No. EI-D/GA/1-29/2013

ERNET India

(A Scientific Society under Department of Electronics & Information Technology, GoI)

10th Floor Jeevan Prakash Building 25,

KG Marg, New Delhi - 110001.

Dated: 01.05.2013

TENDER DOCUMENT

Issue of Tender Document: 01.05.2013 to 08.05.2013

Receipt of Queries upto 13.05.2013

Pre-Bid meeting 15.05.2013

Response to Queries** (on ERNET Website only): 20.05.2013

Due Date: 30.05.2013 at 3.00 P.M

Opening of Bids: 30.05.2013 at 3.30 P.M.

Subject: Invitation of Bids for Supply and Installation of Blade server, IPv6 enable EPABX, SIP Wifi phone, SIP phone, Desktops, IPv6 enable camera, Laptop etc.

Sir,

ERNET India, an A utonomous Scientific Society under Department of Information Technology, Govt. of India, is a Class `A' Internet Service Provider for the Education and Research community in India.

ERNET India is a nodal network for integrating education & research institutions in the country. An Internet service is one of the services being provided by ERNET India to these institutions. The services are provided through 15 Points of Presence (PoPs) located at the premier education & research institutions in the country. All these PoPs are connected on high-speed backbone with international connectivity. More than 1000 educational institutions are connected on the Network through these nodes.

Sealed tenders are, therefore invited from the reputed manufacturers or their authorized representatives for the Supply / Installation of equipments as per technical specification given in **Annexure-I.**

The following instructions should be carefully noted:

GENERAL CONDITIONS

- 1. The bidder must be a reputed manufacturer or his authorized representative of the type of product offered. The authority from the manufacturer/distributor must be submitted alongwith the bid. The bids received without authority will liable to be rejected.
- Quotations should be submitted in four separate sealed covers. First and Second cover 2. indicating, "COVER FOR TECHNICAL SPECIFICATION" should consist of only technical specification of the system offered along with literature, pamphlets, drawing etc. This cover contain complete technical specifications, model. make. supplier/manufacturer and commercial terms etc. of the system offered. Price column in this cover should be kept blank. Third and Fourth cover indicating, "COVER FOR PRICE BID" should consist the same details of first cover as well as price details also. Both the covers should first be sealed separately, and then both the covers should be kept in a single sealed bigger cover. This cover addressed by name to the officer signing this enquiry should be submitted before due date and time.
- 3. Sealed tenders are, therefore invited from the reputed manufactures or their authorized representatives for Supply and Installation of Blade server, IPv6 enable E PBAX, SIP Wifi phone, SIP phone and IPv6 enable camera in conformity with Technical Specifications as at Annexure-I. Interested parties who wish to Supply the above mentioned equipments may collect Tender Document in person against a Demand Draft or Banker's Cheque of Rs.2,000/-(Rupees Two Thousand only) drawn in favour of "ERNET India" New Delhi from Shri Gulshan Kumar, Deputy Director, ERNET India.

Note: The Tender Document can also be do wnload from www.ernet.in. In such case, an amount of Rs.2,000/- in the form of Demand Draft/Banker's Cheque drawn in favour of ERNET India would be required to be furnished along with the Technical Part of the Bid.

- 4. Bids should be valid for a minimum period of 180 days after the due date.
- 5. Envelope should bear the inscription

"Quotation for Blade server, IPv6 enable EPABX, SIP Wifi phone, SIP phone, Dekstops and IPv6 enable camera"

"Tender Enquiry No.: EI-D/GA/1-29/2013"

"Due Date & Time of Bid submission: 30.05.2013 at 3.00 PM

"Due Date & Time for Opening of Bids: _: 30.05.2013 at 3.30 PM

6. With regard to the technical specifications and other terms and conditions of the tender document, the prospective bidders may submit their queries/ observations by due dat e to Registrar & CPO, ERNET India.

- 7. The Bids must reach the undersigned on or before the due date mentioned i.e. 30.05.2013 at 3:00 PM. Bids received after the due date & time is liable to be rejected. In the event of due date being a closed holiday or declared Holiday for Central Government offices, the due date for submission of the bids will be the following working day at the appointed time & venue.
- 8. The rates should be quoted in Indian Rupees for delivery at premises of ERNET India, New Delhi. All prices shall be fixed and shall not be subject to escalation of any description. The rates must be quoted as per the Performa provided in **Annexure-II** Price comparison will be made as per bill of material specified in **Annexure II**
- 9. Govt. Levies like sales tax, octroi, WCT etc., if any, shall be paid at actual rates applicable on the date of delivery and must be quoted as per Performa in **Annexure II**. Rates should be quoted accordingly giving the basic price, Sales Tax / Service Tax etc., if any, as applicable.
- 10. It may specifically be m entioned whether the quotation is strictly as per tender conditions. If not, deviations must be spelt out specifically. <u>In the absence of this, the quotation would be treated as adhering to all the conditions of the tender.</u>
- 11. Please give the Registration number of the firm along with the LST/CST/WCT No. allotted by the concerned authorities in your quotation.
- 12. ERNET India reserves the right to accept or reject any bid or cancel the tender proceedings without assigning any reason whatsoever.
- 13. The bidders should quote the products strictly as per the tendered specifications giving models, make and exact specifications. All the technical literature for the products offered by the bidder may be enclosed in the bid. **Quotations with incomplete technical details shall be rejected.**
- 14. <u>Incomplete quotations are liable to be rejected.</u>
- 15. Bidder shall sign all pages of quotation and drawings forwarded with the quotation.
- 16. In case of any discrepancy between rates mentioned in figures and words, the latter shall prevail.
- 17. Bidder should quote for all the items in Annexure-II.
- 18. The Vendor / Organization should be ISO 9000 certified.
- 19. ERNET India may waive any minor infirmity or may seek any clarification, if so desired.
- 20. Any attempt of negotiation direct or indirect on the part of the tenderer with the authority to whom he has submitted the tender or authority who is competent finally to accept it after he has submitted his tender or any endeavor to secure any interest for an actual or prospective tenderer or to influence by any means the acceptance of a particular tender will render the tender liable to be excluded from consideration.

- 21. The vendor will have to arrange for all the testing equipment and tools required for installation, testing, maintenance etc.
- 22. ERNET will have the right to increase or decrease the quantity or reject the components /equipment supplied not complying with the specifications at any point of installation /inspection.
- 23. The vendors should give clause-by-clause compliance for the technical specification of the equipments in their technical bids. Quotations without this would be rejected.
- 24. Bidder could also quote for all or any number of Groups. L1 bidder will be calculated per group-wise.
- 25. Manpower :- It is mandatory for the vendor quoting for Group A hardware to provide a resident engineer during 0930 to 1730 capable of installing, configuring and maintaining a virtualization and clustering environment based on Microsoft / RHEL and VMWARE environments along with Unified Communication & Email Server solution

ERNET will have the right to ask for changing Resident Engineer, in case their performance is not satisfactory.

26. The annual turnover of the bidders should be more than Rupees fifty (50) Lacs per year, in consecutive last three years and would be profit making company. Documentary proof duly certified by the Chartered Accountant must be enclosed.

27. **INSPECTION**

ERNET India or its representative shall have the right to inspect or to test the items to confirm their conformity to the ordered specifications. The supplier shall provide all reasonable facilities and assistance to the inspector at no charge to ERNET India. In case any inspected or tested goods fail to conform to the specifications, ERNET India may reject them and supplier shall either replace the rejected goods or make all alterations necessary to meet specification required free of cost to ERNET India.

28. **EARNEST MONEY DEPOSIT**

- i) Each quotation must be ac companied by Earnest Money Deposit of Rs.1,00,000/- (Rupees One Lakh only) in the form of Demand Draft/Pay Order/Bank Guarantee of any Nationalized Bank/Scheduled Bank taken in the name of ERNET India, New Delhi. Bank Guarantee should be valid minimum for a period of 180 day s from the original due dat e of the bid submission.

 Quotations received without Tender Fee and Earnest Money Deposit are liable to be rejected.
- ii) Earnest Money is liable to be forfeited and bid is liable to be rejected, it the tenderer withdraw or amends, impairs or derogated from the tender in any respect within the period validity of the tender.

- iii) The earnest money of all the unsuccessful tenderers will be returned after placement of order on the selected vendor. No interest will be payable by ERNET India on the Earnest Money Deposit.
- iv) The Earnest Money of successful bidder shall be returned after delivery & installation of equipments.
- v) EMD must be submitted in the Technical Part of the Bid. Non-submission of EMD will be treated as non-responsive of the bid and bid will be rejected.

29. WARRANTY / AMC

- a) Warranty shall include free maintenance of the whole equipment supplied including free replacement of parts and free software upgrades. The defects if any, shall be attended to, on immediate basis but in no case any defect should prolong for more than 24 hours. The Comprehensive Warranty shall be for a minimum period of three years from the date of acceptance of the equipment by ERNET India..
- b) The bidder shall ensure supply of the spare parts, for at least a period of 5 years from the date of supply of equipments (on payment on approved price list basis if not under AMC).
- c) The bidder must have local logistics support, by maintaining a local spares depot in the country of deployment of the equipment. This is to ensure immediate delivery of spare parts from the principal vendor of equipment to its channel partners / system integrators.

30. Annual Maintenance Contract (AMC)

All the prospective bidders may also quote for AMC of all hardware for a period of one (1) year after the completion of warranty period of three (3) years. AMC price would be included for price comparison. A separate PO for AMC will be issued, if required.

31. Payment Terms:

90% payment shall be made by ERNET India after delivery, testing and acceptance of the equipment as well as receipt of pre-receipted bill in duplicate. 10% payment would be released after expiry of the warranty. However, release of 100% payment would be considered subject to furnishing of Bank Guarantee of the amount equivalent to 10% of the cost of the equipment drawn on any Indian Nationalized Bank in favour of ERNET India valid for the period of warranty.

32. **DELIVERY PERIOD**

The delivery is required within six weeks on pl acement of the purchase order. However, ERNET India has the right to reduce the delivery period from 6 weeks depending upon the requirement of the equipments. Any delay by the supplier in the performance of delivery of items shall render the supplier liable to any or all the following sanctions-forfeiture of its Earnest Money Deposit, imposition of liquidated damage as per para 30 below or / and cancellation of the purchase order for default.

33. **LIQUIDATED DAMAGES**

In the event of the Supplier's failure to have the stores ready for shipment / delivery by the date / dates specified in this Purchase Order, ERNET India may at its discretion withhold any payment, until the whole of the stores have been supplied by the contractor, as liquidated damages and not any way of penalty at the rates of 1% of the price of the delayed goods for every week maximum up-to to 10% of Purchase Order value. The amount towards Liquidated Damage would be recovered from the amount of Bank Guarantee furnished by the firm or any payment due to the firm.

- 34 Equipment should be delivery free of cost on site.
- Rates quoted by the Bidder shall be final and no negotiation will be held.

Yours faithfully,

(Dinesh Kumar Dixit) Registrar & CPO

Annexure-I

GROUP-A

Blade Chassis –4 Quantity		
SI. No	Features	Specifications
1	Description	Should Provide common resources essential for the Blade Servers like Power, Ethernet , Fibre Channel , Internal/External Storage
2	Blade Bays	Blade Chassis to accommodate minimum of six quantities of 2 CPU Full Height Hot Pluggable Blade Servers with Dual I/O Connectors as well as Power Connectors for Redundancy.
3	Ethernet Switch	2 redundant 1GB Ethernet switch to be provided in the chassis
4	I/O Path for all Fabrics	Chassis should have dual I/O connections from every blade server to help provide maximum uptime
5	SAS Switch Modules	Chassis should be configured with dual Redundant Hot-Swap SAS Switch Modules/Fiber Channel Switch Modules for connecting Internal/External storage and should support hardware Raid 0,1,5 and 10. Atleast SAS to ISCSI convertors to be provided for expansion
6	Management Modules	Chassis should be configured with integrated IP KVM switch module for managing the Blade chassis locally as well as remotely
7	Power Modules	Chassis should be fully configured with all the Power supplies of highest capacity: Each blade should have dual redundant connectivity for Power from the Power supplies through the midplane
8	Form Factor	6U -10U
9	CD/Diskette/USB	Chassis should be configured with Internal/external CD-ROM/DVD-ROM Drive which can be sheared among all the blade servers.
10	System Panel	LED/LCD panel to provide power-on, location, over temperature, information and system error conditions
11	Support Automatic Failover of Blade servers	Blade center chassis should be provided with OEM management software licence which provides an automatic blade failover (inter- and - intra - chassis) to an standby blade server without any manual intervention. Failover should be automatic without manual intervention when ever any blade in the production fails. Failover blade should be either in the same chassis or any chassis in the domain. Stand by blade server or pool of servers should be supported across 250 Blade chassis
12	Virtualization software	Virtualization software for creating VM's, should be inbuilt with licences for atleast three years.
		2 - Way Blade Server (32 GB RAM)-24 Quantity
SI. No	Features	Specifications
1	CPU	Latest generation x86 eight core processsor blade server populated with 2 processors which supports multithreading @ 2.40 GHz each or higher wth spec int rate base of 520 i
2	Cache L3	12 MB of L3 Cache
3	Chipset	Latest chipset to be provided to support above given processor specifications
4	Memory	64 GB Registered DDR-3 ECC Memory Upgradeable to 192 GB
5	Active Memory protection	ECC memory protection support, memory mirroring and memory sparing
6	SCSI Controllers	Integrated Hardware Raid Controller to supports Hardware Raid 0,1
7	Disk Drives	600GB 6Gbps10K SAS Hard Disk Drive or higher
8	Graphics Controller	16MB SDRAM
9	Diagnostics	Pre Failure Alerts for all active and important components like processors , memory hard

		drives
10	HBA Connectivity	Dual port connectivity to Internal/External Storage
11	I/O Expansions	2 x8 PCle
12	Power Supply	From the Blade Chassis via Dual Redundant Power Connectors
13	Ethernet ports	Server should be configured with four quantities of 1Gbps Ethernet Ports
14	Form Factor	Full Height Blade Servers
15	Failure Alerting Mechanism	The server should be able to alert impending failures on maximum number of components. The components covered under alerting mechanism should at least include Processor, memory, HDDs and expansion cards
16	Blade Form Factor	Full Height Blade Server with Dual Redundant I/O and Power Connectors
17	OS Support	Server should support latest version of MS Windows, Redhat, Novell and VMware
		STORAGE
	Storage	Chassis should be configured with a capability of Internal / External storage with 10 TB Raw Capacity mounted initially and upgradable to atleast 20 TB subsiquently. Each Storage Controller should have minimum 1Gb Cache Memory with a 72 hour battery backup unit Storage should not have no single point of failure at controller level Support connectivity to multiple hosts, must be quoted with redundant iSCSI and FC/SAS 6GBPs ports across controllers. Storage support intermixing of drives like SAS,SSD,SATA etc. Necessary licenses if any
	Equipment Rack	for the same to be provided for the above quoted capacity. To house the above all Blade Chassis and storage boxes with accessories. Should have 1200 mm depth, Glass perforated front door, Cable channels and power strips with universal 15 Amp sockets to power these equipments in a redundant dual source fashion. Sides to be perforated and high performance high speed fans below and above for air circulations. Wheel mounted.

	Laptop - 02 nos.		
SI. No	Features	Specifications	
1	Operating System Processor Display	Genuine Windows® 8 Ultimate 64 bit or higher	
2	Other features	Intel® Core™ i5-3320M (2.60 GHz, 3MB L3,1600MHz FSB) or better 12.5" Multitouch HD 300 NIT Wide-Viewing (IPS) Panel (Direct-Bonded, Gorilla Glass) Bluetooth 4.0 Keyboard: Backlight Camera: Low-Light 720p HD Battery Backup: Up to 18 hours with Slim Battery Pack Graphics: HD quality Drive: Multi-Burner DVD RAM: 8GB or higher HDD: 500GB (7200rpm) SATA Wi-fi: B/g/n Wireless (1x1 BGN)	
3	Ports	1) VGA (2) USB 3.0 (3) 4-in-1 SD Card Reader (SD/SDHC/SDXC/MMC slot) (4) Ethernet RJ45	
4	Weight	Less than 2kg	

GROUP B

	All in One Desktops - 30 nos.		
SI. No	Features	Specifications	
1	Operating System Processor Display	Genuine Windows® 8 Ultimate 64 bit or higher	
2	Other features	Intel® Core™ i3-3320M (2.60 GHz, 3MB L3,1600MHz FSB) or better Bluetooth 4.0 20"LED Monitor Wireless Keyboard & Mouse Camera: 720p HD or better Graphics: HD quality Drive: Multi-Burner DVD RAM: 4GB or higher HDD: 500GB (7200rpm) SATA Wi-fi: B/g/n Wireless (1x1 BGN)	
3	Ports	1) VGA (2) USB 3.0 (3) 4-in-1 SD Card Reader (SD/SDHC/SDXC/MMC slot) (4) Ethernet RJ45	

GROUP - C

	Macbook Air- (13 inch) -02		
SI. No	Features	Specifications	
1	Display	13-inch (diagonal) high-resolution LED-backlit glossy widescreen display with support for millions of colours	
2	Storage	128GB flash storage	
3	Processor	1.8GHz dual-core Intel Core i5 (Turbo Boost up to 2.8GHz) with 3MB shared L3 cache	
4	Other features	Height: 0.3-1.7 cm (0.11-0.68 inches) Width: 32.5 cm (12.8 inches) Depth: 22.7 cm (8.94 inches) Weight: 1.35 kg (2.96 pounds) 802.11n Wi-Fi wireless networking;3 IEEE 802.11a/b/g compatible Bluetooth 4.0 wireless technology	

GROUP - D

		IPv6 enabled EPABX - 01 nos.
SI. No	Features	Specifications
Port		
1	Ethernet port	RJ-45, 10/100 base-T
2	Other Ports	WAN port, for connect to Internet 2 to 4-LAN port 4-FXS ports (RJ11) 4-FXO ports (RJ11) Status LEDs to indicates Ethernet, FXS, FXO and SIP system status
IP Ne	twork connection	
	Netwok Connections	IPv4 (RFC 791) MAC Address (IEEE 802.3) PPPoE Client (RFC 2516) DNS Client DHCP Client (RFC 2131) for WAN port DHCP Server (RFC 2131) for LAN port NAT (RFC 1631) TCP/UDP (RFC 793/768) ICMP (RFC 792) RTP/RTCP (RFC 1889/1890) SNTP (RFC 2030) TFTP Client Telnet Server HTTP Server QoS: DiffServ (RFC 2475) / ToS (RFC 791/1349)
IP Tel	ephony (VoIP)	(14 0 2470) / 100 (14 0 73 / 1040)
	IP Telephony	SIPv2 (RFC 3261) - Session Timer (RFC 4028) - Two Outbound proxy setting for increasing Performance, Productivity, and security SIP proxy redundancy- Setting Primary and Secondary proxy by IP or URI.
Filysi	cal Interface Specifica	Voice Codecs
		- G.711 (A-Law/u-Law) - G.723.1: 6.3k bits - G.729A - G.729 VAD – Voice Activity Detection with Silence Suppression CNG – Comfortable Noise Generation Silence Suppression Echo Cancellation (G.165/G.168) Signaling Protocol: Loop Start (both FXO/FXS) Jitter Buffer – Adaptive & Configurable Packet Loss Compensation - increasing voice quality DTMF: In-band, Out-of-band (RFC 2833), and SIP-Info Caller ID Generation/Detection – FSK/DTMF FAX transmission: - G.711 pass-through - T.38 Fax relay Tone Generation/Detection: - Ringing Tone - Ring Back Tone - Dial Tone - Programmable Tone Call Features

Security Security Setting and Management Features	- Call Hold - Call Transfer (Blind & consultant) - Call Forward (Unconditional / No Answer / Busy) MWI – Message Waiting Indication Configurable Routing table to route call among IP, FXO and FXS. IP line hunting (Hot line) Adjustable volume level HTTP 1.1 basic/digest authentication for WEB access MD5 for SIP authentication (RFC 2069/2617) Password protected Admin access authority Configure & Update method - Web Browser (HTTP) - Telnet - FTP/TFTP Voice announcement of IP address SIP wifi Enabled Phones to connect to the above with all features - 05 nos.
	SIP WI-FI phone - 05 nos.
Hardware Interface:	
Microphone	4.0mm (Φ) x 1.5mm
sensitivity	42dB
Receiver	32Ω
Rated sine power	10mW
Speaker	8Ω
Rated sine power	0.5W
Other Features	Navigation Keys Vibrator: Support I/O Connector: USB with charging support Battery Capacity: 1000 mAh or more Standby Time: 160 hrs or more Talk Time: 6 hrs or more Power Adaptor: - INPUT: AC100V~240V, 50/60Hz LCD Display Language: English Wireless Specification: Internal Antenna Operation Mode: IEEE 802.11b/g client Transmit Power: IEEE 802.11b: 15dBm or more Receive Sensitivity: IEEE 802.11b (11M): -83dBm or better IEEE 802.11g (54M): -68dBm or better WiFi Security: WEP 64, WEP 128, WPA-PSK, WPA2-PSK (TKIP and AES) Wireless Features: Layer 2 intelligent roaming algorithm, WMM / WMM-PS
IP Network connection	IPv4 (RFC 791) & IPv6 MAC Address (IEEE 802.3) Static IP DHCP Client (RFC 2131) DNS Client NTP Server TCP/UDP (RFC 793/768) RTP/RTCP (RFC 1889/1890)

	IPV4 ICMP (RFC 792),
SIP Protocol	RFC3261 compliance Support for multiple SIP Accounts SIP UDP Protocol Message Waiting Indication (RFC3842) Support DNS SRV to locate SIP Server (RFC 3263)
Audio Codec	G.711, G.729 Silence Suppression VAD/CNG Automatic Gain Control In-band/out of band DTMF (RFC 4733 (RFC 2833)/SIP INFO) Adaptive/Configurable Jitter Buffer Acoustic Echo Cancellation Volume Adjustment
Call Features	Call history: Dialed call, Missed call, Received call, Call duration, Caller ID display Call Hold, Call Mute, Call Transfer, Call waiting, Call Forward, Speaker Phone Mode, speed dial, Call Waiting/Switching between Calls Phone Book: 200 records or more Contact List: 200 records or more Group Number: 50 or more Ring Tone: Polyphonic MIDI and MP3 Indicators: WLAN status, SIP server status, battery level Desirable: Organizer with Alarm, calendar, world clock, calculator Flight Mode, Vibration Mode Auto Keypad Lock FTP firmware upgrade
Dimension	Sleek and handy
Weight	Light weight approx 200gm
Approvals	CE, FCC, LVD and RoHS
	SIP –Phone - 05 nos.
	LCD Display Language Option: English IP Network connection IPv4 (RFC 791), IPV6(RFC 2460) IPv6 Auto Configuration (RFC 4862) MAC Address (IEEE 802.3) Static IP DHCP Client (RFC 2131) PPPoE DNS Client TCP/UDP (RFC 793/768) RTP/RTCP (RFC 1889/1890) IPV4 ICMP (RFC 792), IPV6 ICMP(RFC 4443) TFTP Client VoIP VLAN Support (802.1Q/802.1P) HTTP/HTTPS Server QoS Support Support IPV4 only, IPV6 only or dual stack mode
SIP Protocol	RFC3261 compliance Support up-to 3 SIP Register Accounts (IPv4 and IPv6 are selectable) Support Primary and Backup SIP Proxy SIP UDP Protocol Support SIP compact Form SIP Session Timer (RFC 4028) MD5 Digest Authentication

	Reliability of provisional responses PRACK (RFC3262) Early/Delay media support Offer/answer (RFC3264) Message Waiting Indication (RFC3842) Event Notification (RFC3265) REFER (RFC3515) Support DNS SRV to locate SIP Server (RFC 3263) Support STUN NAT Traversal Support "rport" parameter (RFC 3581)
Audio Codec	G.711 A-law/µ-law, G.723.1 (6.3K/5.3K) G.729A, GSM 6.10 (full rate) Silence Suppression VAD/CNG Automatic Gain Control In-band/out of band DTMF (RFC 4733 (RFC 2833)/SIP INFO) Adaptive/Configurable Jitter Buffer Acoustic Echo Cancellation Volume Adjustment
PREFERENCE	Customized Idle Text Phone Book Intelligent Phone Book Name Dialing Clock, Daylight Saving, Call-timer Call History of Missed, Received and Dialed Dialing Plan Digit Manipulation Selectable Call Progress Tone Support Personal Music Ring Support Silence Ring Auto Answer Mode Support Auto Priority (Auto Switch) Calling Support Specified Line Calling
Call Features	Caller ID display or inhibit Voice Mail with Indication Speed Dialing Call Waiting/Switching between Calls Call Forward (Busy, Unconditional, No Answer) Blocking of Anonymous Call Do not disturb Call Hold Call Mute Call Transfer Incoming Call Blocking List Music-on-hold support (via IPPBX or local) Conferencing (3-way conference over phone) Multi-parties conference (via IPPBX) Distinct Ring between on-net and off-net calls (compatible with SIPPBX6200S, 6200GS and 6200N only), 6200x. Call Pickup (via IPPBX) Call Park/Retrieve (via IPPBX) Voice Broadcasting (via IPPBX) Voice Broadcasting (via IPPBX) Barge-in & Barge-in Allowance List 3 LP389, LP389A and LP389S, LP389SA IPv6 and IPv4 SIP IP Phone Redialing/pre-dialing Hot Line Support Peer to Peer Dialing Support Receiving and Display Instant Message (RFC 3428)
MANAGEMENT	SNTP with Daylight Saving Administrative Telnet CLI Provides System Status Diagnostics (debug through syslog)

	Configuration Backup/Restore Dual Firmware Image Backup to avoid crashing Support HTTP provision through MAC address
Power Adapt	or INPUT: AC100V~240V, 50/60Hz
Approvals	CE, FCC, LVD and RoHS

GROUP- E

	IPv6 Enabled Camera – 5 nos.		
SI. No	Features	Specifications	
1	Hardware Profile	Sensor: 1/4" Megapixel progressive CMOS sensor SDRAM: 256 Mbytes Flash Memory: 128 Mbytes ICR: Built-in Infrared-Cut filter Removable module Lens: 4 mm fixed lens, F1.5 View Angle: Horizontal 65.4 degrees IR LED: 15 meter illumination distance and light sensor	
2	Image Features	 Adjustable image size, quality, and bit rate Time stamp and text overlays 3 configurable motion detection windows 5 configurable privacy masks Flip & mirror Configurable brightness, saturation, contrast, sharpness 	
3	Video Algorithms Supported	H.264/MPEG4/MJPEG format compression simultaneously JPEG for still image H.264/MPEG-4 multicast streaming	
4	Video Resolution	Upto 1280x800 @ 30 fps	
5	Network Protocols	IPV4, IPV6 TCP/IP, UDP, ICMP DHCP Client DNS Client SMTP Client FTP Client HTTP / HTTPS Samba Client PPPoE UPnP Port Forwarding RTP / RTSP/ RTCP IP filtering 3GPP LLTD CoS/QoS SNMP/IGMP SNMP IGMP R02.1x ONVIF Compliant	

GROUP - F

Private Cloud Suite Package for 9 numbers of Physical Servers with unlimited rights to deploy any number of Virtual Machines. The Hypervisor and Private Cloud Management/Monitoring suite should be of the same OEM so as to make the system robust and integrated. It should have the following specifications:--

specifications:			
S.No	Specifications Specification Speci		
1	The Solution should be capable of decoupling applications and application infrastructure configurations in portable containers called service templates		
2	The Solution should be capable of orchestrating compute and storage resource placements based on flexible policies to maximize hardware utilization		
3	The Solution should be able to run various operating systems like windows client, windows server, linux etc		
4	The Solution should have the capability for creating Virtual Machines templates to provision new servers		
5	The Solution should continuously monitor utilization across Virtual Machines and should intelligently allocate available resources among the Virtual Machines		
6	The Solution should allow for taking snapshots of the Virtual Machines to be able to revert back to an older state, if required		
7	The Solution should be able to dynamically allocate and balance computing capacity across collections of hardware resources of one physical box aggregated into one unified resource pool		
8	The Solution should cater for the fact that if one server fails all the resources running on that server shall be able to migrate to another set of virtual servers as available		
9	The Solution should provide support for cluster services between Virtual Machines		
10	The Solution should provide patch management capabilities such that it should be able to update patches on its own hypervisor and update guest operating systems.		
11	The Solution should support Live Migration of Virtual Machine from one host to another		
12	The Software should have the capability to create Virtual Machines with required number of vCPUs		
13	The Solution should allow Virtual Machines consume RAM dynamically in such a way that if some of the VMs in Physical machine are not utilizing the RAM, this RAM can be utilized by some other VM in the same physical machine which has a requirement		
14	The Solution should allow configuring each Virtual Machine with one or more virtual NICs. Each of those network interfaces can have its own IP address and even its own MAC address		
15	The Solution should allow for creating virtual switches that connect virtual machines		
16	Solution should take advantage of NIC Teaming Capabilities		
17	The Solution should have the capability for moving Virtual Machines from Primary site to the Secondary site.		
18	The Solution should offer Automated and Approval based Upgrades for Virtual Machines delivering cloud infrastructure		
19	The Solution must offer Identity, Authentication and Role based access to User Departments Infrastructure - Machines (Virtual or Physical),		
20	The Solution must offer Policy based administration by putting User Departments Machines (Virtual or Physical) in logical groups and apply relevant policies		
21	The Solution should have the ability to not just enforce policies but also track and report non- conformance to access		
22	The Solution should provide a simple to use intuitive Web experience for SDC Cloud Administrator and User Departments		
23	The Solution should automate provisioning of new and changes to existing infrastructure (Virtual, Physical, Application or Common Services) with approvals		

24	The Solution should allow creation of library hosting various Operating System, Databases that can be selected while creating new virtual servers
25	The Solution should allow creation of library hosting various Operating System, Databases that can be selected while creating new virtual servers
26	The Solution should allow for implementing workflows for provisioning, deployment, decommissioning all virtual and physical assets in the cloud datacenter
27	The Solution should allow easy inventory tracking all the physical & virtual assets in the Private Cloud
28	The Solution should employ Role Level Access Control with the ability to central manage Roles and Identities in an LDAP based Identity Store
29	The Solution should offer usage report by tenant, by region, or by Virtual Machine reporting usage of memory consumption, CPU consumption, disk consumption, Network & Disk IO
30	The Solution should have capabilities to create workflows to automate common admin challenges
31	The Solution should have the ability to develop highly customized workflows and easy user interface.
32	The Solution should be able to monitor User Department Virtual Resources independent of the platform & solution/service they are running
33	The Solution should be able to monitor key performance characteristics of the virtual resource (OS, RDBMS, Memory, Storage, Network etc.)
34	The Solution should have the mechanism to store the historical data for problem diagnosis, trend and analysis
35	The Solution should be able to send the reports through e-mail to predefined user with pre-defined interval
36	The Solution should provide a Knowledge base to store history of useful incident resolution

Unified Cou	mmunication & Email Server solution. The product should be license for 100 number of
S.No	Specifications Specific Specif
1	The Product should support the basic features of Electronic mail, commonly called email or e-mail, which is a method of exchanging digital messages across the Internet or other computer networks.
2	Global Folder Sharing - The Solution should allow Global Folder Sharing, so that the users can leverage real time collaboration when working on common projects.
3	Mailing Features at Server Level - The product should support the basic mailing features at server level :
3.1	Send mail,
3.2	receive mail,
3.3	mail forwarding,
3.4	per folder aging policies,
3.5	deferred delivery by time & date,
3.6	Prioritization of mail (high/low/normal),
3.7	email scheduling based on mail size, time & domain,
3.8	Auto Reply Vacation,
3.9	Auto Forward to Multiple Recipients,
3.10	Spell Check
4	Multiple & Virtual Domain Support - The product should support the following:

4.1	a) Hosting of multiple/virtual domains: Same user id across multiple/virtual domains in the same server Ex: xyz@nic.in, xyz@nkn.in, xyz@tn.nic.in, xyz is the same user id used for three different people in three domains.
4.2	b) Mail access using email addresses (Fully Qualified Domain Name) and login id (LDAP attribute UID) should be configurable.
4.3	c) Mail-host provision: Should have provision to distribute users under any domain across multiple message stores.
4.4	MTA Throttling/Limit —configurable parameters based on client IP/ user id to freeze number of emails allowed to be sent per minute/per hour / per day.
4.5	Provision to scan local mails (within the server) for malware through an external scanning box prior to delivery to message store of recipient.
5	Support Multiple Queue based on:
5.1	a) Domain
5.2	b) Number of Mails
5.3	c) Priority
5.4	d) Aging The product should support the feature of multiple queuing based on the domains, number of mails, priority of the email and aging.
6	Viewing and processing of particular queue by administrator - The product should allow the administrator to view and process particular queue based on the importance
7	Processing of Queues by Domain names - The Product should support processing of queues by domain names at the server level.
8	Protocol Supported - The product should support the following protocol: HTTP,HTTPs, POP, POPs, IMAP, IMAPS, SMTP and SMTPs (Mandatory to support all protocols)
9	Auto reply & Auto Forward -The product should support Auto Reply & Auto Forward Option at the User Level
10	Change Password - The product should have the capability of changing password at the user level.
11	Solution should allow mail/document owners i.e. authors to define who can open, modify, print, forward, or take other actions with the information. Solution should be able to ensure access only to authorized users and computers/devices.
12	Solution should allow role/designation-based usage rights and conditions for confidential, classified, and private data and emails
13	Integrated Audio/Video/IM Solution should have following capabilities
13.1	Text based Messaging and file sharing between two or more people.
13.2	Live voice & Video Calling
13.4	Ability to manage multiple active conversations in one place
13.5	Ability to access conversation history and conversations missed
13.6	Ability to send/receive files via the IM client.
13.7	Ability to initiate IM to a specific user from within any application
13.8	In addition to IM, it should provide the Group Chat functionality
13.9	Ability to initiate a conference via meeting invitation or ad hoc formation (by calling a person or by adding people to an existing call). To simplify conference call setup, it must be possible to use drag-and-drop functionality to add participants from the UC client• Ability to initiate a conference via meeting invitation or ad hoc formation (by calling a person or by adding people to an existing call). To simplify conference call setup, it must be possible to use drag-and-drop functionality to add participants from the UC client
13.10	Ability for users or non-enterprise members to join a conference via a PC endpoint using a web or PC client interface available as part of the conferencing product.
13.11	Ability to record conferences for later reviews, including voice, video, and web content. Ability to publish these recordings to a central location that is accessible by others officers later for review.
13.12	Ability to interoperate with existing room-based video conference systems and new visual

	communication solutions.
	Ability to collect statistical usage metrics for IM, conferencing, and Enterprise Voice by tracking
13.13	call detail records.
	Create new users or modify existing users, as well as to move individual users or groups from
13.14	one pool to another.

PRICE SCHEDULE

To,

The Registrar & CPO, ERNET India 10th Floor, Jeevan Prakash Building, 25, K.G. Marg, New Delhi – 110 001

Tender No Date of Opening							
We	_ hereby	certify	that	we	are	established	firm of
manufactures/authorized agents of M/s.							With
factories at						which a	are fitted
with modern equipment and where the production	methods,	quality	conti	rol a	nd te	esting of all r	naterials
and parts manufactured or used by us are open to							
hereby offer to supply the following items at the price							

GROUP A

S.No.	Description	Qty.	Unit Price Rate	Tax	Total Unit Rate	Total Cost
					(D+E)	
Α	В	С	D	E	F	(C XF)
1.	Blade Chassis with 10TB raw storage as per given specifications	0.				
2.	Comprehensive A Maintenance Charge Blade Chassis for two on per year basis three year of free war	s per years after	Service Tax e @ per year		% Blade Chassis	
3.	2 Way Blade Server compatible with the above chassis	24				
4.	Comprehensive A Maintenance Charge Blade Server for two on per year basis three year of free war	s per years after	Service Tax e @ Server per ye		% 2 - Way Blade	
5	Additional HDD 1TB SAS compatible with storage at line item 2 of group A with					

	installation		
6	Manpower – All inclu	sive per	r year
7	Equipment Rack	02	
8	Laptop	02	
9	Comprehensive Annual Maintenance Charges per laptop for two years on per year basis after three year of free warranty		Service Tax extra @ % @ per laptop per year

GROUP B

S.No.	Description	Qty.	Unit Price Rate	Tax	Total Unit Rate (D+E)	Total Cost
Α	В	C	D	E	F	(C XF)
1	All in one Desktop per given specifications in group B	30				
2	Comprehensive Maintenance Charg All in one Desktop years on p er year after three year of warranty	for two basis	Service Tax 6 @ per year		% in one Desktop	

GROUP C

S.No.	Description	Qty.	Unit Price Rate	Tax	Total Unit Rate (D+E)	Total Cost
Α	В	С	D	E	F	(C XF)
1	Mac Book Air given specifications in Group C	2				
2	Comprehensive A Maintenance Ch per Mac Book Air for years on per year after three year of warranty	narges or two basis	Service Tax 6 @ year		% lac Book Air per	

GROUP D

S.No.	Description	Qty.	Unit Price Rate	Tax	Total Unit Rate (D+E)	Total Cost
Α	В	С	D	E	F	(C XF)
1	IPv6 enabled EPABX as per the given Specification	01				
2	Comprehensive Maintenance C per IPv6 enabled I for two years on p basis after three free warranty	harges EPABX er year	Service Tax 6 @ _ EPABX per y	per	% IPv6 enabled	
3	SIP Wifi phone as per given specifications	05				
4	Comprehensive Maintenance C per SIP Wifi pho two years on per basis after three y free warranty	harges one for year	Service Tax 6 @ year	extra @ per	% SIP Wi-fi per	

GROUP E

S.No.	Description	Qty.	Unit Price Rate	Tax	Total Unit Rate (D+E)	Total Cost
Α	В	С	D	E	F	(C XF)
1	IPv6 enable camera as per given specifications	05				
2	Comprehensive Maintenance Charg IPv6 enable came two years on per basis after three years free warranty	era for year	Service Tax 6 @ camera per y	pe		

GROUP F

	Description	Qty.	Unit Price Rate	Tax	Total Unit Rate (D+E)	Total Cost
Α	В	С	D	Е	F	(C XF)
1	Private Cloud Suite Package for 9 numbers of Physical Servers with unlimited rights to deploy any number of Virtual Machines as given in specifications above	01				
2	Unified Communication & Email Server solution (License for 100 users each) given in the specifications above	01				
	One Time Installation /Configuration of above					

Column B

Break up of Unit Rate (in Indian Rupees)								
Ex-Factory Price	Sales Tax/ Service Tax, as applicable	Packing and forwarding charges in detail	Freight to Destination at site	WCT/Other charges (if any)	Total free delivery price			
Α	В	С	D	Е	F			

- 1. It is hereby confirmed that we have understood the terms and conditions of the tender and have thoroughly examined specifications and are thoroughly aware of the nature of goods required and our offer is to supply goods strictly in accordance with the requirement and terms and conditions of the tender. We agree to abide by the terms and conditions of the tender if the contract is awarded to us.
- 2. We hereby offer to supply the goods detailed above or such portion thereof as you specify in the purchase order at the price quoted and agree to hold this offer open for acceptance for a period of 180 days from the date of opening of bid.
- 3. Bid security for an amount equal to Rs./- is enclosed in the form of Bank Draft/Pay Order/ Bank Guarantee.

		(Signature and seal of Manufacturer/Bidder)
ated	2011	