Tender No. 1/CMB(HW)/2015   **Dated: 11.02.2015**

Tender Document

Lok Sabha Secretariat intends to procure 6 Blade Servers, 1Blade Enclosure, 1 Rack, 1 Unified Storage Area Network (SAN), 2 SAN Switches, 1 Virtual Tape Library (VTL), 24 License for VMware VSphere with operations Management Enterprises for 1 Processor, 1 License for VMware vCenter Server 5 standard for vSphere, 20 License for MS Windows-2012-R2 Standard edition, 4License for Red Hat Enterprise Linux 6.5 Version, 10 License for MS-SQL-2012 R2 Standard edition and 12 License for Backup Software for backing up data bases on VTL through advertised Tender. The configuration and quantity of the required item (s) are mentioned at **Annexure – I to IX.** The details of Tender Enquiry are as under: -

Eligibility Criteria

(i)   The Bidders must have their Head office/Branch office/service centre/ OEM's service centre in Delhi/NCR and must conform to norms of the Government pertaining to registration and taxation.

(ii)   Bidders, if not OEM, should have authorization from manufacturer for supply, installation, commissioning, services etc. of the quoted items.

(i)   Bidder should have minimum three year's experience of supply of items pertaining to this Tender Notice in bulk to Government Departments/PSUs/Autonomous organizations and should not have been blacklisted by any of them.

(ii)   Bidders should have minimum turnover of Rs.**10** crores during each of the last three consecutive financial years.

(iii)   The Bidder should also fulfill the other eligibility criteria as mentioned in **Annexure – X** and submit the information as required.

2.   **Technical Bid**

The Technical Bid shall comprise of two parts viz., Part - A and Part - B. Part - A of Technical Bid shall consist of documents pertaining to eligibility criteria as mentioned in **Annexure-X.** Documents furnished in Part A of Technical Bid must be serially numbered and indexed and placed in an envelope**.** Part - B regarding specifications, warranty etc., should be submitted in proforma **i & ii** as mentioned in **Annexure-XI & XII**.   Both Parts of Technical Bid should be placed in separate envelopes and superscribed as "Technical Bid - Part A" and "Technical Bid - Part B". Both these envelopes should be placed in bigger envelope with superscription, "Technical Bid".

3.   **Financial Bid**

The Financial Bid should have only Prices/Rates quoted by the Bidder in proforma enclosed as **Annexure- XV to XVI.** The following points may also be noted:-

(i)   The rates/prices should be quoted in Indian Rupees only (in words as well as in figures). The rates/prices quoted should be inclusive of all taxes/ packing/cartage etc. However, a break-up of price and applicable taxes should be mentioned therein.

(ii)   The Bidder should quote only one rate for one item as per specification.

(iii)   The rate quoted shall be final.

(iv)   If the charges of any items get reduced during the validity of Tender, the benefit thereof would be passed on to Lok Sabha Secretariat. Further, no claim for compensation or loss due to fluctuations in currency rates or any other reason shall be entertained.

4.   **Bid Validity**

(I)   The Bid shall remain valid for a period of 120 days from the date of opening of Technical Bid.

(ii)   The rate quoted must be valid for **six months** from the date of opening of Financial Bid.

5.   **Submission of Bid**

(i)   The Bid shall be legible, typed/printed and be in English only. All the pages of the Bid should be serially numbered and signed.

(ii)   The Bid prepared by the Bidder shall comprise of (i) Technical Bid and (ii) Financial Bid.

(iii)   Bid may be submitted in the following manner:

(a)   **Envelope No. 1-** Shall contain the Earnest Money Deposit (EMD)/Bid **Security**. The envelope must be superscribed as "EMD/ Bid Security"**.**

(b)   **Envelope No. 2**- Shall contain Technical Bid with two separate envelopes superscribed **Part A and Part B** as mentioned in para 2.

(c)   **Envelope No.3-** Shall contain Financial Bid.

(d)   **Envelope No. 4-** Shall be a bigger envelope containing envelopes 1, 2 & 3 as mentioned above.

All the envelopes must be sealed and superscribed as "Tender for **Blade Servers, Blade Enclosure, Rack, Unified Storage Area Network (SAN), SAN Switches, Virtual Tape Library (VTL), and Related Software**" and addressed to **The Director (EA&C), Computer (HW&SW) Management Branch, 514-A, Parliament House Annexe, New Delhi-110001. The Tender may be dropped in the Tender Box placed in the Reception Office, Parliament Library Building (Opp. Gurudwara Rakabganj), New Delhi-110001 on or before the last date and time of submission of Tender, i.e. 20.03.2015 upto 1700 hrs.** If the last date happens to be a holiday, the same would be accepted on next working day as per above schedule. Tenders received after due date and time and sent by email, fax, telegram or any other method will not be accepted.

(iv)   All the envelopes shall also indicate the name and address of the Bidder enabling the Bid to be returned, if required.

6.   **Bid Security/Earnest Money Deposit (EMD)**

(i)   An Earnest Money of **Rs.6 Lakhs** in the form of Account Payee Demand Draft/Fixed Deposit Receipt/Banker's Cheque/Bank Guarantee in favour of 'Drawing & Disbursing Officer', Lok Sabha, New Delhi must be furnished in a separate envelope as stated in para **5** (a) above. Earnest Money will not be accepted in the form of Money Order/Cash. The Bid Security shall remain valid for a period of 45 days from the last date of **Bid Validity Period**.

(ii)   A Bid received without Earnest Money or with Earnest Money of lesser value will be outrightly rejected.

(iii)   The EMD may be forfeited in the following cases:

(a)   If a Bidder withdraws his Bid during the period of Bid validity; or
(b)   In the case of finally selected Bidder, if the Bidder fails: -

(i)   to furnish contract performance security in accordance with Tender; or
(ii)   if at any stage of the Tender process, the information or declaration furnished is found false; or
(iii)   if the Bidder fails to execute a contract as per terms and conditions of Tender Notice.

(iv)   The Earnest Money is not required to be submitted by the Bidder who is registered with the Central Purchase Organisation, National Small Industries Corporation(NSIC) or the concerned Ministry or Department for the items under consideration. In such case, a copy of valid Registration Certificate issued by DGS&D/NSIC (for the quoted product) must be furnished in place of Bank Draft/Bank Guarantee, etc. as per para 6(i) above.

(v)   The Bid Security of unsuccessful Bidders will be returned on or before 30 days after award of contract without any interest. **The EMD of finally selected Bidder will be discharged upon his signing the contract and furnishing the Performance Security Deposit (PSD) before placing purchase order.**

7.   **Opening of Bid**

(i)   Envelope No.1 containing the Earnest Money/Bid Security/Registration certificate issued by DGS&D/NSIC shall be opened by Pay & Accounts Officer of Lok Sabha on **24.03.2015** at 1500 hrs. in the presence of DDO, Lok Sabha, and the Bidders or their Authorised Representatives. The Representatives are required to bring photo identity cards issued by the Bidder and also a copy of the authorisation as given in **Annexure-XVII**. A copy of the authorization may also be sent to this Secretariat separately at least three working days before the opening of the Bid.

(ii)   Envelope No. 2 containing the Technical Bid shall then be opened on **24.03.2015** and serially numbered. Envelope containing Part A of the Technical Bid shall be opened first. After scrutiny of Part A of Technical Bid, Envelope containing part B of Technical Bid shall be opened. The date will be intimated to the participants bidders.
        No query regarding Technical Bid/Bid Security would be entertained after completion of Technical Bid opening process.

(iii)   Envelope No.3 containing the Financial Bids shall be opened only for technically qualified Bidders in the presence of P&AO, Lok Sabha, and the Bidders/their Authorized Representatives on a later date which would be intimated to technically qualified Bidders. Only summary of prices quoted by the Bidders will be read out.

(iv)   Lok Sabha Secretariat reserves the rights to reject quotations not conforming to the Tender Document.

8.   **Technical Evaluation Process**

     A duly constituted Technical Evaluation Committee (TEC) will first select Bidders on the basis of eligibility criteria defined for this Tender. The Bids conforming to the eligibility criteria only will be considered for further evaluation. If there is any lack of clarity in the submitted eligibility documents, TEC may seek further information or ask concerned Bidder's representative to be present physically to prove their eligibility.

(i)   The TEC will short list the Technical Bids on the basis of Technical parameters.

(ii)   Technical Bids will be evaluated as per **the Annexure X,XI&XII**

(iii)   The Blade Servers to be supplied should work under Windows & GNU/Linux/RHEL Operating System.

(iv)   Bidders are advised to ensure that the system conforms to all Technical parameters and is a tested one.

(v)   A Bidder will be allowed to quote only one product/make against each category.

(vi)   Lok Sabha Secretariat reserves the right to amend/modify the evaluation procedure anytime in its overall interest.

9.   **Determination of Lowest Bidder and award of contract**

(a)   **Determination of Lowest Bidder (L-1)**

The Criteria for evaluation of Lowest Bidder would be as under:

(i)   Lowest Bidder (L-1) will be the one whose total quoted rate for all the items i.e. **Blade Servers, Blade Enclosure, Rack, Unified Storage Area Network(SAN), SAN Switches, Virtual Tape Library(VTL) and Related Software** taken together is the lowest;

(ii)   Lok Sabha Secretariat reserves the right to select any of the Lowest Bidder in case of tie.

(b)   **Award of contract**

After selection, contract shall be awarded to the Lowest Evaluated Bidder whose Bid has been found to be responsive and who is eligible and qualified to perform the contract as per the terms and conditions of Tender Document.   Such Lowest Evaluated Bidders shall have to execute an Agreement on a stamp paper of Rs 100/- (to be paid by Bidder) as per proforma to be provided by Lok Sabha Secretariat.

10.   **Performance Security Deposit (PSD)**

Before signing of agreement for supply of quoted item(s) and placing of Purchase Order, the successful Bidder shall have to furnish a Performance Security amounting to 5% of value of the contract (L1) in the form of   Account Payee Demand Draft, Fixed Deposit Receipt from a Commercial Bank, Bank Guarantee from a Commercial Bank in an acceptable form safeguarding the purchasers interest in all respects in favour of "Drawing & Disbursing Officer, Lok Sabha" payable at New Delhi. The Performance Security shall also be furnished by the Bidders registered with DGS&D and NSIC. The Performance Security shall be released without any interest after 60 days of discharge of all contractual obligations including warranty obligations/FSMA period**.**   The Earnest Money will be returned to the Bidder after signing of agreement and furnishing of Performance Security.

11.   **Service during Warranty Period**

(i)   The **Bidder** shall certify that the stores supplied to the Secretariat under Supply Order placed against this Tender are of best quality and workmanship and new in all respects and are strictly in accordance with the specifications and particulars mentioned in **Annexure I to IX** to this Tender Document.

(ii)   The Bidder shall certify that Software supplied to the Secretariat are

original.

(iii) The Bidder shall provide **Comprehensive Onsite Warranty for a period of five years** for **Blade Servers, Blade Enclosure, Rack, Unified Storage Area Network (SAN), SAN Switches, Virtual Tape Library(VTL) and Related Software** including free spare parts, kits etc.. During warranty period, all the parts of the product shall be considered non-consumable and Vendor shall have to maintain all such parts at no extra cost. The period of comprehensive onsite warranty will start from the date of installation and commissioning of items but not later than 60 days from the date of delivery of items in the Secretariat. The Bidders shall also furnish an undertaking from OEM that **they shall supply spares for the quoted product for next five years after warranty period is over**. The Bidder shall furnish the Warranty to the effect that before going out of production for the Spare Parts, it will give adequate notice to the purchaser of the equipment so that the latter may undertake the balance of lifetime requirements for the hardware.

(iv) The Bidder shall maintain the supplied items free of charge **during warranty period**. After, such period, the Bidder shall have to conclude a maintenance agreement with the Secretariat for such period and with such terms and conditions as may be necessary and mutually agreed to.

(v) The Bidder shall maintain enough spares so as to provide satisfactory on-site comprehensive maintenance services during the warranty period.

(vi) **The Bidder shall make available services of one System Engineer at his own cost for one year from the date of commissioning.** The Engineer shall have appropriate Technical Degree and experience of at least five years in Hardware system, Software installation and SAN/Back up operation etc. It shall be the duty of the System Engineer to configure, maintain and manage the Servers/SAN/Backup. The Engineer shall also train the staff of Lok Sabha Secretariat, NIC and allied agencies for the same purpose along with data security.

12. Delivery/Installation/Commissioning

(i) The procured items shall be delivered **Free on Board (FOB)** at the Lok Sabha Secretariat during office hours.

(ii) The Lok Sabha Secretariat shall have right to inspect the items under consideration before delivery/installation by itself or by an agency nominated by it. The Bidder(s) shall extend all reasonable facilities for the testing of the items.

(iii) Before the delivery, the Bidder(s) shall satisfy that the items are as per terms and conditions of this Tender.

(iv) The item(s) will be delivered within 30 days of confirmed order placed by the Lok Sabha Secretariat.

(v) The delivered items shall be installed and commissioned by the Bidder within 30 days of delivery or such extended period as may be communicated by the Secretariat.

(vi) In case of delayed delivery upto 15 days without valid reason, a penalty of an amount equal to 0.5% of the total value will be imposed. Thereafter, a penalty at the rate of 1% of the value of the items upto one month will be imposed. Besides, the Purchase Order for remaining quantity may be considered for cancellation, if the delay is more than one month. The

penalty, if not paid, shall be recovered from PSD.

13.   Force Majeure Clause

If at any time during the continuance of this Tender, the performance in whole or in part by either party of any obligation under this Tender shall be prevented or delayed by the reasons of any war, hostility, acts of the public enemy, epidemics, civil commotion, sabotage, fires, floods, explosion, quarantine restrictions, strikes, lockouts or act of God   (hereinafter referred to as such acts) provided notice of happening of such event is given by one party to the other within 21 days from the date of occurrence thereof, neither party shall be by reasons of such event, be entitled to terminate this Tender nor shall either party have any claim for damages against the other in respect of such non-performance or the delay in performance, and deliveries under the Tender shall be resumed as soon as practicable after such event has come to an end or ceased to exist, and the decision of the Competent Authority as to whether the deliveries have been so resumed or not, shall be final and conclusive, provided further that if the performance in whole or part of any obligation under this Tender is prevented or delayed by reason of any such event for a period exceeding 60 days, either party may at its option terminate the Tender provided also that the purchaser shall be at liberty to take over from the Bidder at a price to be fixed by Competent Authority, which shall be final, all unused, undamaged and accepted material, bought out components and stores in course or manufacture in the possession of the contractor at the time of such termination or such portion thereof as the purchaser may deem fit excepting such materials, bought out components and stores as the Bidder may with the concurrence of the purchaser elect to retain**.**

*14.   Complaint Redressal

(i)   During warranty period the complaint should invariably be attended within 2 hours of lodging the same and must be resolved within 4 hrs if the complaint is lodged by 4 p.m.   In case of complaint lodged after 4 PM, the same must be resolved by 12.00 a.m. the next day. The engineer(s) of the firm/OEM will attend the complaint at the location of the item (s) in the Secretariat shall be imposed.

(ii)   The overall system uptime during a quarter shall be 99.5% calculated on hourly basis.

(iii)   In case of system downtime below 99.5% in any quarter, a fine of Rs.5000/-per hour for system downtime will be imposed. The penalty, if not paid, shall be deducted from the Performance Security Deposit furnished.

15.   Other General Terms and Conditions

(i)   The individual signing the Tender Document or any other document forming part of the Tender on behalf of Proprietor/Company/Firm shall be responsible to produce an authenticated copy of the resolution passed by the Company, or Power of Attorney duly executed in his favour stating that he has the authority to bind other such persons of the firm as the case may be in all matters pertaining to the Tender including the arbitration clauses. If subsequently, the person so signing fails to provide the said copy of resolution passed or Power of Attorney within a

reasonable time, the Secretariat, without prejudice to other civil and criminal remedies, may cancel the Tender and hold the signatory liable for all cost and damages. In case of Partnership firm, all the partners shall sign the Tender. In case any person signs the Agreement on behalf of any Limited Company or Firm, he will produce letter of authority/resolution passed by the Company empowering him to sign the Agreement on behalf of the Company or Firm.

(ii)   In the event of failure of the Bidder to supply whole or part of the purchase order, the Secretariat shall request the next responsive Bidder to supply the remaining item(s) at L1 rate(s). In the event of non-supply by such L1, the Performance Security or Earnest Money so deposited by the Bidder shall be forfeited and other legal action may also be initiated. Further, the Bidder will be blacklisted for supply of any item to the Secretariat.

(iii)   The Bidder shall indemnify the Lok Sabha Secretariat against all damages/charges and expenses on account of the negligence of the Firm or his servants or damages to the property of any member of the public or any person or in executing the work or otherwise.

(iv)   The assignment of the contract to Authorized Service Partner shall be allowed only in case of OEM.

(v)   The decision of Lok Sabha Secretariat arrived during the various stages of the evaluation of the Bids will be final & binding on all Vendors. Any representation towards these shall not be entertained by Lok Sabha Secretariat.

(vi)   In case the Vendor is found in-breach of any condition(s) of Tender or Supply Order, at any stage during the course of supply/installation/commissioning or warranty period, the legal action as per laws shall be taken.

(vii)   In case of any attempt by Vendor to bring pressure towards Lok Sabha Secretariat's decision making process, the same shall be disqualified for participation in the present Tender and those Vendors may be liable to be debarred from Bidding for Lok Sabha Secretariat Tenders in future.

(viii)   Any additional condition other than mentioned in Tender Document will not be binding on Lok Sabha Secretariat.

(ix)   No deviations from terms and conditions of Tender will be accepted. Any violation thereof will lead to the rejection of the Bid.

(x)   Upon verification, evaluation/assessment, if in case any information furnished by the Vendor is found to be false/incorrect, their total Bid shall be summarily rejected and no correspondence on the same shall be entertained.

(xi)   Lok Sabha Secretariat will not be responsible for any misinterpretation or wrong assumption by the Vendor, while responding to this Tender.

(xii)   The Lok Sabha Secretariat reserves the rights to terminate the Tender without assigning any reason thereof at any stage.

(xiii) The successful Bidder shall have to enter into Service Level Agreement (SLA) with LSS for maintenance during warranty in accordance with terms and conditions of this Tender Enquiry.

(xiv) The quantity of Hardware/Software may increase/decrease as per the requirement of LSS. Further, the repeat order(s) may be issued.

16. **Bill Payment**

(i)   Detailed Invoice showing Sales Tax/VAT Registration Nos., TIN/PAN etc. shall be submitted to this Secretariat for payment.

(ii)   Payment will be made only after certificate of installation/commissioning of all ordered items as per this tender, their satisfactory performance by Computer Management Branch or its authorized persons.

(iii)   No advance payment will be made.

17. **Clarifications/Pre-Bid Conference.**

(i)   **A Pre-Bid Conference for the Bidders will also be held at 1500 hrs. on 23.02.2015** in **Committee Room - B, Parliament House Annexe, Lok Sabha Secretariat, New Delhi** for clarifying issues and clearing doubts, if any, regarding Tender. **A Bidder wishing to attend the Pre-Bid conference should specifically indicate his/her intent latest by 20.02.2015.** Any suggestions regarding Tender Documents, may be submitted to Director (EA&C), Computer (HW&SW) Management Branch (Hardware Unit) through e-mail, i.e. mqb-lss@sansad.nic.in or **letter** on or before **25.02.2015.**

(ii)   If after the Pre-Bid meeting any change in the specifications of the items is made, it will be published on the website of Lok Sabha as "Corrigenda". No separate information in any other form will be sent. The "Corrigenda" if so published will be considered as the part of the Tender Document.

18. **Dispute Redressal**

(i)   All disputes, differences and questions arising out of the Tender shall be referred to the sole Arbitrator appointed by the Secretary-General, Lok Sabha. The arbitration shall be in accordance with the Arbitration and Conciliation Act, 1996. All disputes shall be subject to jurisdiction of courts of Delhi only.

(ii)   The terms and conditions of this Tender Notice or Contract to be concluded with the successful Bidder shall be interpreted in accordance with the Indian laws.

Tender for Blade Servers, Blade Enclosure, Rack, Unified Storage Area Network (SAN), SAN Switches, Virtual Tape Library(VTL) and Related Software

Blade Server

Blades server should be equipped with as given below or higher specification.

> The server should have four nos. of latest eight core or higher 64-bit x86 processor fully binary compatible to 32-bit applications. Number of cores on a single die/socket will be treated as a single processor. The server should have Processor SPEC CPU2006 benchmarked with SPEC Rating in the range of at least **861-900** (60% of SPECint_rate_base2006 plus 40% of SPECfp_rate_base2006 scores) benchmarked with max. **512GB** memory.

> Motherboard based associated Chipset.

> SAS controller with support for RAID 0 & 1.

> 2x300GB Hot Swap 15K RPM or higher SAS drives.

> 512GB of DDR-III 1333MHz or higher memory with ECC expandable up to 1 TB.

> Quad 10Gbps FCoE Ports through two separate controllers. Each port should be configurable in at least one FC Port of 8Gbps or higher and two Ethernet **Ports 1Gbps/10Gbps. Virtual network created out of each FCOE port should support port channel.**

^ Server should have embedded hardware based Virtual Machine support.

> Dedicated Hardware management port for remote access to server for

      i.   Deployment & management of server
      ii.   Web based out-of-band control
      iii.   IPMI 2.0 compliant
      iv.   Server health logging
      v.   Virtual Media with required licenses
      vi.   Power management (Remote power on/shutdown)
      vii. System management software with all device driver & licenses.

> Blade server to be certified on Windows 2012 or higher, and Linux Server OS. Blade server should also support minimum two (most popular) open server OS.

Tender for Blade Servers, Blade Enclosure, Rack, Unified Storage Area Network (SAN), SAN Switches, Virtual Tape Library(VTL) and Related Software

Blade Enclosure

S.No.	Component Name	Component Description	Technically Compliant (Yes/No)
1	Form Factor	Rackmount Maximum 10U	
2	Server Blade Slots	Minimum 14 slots (Support 14 nos. two processor x86 based blade server having HDD of any interface (SATA, SAS or SSD).	
3	10 Slots	Enclosure should have sufficient number of 10 slots to support up to four 1Gbps/10Gbps Ethernet and two 8Gbps or higher FC ports per blade server for fully populated chassis.	
4	10 Fabric	Chassis should equipped with Hot-plug Redundant modules/switches. Each Module/Switch should be equipped with minimum 4x10Gbps or higher Ethernet & 4x8Gbps or higher FC uplink ports and minimum 1x10Gbps FCoE downlink ports to each x86 two processor server in fully populated enclosure with blade servers. Module/Switch should support Port channel. The downlink BW of each FCoE port of 10 modules/switches should be configurable in any combination of Ethernet and/or FC ports. The connection to the server blades should be through internal link. Enclosure should have sufficient number of 10 slots to support up to four 1Gbps/10Gbps Ethernet and two 8Gbps or higher FC ports (Configured on CNA Ports) per blade server for fully populated chassis. Cables equal to number of uplink ports (Multimode Fiber Cable for FC uplink ports) of 10 modules should be part of the enclosure BOM.	
5	Management Module/Solution	Redundant Management Modules**/solution(with in enclosure/outside)** per blade enclosure to provide System Management Functions, IP KVM switching, virtual media and Remote Management Connection over Ethernet for server deployment along with all required licenses for above functionality. The management module**/solution** should provide easy to use GUI interface for server deployment & management over IP. Should support simultaneous remote access for all blade servers in enclosure. Management software licenses for fully populated chassis and should have provision for remote update of system software /firmware components.	
6	Power Supply	The chassis should be fully populated with suitable hot-swap redundant power supplies in n+n configuration capable to supply power to fully populated chassis.	

Tender for Blade Servers, Blade Enclosure, Rack, Unified Storage Area Network(SAN), SAN Switches, Virtual Tape Library(VTL) and Related Software

42U Rack

OEM (Quoted Server Make) 42U Rack with following specifications.

Should be with solid grounding kit to carry heavy static load up to 900kg.

Cabinet should be Powder coated.

Rear & Front door should be perforated (minimum 50%) to allow an efficient airflow into the components installed in the rack. **Side panels should be openable type with slam latches.**

Equipped with dual power sourced modular redundant power distribution unit, occupying Zero rack space. Each PDU should have minimum 12 No. of Industry standard IEC type redundant power sockets along with power cables. PDU should be in modules so that standard cable available with equipment can be connected to PDU **Socket**

Tender for Blade Servers, Blade Enclosure, Rack, Unified Storage Area Network(SAN), SAN Switches, Virtual Tape Library(VTL) and Related Software

Unified Storage Area Network (SAN)

Sl No.	Required Minimum Specification
1	Array shall be configured with **40** TB **Raw** capacity using **900GB** or higher **15**K RPM Dual Ported SAS Drives with one additional global hot spare drive of same capacity for every thirty data drives
2	Array shall be scalable to **80**TB **Raw** capacity using **900GB 15**K RPM SAS Disk drives using same controllers
3	Array shall be configured with minimum Dual controller in Active-Active mode. Array shall support RAID level level 1/10, 5 & 6
4	Array shall support drive types of SSD, SAS & NL-SAS with provision of intermixing of these drive types within the same controller.
5	Array shall be configured with Minimum 8* 8 Gbps or higher FC ports, **4x1*1Gbps**, iSCSI Ports & **2** * 10Gbps NAS ports across controllers.**2X8Gbps ports for NDMP backup shall be provisional 4X10Gbps FCOE, Ports shall be provided natively or externally**
6	Array shall be configured with minimum of 8 x SAS Lanes of 6 Gbps per controllers
7	Array shall be configured with Minimum 32 GB **RAM** memory across **SAN** controllers with battery backup for 72Hrs OR equivalent mechanism to protect data in memory in the event of unplanned power failure. **Additional 16GB memory shall be available across NAS controller for NAS operation**.
8	Array shall be Rack Mountable with Hot Swap Redundant Power Supply & Cooling Fans; All necessary cables and accessories to connect Storage System to SAN Switch shall be provided.
9	The storage system should support FC, iSCSI and FCOE Protocols for Block connectivity and CIFS, NFS for File Connectivity from Windows, Linux and Unix servers. **License if any to enable these protocols shall be supplied from day one. Array shall support NDMP Backup for NAS Data. Any license feature if applicable for NDMP backup shall be supplied from day one**.
10	Proposed array shall support native Multipath driver for leading operating systems like RHEL, Windows and Unix.
11	Array shall have no single point of failure **(NSPOF);** it should support Online firmware upgrades and Remote diagnostic support.
12	Array shall be supplied with license feature to Point-in Time Copy; Clone; Online Volume Migration, Array based LUN masking, Multipath, Thin Provisioning, File De- Duplication from day one for entire proposed capacity. Any license if applicable to restore production volume from snap/clone shall be supplied for entire proposed capacity. Array shall be also supplied with feature license if applicable to show detailed key performance characteristics like, Read and Write IOPS, Throughput, response time, controller utilization, disk utilization, capacity utilization etc. Management GUI Shall support scheduling of reports for above performance metrics.

13	Array shall be supplied with license feature to replicate production data using Block and file based Remote replication to DR Site in ASYNC mode. Proposed Replication feature shall support integration with Vmware SRM for automation of DR Drills. **Any FC-IP Hardware if needed for replication from Storage to DR site(more than 1000KM apart) shall be supplied in redundant configuration from day one.**
14	Array shall be supplied with Single Web based management tool to manage all protocols like FC, iSCSI, FCoE, NFS and CIFS. It shall be capable to create, allocate, expand & move Luns dynamically; Proposed Management GUI shall be capable to discover Virtual machines and also show mapping of LUNs to Virtual Machines. Proposed Management GUI shall support Role based access, Auditing of logs, Quality of Service, Quota management, SNMP & Email alerts. It Should be capable to manage other Storage systems of the same class and make. Proposed Management GUI shall also support administration and configuration of Snapshot, Clones and Replication as well.
15	Storage must be complied to VMware API for Array Integration and Microsoft ODX standards.
16	Proposed Array shall support Windows, Linux and Unix Server connectivity
17	Array shall be supplied with Five year on-site comprehensive warranty support and two year extended warranty
18	**OEM Rack should be supplied with SAN Storage**
19	**NAS Controller Specifications** **(i) NAS controller should be configured in High Available mode (No. Single Point of failure)** **(ii) With automatic controller failover.** **(iii) The File Serving module storage array should provide support for both CIFS and NFS Protocol, dynamic provisioning as a standard feature.** **(iv) Support for Common Internet File System (CIFS); Network File System (NFS); NDMP or equivalent for Backups;** **(v) The File Serving module storage must have the capability to integrate with Microsoft Windows AD services and LDAP;** **(vi) A share must be accessed by both NFS and CIFS clients for data sharing among clients;** **(vii) The File Serving module file system must support file system rollback from snapshot for vast restart/recovery**

Tender for Blade Servers, Blade Enclosure, Rack, Unified Storage Area Network(SAN), SAN Switches, Virtual Tape Library(VTL) and Related Softarwe

Storage Area Network(SAN) Switches

Sr No	Specification/Requirement for Edge Fiber Switch
1	The fiber switch should be quoted with minimum 32 Ports of 8Gbps or higher speed each
2	The Switch should have support for 2/4/8 Gbps HBA
3	The Switch should have auto sensing, Zoning, Integrated Ethernet and Serial Port for communication.
4	Switch should be rack mountable 1U size and should be supplied with mounting kit
5	The switch should be equipped with redundant hot swap power supply and Fan and allow hot swap ability without resetting the switch, or affecting the operations of the switch.
6	The switch should be backward compatible.
7	The switch should be capable for non-disruptive firmware update.
8	The switch should be capable of end to end performance monitoring.
9	The switch should have support for POST & online diagnostics
10	The switch should be capable to interface with host based adapters (HBA) of multiple OEM, supporting multiple Operating Systems
11	The Switch should have following Zoning and security features (a) Support for hardware –enforced zoning. (b) Police based security and centralized fabric management. (c) Support for secure access. (d) Support for FC based authentication. (e) Support for RADIUS, SSH,SNMP (f) Support for port binding (g) Support for port masking. (h) Support for Hardware based Inter Switch linking/trunking. (i) Support for dynamic load balancing of links with no overhead. All relevant licenses for above features should be quoted along with switch

Tender for Blade Servers, Blade Enclosure, Rack, Unified Storage Area Network(SAN), SAN Switches, Virtual Tape Library(VTL) and Related Software

Virtual Tape Library (VTL— 40TB)

SI No.	Features	Minimum Specification
1	Capacity	40 TB(raw) using SATA 7200 rpm HDDs; Expandable up to 100TB
2	Drives & Slots	64 Virtual Drives and 8000 slots
3	Ports (free)	4 x 8G FC; 2 X 10Gbps Ethernet
4	Chassis	Rack mountable; Hot Swap Redundant Power Supply & Cooling Fans
5	Features	Support Inline de-duplication as well low bandwidth replication when replicating to DR location; Required licenses for de-duplication shall be part of the quote.
6	Supported Drive types	Able to emulate LTO-4/LTO-5/LTO-6 media along with CIFS and NFS share and block based backup using ISCSI/FC functionality
7	Backup Software Supported	Compatible with major backup software Netbackup, IBM-Tivoli, HP-Data protector, Networker, Netvault, Commvault etc.

Tender for Blade Servers, Blade Enclosure, Rack, Unified Storage Area Network(SAN), SAN Switches, Virtual Tape Library(VTL) and Related Software

Specification/configuration of Software

SI No.	Specification
1.	License for VMware vSphere with Operations Management Enterprise Plus for 1 Processor(with 5 year support)
2.	License for VMware vCenter Server 5 Standard for vSphere 5 (per instance) with 5 year support
3.	License for MS Windows- 2012- R2 Standard Edition
4.	License for MS –SQL-2012- R2 Standard Edition
5.	License for Red Hat Enterprise Linux 6.5 Version (with 5 year support)
6.	License for Backup Software License for backing up data bases on VTL(with five year support)

Tender for Blade Servers, Blade Enclosure, Rack, Unified Storage Area Network(SAN), SAN Switches, Virtual Tape Library(VTL) and Related Software

Quantity of hardware items

Sl. No.	Name of item(s)	Qty.
1.	Blade Servers	6
2.	Blade Enclosure	1
3.	Rack	1
4.	Unified SAN	1
5.	SAN Switch	2
6.	VTL	1

*The quantity of above hardware items may increase or decrease as per the requirement of the Lok Sabha Secretariat.

Tender for Blade Servers, Blade Enclosure, Rack, Unified Storage Area Network(SAN), SAN Switches, Virtual Tape Library(VTL) and Related Software

Quantity of Software required

Sl No.	Item(s)	Qty
1.	License for VMware VSphere with operations Management Enterprise for 1 Processor(with 5 year support)	24
2.	License for VMware vCenter Server 5 standard for vSphere 5(per instance)- with 5 year support	1
3.	License for MS Windows- 2012- R2 Standard edition	20
4.	License for MS-SQL -2012 R2 Standard edition	10
5.	License for Red Hat Enterprise Linux 6.5 Version (with five year support)	4
6.	License for Backup Software License for backing up data bases on VTL(with five year support)	12

*The quantity of above software items may increase or decrease as per the requirement of the Lok Sabha Secretariat.

Tender for Blade Servers, Blade Enclosure, Rack, Unified Storage Area Network(SAN), SAN Switches, Virtual Tape Library(VTL) and Related Software

PROFORMA FOR PART – A OF TECHNICAL BID

1.   Name of the Bidder:

2.   Address of the Bidder:

3.   Contact details of the Bidder:

  (a) Telephone Nos. (with STD Code)

  (b) FAX No._____

  (c) Mobile No._____

  (d) E-mail_____

  (e) Website _____

4.   Name of Proprietor/Partner/Authorized Signatory (in case of Pvt. Ltd. Firm)

5.   Copy of Registration Certificate(in case of Registered Firm/Company)

6.   (a)   Copy of Sales Tax/VAT/TIN Registration Certificate/Service Tax registration certificate.

   (b)   PAN of Income Tax Department.

7.   Copies of ITR for the last three consecutive years.

8.   The Bidder should be an ISO:9001:2000 or ISO:9001:2008 Certified Company. Attach a copy of such certificate.

 9.   The Bidder must attach a copy of the quality certification for his own or his OEM's manufacturing/assembling/system integration facility from a recognized institution anywhere located in India or abroad.

10. Copy of Balance Sheet/Profit and Loss Account duly certified by Chartered Accountant for each of last three years showing annual turnover of Rs. 10 Crore and above. **The figure of annual turnover should be highlighted**.

11. Copy of certificate of authorized distributor/dealer of the OEM for the product (**Annexure-XIV**).

12. The Bidder must attach two copies each of Purchase Orders (POs) of the value of Rs.1.5 crore or above in last three years placed by Government Departments/PSUs/ Autonomous Bodies/Government Corporations with proof of supply of Computer Hardware and Software.

13. Undertaking in the form of Affidavit duly attested by Executive Magistrate/Notary Public containing declaration of blacklisting or otherwise of the Bidder by the organizations in accordance with **Annexure-XIII.**

14. The Bidder must have infrastructure support in the form of direct service centre or franchisee or OEM's service centre in Delhi/NCR Region. The Bidder must submit details of his infrastructure with reference to location, Technical manpower and availability of inventory of spares etc. and also indicate his business model for providing warranty and after sales support in the format given in **Annexure-XVIII.**

* Documents furnished must be serially numbered and indexed**.**

Tender for Blade Servers, Blade Enclosure, Rack, Unified Storage Area Network(SAN), SAN Switches, Virtual Tape Library(VTL) and Related Software

PROFORMA (i) FOR PART-B OF TECHNICAL BID

Sl. No.	Name of item(s)	Specification /configuration warranty given in Tender document	Model quoted by the Bidder	Specification quoted by the Bidder	Deviation if any from the Tender specification
1.	Blade Servers	**Mentioned in Annexure-I of this Tender document** **5 years onsite warranty with spares. Complaint redressal provision may be seen at Para 14 of the Tender document.**			
2.	Blade Enclosures	**Mentioned in Annexure-II of this Tender document** **5 years onsite warranty with spares. Complaint redressal provision may be seen at Para 14 of the Tender document.**			
3	RACK	**Mentioned in Annexure-III of this Tender document** **5 years onsite warranty with spares. Complaint redressal provision may be seen at Para 14 of the Tender document.**			
4	Unified SAN	**Mentioned in Annexure-IV of this Tender document** **5 years onsite warranty with spares. Complaint redressal provision may be seen at Para 14 of the Tender document.**			
5.	**SAN Switches**	**Mentioned in Annexure-V of this Tender document**			
6.	VTL	**Mentioned in Annexure-VI of this Tender document** **5 years onsite warranty with spares. Complaint redressal provision may be seen at Para 14 of the Tender document.**			

Tender for Blade Servers, Blade Enclosure, Rack, Unified Storage Area Network(SAN), SAN Switches, Virtual Tape Library(VTL) and Related Software

PROFORMA(ii) FOR PART-B OF TECHNICAL BID

Sl. No.	Name of item(s)	Specification /configuration warranty given in Tender document	Model quoted by the Bidder	Specifications quoted by the Bidder	Deviation if any from the Tender specification
1	VMware VSphere with operations management Enterprise Plus for 1 Processor	**Mentioned in Annexure-VII of this Tender document** 5 year support			
2	VM Ware vCentre server 5 standard for vSphere 5(per instance)	**Mentioned in Annexure-VII of this Tender document** 5 year support			
3	MS Windows-2012-R2 standard edition	**Mentioned in Annexure-VII of this Tender document**			
4	MS –SQL-2012-R2 standard edition	**Mentioned in Annexure-VII of this Tender document**			
5	Red Hat Enterprise Linux 6.5 Version	**Mentioned in Annexure-VII of this Tender document** **With five year support**			
6	Back up Software License for backing up data bases on VTL	**Mentioned in Annexure-VII of this Tender document** **5 year support**			

*It is mandatory to quote for all the items.

Tender for Blade Servers, Blade Enclosure, Rack, Unified Storage Area Network(SAN), SAN Switches, Virtual Tape Library(VTL) and Related Software

UNDERTAKING IN THE FORM OF AFFIDAVIT DULY ATTESTED BY EXECUTIVE MAGISTRATE/NOTARY PUBLIC

I/We undertake that: -

(i) The undersigned certifies that I/We have gone through the terms and conditions of the above Tender notice including services during warranty/ **extended warranty**, complaint redressal and maintenance therefor and undertake to comply with the same. **The rates quoted by myself/ ourself are valid for six months from the last date of submission of Bid.**

(ii) I/We _____ do hereby solemnly affirm and declare that the My/Our firm /company/business entity is not blacklisted by any Government Department/Autonomous Organization etc. or prosecuted by any court of law.

(iii) I/We also confirm that in the event of my/our Tender being accepted, I/We hereby undertake **to execute a contract and to furnish Performance Security** in the form of Demand Draft/Fixed Deposit Receipt from a Commercial Bank/Bank Guarantee from a Commercial Bank in favour of "Drawing & Disbursing Officer, Lok Sabha" payable at New Delhi.

Dated:

Signature of Bidder/Authorized Signatory

(Rubber Seal)

Tender for Blade Servers, Blade Enclosure, Rack, Unified Storage Area Network(SAN), SAN Switches, Virtual Tape Library(VTL) and Related Software

To

_____

Sub: Authorization of OEM for supply, installation, warranty, services.

Sir,

        I/We_____(OEM) having my/our registered office _____ (address of the OEM) am/are an established manufacturer of _____ (name of quoted items). I/we _____ (name of OEM) solely   authorize _____(Name of the Bidders authorized partner) to supply, install and provide warranty support on our quoted product for above mentioned Tender. I/we certify that above authorized partner meet the Tender eligibility requirement of this Tender defined for OEM's authorized partners. I/we have also **entered into an agreement with our authorized partners** that they will supply, install and provide warranty support for this Tender on behalf of us.

2.   Our full support is extended in all respects for supply, onsite warranty and maintenance of our products. I/we shall also ensure to provide the service support including supply of spare parts for the same for a further period of **FIVE** years after expiry of warranty under the terms and conditions of above Tender.

3.   In case of default in execution of this Tender by our authorized partner *viz*_____(name of the authorized partners), the _____(OEM) shall own responsibilities for successful execution of contract/warranty/maintenance/service support **through ourself or another Authorized partner**.

For _____(name of) Bidder/OEM

(Authorized signatory)

Name & Designation:_____

Note: This letter of authority should be **on the letterhead of the manufacturer** and should be **signed by legal head or HR Head or CS of OEM**. This may be enclosed with the Bid. Any modification done to the above format will not be acceptable.

- For default OEM products –separate letter is to be produced by each OEM.

Tender for Blade Servers, Blade Enclosure, Rack, Unified Storage Area Network(SAN), SAN Switches, Virtual Tape Library(VTL) and Related Software

Schedule of Rates (Financial Bid) for hardware items

From

_____

_____

_____

To

      The Director (C&EA),
      Computer (HW&SW) Management Branch
      Lok Sabha Secretariat
      FB-149, Parliament Library Building,
      New Delhi-110001.

Sir,

      I/we declare that I/we have gone through and shall abide by the terms & conditions detailed in the Tender document for supply of items required. The rates are as under:-

Sl. No.	Name of item(s)	Model quoted by the Bidder	Configuration/Specification quoted by the Bidder	Qty.	Rate per unit without any taxes/ charges (in Rs.)	VAT @	Total Amt. (in Rs.)
1.	Blade Servers			6			
2.	Blade Enclosure			1			
3.	Rack			1			
4.	Unified SAN			1			
5.	SAN Switch			2			
6.	VTL			1			

Total Cost (INR) -------

In words (Rs._____)

Signature, name & address of

authorized signatory of the

firm with   seal

Tender for Blade Servers, Blade Enclosure, Rack, Unified Storage Area Network(SAN), SAN Switches, Virtual Tape Library(VTL) and Related Software

Schedule of Rates (Financial Bid) for software

From

_____

_____

_____

To

The Director (C&EA),

Computer (HW&SW) Management Branch

Lok Sabha Secretariat

FB-149, Parliament Library Building,

New Delhi-110001.

Sir,

I/we declare that I/we have gone through and shall abide by the terms & conditions detailed in the Tender document for supply of items required. The rates are as under:-

Sl No.	Item(s)	Model quoted by the Bidder	Configuration/specification quoted by the Bidder	Qty	Rate per unit (in Rs.)	VAT/ Taxes	Total amount in Rs.
1.	License for VMware VSphere with operations management enterprise for 1 Processor(with 5 year support)			24			
2	License for VMware vCenter Server 5 standard for vSphere 5(per			1			

	instance)- with 5 year support						
3	License for MS Windows 2012- R2 Standard edition Operating system			20			
4	License for MS-SQL -2012- R2 standard edition			10			
5	License for Red Hat Enterprise Linux 6.5 Version (with five year support)			4			
6	License for Backup software for backing up the data bases(5year support).			12			

Total Cost (INR) -------

In words (Rs._____)

Signature, name & address of

authorized signatory of the

firm with   seal

Tender for Blade Servers, Blade Enclosure, Rack, Unified Storage Area Network(SAN), SAN Switches, Virtual Tape Library(VTL) and Related Software

LETTER OF AUTHORIZATION FOR ATTENDING OPENING OF BID

Sub. Authorization for attending the opening of Technical Bid on ....and financial Bid on ....of the Tender for procurement of Blade Servers, Blade Enclosure, Rack, Unified Storage Area Network(SAN), SAN Switches, Virtual Tape Library(VTL) and Related Software

The under-mentioned person is hereby authorized to attend the Bid opening

for the Tender mentioned above on behalf of.............................

.........................(name of the Bidder)

Name   specimen signature

Alternative representative

Name   specimen signature

Name of the Bidder/ Authorized signatory

(Rubber seal)

Tender for Blade Servers, Blade Enclosure, Rack, Unified Storage Area Network(SAN), SAN Switches, Virtual Tape Library(VTL) and Related Software

Support (Infrastructure available with Bidder)

SI No.	Name of State/Region	Contact details such as Names, Address, Phones, e-mails website etc.	Own/Franchisee Support Centers	Manpower
1	Delhi/NCR			