaid features are not inbuilt in exchange server by default, they have to be incorporated.

9- Other Terms:

- 1- The System or any other device used with system should not compromise secrecy of the messages in particular and system as a whole in general. If, any such things found at any stage, the supplier shall be held responsible for the breach of secrecy and U.P. Police Radio Hqrs shall be free to take appropriate legal action against the supplier.
- 2- The supplier shall impart operational and minor maintenance training for the system to U.P. Police Radio staff, free of cost, at Police Radio Hqrs or at any other place indicated by U.P. Police Radio Hqrs.
- 3- Warranty period should not be less than two years.
- 4- After expiry of warranty period, supplier will take AMC at reasonable and mutual agreed price.
- 5- It is mandatory on the part of supplier to change to faulty parts or corrupt software of the system within warranty period, free of cost.
- 6- The supplier must be able to upgrade the software and security feature of the systems from time to time or as and when required by U.P. Police Radio Hqrs.
- 7- The supplier must have enough expertise and manpower to execute Annual Maintenance Contract (AMC).

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IN	Call	Priority		Trans Instruction		NR	GR
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То					-		
Info							
From		The Landson	d right	Lana Arthur Sarair area	• •		-
Originator's No.		Date In Reply to		Date	Security Classifications		
			Т	EXT			
Priority					T	00	THI
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LOG BOOK OF VPN OVER WI-MAX OF RADIO HQRS LUCKNOW

Name of operator	NR	GR	Start Time	End Time	From Distt	To Distt	Tx	Rx	No. of R/G	Priority			Time of	Pending
										MUG	URG	ORD	Printing	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
			-914		121							A. Syst		ar Swa
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	11 W	-310	POST.	5 6.75	195					1.18.11	4		PRES.	41

Above are some formats of the various reports to generated by the system.

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