

**TENDER ENQUIRY FOR SUPPLY & INSTALLATION OF**  
**"SERVERS, ROUTER/FIREWALL, PCs, OS SOFTWARE, DB**  
**SOFTWARE, RACK WITH KVM" FOR THE LOCATION AT**  
**CBI, SPECIAL UNIT, CHENNAI**

NIT No. : CMS/CONFROOM/SUDLI/CHN/6311

NIT Issue Date : 05.08.2016

Date, time & venue of Pre-bid Meeting : 12.08.2016 at 1600 hrs. at CBI, SU,  
Block A-4, 3<sup>rd</sup> floor, Rajaji Bhawan,  
Besant Nagar, Chennai – 600090.

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

Due Date, time & venue of opening of Technical Bids : 09.09.2016 at 15.00 hrs. at CBI, SU,  
Block A-4, 3<sup>rd</sup> floor, Rajaji Bhawan,  
Besant Nagar, Chennai – 600090.



**Special Unit**  
**Central Bureau of Investigation,**  
**Block A-4, 3<sup>rd</sup> floor, Rajaji Bhawan, Besant Nagar, Chennai – 600090**  
**Telefax:- 044-24916257, 044-24912419**  
**e-mail : spsuchn@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 an 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**.

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

**Name of work : Supply & Installation of "Servers, Router/ Firewall,  
PCs, OS Software, DB Software, Rack with KVM etc." for the Location  
at CBI, Special Unit, Chennai**

**(Tender No.CMS/CONFROOM/SUDLI/CHN/6311)**

**SECTION-I**

**(Instructions to Tenderer)**

## **Notice Inviting Tender**

Tender No. CMS/CONFROOM/SUDLI/CHN/6311      Date: 05.08.2016

1      Special Unit, Central Bureau of Investigation, Chennai (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 in two-bid format for Supply, Installation and Commissioning of " Servers, Router/ Firewall, PCs, OS Software, DB Software, Rack with KVM etc." for the location at CBI, SU, Chennai as per the specification given in the schedule attached to the tender document as Section-III (2.0).

The tenderer need to deposit the interest free refundable EMD for an amount of Rs 1,10,000/- (Rupees One Lakh Ten Thousand Only) in the form of demand drafts only. For the tender document downloaded from the CPP Portal or the website of CBI, a draft of Rs. 1,500/- (Rupees One Thousand Five Hundred Only) shall also be paid towards the cost of tender document through demand draft separately at the time of submission of tender. All the demand drafts shall be drawn in favour of "Superintendent of Police, CBI, SU, Delhi," payable at Delhi. The demand drafts for EMD & tender fee must be enclosed in separate sealed envelope. Sealed envelope super-scribed as "Tender Document for Supply & Installation of Servers, Router/ Firewall, PCs, OS Software, DB Software, Rack with KVM etc.for the location at CBI, Special Unit, Chennai" due for opening on 09.09.2016 at 1500 hours. This envelope is to be addressed to and should reach to the addressee on or before the closing date & time of bid submission:

**Supdt. of Police, Special Unit  
Central Bureau of Investigation,  
Block A-4, 3<sup>rd</sup> floor, Rajaji Bhawan, Besant Nagar, Chennai – 600090  
Telefax:- 044-24916257, 044-24912419, 044-24911218  
e-mail : spsuchn@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 in 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 late stage. No tender will be entertained by E-mail or FAX.

4 Pre-bid meeting is scheduled on 12.08.2016 at 1600 hrs. at CBI, SU, Chennai, Block A-4, A-Wing, 3<sup>rd</sup> Floor, Rajaji Bhawan, Besant Nagar, Chennai-600090. The prospective tenderer are requested to attend the pre-bid meeting at scheduled date and time for clarifications of apprehensions of prospective tenderer in respect of this tender document. Technical specifications, Warranty and Terms and Conditions etc. shall be open for discussion for wider participation and competitive prices. No further issues raised by prospective tenderer shall be entertained after pre-bid meeting. Based on the discussion during the pre-bid meeting, a corrigendum, if any, required shall be uploaded on the CPP Portal as well as CBI Website. However, the copy of the corrigendum shall also be e-mailed to the prospective tenderer who have attended the pre-bid meeting. 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. at CBI, SU, Chennai, Block A-4, A-Wing, 3<sup>rd</sup> Floor, Rajaji Bhawan, Besant Nagar, Chennai-600090 in the presence of the tenderer or their authorized representative who would be present at the scheduled date & 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 for such tenderer 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.

Superintendent of Police  
CBI, SU, Chennai

## **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). Envelope of Part – I (Cost of Tender document) and Part-II (EMD) 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. The Part-III (Technical Bid) & Part-IV (Financial Bid) shall be uploaded one by one on CPP Portal only.

### **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 are eligible to bid. Authorization letter from Original Equipment Manufacturer (OEM) in favour of authorized distributors/dealers to bid/negotiate against this tender, must be enclosed with the technical bid documents. The proforma of the authorization letter is enclosed with the tender document as Annexure-I. It is also clarified that distributors/dealers who may quote different makes and models of the particular manufacturers would have to submit authorisation from all the manufacturers separately.
- ii. The tenderer need to deposit the interest free refundable EMD for an amount of Rs 1,10,000/- (Rupees One Lakh Ten Thousand Only) in the form of demand drafts only. For the tender document downloaded from the CPP Portal or the website of CBI, a draft of Rs. 1,500/- (Rupees One Thousand Five Hundred Only) shall also be paid towards the cost of tender document through demand draft separately at the time of submission of tender. All the demand drafts for EMD & tender fee must be enclosed in separate sealed envelope. Sealed envelope super-scribed as “Tender Document for Supply & Installation of Servers, Router/ Firewall, PCs, OS Software, DB Software, Rack with KVM etc. for the location at CBI, Special Unit, Chennai” due for

opening on 09.09.2016 at 1500 hrs. This envelope is to be addressed to and should reach to the addressee on or before the closing date & time of bid submission. The demand drafts shall be drawn in favour of “Superintendent of Police, CBI, SU, Delhi” payable at Delhi.

iii. The tenderer should have:-

Experience of having successfully completed the work during the last seven years ending previous day of the last date of submission of tenders:-

Three similar works completed costing not less than amount equal to Rs. 22,00,000/- (Rupees Twenty Two Lakhs only).

or

Two similar completed works of not less than Rs. 33,00,000/- (Rupees Thirty Three Lakhs only)

or

One similar completed work of not less than Rs.44,00,000/- (Rupees Forty Four Lakhs only)

iv. The annual turnover of the tenderer for each of the last three financial years (FY 2014-2015, FY 2013-2014 & FY 2012-13) should not be less than Rs.55,00,000/- (Rupees Fifty Five Lakhs Only). The certificate in respect of the turnover shall have to be issued by the Chartered Accountant of the company. Financial statements showing profit, duly audited/ certified by Chartered Accountant (CA) of the last three years along with the copies of Income Tax Returns must be enclosed with the technical bid. (Refer Annexure-V)

v. The Tenderer should have Solvency of amount of Rs.22,00,000/- (Rupees Twenty Two Lakhs only). (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) duly notarised must be enclosed with the technical bid. The proforma of the affidavit is attached 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 compliance/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. This has to be submitted at CBI, Special Unit, Block A-4, A-Wing, 3<sup>rd</sup> Floor, Rajaji Bhawan, Besant Nagar, Chennai-600090.
- xi. Profit/loss – The tender should have not incurred any loss in the last 3 (three) consecutive financial year ending 31<sup>st</sup> March 2015.
- xii. Solvency Certificate - The tenderer/bidder shall have minimum solvency of amount of Rs. 22,00,000/- (Rupees Twenty Two Lakhs only).
- xiii. 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)
- xiv. If the company/ firm is Pvt. Limited Company/Firm, Limited Company/ Firm, Partnership Company/ Firm, then the Director/ Board of Directors may authorise a person who had to sign the tender document. An affidavit in respect of such authorisation by all the Directors/ Partners on Non-Judicial

stamp paper of Rs.100/- (One Hundred) duly notarised must be enclosed with the technical bid.

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. 1,10,000/- (Rupees One Lakh Ten Thousand only) and a non-refundable tender fee for an amount of Rs.1,500- (Rupees One Thousand & Five Hundred only) by way of demand drafts only. The demand drafts shall be drawn in favour of "Superintendent of Police, CBI, SU, Delhi", Payable at Delhi.

The firms registered with National Small Scale Industries Corporation (NSIC) or Small Scale Industrial Organisation (SSI) 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 for EMD & tender fee have to be enclosed in 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 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. In case CBI desires to procure additional quantity of the items as mentioned in the Bill of Material, during the validity period of the quoted price the successful tenderer shall be liable to supply the same to CBI only at the quoted price of the respective items.

**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. at CBI, Special Unit, Block A-4, A-Wing, 3<sup>rd</sup> Floor, Rajaji Bhawan, Besant Nagar, Chennai-600090. 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.

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

**Name of work : Supply & Installation of" Servers, Router/ Firewall,  
PCs, OS Software, DB Software, Rack with KVM etc." For the Location  
At CBI, Special Unit, Chennai**

**( Tender No.CMS/CONFROOM/SUDLI/CHN/6311)**

**SECTION-II**

**(Conditions of Contract)**



**1. Interpretation:-**

- a. CBI means the purchaser and Superintendent of Police, Special Unit, Chennai means the Consignee.
- 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 the location of SU, CBI at Chennai.
- 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 two weeks from the date of receipt of material on the site.
- 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 60 (Sixty) days from the date of handing over the same to CBI.

**4. Liquidated Damages:** If the tenderer fails in satisfactory Installation, Testing & Commissioning of the equipments including system integration in stipulated time then liquidated damages/ penalty at the rate of 1% (One Percent) of the order value per week subject to maximum of 10% (Ten Percent) 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 **Three years comprehensive onsite Warranty / Guarantee** which shall be considered from the date of the satisfactory Installation, Testing & Commissioning of equipments including system integration against the defects in Manufacturing, Workmanship and Poor Quality of components in the guarantee/ warranty in prescribed format as given at Annexure-III.

(B) **Downtime (period during which the system is not functional):** During the warranty period not more than 5% (Five Percent) downtime shall be permissible. For downtime exceeding 1% (One Percent) over and above permissible 5% then penalty @ 1/365 of the 5% (Five Percent) of the order value per day subject to maximum of 10% 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 within the business hours.

6. **Training of Personnel:**

The successful tenderer shall be required to provide the technical training for 5 (Five) number of personnel involved in the use of the equipments at the CBI premises at CBI, SU, Chennai immediately after completing the installation of the equipments for a minimum period of 5 (Five) 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). 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 for the reference of the purchaser in the price breakup proforma annexed with Annexure-IX.

- ii) The tenderer is also required to mention the Lumpsum Charges of 3 years Annual Maintenance Contract (AMC) post expiry of three years of Warranty/ Guarantee in the prescribed format of Financial Bid (Annexure-IX). The cost indicated towards AMC charges will be taken into consideration while deciding the Lowest-I (L-I) bidder. The amount indicated towards AMC shall be payable to the successful bidder only at the end of the warranty/ guarantee period on half-yearly basis which shall be calculated on pro-rata basis.
- iii) The rates should be quoted in Indian Rupees (INR) on FOR Basis at destination site 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.
- iv) Where the equipment is composed of several sub-units/ components, the rate shall have to be quoted for each sub-unit / component separately in the price breakup proforma of this tender document 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. The words “Not quoting” should be clearly written against any item of equipment for which the tenderer is not interested to quote.
- v) 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 two stages as detailed below:

**(a) Stage – I (Technical Evaluation):** Technical evaluation of the proposals shall be done in two 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 and EMD & Tender fee and eligibility criteria with the technical bid has been submitted. All the documents to be enclosed shall have to be in the prescribed formats and properly signed & stamped so that the bids are complete and generally in order.
  - Tender(s) 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, whether these are complying with the specification as mentioned in the tender.
  - The bid which is not complying with the tender specification will be summarily rejected and no correspondence shall be entertained.

The evaluation of technical particulars shall be as under:-

S.No.	Attributes	Evaluation (Total 100 marks)
A	Financial Strength	

	(1) The total turnover of the tenderer cumulatively for the last three financial years (FY 2012-13, FY 2013-2014 & FY 2014-2015) should not be less than Rs. 55,00,000/-(Rupees Fifty Five Lakhs Only)	16 marks (Maximum)	(1)Rs. 55,00,000/-- 8 Marks (2)Above Rs.55,00,000/- to Rs.1,00,00,000/- - 10 Marks (3)Above Rs. 1,00,00,000/- to Rs. 2,50,00,000/- - 12 Marks (4)Above Rs.2,50,00,000/- to Rs.5,00,00,000/- - 14 Marks (5)Above Rs. 5,00,00,000/- – 16 Marks
	(2) Solvency certificate	4 marks (Maximum)	(1)Rs. 22,00,000/- - 2 Marks (2)Above Rs. 22,00,00/- - 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. 22,00,000/- (Rupees Twenty Two Lakhs Only).</p> <p>2. Two similar completed works each costing not less than Rs. 33,00,000/- (Rupees Thirty Three Lakhs only)</p> <p>3. One similar completed work of not less than Rs. 44,00,000/-(Rupees Forty Four Only )</p>		<p>Meeting Minimum Criteria- 15 Marks</p> <p>For every additional work of Rs. 22,00,000/- (Rupees Twenty Two Lakhs Only). or more - 5 marks each</p> <p>For every additional work of Rs. 33,00,000/- (Rupees Thirty Three Lakhs only)or more - 7 marks each</p> <p>For every additional work of Rs. 44,00,000/-(Rupees Forty Four Only )or more- 10 marks each</p>
C	<p>Performance on works (time over run (TOR) – 20 marks (Maximum)</p> <p>(1) Without levy of Liquidated Damages (LD).</p> <p>(2) With levy of LD.</p>		<p>(1) 20 Marks</p> <p>(2) 10 Marks</p>
D	<p>Performance of works (quality) which the tenderer claims to have executed</p> <p>(1) Outstanding</p>		<p>Average Max 20 marks</p> <p>20</p>

	(2) Very good (3) Good (4) Satisfactory (5) Poor/ No certificate enclosed	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 5 – 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.)

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) alongwith 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 for financial evaluation.

Prices of the following items shall be quoted separately in the price breakup proforma as well as the Financial Bid Format/ Bill of Quantity of this tender document:-

S.No	Item Name
1.	Router, Firewall etc,
2.	Server
3.	Desktop(RHEL)
4.	Desktop (Windows)
5.	19” rack with KVM, rack optimized mouse, keyboard & Monitor
6.	OS: RHEL server version 6.6 software
7.	DB: My SQL Enterprise server software perpetual licence
8.	RJ-45 Cat 6E cables, 3 Mtrs
9.	Installation and Testing
10.	3 years Comprehensive AMC (Post Warranty)

However the L-1 (Lowest Bidder) will be decided on the basis of gross total prices of the items as mentioned above i.e. Sl. No.1 to 10. The L-1 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 lowest evaluated (L-1) tenderer (hereinafter referred to as the “Supplier” or “Contractor”).

**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 10% (Ten Percent) of order value within 7 (Seven) days from the date of the issue of the purchase order and it shall be kept valid for a period of three years. The performance security/performance 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, Chennai.
- (ii) The EMD of the successful tenderer shall be adjusted against the Performance Security/Performance Guarantee and as such the tenderer has to submit the Performance Security/Performance Guarantee for the balance amount.

**11. Terms of Payment:**

- (I) 70% (Seventy Percent) of the order value shall be paid after the receipt of material in good & satisfactory condition at the CBI premises after inspection which shall be conducted either at site or at site of OEM/ his authorised distributor/dealer.
- (II) Balance 30% (Thirty 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 two weeks from the date of handing over.

- (III) The payments shall be made through electronic clearing to the bank account of the tenderer i.e. NEFT or RTGS, and for this purpose tenderer are advised to submit their complete bank details while submitting the technical bid itself.

**12. Site Preparation:**

The tenderer shall inform to the CBI about the preparation of site for Installation of the equipment, immediately after receipt of the letter of award. The tenderer 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 equipment so as to complete the work in a smooth manner.

The successful tenderer shall visit the site of CBI where the equipments are to be installed and may offer his advice and render assistance to CBI. 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) consecutive days. In such event, purchaser shall extend the scheduled period of delivery appropriately.

**14. Jurisdiction:**

The courts at Chennai 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 Chennai 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/ job order and Contract, the CBI and the tenderer shall address the dispute/ difference for a mutual resolution failing which the matter shall be referred for arbitration to a sole Arbitrator to be appointed by the CBI. 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 Chennai. The award of the Arbitrator 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 CBI and the tenderer.

**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.	----	

**Central Bureau of Investigation  
Special Unit: Govt. of India**

**Name of work : Supply & Installation of "Servers, Router/ Firewall,  
PCs, OS Software, DB Software, Rack with KVM etc." For the Location  
at CBI, Special Unit, Chennai**

**(Tender No.CMS/CONFROOM/SUDLI/CHN/6311)**

**SECTION-III**

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

## 1.0 Bill of Material for CBI, SU, Chennai:

S.No	Item Name	Qty
1.	Router, Firewall etc,	1
2	Server	3
2.	Desktop(RHEL)	1
3.	Desktop (Windows)	6
4.	19" rack with KVM, rack optimized mouse, keyboard & Monitor	1
5.	OS: RHEL server version 6.6 software	3
7.	DB: My SQL Enterprise server software perpetual licence	1
8.	RJ-45 Cat 6E cables, 3 Mtrs	15
9.	Installation and Testing	
10.	3 years Comprehensive AMC (Post Warranty)	

## 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

#### Part –I: Specification for Secure Service router, Firewall, IPS etc

S.No.	Specifications
<b>A.</b>	<b>Performance Requirement</b>
1.	Wire-speed performance equivalent to 45Mbps or higher for concurrent services such as Routing and Firewall, IPS, VPN, Encryption/Decryption.
2.	Active/Active and Active/Standby support for all services and stateful failover of runtime sessions using integrated or dedicated Stateful Firewall. In case if firewall is dedicated module or chassis it should support transparent mode to avoid the creation of additional L3 network in-between.
3.	<ul style="list-style-type: none"><li>4x10/100/1000 Mbps and 2xGigabit SFP (SX &amp; LX one each) router Ports (At least 4 Ports should be usable in any combination)</li><li>16x10/100/1000 Mbps L3 Switched Ports at wire speed,</li></ul>
4.	Hardware based encryption and VPN Support for 3DES, and AES 256, VPN tunnels.
5.	Intrusion Prevention as well as other essential security features.
<b>B.</b>	<b>Routing &amp; Multicasting</b>
6.	IPv4 and IPv6 support, including IPv4-IPv6 tunnels

7.	Static routing, RIPv1/2, RIPv6, OSPFv2 and v3, BGP4/4+
8.	Policy-based routing
9.	Inter-VLAN routing
10.	High availability: VRRP, redundant router connections
11.	IGMPv1/2/3 for IPv4; MLDv1/2 for IPv6
12.	PIM-SM for IPv4/v6
<b>C.</b>	<b>LAN Features</b>
13.	10/100/1000 Base-TX
14.	IEEE 802.1x port authentication, MAC based authentication
15.	IEEE 802.1p
16.	IEEE 802.1Q
17.	IEEE 802.3ad LACP
18.	IEEE 802.1s MSTP
19.	VLAN Registration Protocols for dynamic VLANs
20.	Port mirroring
21.	Jumbo frames
<b>D.</b>	<b>WAN Features</b>
22.	Serial V.35
23.	Point-to-Point Protocol (PPP), including PPP over Ethernet (PPPoE)
24.	HDLC
25.	Multilink PPP (MLPPP)
<b>E.</b>	<b>Quality of Service/Traffic Management</b>
26.	WRED, DiffServ, bandwidth guarantee/sharing, flow monitoring, traffic policing
27.	8 level Priority Class Based Queuing – Per IP address/subnets, ports, DSCP and ToS bits, VLAN ID, (802.1Q), VLAN Priority (802.1p)
28.	VLAN Classification (port and MAC based)
<b>F.</b>	<b>Firewall</b>
29.	Stateful Packet Inspection and failover Firewall
30.	Routed or transparent mode of operation
31.	Multiple zone support (including Corporate, Internet, DMZ)
32.	Access Control Lists (ACL)
33.	NAT, including policy-based NAT/PAT
34.	Multiple Distributed Denial of Service (DDoS) Attack Preventions
35.	IPSec, L2TP, PPTP
36.	<b>IPS:</b> Integrated Inline DPI based detection and mitigation of all network threats and viruses. Signature updation/distribution should be possible through centrally placed in-house management server.
<b>G.</b>	<b>VPN</b>
37.	Integrated hardware for encryption and VPN acceleration
38.	IPSec VPN with Stateful failover, <b>Group VPN Based on RFC 6407, GDOI</b>
39.	3DES, AES, SHA1, SHA-256
40.	VPN Client support
<b>H.</b>	<b>Management &amp; Service provisioning</b>
41.	Management: Telnet, SSHv2, SFTP, PAP, CHAP, SNMPv2, SNMP v3, DHCP, DNS Proxy, RADIUS, TACACS+, PKI functions and management of keys and X.509 digital certificates.

42.	Monitoring: Syslog, statistics, RMON, alarm
43.	Diagnostics: BERT, loopback testing, trace route, packet capture
<b>I.</b>	<b>Reliability &amp; Availability</b>
44.	Support for redundant power supply (Internal) and variable-speed cooling fans.
45.	Hot swappable Modules
<b>J.</b>	<b>International Power Safety &amp; Energy efficiency certifications</b>
46.	UL/CSA/IEC/EN 60950-1
47.	Common Criteria EAL3 certification (ISO/IEC 15408) for the product or family

## **Part –II: Specification for Server**

<b>S. No.</b>	<b>Parameter</b>	<b>Specifications</b>
1.	Processor	Intel® Xeon® processor E5-2670v3 or higher
2.	No of Processors	2
3.	Memory	128 GB using either 4x32GB or 8x16GB DDR4-2133 Registered DIMMS (LV and LR DIMMS also acceptable) Shall be expandable upto 768GB or more.
4.	PCI Slots	Minimum 1 nos. of PCI-Express Gen3 Slot shall be available for future expansion (After taking into account all the mandatory and optional hardware mentioned in this document)
5.	Interface Ports	a) Serial port - 1; b) Mouse - 1; c) Keyboard - 1; d) VGA Graphics - 1; e) USB 3.0 or above - 4; f) RJ45 Network ports - 4 +1(for Remote Management) (In case Mouse and Keyboard are USB based then additional USB ports to be given. Similarly for serial port converted from USB, additional USB port shall be provided along with USB to Serial converter.)
6.	Hard Disk Drive	To be supplied with 6 x 900GB (or higher capacity) 12G SAS Enterprise HDD in RAID6.
7.	Bays	Should support minimum 8 nos. of SAS Drives
8.	RAID Controller	12 Gbps or higher throughput HW RAID Controller supporting RAID 0/1/1+0/5/6 with minimum <b>1 GB</b> of Flash-backed write cache.
9.	FC HBA	2 x Single Port Qlogic 8Gbps FC Host Bus Adapter

10.	Optical Drive (internal)	DVD-RW Drive(or DVD/CD Compatible Blu-Ray Disc Drive)
11.	Graphics Controller	Integrated on-board graphics with support for 16 Million color: resolution of 1280 x 1024
12.	Gigabit Ethernet ports	4 nos of Gigabit Ethernet ports full duplex. The network ports should also provide the following functionalities for all supported OS: <ul style="list-style-type: none"> <li>• Ethernet Bonding, Failover and load balancing,</li> <li>• Wake on LAN,</li> <li>• Pre-Boot Execution Environment (PXE),</li> <li>• Multiple VLAN tagging,</li> <li>• Auto-negotiation for 10/100/1000 Mbps</li> </ul>
13.	Redundant Power Supplies	Redundant Hot Plug Power Supplies (230 VAC). The power supplies shall be either 80 Plus platinum certified or better
14.	Redundant cooling Fans	Redundant Hot Plug fans
15.	Form Factor	Rack mountable with rack mount kit and rails(preferably 2U or less)
16.	OS Support	The quoted server should support the following Operating Systems: <ol style="list-style-type: none"> <li>a) Microsoft Windows Standard &amp;Enterprise Server 2008 R2 and above;</li> <li>b) RHEL 6 and above ;</li> <li>c) VMware vSphere™ 5.0 and above</li> </ol>
17.	Backup drive	LTO-6 tape drive (preferably internal) with six media and one cleaning cartridge  <i>*in case external tape drive is quoted additional controller and rack mounting accessories shall be provided</i>
18.	Remote Manageability	<ol style="list-style-type: none"> <li>a) It shall be possible to manage the server hardware and software components remotely.</li> <li>b) The server hardware shall be manageable even when it is shutdown or crashed.</li> <li>c) It shall be possible to power on/off and boot the system remotely;</li> <li>d) It shall have the following features: <ul style="list-style-type: none"> <li>• real time power reading;</li> <li>• POST and failure sequence replay;</li> <li>• Event log;</li> <li>• Browser and CLI support;</li> <li>• Secure Socket Layer;</li> <li>• Secure Shell.</li> </ul> </li> </ol>

19.	Server Management	OEM software for management of Servers must be included as standard. It should integrate with any SNMP based industry standard Network Management Software. (The SNMP MIBs for all the hardware and software components shall be provided in a DVD media). Should provide Fault management and automatic event handling through e-mail, SMS. Should provide Role based secured remote management using Secure Sockets Layer (SSL) and Secure Shell (SSH) to encrypt management communications. Should provide Pre-failure warning for- CPU, Memory, HDD. Should have local LED/LCD based diagnostic panel for easy fault identification.
20.	Warranty	The entire hardware and software shall carry a comprehensive onsite warranty of 3 years from the date of commissioning

### **Part –III: Specification for Desktop (RHEL)**

S. No.	Parameter	Details
1	CPU/Speed	4th Generation Intel® Core™ i7-4770R processor or higher (6 MB or higher Cache, 3.9 GHz)
2	RAM	2 x 4 GB DDR3, 1600 Mhz DDR3 RAM upgradable to 16 GB or more(in case of higher generation CPU compatible memory shall be quoted)
3	Storage	<ul style="list-style-type: none"> <li>• 2 x 500 GB 7200 rpm SATA II HDD or later</li> <li>• DVD-RW Drive</li> </ul>
4	Video Controller	Integrated
5	Monitor	21" TFT Flat Panel Display LED backlit ( Full HD )
6	Keyboard	Multimedia/Internet Keyboard
7	Audio	Integrated, External Stereo Speakers and noise cancellation type headsets
8	Network Interface	2 x 10/100/1000 Mbps Ethernet Network Card, Auto sensing.
9	Bus Slots	One x16 PCI Express slot
10	Ports	Minimum 4 USB Ports
11	Mouse	Optical Scroll (3 button) Mouse with mouse pad
12	Power	220-240 VAC, 50 Hz With Indian Power cables



	Supply	
13	Drivers/Accessories	Required drivers and cables to be provided
14	O.S	(a) RHEL Desktop 6.0 (b) Kaspersky Antivirus with three years subscription
15	Warranty	(a) 3 years Comprehensive onsite warranty support for Hardware from the date of Installation/Acceptance (b) Vendor should provide OEM warranty card mandatorily (c) The equipment shall be supported for atleast 5 years from the date of acceptance
16	Post Sales Support	Principal/Supplier should have a full fledged service center in Chennai
17	Installation	Installation/Creation of Partition, OS Installation and enabling Restore option onsite
18	Cables, connectors and accessories	All the necessary cables, connectors and accessories if any to be provided.

**Part –IV: Specification for Desktop (Windows)**

S. No.	Parameter	Details
1	CPU/Speed	4th Generation Intel® Core™ i7-4770R processor or higher (6 MB or higher Cache, 3.9 GHz)
2	RAM	2 x 4 GB DDR3, 1600 Mhz DDR3 RAM upgradable to 16 GB or more(in case of higher generation CPU compatible memory shall be quoted)
3	Storage	<ul style="list-style-type: none"> <li>• 2 x 500 GB 7200 rpm SATA II HDD or later</li> <li>• DVD-RW Drive</li> </ul>
4	Video Controller	Integrated
5	Monitor	21" TFT Flat Panel Display LED backlit ( Full HD )
6	Keyboard	Multimedia/Internet Keyboard
7	Audio	Integrated, External Stereo Speakers and noise cancellation type headsets
8	Network Interface	2 x 10/100/1000 Mbps Ethernet Network Card, Auto sensing.
9	Bus Slots	One x16 PCI Express slot
10	Ports	Minimum 4 USB Ports
11	Mouse	Optical Scroll (3 button) Mouse with mouse pad
12	Power Supply	220-240 VAC, 50 Hz With Indian Power cables
13	Drivers/Ac	Required drivers and cables to be provided

	ssories	
14	O.S	(a) Genuine Microsoft 64 bit Windows 8 Professional with License and Media. (Restore CD's not acceptable. Required Driver CD's to be provided separately. with DVD). (b) Kaspersky Antivirus with three years subscription
15	Warranty	(a) 3 years Comprehensive onsite warranty support for Hardware from the date of Installation/Acceptance (b) Vendor should provide OEM warranty card mandatorily (c) The equipment shall be supported for atleast 5 years from the date of acceptance
16	Post Sales Support	Principal/Supplier should have a full fledged service center in Chennai
17	Installation	Installation/Creation of Partition, OS Installation and enabling Restore option onsite
18	Cables, connectors and accessories	All the necessary cables, connectors and accessories if any to be provided.

#### **Part –V: Specification for 19” Rack**

<b>S.No</b>	<b>Specifications</b>
.	
1.	DIMENSIONS: 42U 800mm (W) X 1200mm (D)
2.	Color : Powder coated Black
3.	At least two (2) rear vertically mounted PDUs with a total of 24 nos. of 5A/15A, 230V sockets. The inputs to the PDUs shall be provided using NEMA connectors. Two sets of single phase 32A NEMA connectors (each set inclusive of both male and female parts) along with 2 nos. of 32A MCBs and mounting boxes` shall be provided. 15 meter long FRLS power cables with each wire having 4 mm <sup>2</sup> cross sectional area shall be provided for input to each PDU. The electrical cabling from the UPS output point available at the site to the NEMA connector BOX near the rack shall have to be carried out by the bidder using 4 mm <sup>2</sup> FRLS cable and appropriate cap-on-casing or conduit depending on the site suitability. All cables, sockets and circuit breakers shall be ISI/UL certified
4.	Top mounted Fan Tray with 4 fans ( should not consume mounting slots (out of 42 U) or sockets in the PDU)
5.	2 Fixed trays
6.	1 sliding 2U Drawer
7.	Wheels with locks
8.	Grounding Kits

9.	Perforated metal front door (single) and back doors (double) with door knobs at the outside of the doors and both should have unique lock and key arrangement. There shall be two LED lamps inside the rack, one at the front side and one at the back side which shall turn-on only when the front door and the back doors are opened. The purpose is to provide visibility to the front and back sides of the equipment inside the rack.
10.	Rear vertical cable managers
11.	Metallic side panels
12.	Provision for air flow
13.	Mounting Hardware
14.	100 nos. of nuts and bolts
15.	A Packet consisting of 100 nos of reusable Velcro tie wraps

**Part –VI: Specification for OS: RHEL server version 6.6 software**

S.No.	Specifications
1	OS: RHEL server version 6.6 software

**Part –VII: Specification for DB: My SQL Enterprise server software perpetual licence**

S.No.	Specifications
1	DB: My SQL Enterprise server software perpetual licence

**Part –VII: Specification for RJ-45 Cat 6E cables, 3 Mtrs**

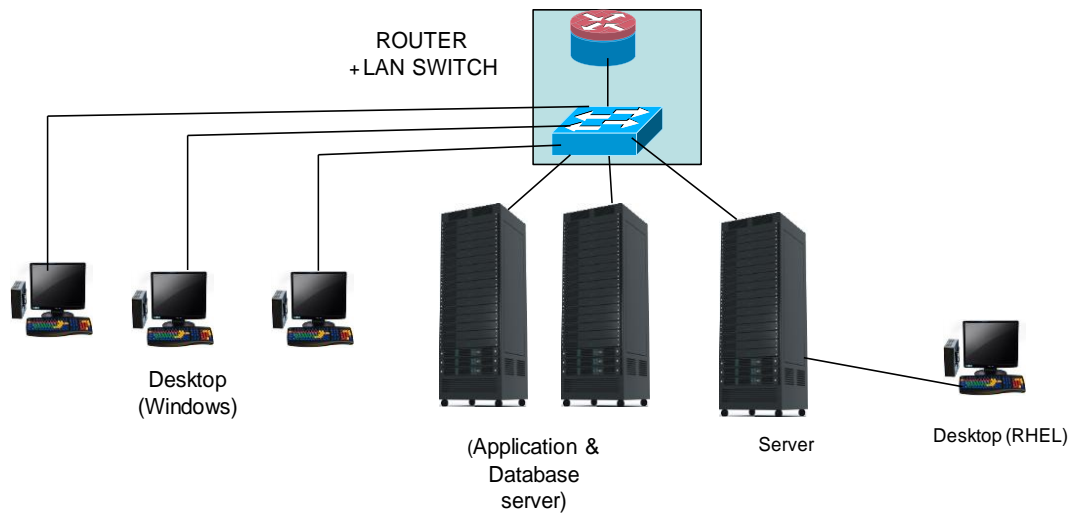
S.No.	Specifications
1	RJ-45 Cat 6E cables, 3 Mtrs

**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.

Installation and integration of equipment at all locations including physical installation, cabling, termination of LAN and WAN (MPLS) links, best configuration as

per the accepted low level design for **Group VPN Based on GDOI RFC 3547/6407**, security (Firewall & IPS), QOS, NMS, Syslog and TACACS+/LDAP for critical data subject to acceptance and satisfaction of agency. Once the integrated setup is functional and tested for all features, the complete layout document will be prepared and submitted by the bidder. The agency or its representative will provide all the data/configuration files necessary for integration with the existing Network with respect to above scope.

- a. Supplied equipment shall be configured and integrated to work for all functions as mentioned above, with the existing equipment in the network. Therefore bidder will specifically ensure the **interoperability** with respect to the **Group VPN's Group members and Keyserver** before quoting a particular model of any equipment.
- b. During the acceptance if it is found that the solution quoted, in compliance with the specifications, is not meeting any requirement, purchase will be free to take any appropriate action against the bidder.
- c. Software version of the equipment being supplied must be latest & indicated in the schedule of requirements as well as in the order documentation.
- d. No alternate models shall be offered in the Bid.
- e. All imported Networking/ IT equipment shall be accompanied with factory test reports/QA reports and EAL/CC Certificates as specified.
- f. The OEM **warranty** of the Equipment supplied shall be for **3 Years** (on-site) from the date of commissioning of the complete network. The warranty shall include all software licenses, subscription, updates and upgrades for 3 years.
- g. In no case a faulty Hard Disk of any server/Desktop under Warranty/AMC will be returned in lieu of the new Hard Disk replaced by OEM or Partner.



**Equipment & Connectivity**

**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	Router, Firewall etc,		
2	Server		
3	Desktop(RHEL)		
4	Desktop (Windows)		
5	19" rack with KVM, rack optimized mouse, keyboard & Monitor		
6	OS: RHEL server version 6.6 software		
7	DB: My SQL Enterprise server software perpetual licence		
8	RJ-45 Cat 6E cables, 3 Mtrs		

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

**Name of work : Supply & Installation of" Servers, Router/ Firewall,  
PCs, OS Software, DB Software, Rack with KVM etc." For the Location  
at CBI, Special Unit, Chennai**

**( Tender No.CMS/CONFROOM/SUDLI/CHN/6311)**

**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,  
Block A-4, A-Wing, 3<sup>rd</sup> Floor, Rajaji Bhawan,  
Besant Nagar, Chennai-600090.**

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 severally. No company or firm or individual other than M/s \_\_\_\_\_ are authorized to bid, negotiate and conclude the order in regard to this business against this specific tender as for all business in the entire territory of Chennai.

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 letter head)**

I / We certify that the guarantee/ warranty shall be given for a period of three years starting from the date of satisfactory installation, commissioning and 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 including all the accessories in satisfactory faultless working conditions including system integration for a period 347 days (i.e. 95% uptime) in a block of 365 days.

- All complaints will be attended by us within 4 (Four) working days of receipt of the complaint in our office.
- In case there is delay of more than 4 (four) days in attending to a complaint from our side then you can count the number of days in excess of the permissible response time in the downtime. The above said response time of 4 (four) days 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 1% (one) 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.

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 e-mail but non-reply of e-mail 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.

We guarantee that we will supply spare parts, if and when required at mutually agreed price. The agreed basis shall also be on the basis of agreed discount on the published catalogue price of the manufacturer.

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:

**MODEL 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,  
Block A-4, A-Wing, 3<sup>rd</sup> Floor, Rajaji Bhawan,  
Besant Nagar, Chennai-600090.**

WHEREAS.....  
.... (Name and address of the Supplier) (herein after 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 security for compliance with its obligations in accordance with and due performance of the contract;

AND WHEREAS we have agreed to give the Supplier 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 Buyer 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	<b>COMPANY/FIRM PROFILE</b> 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	<b>Statutory Details</b> (Photocopy duly signed to be attached) -Registration No. of the Firm - PAN - EPF – Registration No. - ESI Registration No. - Service Tax, VAT/CST Registration No. - Name & Address of Bankers alongwith Current Account Details	
7	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).	
8	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: 1. Name of the organization with complete postal address. 2. Name& designation of the Contact Person with Tel/ Mobile No(s) and E-mail ID. 3. Date of Contract & contract period as awarded. 4. No. of persons deployed by your firm to site. 5. Whether any extension to the scheduled completion period granted and if so indicate the period. 6. Whether any liquidated damages/ penalty imposed.	
9	<b>Details of Three Similar Works:</b> 1. Name of Organization 2. Name of Work 3. Period of Work 4. Amount (In INR)	
10	<b>Volume of business done during the last three consecutive years ending 31.03.2015</b> (please submit documentary evidence)	

11	(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)	
12	<b>Whether Performance Certificates as prescribed in Annexure-VI of Tender Document from previous organizations enclosed?</b>	
13	<b>Whether the tenderer is willing for inspection of present/ past work being executed or earlier executed.</b>	
14	<b>Details of manpower to be deputed for the work.</b>	
15	<b>Proof of depositing statutory taxes for the last two years:</b> 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) 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.
- b) 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.
- c) 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).
- d) In case of Limited Company, printed copies of Memorandum and Articles of Association as well as last 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.

- e) 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..
- f) Bid submitted by a Consortium should comply with the following additional requirements:-
- i. Number of members in a consortium should be limited to two only;
  - ii. The bid should contain information of each member of the consortium;
  - iii. Any or one 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;
  - v. 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;
  - vi. 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;

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.

A copy of the MOU should also be submitted alongwith 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.

#### **Change in Consortium composition**

Any change in the composition of a Consortium will not be permitted during the stage of the bidding process.

**MODEL FORMAT FOR PERFORMANCE CERTIFICATION**

[Furnish this information for each individual work executed for which the evaluation will be done as described at para- 8(a) above (Tender Evaluation)]

<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	
3.	Performance Report	Excellent/ Very Good/ Good/ Average/ Below Average
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
5	Name, Designation, Address & Contact Details of the responsible person/ authority from the concerned Government Department/ PSU/ Private Sector, under whose supervision the work was executed	

The information given above may be independently verified by CBI for its correctness. If the information given above is found to be misleading or incorrect the bid is liable to be rejected summarily and the bidder is also liable to be debarred from all subsequent tenders of CBI.

Place:

Date:

(Signature of the tenderer)

Compliance and Deviation SheetPart –I: Specification for Secure Service router

S.No.	Specifications	Complied (Yes/No)
<b>A.</b>	<b>Performance Requirement</b>	
2.	Wire-speed performance equivalent to 45Mbps or higher for concurrent services such as Routing and Firewall, IPS, VPN, Encryption/Decryption.	
2.	Active/Active and Active/Standby support for all services and stateful failover of runtime sessions using integrated or dedicated Stateful Firewall. Incase if firewall is dedicated module or chassis it should support transparent mode to avoid the creation of additional L3 network in-between.	
3.	<ul style="list-style-type: none"> <li>• 4x10/100/1000 Mbps and 2xGigabit SFP (SX &amp; LX one each) router Ports (At least 4 Ports should be usable in any combination)</li> <li>• 16x10/100/1000 Mbps L3 Switched Ports at wire speed,</li> </ul>	
4.	Hardware based encryption and VPN Support for 3DES, and AES 256, VPN tunnels.	
5.	Intrusion Prevention as well as other essential security features.	
<b>B.</b>	<b>Routing &amp; Multicasting</b>	
6.	IPv4 and IPv6 support, including IPv4-IPv6 tunnels	
7.	Static routing, RIPv1/2, RIPvng for IPv6, OSPFv2 and v3, BGP4/4+	
8.	Policy-based routing	
9.	Inter-VLAN routing	
10.	High availability: VRRP, redundant router connections	
11.	IGMPv1/2/3 for IPv4; MLDv1/2 for IPv6	
12.	PIM-SM for IPv4/v6	
<b>C.</b>	<b>LAN Features</b>	
13.	10/100/1000 Base-TX	
14.	IEEE 802.1x port authentication, MAC based authentication	
15.	IEEE 802.1p	
16.	IEEE 802.1Q	
17.	IEEE 802.3ad LACP	
18.	IEEE 802.1s MSTP	
19.	VLAN Registration Protocols for dynamic VLANs	
20.	Port mirroring	
21.	Jumbo frames	
<b>D.</b>	<b>WAN Features</b>	
22.	Serial V.35	
23.	Point-to-Point Protocol (PPP), including PPP over Ethernet	

	(PPPoE)	
24.	HDLC	
25.	Multilink PPP (MLPPP)	
<b>E.</b>	<b>Quality of Service/Traffic Management</b>	
26.	WRED, DiffServ, bandwidth guarantee/sharing, flow monitoring, traffic policing	
27.	8 level Priority Class Based Queuing – Per IP address/subnets, ports, DSCP and ToS bits, VLAN ID, (802.1Q), VLAN Priority (802.1p)	
28.	VLAN Classification (port and MAC based)	
<b>F.</b>	<b>Firewall</b>	
29.	Stateful Packet Inspection and failover Firewall	
30.	Routed or transparent mode of operation	
31.	Multiple zone support (including Corporate, Internet, DMZ)	
32.	Access Control Lists (ACL)	
33.	NAT, including policy-based NAT/PAT	
34.	Multiple Distributed Denial of Service (DDoS) Attack Preventions	
35.	IPSec, L2TP, PPTP	
36.	<b>IPS:</b> Integrated Inline DPI based detection and mitigation of all network threats and viruses. Signature updation/distribution should be possible through centrally placed in-house management server.	
<b>G.</b>	<b>VPN</b>	
37.	Integrated hardware for encryption and VPN acceleration	
38.	IPSec VPN with Stateful failover, <b>Group VPN Based on RFC 6407, GDOI</b>	
39.	3DES, AES, SHA1, SHA-256	
40.	VPN Client support	
<b>H.</b>	<b>Management &amp; Service provisioning</b>	
41.	Management: Telnet, SSHv2, SFTP, PAP, CHAP, SNMPv2, SNMP v3, DHCP, DNS Proxy, RADIUS, TACACS+, PKI functions and management of keys and X.509 digital certificates.	
42.	Monitoring: Syslog, statistics, RMON, alarm	
43.	Diagnostics: BERT, loopback testing, trace route, packet capture	
<b>I.</b>	<b>Reliability &amp; Availability</b>	
44.	Support for redundant power supply (Internal) and variable-speed cooling fans.	
45.	Hot swappable Modules	
<b>J.</b>	<b>International Power Safety &amp; Energy efficiency certifications</b>	
46.	UL/CSA/IEC/EN 60950-1	
47.	Common Criteria EAL3 certification (ISO/IEC 15408) for the product or family	

**Part –II: Specification for Server**

<b>S. No.</b>	<b>Parameter</b>	<b>Specifications</b>	<b>Complied (Yes/No)</b>
2.	Processor	Intel® Xeon® processor E5-2670v3 or higher	
2.	No of Processors	2	
3.	Memory	128 GB using either 4x32GB or 8x16GB DDR4-2133 Registered DIMMS (LV and LR DIMMS also acceptable) Shall be expandable upto 768GB or more.	
4.	PCI Slots	Minimum 1 nos. of PCI-Express Gen3 Slot shall be available for future expansion (After taking into account all the mandatory and optional hardware mentioned in this document)	
5.	Interface Ports	g) Serial port - 1; h) Mouse - 1; i) Keyboard - 1; j) VGA Graphics - 1; k) USB 3.0 or above - 4; l) RJ45 Network ports - 4 +1(for Remote Management)  (In case Mouse and Keyboard are USB based then additional USB ports to be given. Similarly for serial port converted from USB, additional USB port shall be provided along with USB to Serial converter.)	
6.	Hard Disk Drive	To be supplied with 6 x 900GB (or higher capacity) 12G SAS Enterprise HDD in RAID6.	
7.	Bays	Should support minimum 8 nos. of SAS Drives	
8.	RAID Controller	12 Gbps or higher throughput HW RAID Controller supporting RAID 0/1/1+0/5/6 with minimum <b>1 GB</b> of Flash-backed write cache.	
9.	FC HBA	2 x Single Port Qlogic 8Gbps FC Host Bus Adapter	
10.	Optical Drive (internal)	DVD-RW Drive(or DVD/CD Compatible Blu-Ray Disc Drive)	
11.	Graphics Controller	Integrated on-board graphics with support for 16 Million color: resolution of 1280 x 1024	
12.	Gigabit Ethernet	4 nos of Gigabit Ethernet ports full duplex. The network ports should also provide the	

	ports	<p>following functionalities for all supported OS:</p> <ul style="list-style-type: none"> <li>• Ethernet Bonding, Failover and load balancing,</li> <li>• Wake on LAN,</li> <li>• Pre-Boot Execution Environment (PXE),</li> <li>• Multiple VLAN tagging,</li> <li>• Auto-negotiation for 10/100/1000 Mbps</li> </ul>	
13.	Redundant Power Supplies	<p>Redundant Hot Plug Power Supplies (230 VAC).</p> <p>The power supplies shall be either 80 Plus platinum certified or better</p>	
14.	Redundant cooling Fans	Redundant Hot Plug fans	
15.	Form Factor	Rack mountable with rack mount kit and rails(preferably 2U or less)	
16.	OS Support	<p>The quoted server should support the following Operating Systems:</p> <p>d) Microsoft Windows Standard &amp;Enterprise Server 2008 R2 and above;</p> <p>e) RHEL 6 and above ;</p> <p>f) VMware vSphere™ 5.0 and above</p>	
17.	Backup drive	<p>LTO-6 tape drive (preferably internal) with six media and one cleaning cartridge</p> <p><i>*in case external tape drive is quoted additional controller and rack mounting accessories shall be provided</i></p>	
18.	Remote Manageability	<p>e) It shall be possible to manage the server hardware and software components remotely.</p> <p>f) The server hardware shall be manageable even when it is shutdown or crashed.</p> <p>g) It shall be possible to power on/off and boot the system remotely;</p> <p>h) It shall have the following features:</p> <ul style="list-style-type: none"> <li>• real time power reading;</li> <li>• POST and failure sequence replay;</li> <li>• Event log;</li> <li>• Browser and CLI support;</li> <li>• Secure Socket Layer;</li> <li>• Secure Shell.</li> </ul>	

19.	Server Management	OEM software for management of Servers must be included as standard. It should integrate with any SNMP based industry standard Network Management Software. (The SNMP MIBs for all the hardware and software components shall be provided in a DVD media). Should provide Fault management and automatic event handling through e-mail, SMS. Should provide Role based secured remote management using Secure Sockets Layer (SSL) and Secure Shell (SSH) to encrypt management communications. Should provide Pre-failure warning for- CPU, Memory, HDD. Should have local LED/LCD based diagnostic panel for easy fault identification.	
20.	Warranty	The entire hardware and software shall carry a comprehensive onsite warranty of 3 years from the date of commissioning	

**Part –III: Specification for Desktop (RHEL)**

S. No.	Parameter	Details	Complied (Yes/No)
1	CPU/Speed	4th Generation Intel® Core™ i7-4770R processor or higher (6 MB or higher Cache, 3.9 GHz)	
2	RAM	2 x 4 GB DDR3, 1600 Mhz DDR3 RAM upgradable to 16 GB or more(in case of higher generation CPU compatible memory shall be quoted)	
3	Storage	<ul style="list-style-type: none"> <li>• 2 x 500 GB 7200 rpm SATA II HDD or later</li> <li>• DVD-RW Drive</li> </ul>	
4	Video Controller	Integrated	
5	Monitor	21" TFT Flat Panel Display LED backlit ( Full HD )	
6	Keyboard	Multimedia/Internet Keyboard	
7	Audio	Integrated, External Stereo Speakers and noise cancellation type headsets	
8	Network Interface	2 x 10/100/1000 Mbps Ethernet Network Card, Auto sensing.	

9	Bus Slots	One x16 PCI Express slot	
10	Ports	Minimum 4 USB Ports	
11	Mouse	Optical Scroll (3 button) Mouse with mouse pad	
12	Power Supply	220-240 VAC, 50 Hz With Indian Power cables	
13	Drivers/Accessories	Required drivers and cables to be provided	
14	O.S	(a) RHEL Desktop 6.0 (b) Kaspersky Antivirus with three years subscription	
15	Warranty	(d) 3 years Comprehensive onsite warranty support for Hardware from the date of Installation/Acceptance (e) Vendor should provide OEM warranty card mandatorily (f) The equipment shall be supported for atleast 5 years from the date of acceptance	
16	Post Sales Support	Principal/Supplier should have a full fledged service center in Chennai	
17	Installation	Installation/Creation of Partition, OS Installation and enabling Restore option onsite	
18	Cables, connectors and accessories	All the necessary cables, connectors and accessories if any to be provided.	

#### **Part –IV: Specification for Desktop (Windows)**

<b>S. No.</b>	<b>Parameter</b>	<b>Details</b>	<b>Complied (Yes/No)</b>
1	CPU/Speed	4th Generation Intel® Core™ i7-4770R processor or higher (6 MB or higher Cache, 3.9 GHz)	
2	RAM	2 x 4 GB DDR3, 1600 Mhz DDR3 RAM upgradable to 16 GB or more(in case of higher generation CPU compatible memory shall be quoted)	
3	Storage	<ul style="list-style-type: none"> <li>• 2 x 500 GB 7200 rpm SATA II HDD or later</li> <li>• DVD-RW Drive</li> </ul>	
4	Video Controller	Integrated	
5	Monitor	21" TFT Flat Panel Display LED backlit ( Full HD )	
6	Keyboard	Multimedia/Internet Keyboard	
7	Audio	Integrated, External Stereo Speakers and noise cancellation type headsets	



8	Network Interface	2 x 10/100/1000 Mbps Ethernet Network Card, Auto sensing.	
9	Bus Slots	One x16 PCI Express slot	
10	Ports	Minimum 4 USB Ports	
11	Mouse	Optical Scroll (3 button) Mouse with mouse pad	
12	Power Supply	220-240 VAC, 50 Hz With Indian Power cables	
13	Drivers/Accessories	Required drivers and cables to be provided	
14	O.S	(a) Genuine Microsoft 64 bit Windows 8 Professional with License and Media. (Restore CD's not acceptable. Required Driver CD's to be provided separately. with DVD). (b) Kaspersky Antivirus with three years subscription	
15	Warranty	(d) 3 years Comprehensive onsite warranty support for Hardware from the date of Installation/Acceptance (e) Vendor should provide OEM warranty card mandatorily (f) The equipment shall be supported for at least 5 years from the date of acceptance	
16	Post Sales Support	Principal/Supplier should have a full fledged service center in Chennai	
17	Installation	Installation/Creation of Partition, OS Installation and enabling Restore option onsite	
18	Cables, connectors and accessories	All the necessary cables, connectors and accessories if any to be provided.	

#### **Part –V: Specification for 19” Rack**

<b>S.No</b>	<b>Specifications</b>	<b>Complied (Yes/No)</b>
1.	DIMENSIONS: 42U 800mm (W) X 1200mm (D)	
2.	Color : Powder coated Black	
3.	At least two (2) rear vertically mounted PDUs with a total of 24 nos. of 5A/15A, 230V sockets. The inputs to the PDUs shall be provided using NEMA connectors. Two sets of single phase 32A NEMA connectors (each set inclusive of both male and female parts) along with 2 nos. of 32A MCBs and mounting boxes` shall be provided. 15 meter long FRLS power cables with each wire having 4 mm <sup>2</sup> cross sectional area shall be	

	provided for input to each PDU. The electrical cabling from the UPS output point available at the site to the NEMA connector BOX near the rack shall have to be carried out by the bidder using 4 mm <sup>2</sup> FRLS cable and appropriate cap-on-casing or conduit depending on the site suitability. All cables, sockets and circuit breakers shall be ISI/UL certified	
4.	Top mounted Fan Tray with 4 fans ( should not consume mounting slots (out of 42 U) or sockets in the PDU)	
5.	2 Fixed trays	
6.	1 sliding 2U Drawer	
7.	Wheels with locks	
8.	Grounding Kits	
9.	Perforated metal front door (single) and back doors (double) with door knobs at the outside of the doors and both should have unique lock and key arrangement. There shall be two LED lamps inside the rack, one at the front side and one at the back side which shall turn-on only when the front door and the back doors are opened. The purpose is to provide visibility to the front and back sides of the equipment inside the rack.	
10.	Rear vertical cable managers	
11.	Metallic side panels	
12.	Provision for air flow	
13.	Mounting Hardware	
14.	100 nos. of nuts and bolts	
15.	A Packet consisting of 100 nos of reusable Velcro tie wraps	

**Part –VI: Specification for OS: RHEL server version 6.6 software**

S.No.	Specifications	Complied (Yes/No)
1	OS: RHEL server version 6.6 software	

**Part –VII: Specification for DB: My SQL Enterprise server software perpetual licence**

S.No.	Specifications	Complied (Yes/No)
1	DB: My SQL Enterprise server software perpetual licence	

**Part –VII: Specification for RJ-45 Cat 6E cables, 3 Mtrs**

S.No.	Specifications	Complied (Yes/No)
1	RJ-45 Cat 6E cables, 3 Mtrs	

**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	Qty. For CBI, SU Chennai	NET PRICE in INR inclusive of all taxes & levies FOR CBI, SU, Chennai (From Col. 1 to 17 of the price break-up for Chennai as annexed below)	
			In Figures	In words
1.	Router, Firewall etc,	1 (One)		
2.	Server	3 (Three)		
3.	Desktop(RHEL)	1 (One)		
4.	Desktop (Windows)	6 (Six)		
5.	19" rack with KVM, rack optimized mouse, keyboard &	1 (One)		
6.	OS: RHEL server version 6.6 software	6 (Six)		
7.	DB: My SQL Enterprise server software perpetual licence	1 (One)		
8.	RJ-45 Cat 6E cables, 3 Mtrs	15 (Fifteen)		
9.	Installation and Testing			
10.	3 years Comprehensive AMC (Post Warranty)			

(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)

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:





**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: