

**Tender Enquiry for Supply & Installation of  
Servers, Network Storage (SAN), Rack, Tape Library And  
KVM Switch**

NIT No. : SDRSERV/CONFROOM/SUDLI/6309

NIT Issue Date : 05.08.2016

Date, time & venue of Pre-bid Meeting : 12.08.2016 at 16.00 hrs. at 7<sup>th</sup> floor, CBI Hd Qr., CGO Complex, Lodhi Road, New Delhi

Last Date and time of bid Submission ( online and in original) : 09.09.2016 at 1400 hrs.

Due Date, time & venue of opening of Technical Bids : 09.09.2016 at 1500 hrs. at 7<sup>th</sup> floor, CBI Hd Qr., CGO Complex, Lodhi Road, New Delhi



**Government of India  
Central Bureau of Investigation,  
Special Unit  
6/10, Jamnagar House, Akbar Road, New Delhi-110011  
Telefax: 011- 23382276, email: [ddosudel@cbi.gov.in](mailto:ddosudel@cbi.gov.in)**

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## **Instructions for Online Bid Submission:**

The bidders are required to submit soft copies of their bids electronically on the CPP Portal, using valid Digital Signature Certificates. The instructions given below are meant to assist the bidders in registering on the CPP Portal, prepare their bids in accordance with the requirements and submitting their bids online on the CPP Portal.

More information useful for submitting online bids on the CPP Portal may be obtained at: <https://eprocure.gov.in/eprocure/app> .

### **REGISTRATION**

- 1) Bidders are required to enroll on the e-Procurement module of the Central Public Procurement Portal (URL: <https://eprocure.gov.in/eprocure/app>) by clicking on the link "**Online bidder Enrollment**" on the CPP Portal which is free of charge.
- 2) As part of the enrolment process, the bidders will be required to choose a unique username and assign a password for their accounts.
- 3) Bidders are advised to register their valid email address and mobile numbers as part of the registration process. These would be used for any communication with the bidder.
- 4) Upon enrolment, the bidders will be required to register their valid Digital Signature Certificate (Class II or Class III Certificates with signing key usage) issued by any Certifying Authority recognized by CCA India (e.g. Sify / TCS / nCode / eMudhra etc.), with their profile.
- 5) Only one valid DSC should be registered by a bidder. Please note that the bidders are responsible to ensure that they do not lend their DSC's to others which may lead to misuse.
- 6) Bidder then logs in to the site through the secured log-in by entering their user ID / password and the password of the DSC / e-Token.

### **SEARCHING FOR TENDER DOCUMENTS**

- 1) There are various search options built in the CPP Portal, to facilitate bidders to search active tenders by several parameters. These parameters could include Tender ID, Organization Name, Location, Date, Value, etc. There is also an option of advanced search for tenders, wherein the bidders may combine a number of search parameters such as Organization Name, Form of Contract, Location, Date, Other keywords etc. to search for a tender published on the CPP Portal.
- 2) Once the bidders have selected the tenders they are interested in, they may download the required documents / tender schedules. These tenders can be moved to the respective 'My Tenders' folder. This would enable the CPP Portal to intimate the bidders through SMS /

e-mail in case there is any corrigendum issued to the tender document.

- 3) The bidder should make a note of the unique Tender ID assigned to each tender, in case they want to obtain any clarification / help from the Helpdesk.

## **PREPARATION OF BIDS**

- 1) Bidder should take into account any corrigendum published on the tender document before submitting their bids.
- 2) Please go through the tender advertisement and the tender document carefully to understand the documents required to be submitted as part of the bid. Please note the number of covers in which the bid documents have to be submitted, the number of documents - including the names and content of each of the document that need to be submitted. Any deviations from these may lead to rejection of the bid.
- 3) Bidder, in advance, should get ready the bid documents to be submitted as indicated in the tender document / schedule and generally, they can be in PDF / XLS / RAR / DWF/JPG formats. Bid documents may be scanned with 100 dpi with black and white option which helps in reducing size of the scanned document.
- 4) To avoid the time and effort required in uploading the same set of standard documents which are required to be submitted as a part of every bid, a provision of uploading such standard documents (e.g. PAN card copy, annual reports, auditor certificates etc.) has been provided to the bidders. Bidders can use "My Space" or "Other Important Documents" area available to them to upload such documents. These documents may be directly submitted from the "My Space" area while submitting a bid, and need not be uploaded again and again. This will lead to a reduction in the time required for bid submission process.

## **SUBMISSION OF BIDS**

- 1) Bidder should log into the site well in advance for bid submission so that they can upload the bid in time i.e. on or before the bid submission time. Bidder will be responsible for any delay due to other issues.
- 2) The bidder has to digitally sign and upload the required bid documents one by one as indicated in the tender document.
- 3) Bidder has to select the payment option as "offline" to pay the tender fee / EMD as applicable and enter details of the instrument.
- 4) Bidder should prepare the EMD as per the instructions specified in the tender document. The original should be posted/couriered/given in person to the concerned official, latest by the last date of bid

submission or as specified in the tender documents. The details of the DD/any other accepted instrument, physically sent, should tally with the details available in the scanned copy and the data entered during bid submission time. Otherwise the uploaded bid will be rejected.

- 5) Bidders are requested to note that they should necessarily submit their financial bids in the format provided and no other format is acceptable. If the price bid has been given as a standard BoQ format with the tender document, then the same is to be downloaded and to be filled by all the bidders. Bidders are required to download the BoQ file, open it and complete the white coloured (unprotected) cells with their respective financial quotes and other details (such as name of the bidder). No other cells should be changed. Once the details have been completed, the bidder should save it and submit it online, without changing the filename. If the BoQ file is found to be modified by the bidder, the bid will be rejected.
- 6) The server time (which is displayed on the bidders' dashboard) will be considered as the standard time for referencing the deadlines for submission of the bids by the bidders, opening of bids etc. The bidders should follow this time during bid submission.
- 7) All the documents being submitted by the bidders would be encrypted using PKI encryption techniques to ensure the secrecy of the data. The data entered cannot be viewed by unauthorized persons until the time of bid opening. The confidentiality of the bids is maintained using the secured Socket Layer 128 bit encryption technology. Data storage encryption of sensitive fields is done. Any bid document that is uploaded to the server is subjected to symmetric encryption using a system generated symmetric key. Further this key is subjected to asymmetric encryption using buyers/bid openers public keys. Overall, the uploaded tender documents become readable only after the tender opening by the authorized bid openers.
- 7) The uploaded tender documents become readable only after the tender opening by the authorized bid openers.
- 8) Upon the successful and timely submission of bids (ie after Clicking "Freeze Bid Submission" in the portal), the portal will give a successful bid submission message & a bid summary will be displayed with the bid no. and the date & time of submission of the bid with all other relevant details.
- 9) The bid summary has to be printed and kept as an acknowledgement of the submission of the bid. This acknowledgement may be used as an entry pass for any bid opening meetings.

## **ASSISTANCE TO BIDDERS**

- 1) Any queries relating to the tender document and the terms and conditions contained therein should be addressed to the Tender Inviting Authority for a tender or the relevant contact person indicated in the tender.

Any queries relating to the process of online bid submission or queries relating to CPP Portal in general may be directed to the 24x7 CPP Portal Helpdesk. The contact number for the helpdesk is **1800 3070 2232**.



**Govt. Of India  
Central Bureau of Investigation  
Special Unit: New Delhi  
Name of work: Supply & Installation of Servers, Network Storage  
(SAN), Rack, Tape Library And KVM Switch**

**(Tender No. SDRSERV/CONFROOM/SUDLI/6309)**

## **SECTION-I**

**(Instructions to Tenderer)**

## **Notice Inviting Tender**

**Tender No. SDRSERV/CONFROOM/SUDLI/6309**

**Date: 05.08.2016**

1 Special Unit, Central Bureau of Investigation, Delhi (hereinafter referred to as the "CBI"), hereby invites tender on behalf of President of India from Original Equipment Manufacturer (OEM)/distributors/dealers who have been authorised by the OEM as well as the Public Sector Undertakings / Enterprises having MoU with OEMs in two-bid format for Supply, Installation and Commissioning of Server, desktops, printer at CBI, New Delhi as per the specification given in the schedule attached to the tender document as Section III (2.0).

The tenderer needs to deposit the interest free refundable EMD for an amount of Rs. 1,69,000/- (Rupees One lakh Sixty Nine thousand only) and a non-refundable tender fee for an amount of Rs.1,500/- (Rupees One Thousand Five Hundred) in the form of demand drafts. Fixed Deposit Receipts (FDRs), Bank Guarantee. However, the EMD shall be in the above cited form whereas the tender fee is required to be submitted by demand draft only at the time of submission of tender. The Demand Drafts / Fixed Deposit Receipts (FDRs) / Bank Guarantee shall be drawn in favour of "Superintendent of Police, Special Unit, CBI," payable at Delhi. **The demand drafts / Fixed Deposit Receipts (FDRs) / Bank Guarantee for EMD & Demand Draft for tender fee must be enclosed in separate sealed envelopes. All these sealed envelopes have to be put in a bigger sealed envelope super-scribed as "Tender Document for Supply & Installation of Servers, Network Storage (SAN), Rack, Tape Library and KVM Switch" due for opening on 09.09.2016 at 1500 hours** The format of BG is to be referred at Annexure-IV. This bigger envelope is to be addressed to:

**Office Superintendent, Special Unit  
Central Bureau of Investigation,  
6/10, Jamnagar House, Akbar Road, New Delhi-110011  
Telefax: 011- 23382276, email: [ddosudel@cbi.gov.in](mailto:ddosudel@cbi.gov.in)**

2 Both the bids i.e. Technical and Financial should be written in English only and prices should be written / quoted in both figures and words. In case there is difference in rates quoted by a tenderer in figures as well as in

words, the quoted rates in words shall be considered only for evaluation and other purposes. The offer should be typed or written by ink pen or ball-pen; use of pencil will not be acceptable. The relevant supporting documents as required must be enclosed. All deletions/additions should be duly signed by the tenderer otherwise the offer of such tenderer shall be summarily rejected. In such events, no appeal or representation shall be entertained by CBI.

3 Tender(s) received beyond the last date of submission shall be summarily rejected and no claim of tenderer shall be entertained in respect of receipt of tenders at the latter date. No tender will be entertained by E-mail or FAX.

4 Pre-bid meeting is scheduled on **12.08.2016 at 1600 hrs.** in the Conference Room, Administration Division, 7<sup>th</sup> Floor, 5-B, CGO Complex, Lodhi Road, New Delhi-110003. The prospective tenderers are requested to attend the pre-bid meeting at scheduled date and time for clarifications of apprehensions in respect of the tender document. Technical specifications, Warranty and Terms and Conditions etc. shall be open for discussion for wider and competitive prices. No further issues raised by the prospective tenderer shall be entertained after pre-bid meeting. Based on the discussion during the pre-bid meeting, a corrigendum, if any, required will be issued. The corrigendum issued; if any, shall also be considered alongwith the tender document and hence prospective tenderer may consider the same while submitting Technical & Financial bids.

5 Technical bid will be opened on **09.09.2016 at 1500 hrs.** in the Conference Room, Administration Division, 7<sup>th</sup> Floor, 5-B, CGO Complex, Lodhi Road, New Delhi-110003 in the presence of the tenderer or their authorized representative who would be present at the scheduled time. It is also clarified that the envelope containing the cost of tender document shall be opened initially. The envelope containing the EMD of such tenderer who had submitted the cost of tender document shall only be opened. The

Technical Bid of such tenderer shall be opened only who had submitted prescribed cost of tender document and EMD.

6 After evaluation of technical bid, the technically successful tenderer shall be intimated to witness the opening of their financial bids, through e-mail only whereby they will be intimated date, time, place and venue for opening of financial bid. Financial bid of only those tenderer will be opened who are declared "Technically Successful or Technically Responsive Bid". In the event of the due date of receipt and opening of the tender being declared as a holiday for the CBI, then due date of receipt/opening of the tender shall be the next working day at the same time, venue.

7 The tenderer are requested to read the tender document carefully so as to ensure the compliance of all the instructions contained therein. Non-compliance of the instructions contained in the document may disqualify the tenderer from the tendering process and in such event no appeal of tenderer shall be entertained by the CBI.

8 The CBI reserves the right to cancel the tender process wholly or partly or close the tender without assigning any reason whatsoever.

(Rajinder Singh)  
Office Supdt.  
CBI, SU, New Delhi

## **INSTRUCTIONS TO TENDERER**

Tender should be submitted in four parts, Part-I (Cost of Tender documents), Part-II (Earnest Money Deposit- EMD), Part-III (Technical Bid) & Part-IV (Financial Bid). Envelopes of Part – I (Cost of Tender document) and of Part-II (EMD) respectively shall be superscribed as cost of Tender Documents or EMD as the case may be with tender number, name of work and due date of opening. Envelope of part-III (**Technical Bid**) shall have to **be superscribed as "Technical Bid :- Tender Document for Supply & Installation of Servers, Network Storage (SAN), Rack, Tape Library and KVM Switch"**. Envelop of Part-IV (Financial Bid) should be super-scribed as **"Financial Bid :- Tender for Supply & Installation of Servers, Network Storage (SAN), Rack, Tape Library and KVM Switch"**.

### **Part – I (Technical Bid):**

Technical bid should contain the information regarding firm/company, business turnover, experience and other details of the firm for judging the suitability of the tenderer.

#### **1. Pre – Qualification Criteria:**

- i. Only manufacturers or their sole Authorized Distributors/Dealers/Public Sector Undertakings/ Enterprises having MoU with OEMs are eligible to bid. Authorization letter from Original Equipment Manufacturer (OEM) in favour of Authorized Distributors/Dealers/Public Sector Undertakings/ Enterprises to bid/negotiate against this tender, must be enclosed with the technical bid. The proforma of the authorization letter is enclosed with the tender document as Annexure-I. It is also clarified that Authorized Distributors/Dealers/Public Sector Undertakings/ Enterprises who may quote different makes and models of the particular manufacturers would have to submit authorisation from all the manufacturers separately.
- ii. The tenderer shall be required to deposit the interest free refundable

EMD for an amount Rs. 1,69,000/- (Rupees One Lakh Sixty Nine Thousand only) and a non-refundable tender fee for an amount of Rs.1,500/- (Rupees One Thousand Fife Hundred only) in the form of Demand Drafts / Fixed Deposit Receipts (FDRs) / Bank Guarantee in respect of EMD whereas Tender Fee should be in the form of Demand Draft only in two separate envelopes. The demand drafts shall be drawn in favour of "Superintendent of Police, Special Unit, CBI" payable at Delhi.

- iii. The Bidder should have satisfactorily completed works during the last Five years ending previous day of last date of submission of tenders. For this purpose cost of work shall mean the gross value of the completed work including cost of material supplied by the Government / Client but excluding those supplied free of cost. This should be certified by an officer not below the rank of Executive Engineer/ Project Manager or equivalent.

(a) Three similar works each costing not less than Rs. 1,35,20,000  
(One Crore Thirty Five Lakhs Twenty Thousand only)

or

(b) Two similar works each costing not less than Rs. 2,02,80,000  
(Two Crore Two lakhs Eighty Thousand only)

or

(c) Completed one similar work costing not less than  
Rs 2,70,40,000 (Rupees Two Crore Seventy Lakh Fourty Thousand  
only)

and

Similar Work shall mean the supply, installation, Testing, commissioning of the Hardware's as defined in Section-III of the Tender Document

only. The value of executed works shall be brought to current costing level by enhancing the actual value of work at simple rate of 7 % per annum; calculated from the date of completion to last date of receipt of applications for Tenders.

- iv. The Tenderer should have had average annual financial turn over (gross) of Rs 3.38 crores for such works as defined in the Tender Document, supported by the balance sheets for three consecutive terms (which may range from six to eighteen months) duly audited by Chartered Accountant. Year in which no turnover is shown would also be considered for working out the average.

The certificate in respect of the turnover shall have to be issued by the Chartered Accountant of the company. Financial statements showing net profit, duly audited/certified by Chartered Accountant (CA) along with the copies of Income Tax Returns must be enclosed with the Technical Bid. (Refer Annexure-V)

- v. The Tenderer should have Financial Solvency of an amount of Rs. 1,35,20,000 (One Crore Thirty Five Lakhs Twenty Thousand only). The Solvency Certificate should be duly certified by the banker of the tenderer. The Solvency Certificate by the Banker should have been issued after the Date of Publication of Notice Inviting Tender. (Refer Annexure-V).
- vi. The performance of the Tenderer shall be evaluated for eligibility by the Notice Inviting Tender (NIT) approving authority or a committee constituted by him. If required, the works executed by the tenderer who otherwise qualify may be got inspected by a committee or any authority as decided by the NIT approving authority.
- vii. The tenderer should not have been debarred or blacklisted by any Central / State Government Departments of India. An affidavit to this effect on Non-Judicial stamp paper of Rs.100/- (One Hundred only) duly notarised must be enclosed with the technical bid. The proforma of the affidavit is annexed with the tender document as Annexure-II.

- viii. Signed & stamped guarantee / warranty declaration certificate are to be enclosed with the technical bid in prescribed format as attached and may be referred at Annexure-III.
- ix. Signed & stamped deviation sheet (Annexure-VII) of the technical specification of the said equipment with technical printed literature must be enclosed with the technical bid.
- x. The tenderer shall submit the copy of the tender document and addenda thereto, if any, with each page of this document signed and stamped to confirm the acceptance of terms & conditions of the tender by the tenderer. In case of ambiguity with respect to the Soft copy and the Hard Copy of the offer submitted by the Bidder, Hard copy shall take precedence over Soft Copy /CD. Hence, all the Tenderers are requested to submit their offers in Hard Copy for the purpose of evaluation.
- xi. Profit/loss – The tenderer should not have incurred any loss for more than 02 (two) years, during the last five consecutive years balance sheets, duly certified and audited by the Chartered Accountant.
- xii. Details of manpower- The tenderer/ bidder shall have to furnish the details of the manpower to be deputed by him for this work at particular locations. However, minimum strength of the manpower has been enlisted in clause-8(E) (Ref.-Para-8, Section-II Tender Evaluation).

The bid of any tenderer who has not complied with one or more of the conditions of pre-qualification criteria and / or fails to submit the required documents as mentioned / or required in tender document alongwith Technical Bid is liable to be summarily rejected.

## 2. **Earnest Money Deposit (EMD):**

The tenderer shall be required to deposit the interest free refundable EMD of Rs. 1,69,000/- (Rupees One lakh Sixty Nine thousand only) in the form of Demand Drafts / Fixed Deposit Receipts (FDRs) / Bank Guarantee (BG) and a non-refundable tender fee for an amount of Rs.1,500/-



(Rupees One Thousand Five hundred Only) by way of Demand Draft only and the same shall be in favour of "Superintendent of Police, Special Unit, CBI", Payable at Delhi with a validity of 180 (One hundred & Eighty) days.

The firms registered with National Small Scale Industries Corporation (NSIC) or Small Scale Industrial Organisation (SSI) or DGS&D for similar works are exempted from furnishing the EMD and tender fee. Self-attested photocopy of registration certificate must be enclosed with the technical bid.

**However, for other tenderers, Demand Drafts / Fixed Deposit Receipts (FDRs) / Band Guarantee (BG) for EMD & tender fee in the form of Demand Drafts / Fixed Deposit Receipts (FDRs) / Bank Guarantee (BG) has to be enclosed in 2 (two) separate envelopes. The Technical bid of those tenderers who are not exempted and do not submit the demand drafts of EMD and tender fee shall be summarily rejected and no appeal/representation in this regard shall be entertained.** The CBI shall not be liable to pay any interest on the amount of EMD whereas EMD of those tenderer who withdraw their bids after opening of envelope of EMD, shall be forfeited and no representation in this regard shall be entertained by CBI.

The EMD of the tenderer, whose tender has been accepted, shall be returned on the submission of performance security/performance guarantee after the award of work or would be adjusted towards the partial amount of performance security/performance guarantee. EMD of the successful tenderer shall be forfeited, if he refuses to execute the order or fails to furnish the required performance security and fails to sign the contract as stipulated in this tender document within the specified time as fixed by the CBI.

After the award of the contract to the successful tenderer, the EMD of the unsuccessful tenderer will be refunded.

**3. Validity:**

Quoted rates must be valid for a period of 180 (One Hundred and Eighty) days from the due date of the opening of the tender. The quoted price shall remain unchanged during the validity period. In case the tenderer withdraws his offer during the validity period, bid shall be rejected and the EMD shall also be forfeited without assigning any reason thereof. No appeal of the tenderer shall be entertained. The tenderer shall also be ready to extend the validity, if required.

**4 Clarification:**

The prospective tenderer are requested to clarify all the queries in respect of the terms and conditions of this tender document and the specifications of items as mentioned in this tender document during the pre-bid meeting, which shall be held on 12.08.2016 at 1600 hrs. in the Conference Room, Administration Division, 7<sup>th</sup> Floor, 5-B, CGO Complex, Lodhi Road, New Delhi-110003. No subsequent queries/ clarifications from any of the tenderer shall be entertained.

**5. Year of Manufacturing and Life Cycle of the items to be supplied:**

The Tenderer is required to provide the details of Year of Manufacturing and Life Cycle of the items to be supplied also as provided in Clause-4.0 of Section-III.

**6. Index of pages of Technical Bid submitted by the bidder :**

The tenderer is required to ensure that each page of the technical bid shall be serially numbered and particulars of the same shall be provided in the proforma as given at Annexure-X.

**Govt. Of India  
Central Bureau of Investigation  
Special Unit : New Delhi**

**Name of work : Supply & Installation of Servers, Network  
Storage (SAN), Rack, Tape Library and KVM Switch**

**( Tender No. SDRSERV/CONFROOM/SUDLI/6309)**

**SECTION-II**

**(Conditions of Contract)**

**1. Interpretation:-**

- a. CBI means the purchaser and Superintendent of Police, Special Unit means the Consignee at each location viz. Delhi, Kolkata, Mumbai and Chennai.
- b. Successful tenderer means the person or agency who has been issued Letter of Award for the work.
- c. Supplier or Contractor means the person or agency who shall be contracted to execute the work after issue of Letter of Award for the work.

**2. Delivery & Installation:**

- i) The tenderer shall have to complete the supply of equipments as contained in the letter of award within 6 (six) weeks from the date of issue of Letter of Award at all the location.
- ii) The tenderer has to complete Installation, testing and commissioning of the equipments as well as their handing over in faultless working conditions including system integration within 2 (two) weeks from the date of receipt of material on the respective sites.
- iii) No extension in the period specified above, shall be allowed and granted by CBI under any circumstances except the circumstances stated in Force Majeure Clause.

**3. Satisfactory Installation:** The satisfactory Installation, Testing & Commissioning and Handing over of the equipments means the faultless functioning including system integration of all the equipments for a minimum period of 15 (fifteen) days from the date of handing over the same to CBI. The entire work as stipulated in the tender document is to be completed within 6 (six) weeks from the date of issue of letter of award.

**4. Liquidated Damages:** If the tenderer fails in supply, satisfactory Installation, Testing & Commissioning of the equipments including system integration in

stipulated time then liquidated damages/ penalty at the rate of 0.5% (zero point five percent) of the Contract Value per week subject to maximum of 10% (Ten Percent) of the contract value will be deducted from the due payments of the supplier or contractor or from the performance security/performance guarantee as the case may be.

5. **Guarantee / Warranty:**

**(A)** The tender must be quoted with **03 (three) years comprehensive onsite Warranty / Guarantee** which shall be considered from the date of Completion of the defect liability period as prescribed by Original Equipment Manufacturer. The prescribed format for Guarantee/Warranty may be refer at Annexure-III.

**(B) Downtime (period during which the system is not functional):** During the warranty period downtime up to maximum of 2% (two) in a block of 365 (Three Hundred & Sixty Five) days shall be permissible. In case it is observed that downtime is above 2% in a block of 365 days then penalty 0.1% (Zero point One Percent) of the order value for each hour subject to maximum of 5% (Five Percent) of the order value may be imposed and recovered from the due payments of the contractor or Performance Security/Performance Guarantee as the case may be. Downtime will be counted from the date and time of the filing of complaint.

6. **Training of Personnel:** The successful tenderer shall be required to provide the technical training for 10 (Ten) number of personnel at each location involved in the use of the equipments at the CBI premises, immediately after completing the installation of the equipments for a minimum period of 15 (Fifteen) man-days (Minimum 4 hours per day) at the cost of tenderer.

7. **Tender Preparation Expenses:** The tenderer shall solely bear all costs associated with the preparation and submission of the bid. The CBI shall in no case be responsible or liable for such costs, regardless of the conduct or outcome of the tender process. In no case, such costs shall be reimbursed by the CBI.

**Part – II (Financial Bid):**

- i) The financial bid should contain the prices of each of the equipment separately in the prescribed format (Annexure-IX) and the financial bid shall have to be kept in separate sealed envelope. The financial bid should clearly indicate the item-wise break-up of price of each product clearly mentioning all the charges as may be payable by CBI. If the tenderer fails to quote the item wise break-up, it is presumed that the total cost is inclusive of all. The Tenderer has also to indicate the rates of various taxes and duties and other incidentals as applicable on date of Publication of Tender for the purpose of Financial Evaluation. Hence, in the interest of the Tenderer, the breakup of permissible Taxes and Duties shall be paid as per actual on submission of the Documentary Proof.
- ii) The rates should be quoted in Indian Rupees (INR) on FOR Basis at destination sites with complete description viz. make and model of the equipment and name of the manufacturer must be indicated clearly in Financial Bid as well as in proforma invoice, failing which the same shall be liable for rejection. The financial bid shall be evaluated on the basis of the total quoted cost.
- iii) Where the equipment is composed of several sub-units/ components, the rates shall have to be quoted for each sub-unit / component separately otherwise bids are liable to be rejected. CBI reserves the right to increase or decrease the number of sub-units / components as per requirements on the same rates and terms and conditions within the validity of delivery period as indicated in Letter of Award. The words “Not quoting” should be clearly written against any item of equipment for which the tenderer is not interested to quote.
- iv) The tenderer shall certify that the rates being quoted are not

higher than the quoted rates to other Govt. Deptt. or Institution or DGS&D or any Organization during previous one year from the date of opening of tender. If it is found that the tenderer had quoted lower rates in other departments/ organizations than the purchaser has to be given the benefit of lower rates else the CBI reserves the right to deduct the excess amount from the performance security/ guarantee.

8. **Tender Evaluation:** The CBI will evaluate all the proposals to determine whether these are complete in all respects as specified in the tender document. The evaluation of the proposals shall be done in 02 (two) stages as detailed below:

**(a) Stage – I (Technical Evaluation):** Technical evaluation of the proposals shall be done in two sub-stages as:

❖ Sub – Stage – A (Essential pre-qualification criteria):

- The CBI will examine all the bid(s) to determine whether the tenderer qualifies the essential pre-qualification criteria, EMD & Tender fee and eligibility criteria. All the supporting documents in respect of the above shall have to be submitted duly signed and stamped.
- Tenderer who will not qualify Sub-stage – A shall be summarily rejected and no correspondence shall be entertained.

❖ Sub – Stage – B (Technical Specification):

- The CBI will examine the detailed technical specification of the quoted Make & Model of the item(s), whether these are complying with the specification as mentioned in the tender. CBI shall not consider any deviation in respect of items defined in Section III.
- The bid which is not complying with the tender specification will be summarily rejected and no

correspondence shall be entertained.

- The purchaser shall evaluate the Technical and Financial Bids by considering the minimum benchmark of technical parameters of the equipments and accessories as laid in Part-1 to Part-7 of Clause No.2 of Section-III. No cost benefit for offering of material with higher specifications shall be allowed.

The evaluation of technical particulars shall be as under:-

S.No.	Attributes	Evaluation (Total 100 marks)					
A	Financial Strength						
	<table border="1"> <tr> <td>(1) The total turnover of the tenderer cumulatively for the last three financial years (FY 2014-2015, FY 2013-2014 &amp; FY 2012-2013) should not be less than Rs. 3.38 Crores (Rupees Three crore thirty eighty lakhs Only)</td> <td>16 marks (Maximum)</td> </tr> <tr> <td>(2) Solvency certificate (to be issued by Bank after publication of the Tender)</td> <td>4 marks (Maximum)</td> </tr> </table>	(1) The total turnover of the tenderer cumulatively for the last three financial years (FY 2014-2015, FY 2013-2014 & FY 2012-2013) should not be less than Rs. 3.38 Crores (Rupees Three crore thirty eighty lakhs Only)	16 marks (Maximum)	(2) Solvency certificate (to be issued by Bank after publication of the Tender)	4 marks (Maximum)	<table border="1"> <tr> <td>(1) Rs.3.38 Crores- 8 Marks (2) Above Rs.3.38 Crores to Rs.4.00 Crores- 10 Marks (3) Above Rs.4.00 Crores to Rs.7.00 Crores - 12 Marks (4) Above Rs.7.0 Crores to Rs.10.00 Crores- 14 Marks (5) Above Rs.10.00 Crores – 16 Marks</td> </tr> <tr> <td>(1) Rs. 1,35,20,000 - 2 Marks (2) Above Rs. 1,35,20,000 - 4 Marks</td> </tr> </table>	(1) Rs.3.38 Crores- 8 Marks (2) Above Rs.3.38 Crores to Rs.4.00 Crores- 10 Marks (3) Above Rs.4.00 Crores to Rs.7.00 Crores - 12 Marks (4) Above Rs.7.0 Crores to Rs.10.00 Crores- 14 Marks (5) Above Rs.10.00 Crores – 16 Marks
(1) The total turnover of the tenderer cumulatively for the last three financial years (FY 2014-2015, FY 2013-2014 & FY 2012-2013) should not be less than Rs. 3.38 Crores (Rupees Three crore thirty eighty lakhs Only)	16 marks (Maximum)						
(2) Solvency certificate (to be issued by Bank after publication of the Tender)	4 marks (Maximum)						
(1) Rs.3.38 Crores- 8 Marks (2) Above Rs.3.38 Crores to Rs.4.00 Crores- 10 Marks (3) Above Rs.4.00 Crores to Rs.7.00 Crores - 12 Marks (4) Above Rs.7.0 Crores to Rs.10.00 Crores- 14 Marks (5) Above Rs.10.00 Crores – 16 Marks							
(1) Rs. 1,35,20,000 - 2 Marks (2) Above Rs. 1,35,20,000 - 4 Marks							
B	<p>Experience in similar works (30 marks- Maximum)</p> <p>Experience of having successfully completed the work during the last seven years ending previous day of the last date of submission of tenders:-</p> <p>1. Three similar works completed each costing not less than amount equal to Rs. 1,35,20,000 (One crore thirty Five lakhs and twenty thousand Only).</p>	<p>Meeting Minimum Criteria- 15 Marks</p> <p>For every additional work of Rs. 1,35,20,000 (One crore thirty Five lakhs and twenty thousand Only or more-5 marks each</p>					



	2. Two similar completed works each costing not less than Rs. 2,02,80,000 (Two crore two lakhs and eighty thousand only)	For every additional work of Rs. 2,02,80,000 (Two crore two lakhs and eighty thousand only) or more- 7 marks each
	3. One similar completed work of not less than Rs. 2,70,40,000 (Two crore seventy lakhs and forty thousand Only )	For every additional work of Rs. 2,70,40,000 (Two crore seventy lakhs and forty thousand Only )
C	Performance on works (time over run (TOR)) – 20 marks (Maximum)  (1) Without levy of Liquidated Damages (LD).  (2) With levy of LD.	(1) 20 Marks  (2) 10 Marks
D	Performance of works (quality) which the tenderer claims to have executed (1) Outstanding (2) Very good (3) Good (4) Satisfactory/Average (5) Poor/ No certificate enclosed	Average Max 20 marks  20 15 10 5 0
E	Personnel and Establishment  (1) Graduate Engineer (1 No.) (2) Diploma Holder Engineer (1 No.) (3) Supervisory/Foreman (1 No.)	Max 10 marks 4 – marks for each upto max 5 marks 3 – marks for each upto max 3 marks 2 – mark for each upto max 2 marks (Note: In case tenderer/ bidder wish to depute more persons than the prescribed marks shall be on pro-rata basis, but subject to the maximum marks allotted for each category.)

The Tenderer who scores minimum **50 (fifty)** marks in the Technical Evaluation will become eligible for Financial Evaluation.

After evaluation of the technical bid(s), a list of the tenderer who qualify the technical evaluation (Sub– Stage A & B) shall be informed for witnessing the opening of the financial bid(s) along with date, time and venue **through e-mail only**. The financial bid(s) of technically qualified tenderer shall only be opened. However, the tenderer can

authorise their one representative for witnessing the opening of financial bid.

**(b) Stage – II (Financial Evaluation):** The financial bid(s) of the only technically qualified tenderer shall be opened in the presence of Tenderer or their authorized representative who wish to witness the same for financial evaluation. The date, time and venue of opening of Financial Bid shall only be communicated to Technically Qualified Tenderer through E-mail only. It is further clarified that in case Tenderer or their authorized representative is not present on the Schedule date, time and venue then the Financial Bids shall be opened by the purchaser or his authorized representatives. Purchaser shall not entertain any representation or request of the Tenderer in this regard. The L-1 (Lowest Tenderer) will be decided on the basis of gross total prices of all the items (Sl. No. 1 to 12) as stipulated in the Financial Bid Format (Annexure-IX). The L-1 Tenderer will only be awarded the contract.

#### 9. **Award of Contract:**

After the due evaluation of financial bid(s), the CBI shall award the work to the overall lowest evaluated tenderer (hereinafter referred to as the "Supplier" or "Contractor"). The Supplier/ Contractor has to enter into a contract agreement on a non-judicial stamp paper of Rs. 100/- with CBI as 1<sup>st</sup> party and Supplier/ Contractor as 2<sup>nd</sup> party. The proforma for agreement shall be supplied to the successful Tenderer who had been awarded the work alongwith the Letter of Award. **CBI reserves the right to place final purchase orders to the successful bidder by omitting certain items of the bill of material, if needed.**

#### 10. **Performance Security/ Performance Guarantee:**

- (i) The Supplier or Contractor after award of work shall have to submit the

interest free Performance Security/Performance Guarantee in prescribed format (Annexure–IV) equal to the 5% (Five Percent) of order value within 7 (Seven) days from the date of the issue of the Letter of Award and it shall be kept valid for a period of three years. The Performance Security/ Guarantee shall have to be submitted in the form of Fixed Deposit Receipt/Demand Draft/Bank Guarantee (Annexure-IV) in the name of Supdt. of Police, Special Unit, Central Bureau of Investigation, New Delhi.

- (ii) The EMD of the successful Tenderer shall either be returned or may be adjusted against the Performance Security/ Guarantee. And as such, the Supplier or Contractor whose EMD has been returned has to submit the Performance Security/Performance Guarantee for the complete amount.

#### 11. **Terms of Payment:**

- (I) 50% (Fifty Percent) of the order value shall be paid after the receipt of material in good & satisfactory condition at the CBI premises after inspection by duly constituted board of officers.
- (II) Balance 50% (Fifty Percent) of the order value shall be paid after Satisfactory Installation, Testing & Commissioning and Handing over of the equipments in **faultless working condition including System Integration** for the period of 15 (Fifteen) consecutive days from the date of handing over.
- (III) The payments shall be made through electronic clearing i.e. RTGS/ NEFT to the bank account of the Supplier or Contractor and for this purpose Supplier or Contractor are required to submit their complete bank account details while submitting the Technical Bid itself.

#### 12. **Site Preparation:**

The Supplier or Contractor shall have to inform the CBI about the preparation of site for Installation of the equipments, immediately after receipt of the letter of award. The Supplier or Contractor shall have to provide the complete details regarding space and all others infrastructural requirements needed for making of arrangements for Installation of the equipments prior to actual delivery at site of the

equipments so as to complete the work in a smooth manner.

The tenderer to whom the work has been awarded shall immediately after issue of the letter of award visit the sites of CBI for advice / Technical Assistance where the equipments are to be installed and commissioned. However, it is clarified that expense on account of site preparation is not in the scope of this work contract.

**13. Force Majeure:**

Any delay due to Force Majeure will not be attributable to the tenderer. Force Majeure events shall mean one or more of the following acts or events: Acts of God or events beyond the reasonable control of the tenderer which could not reasonably have been expected to occur, such as exceptionally adverse weather conditions, lightning, earthquake, cyclone, flood, volcanic eruption or fire or landslide; Radioactive contamination or ionizing radiation; Strikes or boycotts (other than those involving the tenderer or its employees/representatives or attributable to any act or omission of any of them) interrupting supplies and services of the Project for a period exceeding a continuous period of 7 (seven) days; An act of war (whether declared or undeclared), invasion, armed conflict or act of foreign enemy, blockade, embargo, riot, insurrection, terrorist or military action, civil commotion or politically motivated sabotage which prevents the tenderer to Supply the equipments to CBI and their Installation, Testing & Commissioning for a continuous period of 7 (seven) days. In such event, purchaser shall extend the scheduled period of delivery appropriately.

**14. Jurisdiction:**

The courts at Delhi/New Delhi alone shall have the jurisdiction to try any matter, dispute or reference between parties arising out of this tender / order. It is specifically agreed that no court outside and other than Delhi/New Delhi court shall have jurisdiction in this matter.

**15. Arbitration:**

In case of any dispute or difference arising out of or in connection with the tender conditions and Contract, the CBI and the Supplier or Contractor shall address the dispute/difference for a mutual resolution failing which the matter shall be referred for arbitration of a Sole Arbitrator to be appointed by the CBI or Court of Law. However, the Sole Arbitrator shall ask both the parties to submit the name of one arbitrator from each party. The final award of the Sole Arbitrator shall be based on the majority decision of Arbitration Board consisting of three Arbitrators. The arbitration proceedings shall be held in accordance with the provisions of the Arbitration and Conciliation Act, 1996 of India and the venue of arbitration shall be at Delhi/New Delhi. The award of the Arbitration Board shall be final and binding on both the parties. It is also clarified that the expense incurred on arbitration proceedings shall be equally borne by both the parties.

**16. Technical Literature & Manuals:** The Successful tenderer whom the work shall be awarded has to submit 2 (two) sets of the following technical literature & manuals for reference & record of CBI.

<b>Sl. No.</b>	<b>Description of Literature</b>	<b>Purpose</b>	<b>Remarks</b>
1.	Installation manual of the equipments	For installation purposes of various equipments under the scope of contract	
2.	Operation and maintenance manual	For major and minor maintenance including operation of equipments	
3.	Part list/ catalogue	For ordering spares	
4.	Any other manual/ literatures to be required for satisfactory installation, testing, commissioning & operation and maintenance of the equipments.	—	
5.	The Prescribed life cycle of	—	

	the equipments as per manufacturer's code		
6.	Any other manual/technical document which tenderer considers that the same is necessary for operation and maintenance including testing and commissioning. However, literature on system integration of the equipments has to be enclosed compulsorily.	----	

17. **Additional Quantity:** CBI reserves the right to purchase additional 30% (Thirty Percent) quantity of each item on the same rates and terms & conditions within one year from the date of issue of Letter of Award.

18. **Conditional offer:** No conditional offer shall be accepted by CBI.

19. **Back to Back Contract:** In case it is observed by CBI that Contract has been awarded by the Contractor on back to back basis, the Contract shall be summarily terminated.

**Govt. Of India  
Central Bureau of Investigation  
Special Unit : New Delhi  
Name of work : Supply & Installation of Servers, Network  
Storage (SAN), Rack, Tape Library and KVM Switch**

**( Tender No. SDRSERV/CONFROOM/SUDLI/6309)**

**SECTION-III**

**(Bill of Material and Technical Specifications)**

## 1.0 Bill of Material

S. No.	Item List	Approximate Quantity in units	Specifications of the items
1.	Application Server & Backup Server (as per Part-1 of detailed technical specifications here under)	3 (Three)	Refer Part-1 of Clause No.2.0 of Section-III
2.	SAN Storage (as per Part-2 of detailed technical specifications here under)	1 (One)	Refer Part-2 of Clause No.2.0 of Section-III
3.	External Layer 3 Switches (as per Part-3 of detailed technical specifications here under)	2 (Two)	Refer Part-3 of Clause No.2.0 of Section-III
4.	Tape & Backup with backup software (as per Part-4 of detailed technical specifications here under)	1 (One)	Refer Part-4 of Clause No.2.0 of Section-III
5.	KVM Switch (as per Part-5 of detailed technical specifications)	1 (One)	Refer Part-5 of Clause No.2.0 of Section-III
6.	Server Rack (as per Part-6 of detailed technical specifications here under)	1 (One)	Refer Part-6 of Clause No.2.0 of Section-III
7.	16 Port SAN Switch	1 (One)	Refer Part-7 of Clause No.2.0 of Section-III

## 2.0 Detailed technical Specifications:-

The detailed technical specification in respect of the material as contained in Clause No.1 of Section-III above are as under:-

### Detailed technical Specification

#### 2.1 Part -1 Technical Specifications of Application Server and Backup Server

S.No.	Item	Description with Specification
1.	CPU	2 (Two) E5-2640 v2 2.0 GHz or higher Octa core, 20MB Cache x86 Processor or Better
2.	Core/processor	8 (Eight)
3.	CPU Frequency	Intel 2.0 GHz or Higher
4.	No of CPU-Min	Machine to be supplied with 2 Processors



5.	No of CPU/Sockets- Max	2 (two) or Higher
6.	Chipset	Suitable Intel C600 from OEM or Higher
7.	DIMM Slots	24 (twenty four) or Higher
8.	Memory Configuration	The System has to be supplied with 32GB memory with 1600 MT/s RDIMMs
9.	Memory Maximum	The System has to support a maximum Memory of 768GB or Higher
10.	RAID Controller	RAID Controller with 512MB Battery Backed Cache to Support RAID Levels 1,5, 6.
11.	HDD	The system should support at least 8 Nos. of 2.5 / 3.5 inch Hot Plug Hard Disks or Higher
12.	HDD Required	The System Should be Supplied with 2 Nos. of SAS 6G 15K RPM 600GB HDD to be configured in RAID-1
13.	I/O Expansion Slots	3 (three) PCI-Express Slots or Higher at least two PCI-Express Slots should be of x16 type
14.	Network	Atleast 2 (two) Nos of 10/100/1000 Ethernet Ports and 2 (two) Nos. of 10Gbe Ports
15.	HBA	2(two)xDual Port 8Gbps FC HBA
16.	USB	4 (four)or more USB Ports to be supported
17.	Video Controller	On Board Video Controller of at least 8 MB
18.	Optical Drive	DVD Read Write Drive
19.	Form Factor	Rack 2U Rack mountable or better
20.	Warranty	Three Years Onsite Comprehensive Maintenance for both Hardware and Software (24/7) after the expiry of warranty (Optional)

21.	Remote Management Hardware	OEM management software Web-based user interface, should automatically detect supported systems as they are added to the network, remotely installs an operating system onto baremetal systems across the network. One-to-one systems management solution in two ways: from an integrated, Web browser-based Graphical User Interface (GUI) and from a command line interface (CLI) through the operating system. Server Administrator should be designed for system administrators to manage systems locally and remotely on a network. Server Administrator should allow system administrators to focus on managing their entire network by providing comprehensive one-to-one systems management. Software web based update should be scheduled for availability of new updates and configure e-mail task to notify for new updates. Active Directory authentication and authorization, OS-independent continuous video console, Should Support virtual; floppy, CD, and DVD media. Virtual media encryption, E-mail and SNMP alerting. Auto Alerts on Failure of physical components like FAN, CPU, Memory etc. Dedicated remote management port for out of band management with an option to have flash based memory for storing the last configuration details and image configuration details etc., remote management should provide server-level management that monitors, reports, and controls power consumption at the processor, memory, and system level. <u>Power Monitoring Feature as per industry standards with security in all aspects may be included.</u>
22.	OS Certification	MS Windows 2012 Standard / Enterprise or Latest, VMWARE ESX Server latest edition
23.	Preloaded software	Preloaded Microsoft Windows 2012 Data center Edition and MS SQL Std Edition to be supplied along with the servers with Media Kit, Multi Language on each of the servers with 10 User License (CAL)
24.	Warranty	Three Years Onsite Comprehensive Maintenance for both Hardware and Software (24/7) after the expiry of warranty (Optional)
25.	Redundancy	The System should be supplied with Redundant Fans and Power Supplies.
26.	System Driver & Utilities	Feature of trouble shooting of software and device drives errors should be made available.
27.	Accessories	The system has to be supplied with Rack Mount Kit & Cable Management ARM. Accessories to connect to IP-KVM Switch should be supplied
28.	Industry Certifications	The proposed hardware should be UL, FCC & ROHS compliant.

## **2.2 Part -2 Technical Specifications of SAN Storage**

<b>S.No.</b>	<b>Item</b>	<b>Description with Specification</b>
1.	Controllers	The Storage system must have at least two controllers with four ports of 8 GBps on each controller, active-active controllers with failover to other in case of anyone controller failure.
2.	Cache	The system should have 8 GB cache across controllers. On a controller power failure, the cache data must be destaged and no cache data loss should be permitted.
3.	Drives Supported	The storage shall support 6Gbps SAS and NL-SAS drives. It should also support SSD drives.
4.	storage capacity	The storage shall be supplied with 24 TB using 24 x 1TB 7.2K RPM NL-SAS Drives or better / latest.
5.	RAID	The system should support either RAID 1, RAID 5 or RAID 6.
6.	HOT Spare	There should be a provision for minimum of 1 global hot spare disk.
7.	Thin Provisioning	Storage should support Thin Provisioning and licenses for the same should be provided from day one for configured capacity
8.	Availability	System should have redundant hot swappable components like disks, power supplies, fans etc.
9.	Data protection	The storage shall also snapshots. License for the same should be provided from day one for configured capacity. Also license to restore snapshot should be provided.
10	Storage Management	Easy to use GUI based or web enabled administration interface for configuration, storage management. Storage management alerting and reporting tools also should be bundled with the storage.
11	Form factor	The proposed system must be Blade chassis based or rack mounted
12	Warranty	Three Years Onsite Comprehensive Maintenance for both Hardware and Software (24/7) after the expiry of warranty (Optional)

## **2.3 Part -3 Technical Specifications of External layer 3 switches**

<b>S.No.</b>	<b>Item</b>	<b>Description with Specification</b>
1.	Layers and Number of Ports	External layer 3 switches with 24 x 1Gbps Ports and 2x 10G Uplink ports. The switch should be stackable capable.
2.	Warranty	Three Years Onsite Comprehensive Maintenance for both Hardware and Software (24/7) after the expiry of warranty (Optional)
3.	Cables	5m Direct attach cables or LC-LC cables with SFP+ transceivers for connectivity between external 10G ports & uplinking

## **2.4 Part -4 Technical Specifications of Tape & Backup with Backup software**

<b>S.No.</b>	<b>Item</b>	<b>Description with Specification</b>
1.	Tape Library	i) Tape Library with One LTO6 Drive Scalable to 2 Drives ii) Tape library should have at least 24 Media slots iii) Tape library should be Supplied with One Cleaning Cartridge & 10 LTO6 Media Cartridges iv) System should support SNMP. v) Should support data integrity check vi) Tape Library should be Rack mountable. vii) Backup software to take back up from storage directly for a minimum of 5No. of Hosts & One tape Drive with SAN Based Backup license viii) Should be compatible with all industry standard backup applications. ix) Software provided with the Tape Library should be capable of taking incremental, decremental and complete backup and necessary licence for the software should be provided.
		x) All kinds of reading mode of Bar Code should also be provided with Bar Code levels.
2.	Warranty	Three Years Onsite Comprehensive Maintenance for both Hardware and Software (24/7) after the expiry of warranty (Optional)

## **2.5 Part -5 Technical Specifications of KVM Switch**

<b>S.No.</b>	<b>Item</b>	<b>Description with Specification</b>
1.	Computer Connections	Direct- 8 Max- 64 (via Cascade)
2.	Port Selection	OSD(On Screen Display), Hotkeys, Front panel Push Buttons
3.	Connectors/ Power	Keyboard, Video, Mouse, 1xRJ-11 (female), 1XDC Jack
4.	Switches	8xPushbutton
5.	LEDs	Separate for Online, Selected and Power
6.	Keyboard/ Mouse	PS/2, USB
7.	Video	Resolution of 2048x1536 or better
8.	Power consumption	DC less than 6 Volts; less than 6 watts
9.	Weight	Less than 2 Kgs
10	Dimensions	Rack mount ( 19"system rack, 1 U)
11	Warranty	Three Years Onsite Comprehensive Maintenance for both Hardware and Software (24/7) after the expiry of warranty (Optional)

## **2.6 Part -6 Technical Specifications of Server Rack**

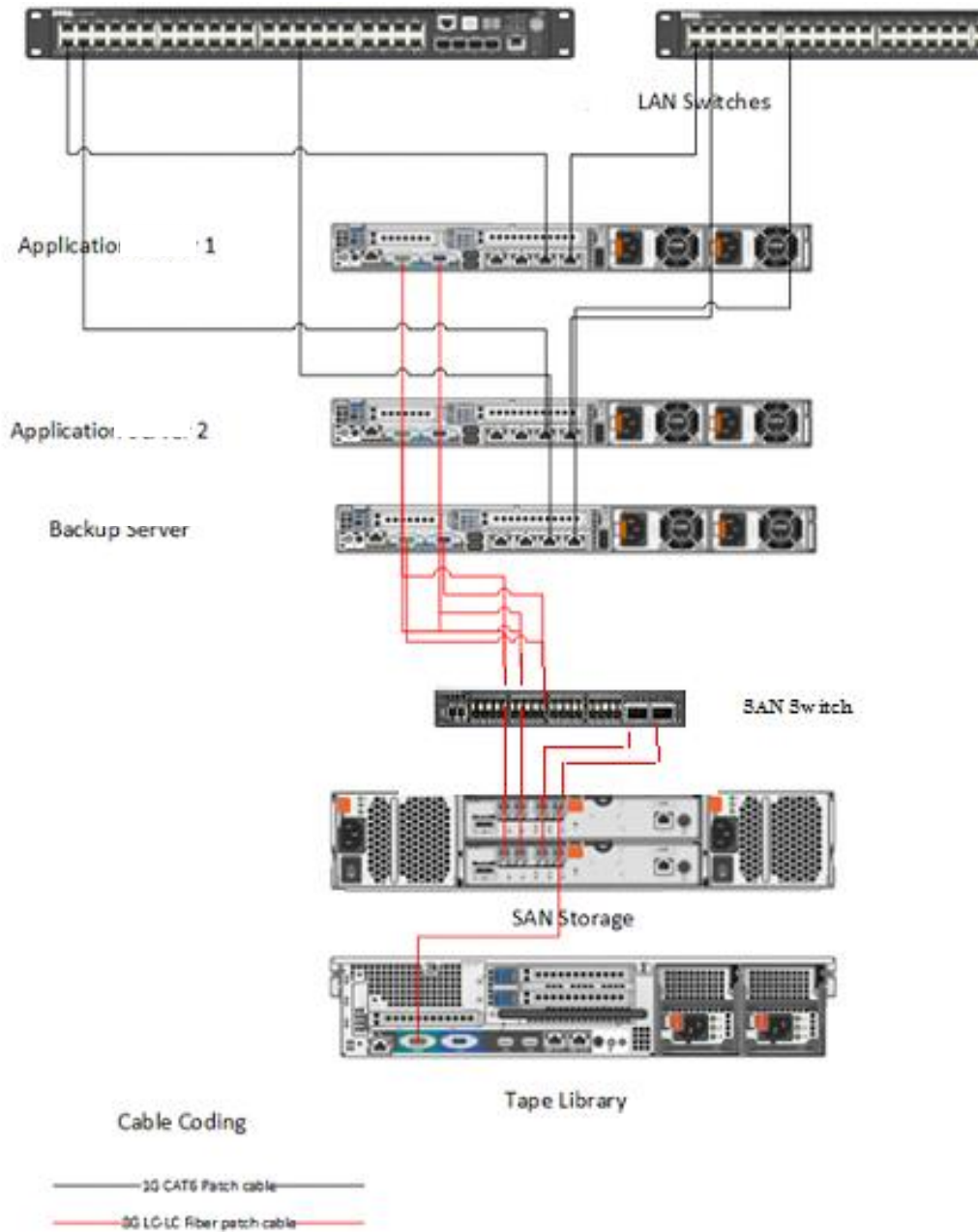
<b>Sl. No.</b>	<b>Item</b>	<b>Description</b>
1	Server Racks	<p>42 U Industry Standard Rack with following :</p> <p>a) 2 nos. of full height 32 Amp PDU housing min. 12 power distribution sockets of C13 type.</p> <p>b) Should be configured and supplied with all required accessories like rack mounting hardware for mounting blade chassis, servers, storage etc. and cable managers/ arms/ fittings for managing all the data &amp; power cables in the rear side of the Rack. All the cables should be arranged/ dressed/ secured so that no loose cables must be dangling loosely and all cables should be properly levelled on both sides.</p>
2	Warranty	Three Years Onsite Comprehensive Maintenance for both Hardware and Software (24/7) after the expiry of warranty (Optional)

## **2.7 Part -7 Technical Specifications of 16 Port SAN Switch**

<b>Sl. No.</b>	<b>Item</b>	<b>Item Description</b>
1	16 Port SAN Switch	<p>i. Non-blocking architecture with minimum of 16 port and scalable up to 24 ports in a single domain concurrently active at 8Gbps full duplex with oversubscription.</p> <p>ii. The switch should support auto-sensing 1, 2, 4 Gbps capabilities.</p> <p>iii. The switch shall support different port types such as FL Port, F Port, M Port (Mirror Port), and E Port; self-discovery based on switch type ( U Port); optional port type control in Access Gateway mode; F Port and NPIV-enabled N Port.</p> <p>iv. The switch should be rack mountable.</p> <p>v. Non disruptive Microcode / firmware Upgrades and hot code activation.</p> <p>vi. The switch shall provide Aggregate bandwidth of 192 Gbps : 24 ports x 8Gbps (data rate) end to end.</p>

	<p>vii. Shall have optional support for Adaptive Networking services such as Quality of Service (QoS) to help optimize application performance in consolidated, virtual environments. It should be possible to define high, medium and low priority QoS zones to expedite high priority traffic.</p>
	<p>viii. SAN switch shall have support to restrict data flow from less critical hosts at present bandwidths.</p>
	<p>ix. The Switch should be configured with the Zoning and shall also support ISL trunking when more than 2 switches are configured in a single fabric.</p>
	<p>x. The Switch shall be able to support ISL trunk up to 64 Gbps between a pair of switches for optimal bandwidth utilization and load balancing.</p>
	<p>xi. Exchange-based load balancing across ISLs should be supported with Dynamic Path Selection included in Switch OS.</p>
	<p>xii. SAN Switch shall have support to isolate the high bandwidth data flows traffic to specific ISLs.</p>
	<p>xiii. Switch shall support to measure the top bandwidth-consuming traffic in real time for a specific physical or virtual device, or end to end across the fabric.</p>
	<p>xiv. Support for web based management and should also support CLI.</p>
	<p>xv. The switch shall support advance zoning and ACL to simplify administration and significantly increase control over data access.</p>
	<p>xvi. Offered Switch shall have support to configure the switches with alerts based on threshold values for temperature, fan status, Power supply status, port status.</p>
	<p>xvii. Switch shall support POST and online/offline diagnostics, including RAS trace logging, environmental monitoring, non-disruptive daemon restart, FC ping and Path Info (FC traceroute), Port mirroring (SPAN port).</p>
	<p>xviii. The switch should have USB port for firmware download, support, save, and configuration upload / download.</p>
	<p>xix. Three Years Onsite Comprehensive Maintenance for both Hardware and Software (24/7) after the expiry of warranty (Optional)</p>

**3.0 System Integration:** The layout drawing of the system integration is as detailed below for reference of the tenderer/bidder and it shall be the responsibility of the tenderer/bidder to provide all the equipments and related accessories at his own cost for the required system integration.



#### 4.0 Year of Manufacturing and Life Cycle of the items to be supplied:

S. No.	Item List	Year of Manufacturing	Life Cycle of the item
1.	Application Server & Backup Server (as per Part-1 of detailed technical specifications)		
2.	SAN Storage (as per Part-2 of detailed technical specifications)		
3.	External Layer 3 Switches (as per Part-3 of detailed technical specifications)		
4.	Tape & Backup with backup software (as per Part-4 of detailed technical specifications)		
5.	KVM Switch (as per Part-5 of detailed technical specifications)		
6.	Server Rack (as per Part-6 of detailed technical specifications)		
7.	16 Port SAN Switch		



**Govt. Of India  
Central Bureau of Investigation  
Special Unit : New Delhi**

**Name of work : Supply and Installation of Rack Mount Server,  
Desktop PCs, Rack, Laser MFD, Ethernet Switch & Internet  
Router/Firewall/IPS**

**( Tender No SDRSERV/CONFROOM/SUDLI/6309)**

**SECTION-IV**

**(Annexures I to X)**

**FORMAT FOR MANUFACTURER'S AUTHORISATION LETTER TO  
DISTRIBUTOR / DEALER (on letter head)**

*Note : In case, the tenderer wish to quote for different makes of item, he shall have to submit the authorisation to quote from all the manufacturers whose materials tenderer wish to quote.*

Ref. No.

Date:

**To,**

**The Superintendent of Police, Special Unit  
Central Bureau of Investigation,  
6/10, Jamnagar House, Akbar Road,  
New Delhi-110011**

Sub. : Authorization Letter.

Dear Sir,

We, \_\_\_\_\_, who are established and reputed manufacturers of \_\_\_\_\_, having factory at \_\_\_\_\_, hereby authorize M/s.\_\_(name & address of distributor /dealer)\_\_\_ to bid, negotiate and conclude the order with you for the above goods manufactured by us.

We shall remain responsible for the tender / Agreement negotiated by M/s \_\_\_\_\_, jointly and severely.

In case duties of the dealer / distributor are changed or dealer / distributor will be changed, it shall be obligatory on us to automatically transfer all the duties and obligations to the new Dealer/Distributor failing which we will ipso-facto become liable for all acts of commission or omission on the part of new Dealer/ distributor. **We also certify that we shall not use any illegal practice to obtain the order from CBI.**

Yours faithfully,

Place:

Date:

Name & Address of  
Manufacturer/Partners/Authorised Distributor  
Dealer, as the case may be

**DECLARATION REGARDING BLACKLISTING/DEBARRING FOR TAKING PART IN  
TENDER**

***(To be executed & attested by Public Notary/Executive Magistrate of Rs.100/-  
(One Hundred only) on non judicial Stamp paper (which is non-reimbursable  
by CBI) by the tenderer)***

I/ We Manufacturer/ Partner(s)/ Authorized Distributor/ Dealer of  
M/s. \_\_\_\_\_ hereby declare that the firm/company  
namely M/s. \_\_\_\_\_ has not been blacklisted or  
debarred in the past by any Union / State Government or organization from  
taking part in Government tenders in India.

Or

I/ We Manufacturer / Partner(s)/ Authorized Distributor / Dealer of  
M/s. \_\_\_\_\_ hereby declare that the Firm/company  
namely M/s \_\_\_\_\_ was blacklisted or debarred by Union/ State  
Government or any Organization from taking part in Government tenders for  
a period of \_\_\_\_\_ years w.e.f. \_\_\_\_\_ to \_\_\_\_\_. The period  
is over on \_\_\_\_\_ and now the firm/company is entitled to take part  
in Government tenders.

In case the above information found false, I/we are fully aware that the  
tender / contract will be rejected /cancelled by CBI, and EMD/ Performance  
Guarantee shall be forfeited.

In addition to the above CBI will not be responsible to pay the bill for  
any completed / partially completed work.

DEPONENT

Name & Address of  
Manufacturer/Partners/Authorised Distributor  
Dealer, as the case may be

Place:

Date:

Attested:

(Public Notary / Executive Magistrate)

**CERTIFICATE OF GUARANTEE / WARRANTY**

**(On Non-Judicial Stamp Paper of Rs. 100/- duly Notarized at the cost of the Tenderer)**

I / We certify that the guarantee/ warranty shall be given for a period of three years starting from the date of Completion of Defect liability period as defined by Original Equipment Manufacturer (OEM) after handing over of the equipment and the work conducted under the contract. During the guarantee/ warranty period, I/ we shall provide the “after sale service” and the replacement of defective/ or any part(s) of the equipment or rectification of defects of work of the equipment will be free of cost. The replacement of the parts shall be arranged by us, at our own cost and responsibility. We undertake that the period of guarantee/ warranty shall begin only from the date of satisfactory and faultless functioning of the equipment including system integration from the day of handing over of equipments to CBI. The benefit of change in dates of the guarantee/ warranty period shall be in the interest of the use by your organization.

During the warranty period, we shall provide at-least 3 (three) preventive maintenance visits per year.

**Uptime Guarantee:** During the guarantee/warranty period, we will be responsible to maintain the equipment alongwith the accessories in satisfactory faultless working conditions including system integration of 98% (uptime) in a block of 365 (Three Hundred Sixty Five) days.

- All complaints will be attended by us within 4 (Four) hours of receipt of the complaint in our office. Actual and verifiable resolution time will not be counted for the purpose of levy of penalty.
- In case there is delay of more than 4 (four) hours in attending to a complaint from our side then you can count the number of hours in excess of the permissible response time in the downtime for calculating the penalty amount. The above said response time of 4 (four) hours for attending to a complaint by us will not be counted in the downtime.

**Liquidated Damages/ Penalty:** We shall pay the liquidated damages/ penalty equivalent to 0.5% ( Point Five Percent) per week of the order value of the equipment for every week or part thereof delay in rectifying the defect subject to a maximum of 10% (ten) from the amount of our performance guarantee or due payments of us to be paid by CBI.

No deduction or advantage of any kind on account of Sundays, half days or Public / Govt. holidays observed by the CBI shall be allowed from the total down time permissible as defined above. The right to accept the reason(s) for delay and consider reduction or waive off the penalty for the same shall be at the sole discretion of CBI.

We shall try to repair the equipment at CBI premises. However, in case it is not possible to repair the equipment at CBI premises, we will take out the equipment to our site on our own expenses. We shall take the entire responsibility for the safe custody and transportation of the equipment taken out for repairs till the equipment is rehabilitated to the CBI after repair within a period of 4 (four) working days. If any loss of equipment occurred during our custody, we will compensate to CBI for such losses and reimburse the cost of equipment as mentioned in the letter of award.

We guarantee that in case we fail to carry out the maintenance work within the stipulated period, CBI reserves the right to get the maintenance work carried out at our risk and cost. However, CBI shall inform us to bear the responsibility through email but non-reply of email by us shall not be the constraint for execution of such works at our risk and cost. All the expenses including excess payment for repairs/maintenance shall be adjusted against the Performance Bank Guarantee which we have deposited with CBI. In case the expenses exceed the amount of Performance Bank Guarantee, the same shall be recoverable from us with interest in accordance with the terms and conditions of the tender document and Indian Laws.

We undertake to perform calibration of the equipments after every major repair/breakdown/taking the equipment out for repair from CBI premises. After each calibration we shall provide the Calibration Report for reference of CBI.

We guarantee to the effect that before going out of production of spare parts, we will give adequate advance notice to you so that you may undertake to procure the balance for the lifetime requirements of spare parts.

**Authorized signatory of the company with seal**

Place :

Date:

**BANK GUARANTEE FORM FOR PERFORMANCE SECURITY/ GUARANTEE**

**(To be on a Rs. 100/- (one Hundred Only) non-Judicial Stamp Paper Non-reimbursable by CBI.)**

To,

**The Superintendent of Police, Special Unit  
Central Bureau of Investigation,  
6/10, Jamnagar House, Akbar Road,  
New Delhi-110011**

WHEREAS.....  
. (Name and address of the Supplier) (hereinafter called "the Supplier") has undertaken, in pursuance of contract no..... dated ..... (hereinafter called "the contract") to supply .....

AND WHEREAS it has been stipulated by you in the said contract that the Supplier or Contractor shall furnish you with a bank guarantee by a scheduled nationalized bank recognised by you for the sum specified therein as performance/ performance guarantee for compliance with its obligations in accordance with and due performance of the contract;

AND WHEREAS we have agreed to give the Supplier or contractor such a bank guarantee;

NOW THEREFORE we hereby affirm that we are guarantors and responsible to you, on behalf of the Supplier or Contractor, up to a total of .....(amount of the guarantee in words and figures), and we hereby irrevocably and absolutely undertake to pay you immediately, upon your first written demand declaring the Supplier or Contractor to be in default under the contract and without cavil or argument, any sum or sums within the limits of(amount of guarantee) as aforesaid, without your needing to prove or to show grounds or reasons for your demand or the sum specified therein.

We hereby waive the necessity of your demanding the said debt from the Supplier before presenting us with the demand.

We further agree that no change or addition to or other modification of the terms of the contract to be performed there under or of any of the contract documents which may be made between you and the Supplier

shall in any way release us from any liability under this guarantee and we hereby waive notice of any such change, addition or modification.

The Bank guarantee shall be interpreted in accordance with the laws of India. The Guarantor Bank represents that this Bank Guarantee has been established in such form and with such content that is fully enforceable in accordance with its terms as against the Guarantor Bank in the manner provided herein.

The Bank Guarantee shall not be affected in any manner by reason of merger, amalgamation, restructuring or any other change in the constitution of the Guarantor Bank or the Supplier or Contractor. The Bank further undertakes not to revoke this Guarantee during its currency except with the previous express consent of the purchaser in writing.

The Bank declares that it has power to issue this Guarantee and discharge the obligations contemplated herein, the undersigned is duly authorized and has full power to execute this Guarantee for an on behalf of the Bank.

This guarantee shall be valid up to and including the ..... day of ....., 20.....

.....

**(Signature with date of the authorised officer of the Bank)**

.....

**Name and designation of the officer**

.....

**Seal, name & address of the Bank and address of the Branch**

**Place:**

**Date:**

**Format for Technical Bid**

1	Cost of tender document	Demand Draft No. _____ dated _____
2	Earnest Money Deposit (EMD)	Demand Draft No. ____ dated _____
3	COMPANY/FIRM PROFILE Name of the Company/Firm and Complete registered address	
3(a)	Legal Status (Individual, Sole Proprietary firm, Hindu Undivided Family (HUF) business, Partnership firm, Consortium, Joint Venture, Limited Company or Corporation)	
3(b)	Status of the signatory of the tenderer in case of Hindu Undivided Family(HUF) business/Partnership/	
3(c)	Has your company/firm ever changed its name any time? If so, when, the earlier name and the reason thereof?	
3(d)	Were you or your company ever required to suspend supply and installation of the prescribed work in tender document for a period of more than 06 months continuously. If so, give the name of the contract and reasons thereof.	
3(e)	Have you or your constituent ever left the contract awarded to you incomplete? If so, give name of the contract and reasons for not completing the contract.	
4	Name, Designation and Tel. No(s) of the Contact Person. -Contact/ Mobile phone No(s): -Fax No(s): -E-mail address:	
5	(a)Year of commencement of Business (b) Nature of Business (Copies of Audited Balance Sheet for the last three consecutive Financial years ending 31.03.2015, to be enclosed)	



6	<p>Statutory Details (Photocopy duly signed to be attached)</p> <ul style="list-style-type: none"> <li>-Registration No. of the Firm</li> <li>- PAN</li> <li>- <b>EPF</b> – Registration No.</li> <li>- ESI Registration No.</li> <li>- Service Tax, VAT/CST Registration No.</li> <li>- Name &amp; Address of Bankers along with Current Account Details</li> </ul>	
7	<p>Income Tax Assessment Completion Certificates for the financial years 2012-13, 2013-14 and 2014-15. (In the event of assessment of the years indicated not completed, the certificate of the latest assessment completed may be enclosed and the reason for non-completion of the assessment for the required years may be indicated).</p>	
8	<p>List of present and past clients (Please use separate sheet for each) as per the following format. The information provided will facilitate evaluation of your Technical Bid:</p> <ul style="list-style-type: none"> <li>(i) Name of the organization with complete postal address.</li> <li>(ii) Name &amp; designation of the Contact Person with Tel/ Mobile No(s) and E-mail ID.</li> <li>(iii) Date of Contract &amp; contract period as awarded.</li> <li>(iv) No. of persons deployed by your firm to site.</li> <li>(v) Whether any extension to the scheduled completion period granted and if so indicate the period.</li> <li>(vi) Whether any liquidated damages/ penalty imposed.</li> </ul>	
9	<p><b>Details of Three Similar Works:</b></p> <ul style="list-style-type: none"> <li>(i) Name of Organization</li> <li>(ii) Name of Work</li> <li>(iii) Period of Work</li> <li>(iv) Amount (In INR)</li> </ul>	
10	<p><b>Volume of business done during the last three consecutive years ending 31.03.2016</b> (please submit documentary evidence such as balance etc.)</p>	
11	<p>(a) Details of annual financial turnover (gross) (Duly certified by Chartered Accountant):  F/Y 2012-13  F/Y 2013-14:  F/Y 2014-15:  (b) Financial Solvency (Duly certified by the banker)</p>	

12	Whether Performance Certificates as prescribed in Annexure-VI of Tender Document from previous organizations enclosed.	
13	Whether the tenderer is willing for inspection of present/ past work being executed or earlier executed by CBI.	
14	Details of manpower to be deputed for the work.	
15	Proof of depositing statutory taxes for the last one financial year i.e. 2014-15: 1. Sales Tax 2. Value Added Tax 3. Service Tax 4. Work Contract Tax 5. EPF Contribution 6. ESIC Contribution	

**Place:**  
**Date:**

Signature of Tenderer

**NOTE:-**

- a. The documents viz. Sales Tax, Value Added Tax, Service Tax, Work Contract Tax, EPF Contribution, ESIC Contribution, Balance Sheets, Income Tax Assessment, Completion Certificates, Volume of Business, annual Financial Turnover, Financial Solvency are not mandatory in case of Govt./ R&D departments of Central/ State Governments.
- b. In case of sole proprietary concern, the name of the sole proprietor, father's/ husband's name, age, residential address and office and residential phone numbers are to be indicated.
- c. In case of partnership concern, the Photostat copy of the Registered Partnership Deed is to be enclosed. The partnership deed should state specifically that a particular partner or partners are authorized to deal with any matter of company. Certified Photostat copy of the Income Tax assessment of the partnership firm as well as individual partners (for last 3 years) is to be submitted.
- d. In the case of Hindu Undivided Family Firm, an Income Tax registration certificate is to be enclosed in addition to the above as per (b).
- e. In case of Limited Company, printed copies of Memorandum and Articles of Association as well as last 03 (three) Annual

Report of Audited Accounts are to be annexed. Authorization by the Board of Directors in favour of the signatory of the tender as well as other documents on behalf of the company may also be enclosed. The authorization so issued should be on a non-Judicial Stamp Paper duly notarized.

- f. A declaration is to be recorded by the authorized signatories of the tender that no change in the status of sole proprietorship Hindu Undivided Family/Partnership/ Company (as the case may be) will take place from the date of submission of tender and during currency of the Contract Agreement, if entered into with them. In case any change is necessary in the overall interest of the business's purpose for which the premises is allotted, it will be with the prior written approval of the CBI, failing which the Contract Agreement will be terminated at the sole discretion of the CBI. It is also to be certified that there is no criminal record of the tenderer/applicant/proprietor/Managers/partners/Directors) or their close relatives affecting the business profession under this Contract Agreement.
- g. Bid submitted by a Consortium should comply with the following additional requirements:-
  - i. Number of members in a consortium should be limited to 2 (two) only;
  - ii. The bid should contain information of each member of the consortium;
  - iii. Any or one (01) of the consortium members should purchase the tender document from CBI and /or intimate CBI, in case the tender document are downloaded from the web sites;
  - iv. An individual Bidder cannot at the same time be a member of a Consortium and cannot be a member of any other consortium applying for the bid;

The members of the consortium shall nominate any one member as their lead technical member and any one member as their financial member; alternatively, the Members of the consortium can nominate one member as the lead member for both the bids also;

The nomination (s) shall be supported by a Power of Attorney as per standard practice of Govt. of India and signed by all members as well as by the lead technical and financial members;

- v. The Memorandum of Understanding (MoU) shall, inter alia:

- a) Expressly convey the intent to form a Joint Venture Company, with their respective share holding commitment(s) in accordance with the prescribed clauses set forth in this Bid document, which would be entered into through the Contract Agreement and subsequently carry out all the responsibilities in accordance with the terms of the Contract Agreement;
- b) Clearly outline the roles and responsibilities of each member at every stage.
- c) Commit the minimum equity stake as required under the clause; and
- d) Include a statement to the effect that all the members of the Consortium shall be liable jointly and severally for the execution of the transaction process in accordance with the terms of the Contract Agreement.
- e) The project specific MoU between the Public Sector Undertaking/Enterprise is also acceptable. But the obligations of both the parties are to be clearly indicated in the MoU.

A copy of the MOU on non-judicial stamp paper of Rs. 100/- (One hundred) duly notarized shall have to be submitted along with the Bid.

The MoU entered into amongst the members of the Consortium should be specific to the tender and should also contain the above requirements, failing which the Bid shall be considered non-responsive.

Any entity which has been debarred by CBI or any of the other entity of Govt. of India from participating in the transaction process and the debar stands as on the Bid Due Date, would not be eligible to submit the Bid, either individually or as a member of a Consortium.

**h. The CBI reserves the right to independently verify the performance of the installed hardware/ software and after sales services (onsite/ offsite) from their clients.**

**i. Change in Consortium composition**

Any change in the composition of a Consortium will not be permitted after the last date of submission of the Tender Document.

**FORMAT FOR PERFORMANCE CERTIFICATION**

(Furnish this information for each individual work from the employer for whom the work was executed)

<b>Sl. No.</b>	<b>Description</b>	<b>Remarks</b>
1.	Name of the contract and location:	
2.	Agreement no.: a. Scope of Contract b. Contract Cost c. Date of start d. Scheduled Completion Period e. Actual Completion Period f. Amount of compensation/ liquidated damages/ penalty levied, if any by the previous employer	
3.	Performance Report	Outstanding/ Very Good/ Good/ Satisfactory/ Poor
4.	Compliance of Statutory Requirements in respect of registration: 1. Sales Tax 2. Value Added Tax 3. Service Tax 4. Work Contract Tax 5. EPF Contribution 6. ESIC Contribution	Yes/No Yes/No Yes/No Yes/No Yes/No Yes/No

Place:

Date:

(Signature of the Responsible Authority)

(Seal of the Organization)

( Signature of responsible authority should not be below the rank of Gazetted Officer of Govt. Organization or General Manager/ Deputy General Manager of PSU or equivalent in case of Private Sector Organization)

**Compliance and Deviation Sheet****Part -1****2.1 Part -1 Technical Specifications of Application Server and Backup Server**

<b>S.No.</b>	<b>Item</b>	<b>Description with Specification</b>
29.	CPU	2 (Two) E5-2640 v2 2.0 GHz or higher Octa core, 20MB Cache x86 Processor or Better
30.	Core/processor	8 (Eight)
31.	CPU Frequency	Intel 2.0 GHz or Higher
32.	No of CPU-Min	Machine to be supplied with 2 Processors
33.	No of CPU/Sockets-Max	2 (two) or Higher
34.	Chipset	Suitable Intel C600 from OEM or Higher
35.	DIMM Slots	24 (twenty four) or Higher
36.	Memory Configuration	The System has to be supplied with 32GB memory with 1600 MT/s RDIMMs
37.	Memory Maximum	The System has to support a maximum Memory of 768GB or Higher
38.	RAID Controller	RAID Controller with 512MB Battery Backed Cache to Support RAID Levels 1,5, 6.
39.	HDD	The system should support at least 8 Nos. of 2.5 / 3.5 inch Hot Plug Hard Disks or Higher
40.	HDD Required	The System Should be Supplied with 2 Nos. of SAS 6G 15K RPM 600GB HDD to be configured in RAID-1
41.	I/O Expansion Slots	3 (three) PCI-Express Slots or Higher at least two PCI-Express Slots should be of x16 type
42.	Network	Atleast 2 (two) Nos of 10/100/1000 Ethernet Ports and 2 (two) Nos. of 10Gbe Ports
43.	HBA	2(two)xDual Port 8Gbps FC HBA
44.	USB	4 (four)or more USB Ports to be supported
45.	Video Controller	On Board Video Controller of at least 8 MB
46.	Optical Drive	DVD Read Write Drive
47.	Form Factor	Rack 2U Rack mountable or better
48.	Warranty	Three Years Onsite Comprehensive Maintenance for both Hardware and Software (24/7) after the expiry of warranty (Optional)

49.	Remote Management Hardware	OEM management software Web-based user interface, should automatically detect supported systems as they are added to the network, remotely installs an operating system onto baremetal systems across the network. One-to-one systems management solution in two ways: from an integrated, Web browser-based Graphical User Interface (GUI) and from a command line interface (CLI) through the operating system. Server Administrator should be designed for system administrators to manage systems locally and remotely on a network. Server Administrator should allow system administrators to focus on managing their entire network by providing comprehensive one-to-one systems management. Software web based update should be scheduled for availability of new updates and configure e-mail task to notify for new updates. Active Directory authentication and authorization, OS-independent continuous video console, Should Support virtual; floppy, CD, and DVD media. Virtual media encryption, E-mail and SNMP alerting. Auto Alerts on Failure of physical components like FAN, CPU, Memory etc. Dedicated remote management port for out of band management with an option to have flash based memory for storing the last configuration details and image configuration details etc., remote management should provide server-level management that monitors, reports, and controls power consumption at the processor, memory, and system level. <u>Power Monitoring Feature as per industry standards with security in all aspects may be included.</u>
50.	OS Certification	MS Windows 2012 Standard / Enterprise or Latest, VMWARE ESX Server latest edition
51.	Preloaded software	Preloaded Microsoft Windows 2012 Data center Edition and MS SQL Std Edition to be supplied along with the servers with Media Kit, Multi Language on each of the servers with 10 User License (CAL)
52.	Warranty	Three Years Onsite Comprehensive Maintenance for both Hardware and Software (24/7) after the expiry of warranty (Optional)
53.	Redundancy	The System should be supplied with Redundant Fans and Power Supplies.
54.	System Driver & Utilities	Feature of trouble shooting of software and device drives errors should be made available.
55.	Accessories	The system has to be supplied with Rack Mount Kit & Cable Management ARM. Accessories to connect to IP-KVM Switch should be supplied
56.	Industry Certifications	The proposed hardware should be UL, FCC & ROHS compliant.

## **2.2 Part -2 Technical Specifications of SAN Storage**

<b>S.No.</b>	<b>Item</b>	<b>Description with Specification</b>
13	Controllers	The Storage system must have at least two controllers with four ports of 8 GBps on each controller, active-active controllers with failover to other in case of anyone controller failure.
14	Cache	The system should have 8 GB cache across controllers. On a controller power failure, the cache data must be destaged and no cache data loss should be permitted.
15	Drives Supported	The storage shall support 6Gbps SAS and NL-SAS drives. It should also support SSD drives.
16	storage capacity	The storage shall be supplied with 24 TB using 24 x 1TB 7.2K RPM NL-SAS Drives or better / latest.
17	RAID	The system should support either RAID 1, RAID 5 or RAID 6.
18	HOT Spare	There should be a provision for minimum of 1 global hot spare disk.
19	Thin Provisioning	Storage should support Thin Provisioning and licenses for the same should be provided from day one for configured capacity
20	Availability	System should have redundant hot swappable components like disks, power supplies, fans etc.
21	Data protection	The storage shall also snapshots. License for the same should be provided from day one for configured capacity. Also license to restore snapshot should be provided.
22	Storage Management	Easy to use GUI based or web enabled administration interface for configuration, storage management. Storage management alerting and reporting tools also should be bundled with the storage.
23	Form factor	The proposed system must be Blade chassis based or rack mounted
24	Warranty	Three Years Onsite Comprehensive Maintenance for both Hardware and Software (24/7) after the expiry of warranty (Optional)

## **2.3 Part -3 Technical Specifications of External layer 3 switches**

<b>S.No.</b>	<b>Item</b>	<b>Description with Specification</b>
4.	Layers and Number of Ports	External layer 3 switches with 24 x 1Gbps Ports and 2x 10G Uplink ports. The switch should be stackable capable.
5.	Warranty	Three Years Onsite Comprehensive Maintenance for both Hardware and Software (24/7) after the expiry of warranty (Optional)
6.	Cables	5m Direct attach cables or LC-LC cables with SFP+ transceivers for connectivity between external 10G ports & uplinking



## **2.4 Part -4 Technical Specifications of Tape & Backup with Backup software**

<b>S.No.</b>	<b>Item</b>	<b>Description with Specification</b>
3.	Tape Library	xi) Tape Library with One LTO6 Drive Scalable to 2 Drives
		xii) Tape library should have at least 24 Media slots
		xiii) Tape library should be Supplied with One Cleaning Cartridge & 10 LTO6 Media Cartridges
		xiv) System should support SNMP.
		xv) Should support data integrity check
		xvi) Tape Library should be Rack mountable.
		xvii) Backup software to take back up from storage directly for a minimum of 5No. of Hosts & One tape Drive with SAN Based Backup license
		xviii) Should be compatible with all industry standard backup applications.
		xix) Software provided with the Tape Library should be capable of taking incremental, decremental and complete backup and necessary licence for the software should be provided.
		xx) All kinds of reading mode of Bar Code should also be provided with Bar Code levels.
4.	Warranty	Three Years Onsite Comprehensive Maintenance for both Hardware and Software (24/7) after the expiry of warranty (Optional)

## **2.5 Part -5 Technical Specifications of KVM Switch**

<b>S.No.</b>	<b>Item</b>	<b>Description with Specification</b>
12	Computer Connections	Direct- 8 Max- 64 (via Cascade)
13	Port Selection	OSD(On Screen Display), Hotkeys, Front panel Push Buttons
14	Connectors/ Power	Keyboard, Video, Mouse, 1xRJ-11 (female), 1XDC Jack
15	Switches	8xPushbutton
16	LEDs	Separate for Online, Selected and Power
17	Keyboard/ Mouse	PS/2, USB
18	Video	Resolution of 2048x1536 or better
19	Power consumption	DC less than 6 Volts; less than 6 watts
20	Weight	Less than 2 Kgs
21	Dimensions	Rack mount ( 19"system rack, 1 U)
22	Warranty	Three Years Onsite Comprehensive Maintenance for both Hardware and Software (24/7) after the expiry of warranty (Optional)

## 2.6 Part -6 Technical Specifications of Server Rack

Sl. No.	Item	Description
1	Server Racks	<p>42 U Industry Standard Rack with following :</p> <p>c) 2 nos. of full height 32 Amp PDU housing min. 12 power distribution sockets of C13 type.</p> <p>d) Should be configured and supplied with all required accessories like rack mounting hardware for mounting blade chassis, servers, storage etc. and cable managers/ arms/ fittings for managing all the data &amp; power cables in the rear side of the Rack. All the cables should be arranged/ dressed/ secured so that no loose cables must be dangling loosely and all cables should be properly levelled on both sides.</p>
2	Warranty	Three Years Onsite Comprehensive Maintenance for both Hardware and Software (24/7) after the expiry of warranty (Optional)

## 2.7 Part -7 Technical Specifications of 16 Port SAN Switch

Sl. No.	Item	Item Description
1	16 Port SAN Switch	<p>i. Non-blocking architecture with minimum of 16 port and scalable up to 24 ports in a single domain concurrently active at 8Gbps full duplex with oversubscription.</p> <p>ii. The switch should support auto-sensing 1, 2, 4 Gbps capabilities.</p> <p>iii. The switch shall support different port types such as FL Port, F Port, M Port (Mirror Port), and E Port; self-discovery based on switch type ( U Port); optional port type control in Access Gateway mode; F Port and NPIV-enabled N Port.</p> <p>iv. The switch should be rack mountable.</p> <p>v. Non disruptive Microcode / firmware Upgrades and hot code activation.</p> <p>vi. The switch shall provide Aggregate bandwidth of 192 Gbps : 24 ports x 8Gbps (data rate) end to end.</p>

	<p>vii. Shall have optional support for Adaptive Networking services such as Quality of Service (QoS) to help optimize application performance in consolidated, virtual environments. It should be possible to define high, medium and low priority QoS zones to expedite high priority traffic.</p>
	<p>viii. SAN switch shall have support to restrict data flow from less critical hosts at present bandwidths.</p>
	<p>ix. The Switch should be configured with the Zoning and shall also support ISL trunking when more than 2 switches are configured in a single fabric.</p>
	<p>x. The Switch shall be able to support ISL trunk up to 64 Gbps between a pair of switches for optimal bandwidth utilization and load balancing.</p>
	<p>xi. Exchange-based load balancing across ISLs should be supported with Dynamic Path Selection included in Switch OS.</p>
	<p>xii. SAN Switch shall have support to isolate the high bandwidth data flows traffic to specific ISLs.</p>
	<p>xiii. Switch shall support to measure the top bandwidth-consuming traffic in real time for a specific physical or virtual device, or end to end across the fabric.</p>
	<p>xiv. Support for web based management and should also support CLI.</p>
	<p>xv. The switch shall support advance zoning and ACL to simplify administration and significantly increase control over data access.</p>
	<p>xvi. Offered Switch shall have support to configure the switches with alerts based on threshold values for temperature, fan status, Power supply status, port status.</p>
	<p>xvii. Switch shall support POST and online/offline diagnostics, including RAS trace logging, environmental monitoring, non-disruptive daemon restart, FC ping and Path Info (FC traceroute), Port mirroring (SPAN port).</p>
	<p>xviii. The switch should have USB port for firmware download, support, save, and configuration upload / download.</p>
	<p>xix. Three Years Onsite Comprehensive Maintenance for both Hardware and Software (24/7) after the expiry of warranty (Optional)</p>

**Annexure-VIII**

**Details of Technical Literature to be Submitted by the Successful Tenderer**

Sl. No.	Description	Quantity	No. Of Pages
1			
2			
3			
4			
5			
6			

**Note: Submission of the technical printed literature including technical specifications of each equipment is mandatory after award of work. However, for reference of CBI, the tenderer may enclose the Technical Particulars with the Technical Bid itself.**

(Authorized signatory  
of the company with  
seal)

Place:

Date:

**Annexure - IX**

**Format for Financial Bid**

(To be submitted on the letter head of the company/firm)

S.No.	Description of the items	Qty. Required for each of the locations located at (1) Delhi, (2) Mumbai, (3) Kolkata (4)Chennai.	Unit Rate in INR inclusive of all taxes & levies for CBI offices located at 1. Delhi 2. Mumbai 3. Kolkata 4. Chennai (The contact details of the Consignees at above cited places shall be communicated only to the successful tenderer/bidder).	
			In figures	In words
	Basic Price of the equipment including 03 (three) years warranty/guarantee after expiry of the defect liability period as prescribed by the OEM.			
1.	<b>Application Server &amp; Backup Server</b> (as per detailed specifications in Clause No.2 Part-1 of Section-III)	3 (three) Nos.		
2.	<b>SAN Storage</b> (as per detailed specifications in Clause No.2 Part-2 of Section-III)	1 (one) No.		
3.	<b>External Layer 3 Switch</b> (as per detailed specifications in Clause No.2 Part-3 of Section-III)	2 (Two) No.		
4.	<b>Tape &amp; Backup with backup software</b> (as per detailed specifications in Clause No.2 Part-4 of Section-III)	1 (one) No		
5.	<b>KVM Switch</b> (as per detailed specifications in Clause No.2 Part-5 of Section-III)	1 (one) No		
6.	<b>Server Rack</b> (as per detailed specifications in Clause No.2 Part-6 of Section-III)	1 (one) No.		
7.	<b>16 Port SAN Switch</b> ( as per detailed specification in Clause No.2 Part-7 of Section-III)	1 (one) No.		
8.	<b>Post Warranty Comprehensive Annual Maintenance Contract (AMC) for 3 years after expiry of defect liability period as prescribed by OEM</b>	Lump Sum		
	<b>(a) For the 1st Year</b>			
	<b>(b) For the 2<sup>nd</sup> Year</b>			
	<b>(c) For the 3<sup>rd</sup> Year</b>			
9	Installation, testing & commissioning of complete work at Delhi (including of all taxes)			
10	Installation, testing & commissioning of complete work at Kolkata (including of all taxes)			

11	Installation, testing & commissioning of complete work at Chennai (including of all taxes)			
12	Installation, testing & commissioning of complete work at Mumbai (including of all taxes)			
13	Total cumulative price for supply, Installation, testing & commissioning of complete work at Delhi (including of all taxes)			
14	Total cumulative price for supply, Installation, testing & commissioning of complete work at Kolkata (including of all taxes)			
15	Total cumulative price for supply, Installation, testing & commissioning of complete work at Chennai(including of all taxes)			
16	Total cumulative price for supply, Installation, testing & commissioning of complete work at Mumbai(including of all taxes)			
	Total Amount			

This is certified that the rates quoted above are not more than the rates charged from any Central / State Govt. Deptt. / Institution / DGS&D.

**Name, Address, Contact Details of  
Authorized signatory  
of the company with seal**

Place:

Date:

**Note:- The details of the taxes and duties as applicable on the last day of submission of tender document may be indicated for reference of the tender award authority.**

**Index of Pages of Technical Bid submitted by the Bidder**

Sl. No.	Page No./Nos. of Technical Bid		Particulars of Page/Pages
	From	To	
1			
2			
3			
4			
5			

**Name, Address, Contact Details of  
Authorized signatory  
of the company with seal**

Place:

Date: