

No. EI-D/GA/1-19/2012

ERNET India

(An Autonomous Scientific Society under Department of Electronics and
Information Technology, Ministry of Communications and Information
Technology)

Jeevan Prakash Building,
10th Floor, 25, K.G.Marg,
New Delhi – 110001

Subject: - Purchase of Hardware & Software for Cloud Computing Project

With reference to the subject matter, please refer to the advertisement
appeared in Times of India dated 27.09.2012. In this regard, a detailed tender
document is attached herewith.

2. All the prospective bidders may kindly see for taking further necessary action as
per contents/schedule of activities in the tender document.


01/10/12
(Dinesh Kumar Dixit)
Registrar & CPO
01.10.2012

All the prospective bidders

No. EI-D/GA/1-19/2012

ERNET India

(An Autonomous Scientific Society under Department of Electronics & Information Technology, GoI)
Jeevan Prakash Building, K.G. Marg
New Delhi-110 001

Date: 1.10.2012

Due Date: 31.10.2012 at 2.00 P.M.

Opening of Bids: 31.10.2012 at 2.15 P.M.

To

**Sub: Invitation of Bids for Hardware & Software for ERNET Bangalore, Chennai
Delhi Centers and Kendriya Vidyalaya Schools at Delhi, Bangalore and Chennai Regions**

BACKGROUND

ERNET India, an Autonomous Scientific Society under Department of Information Technology, Govt. of India, is a nodal network providing Internet and Intranet connectivity and other value added services to academic and research institutions in the country. It has set up a backbone connecting all metro cities in the country.

Invitation to Bidders

ERNET India invites bids from the OEM or Authorized System Integrator/Channel Partners / Reseller of such OEMs for procurement of equipments like Servers, Storage, Racks, Workstations, Laptops, Apple MacBook, Switches, Thin Clients and Smart Classroom equipments and software related items. These items are required to be supplied and installed at ERNET's regional centers at Bangalore, Chennai and also in some of the Kendriya Vidyalaya Schools in Delhi, Bangalore and Chennai regions. The requirement has been divided in five groups as per bill of materials detailed in **Annexure-1 to Annexure-V**. Technical specifications in respect of these bills of materials are attached as **Annexure-1(A) to Annexure-IV (A)**. Prospective bidders may submit their sealed tenders at our Bangalore Regional Centre – No. 397, 13th Cross, Sadashiv Nagar, Bangalore-560080, as per the schedule of submission of bid etc. detailed in this tender document.

GENERAL CONDITIONS

The following instructions should be carefully noted:

1. The tender evaluation (technical and commercial) will be done for each group separately. Therefore, the bidders may choose to bid for one or more groups. The bidders are required to bid for all the items detailed in the Bill of Material of individual group. Non-compliance to this would disqualify the bidder for that particular group. Quotations not adhering to the specifications and terms and conditions will be out rightly rejected.

2. The bidder must be a reputed manufacturer or his authorized representative of the type of product offered. In case of representative, the authority from the manufacturer / distributor must be submitted. **The bids received without authority are liable to be rejected.**
3. Bidder is duty bound to observe all the Laws, Rules, Regulations, Policies, Procedures and Guidelines of the Government of India as in force from time to time.
4. Quotations should be submitted in two separate sealed covers. First cover indicating **"COVER FOR TECHNICAL SPECIFICATIONS"** should consist of only technical specifications of the system offered along with literature, pamphlets, drawing etc. **This cover should consist complete technical specifications, make, and model, names of supplier/manufacturer and commercial terms etc. of the system offered. Price column in this cover should be kept blank.** This cover must contain Earnest Money Deposit (EMD) as per para 32. Second cover indicating **"COVER FOR PRICE BID"** should consist the same Bill of Material detailed in the technical part of the bid along with its price details. **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, as specified in this tender document.
5. Bidders are required to submit their bids by the due date/time detailed in this document to ERNET India, 397, Ground floor, 13th Cross, Sadashiv Nagar, Bangalore-560 080 (Tele: 080-23617532). Bids would be opened in our ERNET Bangalore office on the date and time specified in this tender document.
6. Bids should be valid for a minimum period of 180 days after the due date.
7. Envelope should bear the inscription:-

"Quotation for Procurement of Servers/ PCs/ Laptops etc.
"Tender Enquiry No. : No. EI-D/GA/1-19/2012
"Due Date & Time: 31.10.2012 at 2.00 P.M.
"Due Date & Time for Opening of Bids: 31.10.2012 at 2.15 P.M.
8. The Bids must reach to ERNET India Bangalore as per addresses given above on or before the due date, i.e., **31.10.2012 by 2.00 P.M.** 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. Bids received will be opened in ERNET Bangalore office on **31.10.2012 at 2.15 P.M.** Bidders may kindly depute their representation to witness the bid opening process on **31.10.2012 at 2.15 PM** in ERNET Bangalore. Bids will be opened in the presence of representative of bidders present.
9. The rates should be quoted **only in Indian Rupees** for free delivery and installation at the ERNET India, Bangalore and Chennai address. All prices shall be fixed and shall not be subject to escalation of any description. The rates must be quoted as per the Proforma provided in **Annexure-VI (A) to Annexure VI (E).**
10. Govt. Levies like sales tax, WCT, VAT etc. shall be paid at actual rates applicable on the date of delivery. Rates should be quoted accordingly giving the basic price, Sales Tax, VAT, Service Tax etc., if any.
11. Charges towards Entry Tax/Octroi etc. will be paid extra subject to actual. Rates may be quoted without involving the component of Entry Tax/Octroi etc.

12. The bidder should quote the products in strict compliance to the tendered specifications. Complete Technical details along with make, model number, complete specification, pamphlets, and literature of the systems highlighting the special features of their offer should be supplied along with the quotation.
13. It may specifically be mentioned whether the quotation is strictly as per tender specifications/conditions. No deviations in the specifications of the items would be accepted. Quotations not adhering to the specifications and other requirement such as Annual Maintenance Support will be out rightly rejected. Accordingly, the bidders must submit the compliance statement of all the terms & conditions of the tender document, in the technical part of the bid.
14. All the terms & conditions mentioned by the Vendor in the bid should be clear and self-explanatory. Any ambiguity in the terms & conditions mentioned by the vendor will result in rejection of the bid. No clarification would be sought in the terms and conditions after the opening of Commercial Bids
15. Please give the Registration number of the firm along with the LST/CST/WCT No. allotted by the Sales Tax authorities in your quotation.
16. ERNET India reserves the right to accept or reject any bid or cancel the tender proceedings without assigning any reason whatsoever.
17. Incomplete quotations are liable to be rejected.
18. Bidder shall sign all pages of quotation and drawings forwarded with the quotation.
19. In case of any discrepancy between rates mentioned in figures and words, the latter shall prevail.
20. ERNET India may waive any minor infirmity or may seek any clarification, if so desired.
21. Any attempt of negotiation direct or indirect on the part of the Bidder 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 bidder or to influence by any means the acceptance of a particular tender will render the tender liable to be excluded from consideration.
22. 90% payment shall be made by ERNET India after delivery and satisfactory completion of installation, commissioning, testing and acceptance of the equipment as well as receipt of pre-receipted bill. The balance 10% payment would be released after expiry of the warranty period. However, release of 100% payment may be considered subject to satisfactory completion of installation, commissioning, testing and acceptance of the equipment and if the firm submits the Performance Bank Guarantee as per the format in Annexure VII of the amount equivalent to 10% of the cost of the equipment drawn on any Indian Nationalized/ Scheduled Bank in favour of ERNET India, valid for the period of warranty as well as receipt of pre-receipted bill in triplicate.
23. The equipment must be supported by a Service Centre manned by the bidder's technical support engineers in Delhi, Bangalore and Chennai regions certified by OEM in India. The support through this Centre must be available 24 hours in a day, seven days a week and 365 days a year.
24. The Bidder shall supply all installation & commissioning spares and accessories as may be required during erection, initial operation of the facility till successful commissioning at the respective locations of ERNET India/ Kendriya Vidyalayas. The Bidder will have to arrange/provide for all the testing equipment & tools required for successful installation, testing & acceptance, maintenance etc.
25. It is mandatory for the Bidders to give clause-by-clause compliance for the technical specification of the equipment's in their technical bids. Also give separate compliance of all the terms & conditions as mentioned in the Tender document.

- 136
26. Equipments will be supplied and installed at ERNET India's Bangalore/ Chennai/Delhi office and Kendriya Vidyalaya schools as per list provided in the tender document. All the expenses involved in shipping, delivery and installation of the equipment to the respective sites will be borne by the Bidder. All aspects of safe delivery shall be the exclusive responsibility of the Bidder. ERNET India will have the right to reject the component/equipment supplied; if it does not comply with the tender specifications at any point of time i.e. installation, inspections and subsequent usages.
27. The prospective bidders requiring clarification if any about the contents detailed in the tender document may submit their queries only in writing to "Registrar & CPO, ERNET India, 10th Floor, Jeevan Prakesh Building, 25, K.G. Marg, New Delhi 110001" by hand/post/courier latest by **10.10.2012 5:00 PM**. Any delay in delivery by hand/post/courier will not be to ERNET account. Queries received after **10.10.2012 5:00PM** will not be considered for reply. Queries received by **10.10.2012 5:00 PM** will be deliberated in a Pre-bid meeting scheduled to be held in ERNET India, No. 397, Ground floor, 13th Cross, Sadashiv Nagar, Bangalore-560 080 on **17.10.2012 at 11.00 AM**. Response of ERNET to the queries received and deliberated during pre-bid meeting will be uploaded on ERNET website www.eis.ernet.in on **22.10.2012**. The prospective bidders requiring clarification must give their mail address and telephone (landline and Mobile) Nos. to enable ERNET India to contact, if required. Bidders must refer ERNET website on **22.10.2012** for reply to their queries and also before submission of their bids for any update uploaded by ERNET India, to enable them to comply the additional information/ updates.
28. All the prospective bidders are advised to keep watching ERNET's website for any additional information/ instructions and updates regarding the tender document for necessary compliance by the bidders, before the bid submission.
29. Cost comparison will be made separately for **Annexure-VI (A) to VI (E)**.
30. **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.
31. **Tender Fee:** The Tender document can be purchased against a demand draft or banker's cheque of Rs.2000/- drawn in favour of 'ERNET India' payable at New Delhi from ERNET Bangalore Office No. 397, 13th Cross, Sadashiv Nagar, Bangalore-560080 OR from Shri Gulshan Kumar, Section Officer, ERNET India Delhi (10th floor - Jeevan Prakash Building, Kasturba Gandhi Marg, New Delhi-110 001) during **1.10.2012 to 9.10.2012** from 3.00 PM to 4.00 PM. The tender document can also be downloaded from www.eis.ernet.in. In such case, an amount of Rs.2000/- in the form of Demand Draft/ Banker's cheque drawn in favour of ERNET India payable at New Delhi would be required to be furnished in the Technical Part of the Bids.
32. **EARNEST MONEY DEPOSIT**
- i) Bidders are required to submit Earnest Money Deposit separately for each group as detailed below:
- For Group I, EMD of Rs. 2,00,000/- to be submitted;
 - For Group II, EMD of Rs. 6,000/- to be submitted;
 - For Group III, EMD of Rs. 10,000/- to be submitted;
 - For Group IV, EMD of Rs. 50,000/- to be submitted; and
 - For Group V, EMD of Rs. 50,000 to be submitted.

In case a bidder is submitting quotation for one or more groups, he can submit single EMD for a total sum of groups they are quoting. The EMDs shall be in the form of Demand Draft/Pay Order/Bank Guarantee drawn on any Indian Nationalized/ Scheduled Bank in favour of, ERNET India, New Delhi. Bank Guarantee should be valid minimum for a period of 180 days from due date (original) of the quotation. **Quotations received without Tender Fee and Earnest Money Deposit are liable to be rejected.** Tender Fee and EMD must be placed in the technical part of the bid.

- ii) Earnest Money is liable to be forfeited and bid is liable to be rejected, if the bidder withdraw or amends, impairs or derogates from the tender in any respect within the period of validity of the tender.
- iii) The earnest money of all the unsuccessful Bidders will be returned as early as possible after the expiration of the period of the bid validity but no later than 30 days of the issue of the purchase order. No interest will be payable by ERNET India on the Earnest Money Deposit.
- iv) The Earnest Money of successful bidder shall be returned after acceptance of the material.

33. **WARRANTY**

- (i) Warranty shall include on site free maintenance of the whole equipment supplied including free replacement of parts. 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 on-site comprehensive warranty shall be for a minimum period of one year from the date of acceptance of the equipment by ERNET India.
- (ii) The bidder shall assure to supply the spare parts after warranty is over for maintenance of the equipment supplied if and when required for a period of 2 years from the date of supply of equipment on payment on approved price list basis.
- (iii) The bidder should also quote on-site comprehensive AMC rate after completion of free warranty period of one year in respect of each item of supply separately, as per price schedule provided at Annexure VI-A to VI-E. The AMC will be for a period of two years. However, AMC order will be placed/ renewed on year to year basis subject to satisfactory services of the bidder and or requirement of ERNET India. However, cost of two years AMC would be taken into account for deciding L-1 bidder.
- (iv) During the on-site comprehensive warranty and on-site comprehensive AMC period, if the maximum time to repair the system exceeds the above-mentioned duration (para 33(i), vendor would pay penalty of Rs.200/- (Rupees two hundred) per day of delay.

34. **ELIGIBILITY CRITERIA**

The Bidder must meet all of the following eligibility requirements. Tenders of non-compliant Bidder will not be technically or commercially evaluated and reflected.

- i) The manufacturer/ OEM/bidder should be ISO 9001:2000, ISO 14001 Certified Company. Valid documentary proof should be enclosed.
- ii) The OEM/manufacturer should be profit making company in last three years (2009-10, 2010-11 and 2011-12).

- iii) The products being quoted should not be at end-of-sale and end-of-support in next five years. Undertaking to this effect must be submitted from OEM.
- iv) The product offered should be a standard product available on the OEM website. Any customized solution offered exclusively against this tender will not be acceptable and will be rejected out rightly.
- v) The bidder should quote only one model /product for each item.
- vi) The OEM/manufacture should have a minimum of 10 years experience for supply and maintenance of systems quoted.
- viii) The bidders must enclose Copies of Two Purchase orders for supply of similar family and value of equipment's/products being quoted by the bidders, supplied in India in last two financial years. The bidder should attach relevant copies of the customer purchase orders, scope of work, deliverables, and time period of execution, and satisfactory work completion certificate from client.
- ix) The turnover of the Bidder for the last three years (2009-10, 2010-11 and 2011-12) should be a minimum of Rs.2.00 crores per year in respect of Group I and for remaining groups the turnover should be minimum of Rs.5 Lakhs, from Indian Operations. The audited balance sheet or certificate from the Chartered Accountant should be submitted along with the bid in support of turnover.
- x) OEM/manufacture should have a Toll-free Number to register service/complaints.
- xi) Bidders must submit Tender Fee and Earnest Money Deposit as per tender document.
- xii) All the above Eligibility Criteria must necessarily be supported by relevant documentation such as purchase order copies, project sign-off document, the audited balance sheet, certificate from the Chartered Accountant along with the Technical Part of the Bid.
- xiii) The Bidder should supply, install and support the systems directly at the respective locations.

35. DELIVERY PERIOD

The delivery and installation would be required within 4-6 weeks on placement of the purchase order. However, ERNET India has the right to reduce the delivery period from 4-6 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 of the following sanctions-forfeiture of its EMD, imposition of liquidated damage as per para 36 below or/and cancellation of the purchase order for default.

36. LIQUIDATED DAMAGES

If the supplier fails to deliver any or all of the goods or complete the installation within the period specified in the purchase order, ERNET India shall without prejudice to its other remedies, deduct as liquidated damage **one per cent** of the price of the delayed goods for every week or part thereof subject to maximum of 10%. The amount towards Liquidated Damage would be recovered from any of the amount payable to the party.

37. Rates quoted by the Bidder shall be final and no negotiation will be held.

Yours faithfully,

(Dinesh Kumar Dixit)
Registrar & CPO

Annexure I**Bill of Material to be supplied and installed at ERNET Bangalore Centre**

Item	Quantity
Servers	6
Network Attached Storage	1
Manageable L2 Ethernet Switch	2
Apple MacBook Air	1
42U rack	1
KVM over IP Switch	1

Bill of Material to be supplied and installed at ERNET Chennai

Item	Quantity
Servers	6
Network Attached Storage	1
Manageable L2 Ethernet Switch	2
Apple MacBook Air	1
42U rack	1
KVM over IP Switch	1

Bill of Material to be supplied and installed at Kendriya Vidyalaya Schools in Delhi*

Item	Quantity
Unmanaged Ethernet Switch	6

Bill of Material to be supplied and installed at Kendriya Vidyalaya Schools in Bangalore*

Item	Quantity
Unmanaged Ethernet Switch	6

Bill of Material to be supplied and installed at Kendriya Vidyalaya Schools in Chennai*

Item	Quantity
Unmanaged Ethernet Switch	6

*Address of Kendriya Vidyalaya schools is mentioned in Annexure - VIII

Annexure I (A)**Technical Specifications in respect of Bill of Material as per Annexure-I.****➤ Servers:**

S.No.	Feature	Specification	Compliance (Yes/No)
1.	Form Factor	19" Rack Mountable	
2.	Processor	Latest Generation Dual Socket mounted each with 8 cores or higher, 2.4 GHz speed or higher	
3.	Network card	At least 4 - Gigabit Ethernet (GbE) Ports	
4.	Memory	Minimum of 32 GB DDR3 1333 MHz or higher, scalable up to 256 GB	
5.	Hard disk	Minimum 2 x 1 TB SAS Hot Swap HDD	
6.	USB Ports	At least 2 Free USB (2.0 or higher) ports	
7.	Virtual CPU Features	Should support Instruction set virtualization, memory management unit (MMU) virtualization, and Interrupt controller virtualization	
8.	Hypervisor Support	Support for Hypervisors like Xen, Citrix XenServer, Oracle VM, VMware ESX Server, Microsoft Hyper-V, IBM's POWER Hypervisor (PR/SM), KVM is must	
9.	Power Supply	Redundant power supply units	
10.	Remote Management	Dedicated NIC Port to have remote management capability of Power ON/OFF & bare metal recovery	
11.	Optical Drive	16x or higher DVD ROM	

➤ Network Attached Storage:

S.No.	Feature	Specification	Compliance (Yes/No)
1.	Form Factor	Rack-mountable	
2.	Processor	Quad core processor or higher	
3.	Memory	8 GB or higher	
4.	Storage	Minimum 8 x 2 TB with RAID 5 Raw	

		Capacity and up to 4 free additional slots for future expansion,	
5.	RAID	Integrated Dual RAID controller with RAID level 0, 1, 5 and 10	
6.	Ethernet	Min. 4- Gigabit Ethernet (GbE) ports	
7.	Replication	NAS Storage array should be able to replicate the data to a DR location (Synchronous and Asynchronous).	
8.	Protocol Support	Should have TCP/IP (both IPv4 and IPv6), FTP, CIFS, HTTP, NFS and iSCSI support	
9.	Software	Linux/Unix based Operating system and file system management software, must have inbuilt software to manage remotely over network	
10.	Power supply	Redundant power supply	
11.	Cooling	Redundant cooling	
12.	Networking support	These should have the capability for VLAN, Link Aggregation, Ethernet trunking for higher availability and performance.	

➤ **Manageable L2 Switch**

S.No.	Feature	Specification	Compliance (Yes/No)
1.	Form Factor	1U Rack Mountable switch	
2.	Ports and Standards	24 – Gigabit Ethernet (GbE) ports(IEEE 802.3ab 1000BASE-T)	
3.	Layer 2 Switching	The Switch should support Active configurable VLANs, MAC based VLANS and Multicast VLANS, Support for active STP instance and support for Policy based switching. It should be IPv6 enabled	

➤ **42U Rack**

S.No.	Feature	Specification	Compliance (Yes/No)
1.	Rack Type	Floor Standing	
2.	Cabinet type	Powder coated	
3.	Rack Frame	Aluminium Extrusion or Aluminium-MS combination	
4.	Rack width	Suitable for 19' rack mount equipment	
5.	Usable Space	42 U	

6.	Rack Depth	1200mm	
7.	Front Door	Perforated steel door with lock	
8.	Rear Door	Perforated steel door with lock	
9.	Side Panels	Perforated side panels	
10.	Top and bottom cover	Perforated top and bottom cover with cable entry facility	
11.	Cable Manager	2 - Vertical Cable Managers 2 - Horizontal Cable Manager	
12.	Fan trays	Fan tray with at least 4 cooling fans at the top of rack	
13.	Power Distribution Unit	Two vertical power distribution units each with 5 AMP sockets (Total thirty sockets), indicator with main switch and fuse/breaker for overload protection	
14.	Castor Wheels	Castor wheels with locking facility	
15.	Load bearing capacity	Minimum 500 Kg	
16.	Certification	Should conform to DIN 41494 and industry standards practices	
17.	Support Tray	2 support trays	

➤ **Unmanaged Ethernet Switch**

S.No.	Feature	Specification	Compliance (Yes/No)
1.	No. of Ports	24 port Gigabit Ethernet (GbE) unmanaged	

➤ **KVM-over-IP Switch**

S.No.	Feature	Specification	Compliance (Yes/No)
1.	Mounting	19" Rack Mountable	
2.	No. of Ports	16	
3.	Management	KVM-over-IP based Remote Management with multi user access	

4.	Security	SSL v3, RSA, AES, HTTP/HTTPS	
5.	Compatibility	Must be compatible with all leading server OEM's	
6.	Accessories	All other required cables and connectors should be provided	
7.	OS Support	Windows/Linux/Unix	

Annexure II**Bill of Material to be supplied and installed at ERNET Bangalore Centre**

Item	Quantity
Interactive Projector	1
Document Camera	1
Wireless Teaching Slate/Tab	1

Bill of Material to be supplied and installed at ERNET Chennai Centre

Item	Quantity
Projector	1
Document Camera	1
Wireless Teaching Slate/Tab	1

Annexure II (A)

Technical Specifications in respect of Bill of Material as per Annexure-II

➤ **Interactive Projector**

S.No.	Feature	Specification	Compliance (Yes/No)
1	Projector Type	Ultra Short throw	
2	Display	DLP WXGA DC3 Technology or better	
3	Resolution	1280 x 800 (WXGA) or higher Should Support Computer signal up to UXGA (1600 x 1200) 60Hz	
4	Brightness	3000 ANSI Lumens or higher	
5	Contrast Ratio	3000 :1 (Full on / Full off) or higher	
6	Lamp Life	3000 hrs (STD mode or higher	
7	Projection Distance	0.489m ~0.655m or better	
8	Projection screen size (Diagonal)	70 to 100 inches Or higher	
9	Aspect Ratio	Support for 16:10 , 4:3, 16:9 or better	
10	Remote Control	Full function remote controller with mouse function	
11	Audio	8W Speaker or higher	
12	Displayable Colors	1 Billion or more	
13	Interactivity	Support Interactivity with/Without screen (on any plan surface) using an input device like interactive pen	
14	Video Compatibility	Should support NTSC, PAL, SECAM, SDTV (at least 480i), HD 1080i	
15	I/O Connectors	VGA-in, VGA-Out, S-Video, Composite Video, HDMI, Analog Audio-In, one USB port	
16	Projection Mode	Multi Display mode for different environment(include black board mode),should Capable with HDTV & Wide-Screen laptop signal	

17.	Weight	Maximum 8 Kg	
18	Wireless	IEEE 802.11 a/b/g/n (Embedded Wi-Fi)	
19	Standard Accessories	Interactive pen, AC Power Cord, VGA to VGA Cable, USB cable, Remote Control, Batteries for Interactive pen and Remote, Lens Cap etc.	

** The projector should be compatible with the Document camera and Portable Wireless Teaching Slate/Tab

➤ **Projector:**

S.No.	Feature	Specification	Compliance (Yes/No)
1.	Projection System	DLP or better	
2.	Resolution	WXGA or better	
3.	Video Compatibility	NTSC, PAL SECAM, SDTV(480i, 576i), HDTV (720p,1080i)	
4.	Aspect Ratio	Support for 4:3, 16:9 or better	
5.	Contrast ratio	Atleast 2000:1	
6.	Displayable Colors	Atleast 16 million colors	
7.	Brightness	Atleast 2000 ANSI Lumens	
8.	Projection Distance	0.5 m ~2.5 m	
9.	Projection mode	Front, Rear, Front Ceiling, Rear Ceiling	
10.	Audio	Internal Speakers with Minimum 5 Watt output	
11.	I/O Connectors	S-Video, Composite Video, HDMI	
12.	Accessories	All necessary connectors, Remote Control, Laser Pointer and sufficient number of Batteries for Remote Controller	
Interactivity			
13.	Interactive Support	Additional hardware accessories(like interactive pen, USB Dongle, Interactive Bar etc.) and software that are required to support interactive projection must be supplied along with the projector	

➤ **Document Camera:**

S.No.	Feature	Specification	Compliance (Yes/No)
1	Pick-up Device	CMOS	
2	Output Resolution	SXGA (1280x 1024), WXGA (1280 x 800), UXGA (1600 x 1200), 1080p	
3	Frame Rate	30 frames/sec. or higher	
4	Capture Area	Min. 430 x 315mm or better	
5	Zooming	Min 16X Optical Zoom and 5 X Digital Zoom or higher	
6	Lamp	Top Light LED, Built-in Back Light for negatives and slides.	
7	Built in Storage	Min 100 frames or higher	
8	External Storage	Supports USB drive	
9	Image Capture	Single or continuous capturing images (time lapse photography)	
10	Picture by Picture	Yes	
11	Recording	One touch Video / Audio recording in standalone mode with built-in microphone.	
12	Image Rotation:	90, 180, 270 degree	
13	Slide Show	For continuous image playback (auto or manually)	
14	Focusing, White Balance and Exposure	Auto / Manual	
15	Inputs	VGA Input HD-SUB 15 Pins Female x 2, Audio In x 3, C-Video / S-Video x 1, Built in MIC x 1	
16	Outputs	VGA Output HD-SUB 15 Pins Female x 2, HDMI x 1, Composite Video x 1, USB 2.0 High Speed x 1, RS232 x 1, Audio out x 1	
17	Weight	Portable. Not more than 6.0 Kg.	
18	Ethernet Port	Built-in Ethernet Port to control remotely	
19	Desired Features	Spotlight, Annotation, Low Light Mode, PAN across the screen, compatible with	

124

		Interactive Boards, password protection.	
20.	Accessories	Power cable, VGA cable, USB cable, C-Video cable, audio cable, Microscope adapter, remote control	

** The document camera should be compatible with the projector

➤ **Portable Wireless Teaching Slate/Tab:**

S.No	Feature	Specification	Compliance (Yes/No)
1	Active Screen Area, Technology	Minimum 8" x 6", Electromagnetic	
2	Wireless Medium	Bluetooth or Wi-Fi	
3	Battery	Rechargeable Lithium-Ion Battery	
4	Range	Minimum 10m	
5	Resolution	Minimum 2000dpi	
6	Touch Input	Battery operated Electronic Pen	
7	Operating System	Windows, MAC, Linux	
8	Weight	Maximum 700g	
9	Power Source	USB Charged	
10	Polling Rate	Maximum 120 points per second	
11	LCD Panel	Battery status, connection status/Strength, Electronic Pen use	
12	Battery Backup	Minimum 8 hrs.	
13	Accessories	Necessary software like Free Notes, USB cable, Sufficient number of batteries for Pen and Tablet/slate, USB Receiver Dongle (if required), Electronic Pen, Battery Charger	

** The portable wireless slate should be compatible with the projector

Annexure III**Bill of Material to be supplied and installed at ERNET Bangalore Centre:**

Item	Quantity
Apple MacBook Air	1

Bill of Material to be supplied and installed at ERNET Chennai Center:

Item	Quantity
Apple MacBook Air	1

Bill of Material to be supplied and installed at ERNET Delhi Center:

Item	Quantity
Apple MacBook Air	2

Annexure III (A)

Technical Specifications in respect of Bill of Material as per Annexure-III

➤ **Apple MacBook Air**

MacBook Air 13" Dual-Core i5 with 1.8 GHz speed / 4GB RAM / 256GB storage

Accessories Required: -

- Magic Mouse
- Apple Mini Display Port to VGA Adapter
- Apple USB Ethernet Adapter

Annexure IV**Bill of Material to be supplied and installed at ERNET Bangalore Centre:**

Item	Quantity
Workstations	12
Laptops	2
Thin Clients (Windows)	1
Thin Clients (Linux)	1

Bill of Material to be supplied and installed at ERNET Chennai Center:

Item	Quantity
Workstations	12
Laptops	2
Thin Clients (Windows)	1
Thin Clients (Linux)	1

Annexure IV (A)**Technical Specifications in respect of Bill of Material as per Annexure-IV****Workstations**

S.No.	Feature	Specification	Compliance (Yes/No)
1.	Processor	Latest generation quad core processor with minimum 2.4GHz clock speed,	
2.	Monitor	19" Square TFT Digital Color Monitor	
3.	Memory	At least 8 GB 1333 MHz DDR3 RAM	
4.	HDD	500 GB SATA or More	
5.	Optical Drives	16 x or higher DVD RW Drive	
6.	Graphics	Minimum 32MB pre-allocated for graphics and at least 1GB Graphics Card	
7.	Ports	Min. 4 free USB (2.0 or higher)	
8.	Wireless	1 - Wireless PCIe card with support for IEEE 802.11a/b/g/n (along with Antenna)	
9.	Audio	Integrated HD Audio with Codec support	
10.	Network interface	At least 2 - Gigabit Ethernet (GbE) Ports	
11.	Mouse	USB wired optical mouse with scroll	
12.	Keyboard	USB standard keyboard	

Laptops:

S.No.	Feature	Specification	Compliance (Yes/No)
1.	Processor	Latest generation quad core or higher processor with 2.4 GHz or higher clock speed	
2.	Main Memory	4 GB DDR3 SDRAM	
3.	Hard Disk	320 GB or higher	
4.	Optical Disk Drive	16 X or higher DVD RW Drive	

5.	Network	At least 1 - integrated Gigabit Ethernet card, 1 - Integrated IEEE 802.11 a/b/g/n wireless with Bluetooth	
6.	Battery	Min. 6 cells	
7.	Mouse	External USB Wired optical mouse with scroll	
8.	Carrying case	Backpack	
9.	USB	Atleast 2 free USB (2.0 or Higher) ports	
10.	Speakers	Built-in stereo speakers	
11.	Camera	Built-in Front Side camera	
12.	Slots	1-SD Memory Card	
13.	Ports	1 - External VGA Monitor 1- HDMI Port	
14.	Weight	Less than 2.5 KG (With Battery)	



Thin Client (Windows)

S.No.	Feature	Specification	Compliance (Yes/No)
1.	Mounting	Vertical/Horizontal	
2.	Processor	1 GHz or above Processor	
3.	Memory	Minimum 2 GB DDR-3	
4.	VRAM	Integrated graphics with 32 MB shared RAM	
5.	Flash ROM	Minimum 4 GB	
6.	Ports	Minimum 4 free USB (2.0 or Higher)	
7.	Printer support	Local and network printers (RDP, ICA, LPD)	
8.	Networking	TCP/IP with IPv4 and IPv6 enabled from day one, Wake-on-LAN	
9.	Client Virtualization	Should support Microsoft RDP, Citrix ICA / HDX, VMware View through PCoIP or RDP	
10.	Operating System	Windows Embedded Standard 2009 or higher	
11.	Monitor	19" Square TFT Digital Color Monitor	
12.	Keyboard	USB Standard Keyboard	
13.	Mouse	Optical USB Mouse with scroll	
14.	Management software	Thin Client Management Software with SNMP support (over LAN and WAN both IPv4 and IPv6) for Remote Client profile update, Should support upgrade of group of thin client from Central	

		location at no additional cost	
15.	Server OS compatibility	Should support Citrix , VMware , Windows Server 2003 & 2008/R2 and other leading VDI brokers etc. from day one	

➤ **Thin Client (Linux)**

S.No.	Feature	Specification	Compliance (Yes/No)
1.	Mounting	Vertical/Horizontal	
2.	CPU	1 GHz or above Processor	
3.	Memory	Minimum 2 GB DDR-3	
4.	VRAM	Integrated graphics with 32 MB shared RAM	
5.	Flash ROM	Minimum 4 GB	
6.	Ports	Minimum 4 free USB (2.0 or higher) Ports	
7.	Printer support	Local and network printers (RDP, ICA, LPD)	
8.	Networking	TCP/IP with IPv4 and IPv6 enabled from day one, Wake-on-LAN	
9.	Client Virtualization	X RDP, X ICA and XDMCP	
10.	Embedded O/s	Linux (latest version)	
11.	Browser Support	Mozilla Firefox (latest version)	
12.	Monitor	19" Square TFT Digital Color Monitor	
13.	Keyboard	USB Standard Keyboard	
14.	Mouse	Optical USB Mouse with scroll	
15.	Management software	Thin Client Management Software with SNMP support (over LAN and WAN both IPv4 and IPv6) for Remote Client profile update, Should support upgrade of group of thin client from Central location at no additional cost	
16.	Server OS compatibility	Should support Citrix, VMware, Windows Server 2003 & 2008/R2 and other leading VDI brokers from day one	

Annexure V

Bill of Material (Software) to be supplied and installed at ERNET Bangalore Centre:

Package	No. of Licenses
Windows 7 professional + Software Assurance (3 years subscription)	14
MSDN Visual Studio Premium (3 years Subscription)	1
Windows Server 2008 R2 Enterprise Edition	2
Microsoft VDA (Virtual Desktop Access) Subscription (3 years Subscription)	4
VMWare View – Premium Edition (Latest version)	10
Citrix XenDesktop – Platinum Edition (Latest Version)	10
Corel Draw Graphics Suite	2
Adobe Acrobat X Professional (Latest Version)	4

Bill of Material (Software) to be supplied and installed at ERNET Chennai Center:

Package	No. of Licenses
Windows 7 professional + Software Assurance (3 years subscription)	14
MSDN Visual Studio Premium (3 years Subscription)	1
Windows Server 2008 R2 Enterprise Edition	2
Microsoft VDA (Virtual Desktop Access) Subscription (3 years Subscription)	4
VMWare View – Premium Edition (Latest version)	10
Citrix XenDesktop – Platinum Edition (Latest Version)	10
Corel Draw Graphics Suite	2
Adobe Acrobat X Professional (Latest Version)	4

Bill of Material (Software) to be supplied and installed at Kendriya Vidyalaya Schools in Delhi*:

Package	No. of License
Windows 7 Professional (Educational Licenses) + Software Assurance (3 years subscription)	12
Office Standard 2010 (Educational Licenses) + Software Assurance (3 years subscription)	12

Bill of Material (Software) to be supplied and installed at Kendriya Vidyalaya Schools in Bangalore*:

Package	No. of License
---------	----------------

116

Windows 7 Professional (Educational Licenses) + Software Assurance (3 years subscription)	12
Office Standard 2010 (Educational Licenses) + Software Assurance (3 years subscription)	12

Bill of Material (Software) to be supplied and installed at Kendriya Vidyalaya Schools in Chennai*:

Package	No. of License
Windows 7 Professional (Educational Licenses) + Software Assurance (3 years subscription)	12
Office Standard 2010 (Educational Licenses) + Software Assurance (3 years subscription)	12

*** Address of Kendriya Vidyalaya schools where the supply and installation is to be is mentioned in Annexure - VIII**

PRICE SCHEDULE FOR THE SUPPLY OF EQUIPMENTS DETAILED IN ANNEXURE- I

To,

ERNET India
Regional Office,
No 397, 13th Cross,
Poonam chambers,
Sadashivanagar,
Bangalore - 560080

Tender No. _____

Date of Opening

We _____ hereby certify that we are established firm of manufactures/authorized agents of M/s. _____ With factories at _____ which are fitted with modern equipment and where the production methods, quality control and testing of all materials and parts manufactured or used by us are open to inspection by the representative of ERNET India. We hereby offer to supply the following items at the prices and within the period indicated below:

S.No.	Description	Unit price (A)	Excise Duty (B)	WCT (C)	Sales Tax (D)	Total Unit Price (A+B+C+D)	AMC per Unit	Total AMC Cost for 2 years inclusive of service tax	Total Cost (7+9)
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.
(i)	Servers								
(ii)	Network Attached Storage								
(iii)	42U Rack								
(iv)	Manageable L2 switch								
(v)	Unmanaged Switch								
(vi)	KVM-over-IP-Switch								

Grand Total of Col.10 = _____

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.

Dated:/...../2012

(Signature and seal of Manufacturer/Bidder)

Annexure-VI (b)

PRICE SCHEDULE FOR THE SUPPLY OF EQUIPMENTS DETAILED IN ANNEXURE - II

To,

ERNET India
Regional Office,
No 397, 13th Cross,
Poonam chambers,
Sadashivanagar,
Bangalore - 560080

Tender No. _____

Date of Opening

We _____ hereby certify that we are established firm of manufactures/authorized agents of M/s. _____ With factories at _____ which are fitted with modern equipment and where the production methods, quality control and testing of all materials and parts manufactured or used by us are open to inspection by the representative of ERNET India. We hereby offer to supply the following items at the prices and within the period indicated below:

S.No.	Description	Unit price (A)	Excise Duty (B)	WCT (C)	Sales Tax (D)	Total Unit Price (A+B+C+D)	AMC per Unit	Total AMC Cost for 2 years inclusive of service tax	Total Cost (7+9)
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.
(i)	Interactive Projector								
(ii)	Projector								
(iii)	Document Camera								
(iv)	Wireless Teaching Slate/Tab								

Grand Total of Col.10 = _____

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.

Dated:/...../2012

(Signature and seal of Manufacturer/Bidder)

Annexure-VI(c)**PRICE SCHEDULE FOR THE SUPPLY OF EQUIPMENTS DETAILED IN ANNEXURE- III**

To,

ERNET India
Regional Office,
No 397, 13th Cross,
Poonam chambers,
Sadashivanagar,
Bangalore - 560080

Tender No. _____

Date of Opening

We _____ hereby certify that we are established firm of manufactures/authorized agents of M/s. _____ With factories at _____ which are fitted with modern equipment and where the production methods, quality control and testing of all materials and parts manufactured or used by us are open to inspection by the representative of ERNET India. We hereby offer to supply the following items at the prices and within the period indicated below:

S.No.	Description	Unit price (A)	Excise Duty (B)	WCT (C)	Sales Tax (D)	Total Unit Price (A+B+C+D)	AMC per Unit	Total AMC Cost for 2 years inclusive of service tax	Total Cost (7+9)
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.
(i)	Workstations								
(ii)	Laptops								
(iii)	Thin Clients(Wind ows)								
(iv)	Thin Clients (Linux)								

Grand Total of Col.10) = _____

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.

(Signature and seal of Manufacturer/Bidder)

Dated:/...../2012

Annexure-VI(D)**PRICE SCHEDULE FOR THE SUPPLY OF EQUIPMENTS DETAILED IN ANNEXURE-IV**

To,

ERNET India
Regional Office,
No 397, 13th Cross,
Poonam chambers,
Sadashivanagar,
Bangalore - 560080

Tender No. _____

Date of Opening

We _____ hereby certify that we are established firm of manufactures/authorized agents of M/s. _____ With factories at _____ which are fitted with modern equipment and where the production methods, quality control and testing of all materials and parts manufactured or used by us are open to inspection by the representative of ERNET India. We hereby offer to supply the following items at the prices and within the period indicated below:

S.No	Description	Unit price (A)	Excise Duty (B)	WCT (C)	Sales Tax (D)	Total Unit Price (A+B+C+D)	AMC per Unit	Total AMC Cost for 2 years inclusive of service Tax	Total Cost (7+9)
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.
(i)	Apple MacBook Air								

Grand Total of Col.10 = _____

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.

(Signature and seal of Manufacturer/Bidder)

Dated:/...../2012

(111)

Annexure-VI(e)

PRICE SCHEDULE FOR THE SUPPLY OF EQUIPMENTS DETAILED IN ANNEXURE- III

To,

ERNET India
Regional Office,
No 397, 13th Cross,
Poonam chambers,
Sadashivanagar,
Bangalore - 560080

Tender No. _____

Date of Opening

We _____ hereby certify that we are established firm of manufactures/authorized agents of M/s. _____ With factories at _____ which are fitted with modern equipment and where the production methods, quality control and testing of all materials and parts manufactured or used by us are open to inspection by the representative of ERNET India. We hereby offer to supply the following items at the prices and within the period indicated below:

S.No.	Description	Unit price (A)	Excise Duty (B)	WCT (C)	Sales Tax (D)	Total Unit Price (A+B+C+D)
1.	2.	3.	4.	5.	6.	7.
(i)	Windows 7 Professional + Software Assurance (3 years subscription)					
(ii)	MSDN Visual Studio Premium (3 years subscription)					
(iii)	Windows Server 2008 R2 Enterprise Edition					
(iv)	Microsoft VDA (Virtual Desktop Access) Subscription (3 years subscription)					
(v)	VMware View – Premier Edition (Latest Version)					
(vi)	Citrix XenDesktop – Platinum Edition (Latest Version)					
(vii)	Corel Draw Graphics Suite					

116

(viii)	Adobe acrobat X Professional Latest Version					
(ix)	Windows 7 Professional (Educational Licenses) + Software Assurance (3 years subscription)					
(x)	Office Standard 2010 (Educational Licenses) + Software Assurance (3 years subscription)					

Grand Total (Col. 7) = _____

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.

(Signature and seal of Manufacturer/Bidder)

Dated:/...../2012

Annexure-VII

PROFORMA FOR BANK GUARANTEE FOR CONTRACT PERFORMANCE

(To be stamped in accordance with stamp Act)
(The non-judicial stamp paper should be in the name of issuing Bank)

Bank Guarantee No.

Ref.

Date

To:

ERNET India
Department of Electronics & Information Technology
10th Floor, Jeevan Prakash Building,
25, K.G Marg,
New Delhi-110001

Dear Sirs,

In consideration of the ERNET India, Department of Information Technology Ministry of Communications & Information Technology (hereinafter referred as the 'Owner', which expression shall unless repugnant to the context or meaning thereof include its successors, administrators and assigns) having awarded to M/s. _____ (herein referred to as the 'Contractor', which expression shall unless repugnant to the context of meaning thereof, include its successors, administrator, executors and assigns) a contract bearing No. _____ dated _____ valued at _____ for _____ and the Contractor having (scope of Contract) agreed to provide a Contract Performance of the entire Contract equivalent to (_____ per cent) of the said value of the Contract to the Owner.

We _____ having its (Name & Address) Head Office at _____ (hereinafter referred to as the 'Bank', which expression shall, unless repugnant to the context or meaning thereof, include the successors, administrators, executors and assigns) do hereby guarantee and undertake to pay the Owner, on demand any and all money payable by the Contractor to the extent of _____ as aforesaid at any time up to _____ (day/month/year) without any demur, reservation, contest, recourse or protest and/or without any reference to the Contractor. Any such demand made by the owner the Bank shall be conclusive and binding notwithstanding any difference between the Owner and Contractor or any dispute pending before any court, tribunal or any authority.

The Bank undertakes not to revoke this guarantee during its currency without previous consent of the Owner and further agrees that the guarantee herein contained shall continue to be enforceable till the Owner discharges this guarantee. The owner shall have the fullest liberty, without affecting in any way the liability of the Bank under this guarantee, to postpone from time to time the exercise of any powers vested in them or of any right which they might have against the Contractor, and to exercise the same at any time in any manner, and either to enforce or to forebear to enforce any covenants, contained or implied, in the Contract between the Owner and the Contractor or any other course of or remedy or security available to the Owner. The Bank shall not be relieved of its obligations under these presents by any exercise by the owner or by any other matters or thing whatsoever which under law would, but for this provision, have the affect of relieving the Bank. The Bank also agrees that the Owner at its option shall be entitled to enforce this Guarantee against the Bank as a principal debtor, in the first instance without proceeding against the

108

Contractor and notwithstanding any security or other guarantee that the Owner may have in relation to the Contractors liabilities.

Notwithstanding anything mentioned herein above our liability under this guarantee is restricted to Rs. _____ and it shall remain in force up to and including _____ shall be extended from time to time for such period as may be desired by M/s. _____ on whose behalf this guarantee has been given.

WITNESS

BANK

Signature _____

Signature _____

Name _____

Name _____
(Bank's Rubber Stamp)

Official address _____

Designation with Bank Stamp _____

Attorney as per Power of Attorney No. _____

Date:

Address of Kendriya Vidyalaya Schools for Supply and Installation of Items Mentioned in Annexure I and Annexure V

Region	Address
Delhi	Kendriya Vidyalaya, Sector-8, R.K.Puram, New Delhi 110022
	Kendriya Vidyalaya, A:7, Sector 24, Noida, Gautam Budh Nagar, Uttar Pradesh - 201301
	Kendriya Vidyalaya, Gole Market (Behind RML Hospital), Udyan Marg, New Delhi - 110001
	Kendriya Vidyalaya No. -1, Delhi Cantt (Near Sadar Bazar), New Delhi - 110010
	Kendriya Vidyalaya No. 2, Near A.P.S Colony, Gurgaon Road, N.H-8, Delhi Cantt., New Delhi - 110010
	Kendriya Vidyalaya, Vigyan Vihar (Near Vivek Nagar Police Station), New Delhi - 110092
Bangalore	Kendriya Vidyalaya, DRDO Complex, C.V.Raman Nagar, Bangalore - 560093
	Kendriya Vidyalaya ASC & Centre, No.1 Victoria Road, Bangalore - 560047
	Kendriya Vidyalaya, Hebbal, Sadashiva Nagar Post, Bangalore - 560080
	Kendriya Vidyalaya, Indian Institute of Sciences (IISc), Bangalore - 560012
	Kendriya Vidyalaya No-1, Airforce Station, Jalahalli West, Bangalore - 560015
	Kendriya Vidyalaya, St. Johns Road, Sivan Chetty Garden Post, Kamaraj Road, Bangalore - 560042
Chennai	Kendriya Vidyalaya - CLRI, Sardar Patel Road, Adyar, Chennai - 600020
	Kendriya Vidyalaya, Dr. Natesan Salai, Ashok Nagar, Chennai - 600083
	Kendriya Vidyalaya, G.P.R.A Campus, Thirumangalam, Chennai - 600040
	Kendriya Vidyalaya No.2, Air Force Station, Madambakkam Camp, Post Selaiyur, Chennai - 600073
	Kendriya Vidyalaya, IIT Chennai - 600036
	Kendriya Vidyalaya, AFS Avadi, Thiruvallur (Dist.), Chennai - 600055