

Requirement Proposal

Scope of work

- Supply, Installation, Configuration, Commissioning, Integration, Migration, Testing and Maintenance of complete hardware including all necessary software licenses as per the BOM and Technical specifications as per the respective delivery locations
- Successful Bidder has to provide hardware and software support, subscription, Upgrades, Updates, patches, support from the OEM for the entire solution during Warranty and CAMC period of 3 years.
- The bidder must undertake the complete responsibility of supply, installation and commissioning of all hardware, software & other equipment which may belong to different OEMs (i.e., the entire scope of work of this tender) and to provide complete warranty and support as per terms and conditions.
- The selected Bidder shall appoint a single point of contact for any activity pertaining to the requirements of this RFP.
- One Blade Chassis along with Six Blade Servers shall be supplied and installed at IT Department
National Housing Bank,
3rd Floor, Core 5A,
India Habitat Centre
Lodhi Road, New Delhi - 110003
- One Blade Chassis along with Six Blade Servers, Two SAN Switch, One SAN Storage shall be supplied and installed at
National Housing Bank
C/o Webwerks India Pvt Ltd
Unit No 901, Sigma IT Park,
Plot No. 203/204,
Rabale, Navi Mumbai- 400701
- The vendor shall depute skilled team (OEM certified) on site till complete installation, execution and signing of the project.
- OEM best practices must be followed for installation and configuration of hardware / software. Vendor needs to integrate the hardware supplied with the existing Network and structured network cabling should be implemented as per the best practices and to the satisfaction of NHB. Vendor needs to demonstrate the features mentioned in the specification after completion of installation.
- High Level Design (HLD) and Data/ Traffic Flow Design must be prepared and proposed by Bidder/OEM directly and it should be submitted to NHB by the Bidder/OEM.
- Successful bidder should integrate the proposed solution with other existing security solution such as Perimeter Firewalls, SIEM, Active Directory (Microsoft), Patch Management, etc. The bidder should provide necessary licenses as a part of the solution if required to connect integrate with other above solutions in present and in future.

- Bidder should give the complete SOP (Standard Operating Procedure) document (Hard Copy & Soft Copy) before the sign off of the complete project as NHB. SOP document should cover all the steps and troubleshooting required to install the products. SOP document should also include various basic steps to operate the devices, to create any policy/ rules, to take backup, to restore, to configure reports etc.

Evaluation Criteria

- The bidder must qualify the Technical Pre-Qualification Criteria as per **Annexure I** to be eligible for Commercial Evaluation.
- The bid will be evaluated on overall lowest basis consisting of:
 - 1) Supply, Installation, Configuration, Integration, Migration, Testing & Commissioning (SITC) of items mentioned in **Annexure II** AND
 - 2) Buyback of existing IT Hardware (Desktop, Display, Kindle, Laptop, Printer, Projector, Scanner, Smartphone, Tablet, UPS, Server/System, Firewall, Rack, Switch and Others) as per **Annexure - III**

Lowest bidder quote on GeM:

Total Cost for (1) (including GST and other taxes & duties) – Total Buyback Cost (2) (excluding GST)

Delivery Timelines

- The items must be delivered within 6-8 weeks at the locations indicated earlier from the date of accepting the order. Delays in delivery may lead to cancellation of order at the discretion of the Bank.
- Installation, migration, testing and commissioning of entire solution shall be within 8-10 weeks from the date of placement of Work Order (WO) / Purchase Order (PO).

Other Terms & Conditions

- Bidder must provide Manufacturer Authorisation Form (MAF) (Respective enquiry no printed on the MAF). Failing which the bid may be rejected and may not be consider for further evaluation. No further communication will be entertained in this matter.
- The complete solution shall be IPv4 and IPv6 ready from day 1 without any requirement of additional hardware, software, license, subscription etc.
- The equipment or its part quoted by bidder should not be declared as End of Life (EoL) by OEM before completion of five (5) years from date of Installation & Commissioning. The bidder has to ensure that the quoted product shall not be declared under “End-of-Support” by OEM within period of Six (6) years.
- The products being quoted by the bidder should not be declared as at “end-of-sale” by the respective OEM (Original Equipment manufacturer) on the date of

bid submission end date. Undertaking to this effect must be submitted from OEM. In the event of the supplied equipment being declared end-of-sale within the mentioned period, the bidder has to replace the equipment with equipment having equivalent or higher configurations at no extra cost to NHB.

- Bank reserves the right to reject the bid if any deviation is observed between the product offered by you and the specifications stated in the Bid.
- Bank may ask for supporting documents like, declaration from the vendor, product brochures etc. during evaluation of the bids, failure in submission of the same may lead to cancellation of the bid.
- Bank reserves the right to cancel the purchase order or to take necessary action if the items delivered found to be non-compliant with the details furnished by the vendor.
- Bank if desired, may check the genuineness of the product with the OEM. In case of any discrepancies Bank reserves the right to cancel the bid or to take necessary action.
- The vendor must provide 3 years comprehensive on-site OEM warranty support.
- In case the Bank wishes to shift the devices from one place to another anywhere in the country (colocation/relocation), adequate support will be made available by the bidder by arranging field engineer for the purpose of dismantling of devices supplied by Service provider & hand-over to the concerned Officials or Data Center, pre-shifting inspection, post-shifting inspection, re-installation etc. of all devices supplied by the vendor. The Bidder will bear all expenses for packing, shifting, insurance and other incidentals. The Bank will not be responsible or liable for any losses, damages to the items of equipment's, tools and machinery while such dismantling, pre-shifting inspection, post-shifting inspection, and re-installation etc. is being carried out. Bidder shall make available adequate alternative arrangement to ensure that the system functioning is neither affected nor dislocated during the shifting process. It is the responsibility of field engineer to integrate devices delivered at required location or Data Center & coordinate with the Bank to extend the reachability. The bidder shall provide necessary assistance for carrying out required configuration
- The equipment supplied under the contract shall be fully insured by the bidder against loss or damage incidental to manufacture or acquisition, transportation, storage, delivery and installation. Bank will not be responsible for any loss to bidder on account of non-insurance to any equipment or services.
- A Bidder will, by responding to this enquiry, be deemed to have accepted the terms of this enquiry.

Payment Terms

The terms and payment will be as under:

- 70% of (total value of project containing all items as per **BoQ**) payment shall be done against of receipt of materials at site and verification/inspection of good's condition and acceptance of the same by owner (NHB).
- 20% of (total value of project containing all items as per **BoQ**) payment shall be done after installation, migration, testing, commissioning & completion of the

total system in all respect to the sole satisfaction of NHB and grant of all necessary documents such as warranty certificates, built drawings, etc.

- 10% of (total value of project containing all items as per **BoQ**) payment on successful completion of warranty period of 3 years or on submission of a Performance Bank Guarantee of 3% value with validity of entire warranty period + 3 months (39 months). The PBG for the said procurement shall be released after the satisfactory completion of warranty Period. (*Warranty period will start from the date of signing off of installation report by NHB*)

Warranty And Support

- The successful bidder shall provide comprehensive on-site support (Warranty and CAMC) of the all the hardware / software with back-to-back support with the OEM, for a period of 3 years, from the date sign-off.
- Bidder/OEM should have a 24x7x365 days support center in order to log the calls. The support center detail/ numbers should be provided along with the escalation matrix mentioning the contact person's name, number and designation in the company.
- During this Comprehensive Onsite Maintenance Support period, Vendor needs to provide complete support for any Software / Hardware issues and provide either repair or replacement support with identical or higher configuration at no extra cost to NHB. There shall be no limitations on no. of support calls / visits by the Vendor / Vendor's representative whenever required. Replacement or Repair under Comprehensive Onsite Maintenance Support clause shall be made by the Vendor free of all charges at sites including freight, insurance or any other charges related to maintenance of the items supplied. Comprehensive Onsite Maintenance Support covers all hardware, software patches and upgrades, Firmware Upgrades, components and there shall be no exclusions.
- The successful bidder shall be responsible for any reconfiguration, new configuration changes in the solution as per NHB's requirements during the entire period of contract.
- The Successful bidder should participate and provide necessary support during the DC-DR Drill, or during real disaster.

Buy Back

- Bidder has to quote for the buyback of existing hardware items as per **Annexure - III**.
- The minimum reserve price of buyback items is **₹3,66,700/-**. The bidder must quote higher than the minimum reserve price.
- Successful lowest bidder has to provide detailed cost break up of tendered items as well as buy back items separately after award of contract through email to the government buyer/consignee
- The buyback price should be adjusted
- The buyback asset will be handed over to vendor as is where is basis.

- Bidder has to arrange its own resource (Manpower, infrastructure, logistics etc.) to shift the buyback asset.

Liquidity Damages & Penalty

- The Service Provider shall be required to deliver and implement the solutions as per following timelines, failing which liquidated damages (LD) as applicable shall be levied:

S. No.	Schedule	LD in case of default
1	Supply/Delivery and Installation as per SOW etc.	<p>a. In case of delay in delivery of equipment/solution, the bidder will be liable to pay a equal to 0.5% of the value of undelivered / Uninstalled portion of the order value for every week of delay beyond the scheduled delivery date by way of liquidated damages. Cap on liquidated damages shall be 5% of the undelivered/uninstalled value of the order.</p> <p>b. In case the delay exceeds three weeks, Bank reserves the right to cancel the order. In such an event vendor will not be entitled to or recover from Bank any amount by ways of damages, loss or otherwise. If orders are cancelled due to non-delivery, the vendor will be debarred by Bank for participating in any future tenders floated by Bank. In such circumstance, NHB reserves the right to forfeit EMD and invoke the submitted Performance Bank Guarantee (PBG).</p>
2	Configuration and implementation	0.5% of the total cost for each week's delay or part thereof, subject to maximum of 10% of the implementation cost.

- The Vendor shall maintain an uptime of 99.5% of the equipment during the entire contract period.
- The Bank reserves the right to invoke the PBG and forfeit the entire amount in case the uptime is not maintained properly.

Exclusions

- Schedule maintenance by the Vendor with prior intimation
- Force majeure events including on site power failures.

Service Level Agreement and Non-Disclosure Agreement

- Successful bidder (s) has to sign Service Level Agreement (SLA) and Non-Disclosure Agreement (NDA) with the Bank and would be required to keep all information provided to them as "Confidential" and not disclose to any party

without obtaining prior approval from NHB even after expiry of the contract. Successful bidder (s) has to sign the SLA & NDA within 30 days of receipt of the work/purchase order. If any bidder (s) disagrees to sign the SLA and NDA their offer will be rejected.

Annexure I

Technical Pre-Qualification Criteria for Selection of System Integrator for Supply of Blade Server and Chassis, SAN Storage and SAN Switch

S.No.	Criteria	Documents to be submitted
1.	The bidder should be a registered company in India.	<ul style="list-style-type: none"> • Certificate of Incorporation • GST Registration • PAN Card
2.	<p>The Bidder/OEM must be a Sales/Service Provider in the field of supplying Blade Server and Chassis/SAN Storage/SAN Switch for at least 5 years as on the last date of submission of bid.</p> <p>(In case of mergers/acquisition/restructuring or name change, the date of establishment of the earlier/original partnership firm / limited company will be taken into account).</p>	Copy of the earliest Purchase order along with Completion / Sign-off certificate
3.	<p>The Bidder should have positive net worth with average annual turnover should be at least ₹3 Crores during the last three years ending 31st March of the previous Financial Year as on Last Bid Submission Date.</p> <p>The turnover should be applicable to bidder and not for its group companies/subsidiary companies/ parent company.</p> <p>Note: Micro & Small Enterprises (MSE) units and Start-ups have been provided relaxation in prior turnover subject to meeting of quality and technical specifications of the RFP, in accordance with the relevant provisions of GFR. Bidders from this category should submit supporting documents issued by competent</p>	<ul style="list-style-type: none"> • The Bidder must produce a certificate from Company's Statutory Auditor confirming positive net worth and average annual turnover during the last three years. • Audited balance sheet of financial years 2018-19, 2019-20 and 2020-21* <p><i>* In case audited balance sheet for 2020-21 is not available, provisional balance sheet may be submitted</i></p>

	Government bodies to become eligible for the above exemption.	
4.	<p>The Bidder should have supplied Server and SAN Storage to at least</p> <p>“One State/Central Government(s), PSBs, PSUs and FI in India during the last five (5) years for an order value of not less than ₹2 crores.”</p> <p>Or</p> <p>“Two State/Central Government(s), PSBs, PSUs and FI in India during the last five (5) years for an order value of not less than ₹1 crores.”</p> <p>Or</p> <p>“Three State/Central Government(s), PSBs, PSUs and FI in India during the last five (5) years for an order value of not less than ₹80 lakhs”</p>	<p>Attach copy of Documentary evidence in form of Purchase Order and Implementation Certificate in this regard from Customer.</p> <p>The proof should be applicable to bidder and not for its group companies/subsidiary companies/ parent company.</p>
5.	The Bidder must submit authorization letter MAF (Manufacturer Authorization Form) from the Original Equipment Manufacturer (OEM) for all the equipment Blade Server with Chassis, SAN Switch, SAN Storage	Authorization letter from OEM
6.	The Bidder should have Direct Support offices in Delhi NCR and should be able to provide support at Mumbai.	Documentary proof such as Office registration details, list of service centers/business allies etc. with the Address, contact person and contact details to be submitted along with the bid.
7.	Bidder / OEM should provide an undertaking that all the supplied components are genuine and new and are not refurbished/counterfeit along with offering latest hardware in tune with the OEM’s roadmap for the same and should ensure that no such product is quoted in the tender whose declared end of life date falls within six years from the last date of bid submission. Bank reserves the right to	Undertaking from Bidder/OEM to this effect

	disqualify any such item not meeting this requirement.	
8.	The OEMs (Server, storage, Backup Solution) should certify that the hardware/software being provided does not contain any Malicious code in the format annexed as ' Annexure A '	Duly signed Certificate from OEM in the format annexed as 'Annexure'
9.	Bidder must have at least two of the following accreditations/certifications which is valid a) ISO 9000/9001 b) ISO 27001:2005 c) ISO 27001:2013 d) CMMI Level 3	Copy of the valid certification
10.	The Bidder should not be involved in any litigation which threatens solvency of company.	Certificate is to be provided by the Company's Statutory Auditor.
11.	Bidder should not have been blacklisted by any PSU or Public Sector Bank or RBI or IBA or any other Government entity as on the last date of submission of Bid	Self- Declaration on Bidder's letter head signed by Authorized Signatory
12.	The bidder should submit Pre-Contract Integrity Pact as per format provided in ' Annexure B '	Pre-Contract Integrity Pact duly signed by authorized signatory on non-judicial stamp paper of requisite value (cost to be borne by the bidder) as per format given in Annexure need to be enclosed.

<<Letter head of OEM>>

Date:

To,

The General Manager IT Department

National Housing Bank

3rd floor, Core 5A, India Habitat Centre, Lodhi Road,

New Delhi - 110003

Subject: Malicious Code Certificate

Dear Sir/ Madam,

We, <<OEM>> having its principal place of business at <<Registered Address of OEM>>certify on below:

- (a) This is to certify that the Hardware/Software being offered, as part of the contract, does not contain Embedded Malicious code that would activate procedures to :-
 - (i) Inhibit the desires and designed function of the equipment.
 - (ii) Cause physical damage to the user or equipment during the exploitation.
 - (iii) Tap information resident or transient in the equipment/network.
- (b) The firm will be considered to be in breach of the procurement contract, in case physical damage, loss of information or infringements related to copyright and Intellectual Property Right (IPRs) are caused due to activation of any such malicious code in embedded software.

For <<OEM>>

Authorized Signatory

Name:

Designation:

Pre-Contract Integrity Pact

(To be executed on a non- judicial stamp paper)

This pre-bid/pre-contract Agreement (hereinafter called "this Integrity Pact") between, the National Housing Bank, a bank established under the provisions of the National Housing Bank Act, 1987 having its Head Office at Core 5A, India Habitat Centre, Lodhi Road, New Delhi-110003 represented through Shri/Ms _____ , (Designation) (hereinafter called "NHB", which expression shall mean and include, unless the context otherwise requires, its successors in office and assigns) of the First Part

AND

M/s _____ represented by Shri _____, Chief Executive Officer (hereinafter called the "Bidder" which expression shall mean and include, unless the context otherwise requires, his successors and permitted assigns) of the Second Part.

(The party of the First Part and the party of the Second Part are hereinafter collectively referred to as the "Parties" and individually as the "Party")

WHEREAS NHB proposes to procure _____ (name of the items/services) as mentioned in the RFP No. _____ ("RFP") and the Bidder is willing to offer/has offered _____ (name of the items/services) as desired by NHB in terms of the RFP;

WHEREAS the Bidder is a private company/public company/Government undertaking/ partnership/registered export agency, constituted in accordance with the relevant law in the matter and NHB is a statutory body established under the Act of Parliament;

WHEREAS to avoid all forms of corruption by following a system that is fair, transparent and free from any influence/prejudiced dealings prior to, during and subsequent to the currency of the contract to be entered into with a view to:-

- (i) enabling NHB to obtain the desired said stores/equipment/services at a competitive price in conformity with the defined specifications by avoiding the high cost and the distortionary impact of corruption on public procurement and
- (ii) enabling Bidders to abstain from bribing or indulging in any corrupt practice in order to secure the contract by providing assurance to them that their competitors will also abstain from bribing and other corrupt practices and NHB will commit to prevent corruption, in any form, by its officials by following transparent procedures.

AND WHEREAS the Parties hereto hereby agree to enter into this Integrity Pact on the terms and conditions mentioned hereinafter.

NOW IT IS THEREFORE AGREED BY AND BETWEEN THE PARTIES HERETO AS FOLLOWS:

1. Commitments of NHB

1.1 NHB undertakes that no official of NHB, connected directly or indirectly with the contract, will demand, take a promise for or accept, directly or through intermediaries, any bribe, consideration, gift, reward, favour or any material or immaterial benefit or any other advantage from the Bidder, either for themselves or for any person, organization or third party related to the contract in exchange for an advantage in the bidding process, Bid evaluation, contracting or implementation process related to the contract.

1.2 NHB will, during the pre-contract stage, treat all Bidders alike and will provide to all Bidders the same information and will not provide any such information to any particular Bidder which could afford an advantage to that particular Bidder in comparison to other Bidders.

1.3 All the officials of NHB will report to the appropriate Government office any attempted or completed breaches of the above commitments as well as any substantial suspicion of such a breach.

2. In case any such preceding misconduct on the part of such official(s) is reported by the Bidder to NHB with full and verifiable facts and the same is prima facie found to be correct by NHB, necessary disciplinary proceedings, or any other action as

deemed fit, including criminal proceedings may be initiated by NHB and such a person shall be debarred from further dealings related to the contract process. In such a case while an enquiry is being conducted by NHB the proceeding under the contract would not be stalled.

3. Commitments of Bidders

3.1 Compliance of the Instructions of GOI/Guidelines of CVC/Others: The Bidder undertakes that in case of its selection as the successful Bidder, it shall perform its duties under the Contract in strict compliance of the relevant and extant instructions of Government of India, GFR issued by Ministry of Finance, Guidelines of CVC and provisions of the Procurement Manual/relevant instructions of NHB, as applicable to the subject matter.

3.2 The Bidder represents that it has the expertise to undertake the assignment /contract and also has the capability to deliver efficient and effective advice/services to NHB under the contract in terms of the RFP.

3.3 The Bidder commits itself to take all measures necessary to prevent corrupt practices, unfair means and illegal activities during any stage of its Bid or during any pre-contract or post-contract stage in order to secure the contract or in furtherance to secure it and in particular commit itself to the following:-

(a) The Bidder will not offer, directly or through intermediaries, any bribe, gift, consideration, reward, favour, any material or immaterial benefit or other advantage, commission, fees, brokerage or inducement to any official of NHB, connected directly or indirectly with the Bidding process, or to any person, organization or third party related to the contract in exchange for any advantage in the Bidding, evaluation, contracting and implementation of the contract.

(b) The Bidder has not given, offered or promised to give, directly or indirectly any bribe, gift, consideration, reward, favour, any material or immaterial benefit or other advantage, commission, fees , brokerage or inducement to any official of NHB or otherwise in procuring the Contract or forbearing to do or having done any act in relation to the obtaining or execution of the contract or any other contract with the Government for showing or forbearing to show favour or disfavor to any person in relation to the contract or any other contract with the Government.

(c)* The Bidder shall disclose the name and address of its agents and representatives including its foreign principals or associates.

(d)* The Bidder shall disclose the payments to be made by it to agents/brokers or any other intermediary, in connection with this Bid/contract.

(e)* The Bidder has not engaged any individual or firm or company whether Indian or foreign to intercede, facilitate or in any way to recommend to NHB or any of its functionaries, whether officially or unofficially to the award of the contract to the Bidder, nor has any amount been paid, promised or intended to be paid to any such individual, firm or company in respect or any such intercession, facilitation or recommendation.

(f) The Bidder, either while presenting the Bid or during pre-contract negotiations or before signing the contract, shall disclose any payments he has made, is committed to or intends to make to officials of NHB or their family members, agents, brokers or any other intermediaries in connection with the contract and the details of services agreed upon for such payments.

(g) The Bidder will not collude with other parties interested in the contract to impair the transparency, fairness and progress of the bidding process, Bid evaluation, contracting and implementation of the contract.

(h) The Bidder will not accept any advantage in exchange for any corrupt practice, unfair means and illegal activities.

(i) The Bidder shall not use improperly, for purposes of competition or personal gain or pass on to others, any information provided by NHB as part of the business relationship, regarding plans, technical proposals and business details, including information contained in any electronic data carrier. The Bidder also undertakes to exercise due and adequate care lest any such information is divulged.

(j) The Bidder commits to refrain from giving any complaint directly or through any other manner without supporting it with full and verifiable facts.

(k) The Bidder shall not instigate or cause to instigate any third person to commit any of the actions mentioned above.

(l) If the Bidder or any employee of the Bidder or any person acting on behalf of the Bidder, either directly or indirectly is a relative of any of the officers of NHB or alternatively, if any relative of an officer of NHB has financial interest/stake in the Bidders firm, the same shall be disclosed by the Bidder at the time of filing of tender.

The term 'relative' for this purpose would be as defined in Section 6 of the Companies Act 1956.

(m) The Bidder shall not lend to or borrow any money from or enter into any monetary dealings or transactions, directly or indirectly, with any employee of NHB.

(n) The Bidders shall disclose any transgressions with any other company that may impinge on the anti-corruption principle.

(o) The Bidder has not entered into any undisclosed agreement or understanding with other Bidders with respect of prices, specifications, certifications, subsidiary contracts, etc.

3.4 The Bidder undertakes and affirms that it shall take all measures necessary to prevent any possible conflict of interest and in particular commit itself to the following:

(a) The Bidder shall avoid any conflict of interest while discharging contractual obligations and bring, beforehand, any possible instance of conflict of interest to the knowledge of NHB, while rendering any advice or service.

(b) The Bidder shall act/perform, at all times, in the interest of NHB and render any advice/service with highest standard of professional integrity.

(c) The Bidder undertakes that in case of its selection as the successful Bidder, it shall provide professional, objective, and impartial advice and at all times and shall hold NHB's interests paramount, without any consideration for future work, and that in providing advice it shall avoid conflicts with other assignments and its own interests.

(d) The Bidder declares/affirms that it has not been hired by NHB for any assignment that would be in conflict with its prior or current obligations to other employers/buyers, or that may place it in a position of being unable to carry out the assignment/contract in the best interest of NHB. Without limitation on the generality of the foregoing, the Bidder further declares/affirms as set forth below:

(i) Conflict between consulting activities and procurement of goods, works or non-consulting services (i.e. services other than consulting services) - The Bidder has not been engaged by NHB to provide goods, works, or non-consulting services for a project, or any affiliate that directly or indirectly controls, is controlled by, or is under common control with the Bidder. The Bidder is fully aware that it shall be disqualified from providing consulting services resulting from or directly related to those goods, works, or non-consulting services. Further, the Bidder is also aware of the fact that in case it has been hired to provide consulting services for the preparation or implementation of a project, or any affiliate that directly or indirectly controls, is controlled by, or is under common control with the firm, shall be disqualified from subsequently providing goods, works, or services (other than consulting services) resulting from or directly related to the consulting services for such preparation or implementation.

This provision does not apply to the various firms (consultants, contractors, or suppliers) which together are performing the Bidder's obligations under a turnkey or design and build contract.

(ii) Conflict among consulting assignments - The Bidder understands that neither Bidder (including their personnel and sub-consultants), nor any affiliate that directly or indirectly controls, is controlled by, or is under common control with the firm, shall

be hired for the assignment that, by its nature, may be in conflict with another assignment of the Bidder. *As an example, Bidders assisting NHB in the privatization of public assets shall neither purchase, nor advise purchasers of, such assets. Similarly, Bidders hired to prepare Terms of Reference (TOR) for an assignment shall not be hired for the assignment in question.*

(iii) Relationship with NHB's staff – The Bidder is aware that the contract may not be awarded to the Bidder in case it is observed that it, including its experts and other personnel, and sub-consultants, has/have a close business or family relationship with a professional staff of NHB (or of the project implementing agency) who are directly or indirectly involved in any part of: (i) the preparation of the TOR for the assignment, (ii) the selection process for the contract; or (iii) the supervision of such contract, unless the conflict stemming from this relationship has been resolved in a manner acceptable to NHB throughout the selection process and the execution of the contract.

(iv) A Bidder shall submit only one proposal either individually or as a joint venture partner in another proposal: If the Bidder, including a joint venture partner, submits or participates in more than one proposal, all such proposals shall be disqualified. This does not, however, preclude a consulting firm to participate as a sub-consultant, or an individual to participate as a team member, in more than one proposal when circumstances justify and if permitted by the RFP.

4. Previous Transgression

4.1 The Bidder declares that no previous transgression occurred in the last three years immediately before signing of this Integrity Pact, with any other company in any country in respect of any corrupt practices envisaged hereunder or with any Public Sector Enterprise in India or any Government Department in India that could justify Bidder's exclusion from the tender process.

4.2 The Bidder agrees that if it makes incorrect statement on this subject, Bidder can be disqualified from the tender process or the contract, if already awarded can be terminated for such reason.

5. Accountability

5.1 The Bidder undertakes that in case of its selection as the successful Bidder and assignment of the contract to the Bidder, it shall be accountable for the advice/supply made/to be made and/or for any service rendered/to be rendered by it to NHB, keeping in view norms of ethical business, professionalism and the fact that such advice / services to be rendered by it for a consideration.

5.2 The Bidder shall be accountable in case of improper discharge of contractual obligations and/or any deviant conduct by the Bidder.

6. Personal Liability

The Bidder understands that in case of its selection as the successful Bidder, the Bidder is expected to carry out its assignment with due diligence and in accordance with prevailing standards of the profession. The Bidder shall be liable to NHB for any violation of this Integrity Pact as per the applicable law, besides being liable to NHB as may be provided under the service level agreement/contract to be executed.

7. Transparency and Competitiveness

The Bidder undertakes that in case of its selection as the successful Bidder, it shall keep in view transparency, competitiveness, economy, efficiency and equal opportunity to all prospective tenderers/Bidders, while rendering any advice/service to NHB, in regard with matters related to selection of technology and determination of design and specifications of the subject matter, Bid eligibility criteria and Bid evaluation criteria, mode of tendering, tender notification, etc.

8. Co-operation in the Processes:

The Bidder shall cooperate fully with any legitimately provided/constituted investigative body, conducting inquiry into processing or execution of the consultancy contract/any other matter related with discharge of contractual obligations by the Bidder.

9. Sanctions for Violations

9.1 Any breach of the aforesaid provisions by the Bidder or any one employed by it or acting on its behalf (whether with or without the knowledge of the Bidder) shall entitle NHB to take all or any one of the following actions, whenever required:

- (i) To immediately call off the pre contract negotiations without assigning any reason or giving any compensation to the Bidder. However the proceedings with the other Bidder(S) would continue.
- (ii) The Earnest Money Deposit (in per-contract stage) and / or Security Deposit /Performance Bond/PBG (after the contract is signed) shall stand forfeited either fully or partially, as decided by NHB and NHB shall not be required to assign any reason therefor.

(iii) To immediately cancel the contract, if already signed, without giving any compensation to the Bidder.

(iv) To recover all sums already paid by NHB, and in case of an Indian Bidder with interest thereon at 2% higher than the prevailing Prime Lending Rate of State Bank of India, while in case of a Bidder from a country other than India with interest thereon at 2% higher than the LIBOR. If any outstanding payment is due to the Bidder from NHB in connection with any other contract, such outstanding payment could also be utilized and appropriated by NHB to recover the aforesaid sum and interest.

(v) To encash the advance bank guarantee and performance bond/warranty bond, if furnished by the Bidder, in order to recover the payments already made by NHB, along with interest.

(vi) To cancel all or any other contracts with the Bidder. The Bidder shall be liable to pay compensation for any loss or damage to NHB resulting from such cancellation /rescission and NHB shall be entitled to deduct the amount so payable from the money(s) due to the Bidder.

(vii) To debar the Bidder from participating in future Bidding process of NHB for a minimum period of five year which may be further extended at the discretion of NHB.

(viii) To recover all sums paid in violation of this Integrity Pact by Bidder(S) to any middleman or agent or broker with a view to securing the contract.

(ix) In cases where irrevocable Letters of Credit have been received in respect of any contract signed by NHB with the Bidder, the same shall not be opened.

(x) Forfeiture of Performance Bond/PBG in case of a decision by NHB to forfeit the same without assigning any reason for imposing sanction for violation of this Integrity Pact.

9.2 NHB will be entitled to take all or any the actions mentioned at para 10.1(i) to (x) of this Integrity Pact also on the Commission by the Bidder or any one employed by it or acting on its behalf (whether with or without the knowledge of the Bidder), of an offence as defined in Chapter IX of the Indian Penal Code, 1860 or Prevention or Corruption Act, 1988 or any other statute enacted for prevention of corruption.

9.3 The decision of NHB to the effect that a breach of the provisions of this Integrity Pact has been committed by the Bidder shall be final and conclusive on the Bidder. However the Bidder can approach the Independent Monitor(s) appointed for the purposes of this Integrity Pact.

10. Fall Clause:

The Bidder undertakes that it has not supplied/is not supplying similar product/systems or subsystems at a price lower than that offered in the present Bid in respect of any other Ministry/Department of the Government of India or PSU/Public Sector Bank and if it is found at any stage that similar product/systems

was supplied by the Bidder to any other Ministry/Department of the Government of India or a PSU at a lower price, then that very price, with due allowance for elapsed time, will be applicable to the present case and the difference in the cost would be refunded by the Bidder to NHB, if the contract has already been concluded.

11. Disqualification & Forfeiture of EMD/PBG etc

The Bidder(s) agree(s) that:

(a) Prior to award of contract or during execution of the contract, if the Bidder (s) has/have committed any transgression/breach of this Integrity Pact, NHB is entitled to disqualify the Bidder(s) from the tendering process/terminate the contract.

(b) If NHB disqualifies the Bidders(s) from the tendering process prior to award of contract under clause (a) above, NHB is entitled to demand and recover the damages equivalent to the EMD and in such event, the EMD shall be forfeited.

(c) After selection of the successful Bidder and/or during execution of the contract, any breach/violation by the successful Bidder of this Integrity Pact under clause (a) above shall entail forfeiture of performance bond/Performance Bank Guarantee (PBG).

It is agreed that the decision of NHB regarding forfeiture of EMD/performance bonds/ PBG shall be final and binding.

12. Independent External Monitors:

12.1 NHB has appointed Shri Lov Verma, IAS (Retd.) (email id: lov_56@yahoo.com) and Shri Hare Krushna Das, IAS (Retd.) (email id: hkdash184@hotmail.com) as independent external monitors (hereinafter referred to as "the Monitors") for this Integrity Pact in consultation with the Central Vigilance Commission.

12.2 The task of the Monitors shall be to review independently and objectively whether and to what extent the Parties comply with the obligations under this Integrity Pact.

12.3 The Monitors shall not be subject to instructions by the representatives of the Parties and perform their functions neutrally and independently.

12.4 Both the Parties accept that the Monitors have the right to access all the documents relating to the project procurement including minutes of meeting.

12.5 As soon as the Monitor notices, or has reason to believe a violation of this Integrity Pact, he will so inform the Authority designated by NHB.

12.6 The Bidder accepts that the Monitor has the right to access without restriction to all project documentation of NHB including that provided by the Bidder. The Bidder will also grant the Monitor upon his request and demonstration of a valid interest, unrestricted and unconditional access to his project documentation. The same is applicable to sub-contractors. The Monitor shall be under contractual obligation to treat the information and documents (s) of the Bidder/sub-contractor with confidentiality.

12.7 NHB will provide to the Monitor sufficient information about all meetings among the Parties related to the project provided such meeting could have an impact on the contractual relations between the Parties. The Parties will offer to the Monitor the option to participate in such meeting.

12.8 The Monitor will submit a written report to the designated Authority of NHB within 8 to 10 weeks from the date of reference or intimation to him by NHB/Bidder and, should the occasion arise, submit proposals for correcting problematic situations.

13. Facilitation of Investigation:

In case of any allegation of violation of any provision to this Integrity Pact or payment of commission, NHB or its agencies shall be entitled to examine all the documents including the Books of Accounting of the Bidder and the Bidder shall provide necessary information and documents in English and shall extend all possible help for the purpose of such examination.

14. Law and Place of Jurisdiction:

This Integrity Pact is subject to Indian Law. Any dispute arising out of this shall be subject the jurisdictions of the Courts at New Delhi.

15. Other Legal Action:

The actions stipulated in this Integrity Pact are without prejudice to any other legal action that may follow in accordance with the provision of the extant law in force relating to any civil or criminal proceedings. However, the Parties shall not approach

the Courts of Law while representing the matters to the Monitor/s and shall await the decision of the Monitor/s in the matter.

16. Validity:

16.1 The validity of this Integrity Pact shall be from date of its signing and extend up to 3 years or the complete execution of the contract to the satisfaction of both NHB and the Bidder, including warranty period, whichever is later. In case Bidder is unsuccessful, this Integrity Pact shall expire after six month from the date of the signing of this Integrity Pact.

16.2 Should one or several provisions of this Integrity Pact turn out or be invalid, the remainder of this Integrity Pact shall remain valid. In this case the Parties will strive to come to an agreement to their original intentions.

The Parties hereto sign this Integrity Pact on the day, month and year and at the place mentioned herein below.

For National Housing Bank (Authorised Signatory) Place: Date: <u>Witness</u> 1. _____ _____ (Name & Address) 2. _____ _____ (Name & Address)	For Bidder (Authorised Signatory) Place: Date: <u>Witness</u> 1. _____ _____ (Name & Address) 2. _____ _____ (Name & Address)
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(* provisions of these clauses would need to be amended /deleted in line with the policy of NHB in regard to involvement of Indian agents of foreign suppliers.)

Blade Chassis - 2 Qty		
S.No	Hardware	Make & Model : Any Brand
1	Form Factor	Min. 8 Blade Servers Rack mount, max 10U including chassis switching
2	Blade Chassis	Should support 2CPU & 4CPU x86 blade servers
		Same enclosure should support Intel Platinum, Gold, Silver or equivalent blade servers.
		Should support Hot Pluggable & Redundant Management Modules with onboard KVM functionality.
		Should provide a high performance, reliability and availability design in the blade enclosure.
		Should be able to accommodate the blade servers, SAS storage, IO switches within the chassis of specifications mentioned in the proposed blade enclosure
		Support simultaneous remote access for different servers in the enclosure.
3	Interconnect	Should support simultaneous housing of FCoE (Converged Switch), Ethernet, FC interconnect fabrics offering Hot Pluggable & Redundancy as a feature. The chassis switch should provide the following uplinks: Ethernet - 4 x 10G base T, 8 x 10G SFP+ ports and 4 x 32Gbps FC ports per switch for uplink connectivity There should be two switches in redundancy within chassis for FC traffic and ethernet traffic
4	Power Supply	The enclosure should be populated fully with power supplies and should support N + N redundancy configuration, where N is greater than 1.
5	Cooling	Each blade enclosure should have a cooling subsystem consisting of redundant hot pluggable fans or blowers enabled with technologies for improved power consumption and acoustics.
6	System Software	Management / Controlling Soft have to be from the OEM.
7	Remote Management	Must provide a remote management functionality to operate the server in both in-band and out-of-band. Must be part of the server without the need to install any additional hardware or software.
		Must have a real time Virtual KVM functionality and be able to perform a remote Power sequence.
		Must have the ability for multiple administrators across remote locations to collaborate on the remote session in a server with multiple sessions even in server powered OFF mode.
8	Power Management	Must be able to show the actual power usage and actual thermal measurement data of the servers.
9	High Availability	100% High Availability should be provided for LAN Switching and SAN Switching

Blade Server - 12 Qty

S.No	Hardware	Clause
1	Form factor	Should support 2CPU x86 blade servers
2	CPU	Latest Intel Icelake Silver Series Family Processors
3	CPU Frequency	Min 2.4 GHz clock speed
4	Cores	Min 16 cores per CPU
5	No. of CPU	2 sockets need to be populated from day 1 (2 x 16 cores 2.4 GHz clock speed proc)
6	Chipset	Latest server class compatibility chipset
7	Cache	Min. 24 MB L3 Cache scalable or equivalent or higher (As per the Intel CPU requirement)
8	Memory	128GB DDR4-2667 Mhz or Higher
9	Memory Expandability	Expandable to Max. 1 TB
10	Memory slot	16 DIMMs per CPU
11	Hard disk Drive	2 x 900 GB SAS Drives.
12	Hard disk drive slot	Min. 2 Hot plug HDD SFF SAS/SSD/SATA drive bays
13	Storage controller	Integrated PCIe 3.0 based hardware RAID controller with Min 1GB cache with capacitor based backup and should support RAID 0 , 1 & 1+0
14	Network controller & HBA card	Each blade server should offer minimum one converged network adapter.It should catre to meet 50G aggregate (2 x 25G) bandwidth with capability of NIC partitioning for (25G) bandwidth with capability of NIC partitioning for Ethernet and 2 x 16G GC for SAN traffic.
15	PCI slots	Min. 2 PCIe 3.0 slot
16	I/O interface	Min.1 USB port & Min.1 management port
17	Graphics	Integrated VGA controller; 4GB Shared memory with Management controller
18	Remote Management	<p>System remote management should support browser based graphical remote console and virtual power button</p> <p>Should be possible to manage servers and get access to critical information about the health of the server from any remote location with just the help of a standard web browser</p> <p>Remote boot using USB / CD / DVD drive and should be capable to offer upgrade of software and patches from a remote client using Media/ Image / Folder server power capping and historical reporting should have support for authentication</p> <p>Should be possible to remotely manage each blade server individually</p> <p>Server should support access rights for administrators for each blade server individually</p> <p>Server should support agentless management using out-of-band remote management port instead of OS and SNMP port in the OS. This will enable zero downtime updates</p> <p>The server should support features which monitors and records changes in the server hardware and system configuration</p>
19	Server Management	The system management software should provide role based security
20		The server management software should be of the OEM makes as of the server supplier
21		Should support scheduled execution of OS Commands, batch files, scripts and command line apps on the remote nodes
22		Should help to proactively identify out-of-date BIOS, drivers and server management agents and enable the remote update of system software/firmware components
23		Should help provide proactive notification of actual or impending component failure alerts on critical components like CPU, Memory and HDD.
24		Should support automatic event handling that allows configuring policies to notify failures via email or SMS gateway or automatic execution of scripts
25		Should be able to perform comprehensive system data collection and enable users to quickly produce detailed inventory reports for managed devices

S.No	Hardware	Clause
26		Should support the reports to be saved in HTMS,CSV or XML format
27		Should be compatible to industry standard enterprise monitoring & management tools
28	Security	<p>Boot password, Power-on password, serial interface control, Administrator's password, TPM 2.0, UEFI, Cryptographically signed firmware</p> <ul style="list-style-type: none"> • Silicon Root of Trust • Secure Boot • System Lockdown for systems in production • System Erase • Persistent event logging including user activity • Dynamically enabled / disable USB ports (security features should be provided. OEM / should provide relevant datasheet & publicly accessible web page detailing the same.)
29	Compliance	Microsoft Logo certifications, USB 3.0 support, IEEE (specific IEEE standards depending on Ethernet adapter card(s) installed), PCIe 3.0 Compliant , TPM 2.0 support, SSL 2.0, Active Directory v1.0, ACPI 4.0 or above compliant, IPMI 2.0, Secure Digital 2.0, Advanced Encryption Standard (AES), Triple Data Encryption Standard (3DES), SNMP, ASHRAE A3, DMTF Systems Management Architecture for Server Hardware Command Line Protocol (SMASH) or equivalent
30	Operating System	Microsoft Windows 2019 Std Edition
31	Virtualization Software Support	Vmware. Microsoft Hyper-V. Red Hat KVM
32	Power Cord	Male & Female Type Power Cord

SAN Storage - 1 Qty

S. No.	Make: HITACHI;
1	The offered storage should be a unified storage and should be configured with Block (SAN) workloads from day one. The storage should have dual redundant Symmetric Active-Active Controllers architecture where a single LUN should be accessible (read and write) by both the controllers simultaneously.
2	The Storage Systems should be Enterprise Class Storage System and supplied with minimum 17 TiB usable Base-2 capacity (14 TB Usable for data and 3 TB usable for Journal Volumes) using 1.2 TB 10K SAS or higher drives on RAID-5 or RAID-6. In case if Journal volumes are not required, then entire 17 TiB should be provided in same Pool. Capacity Scalability: Offered storage should be scalable to 5PB Raw capacity or higher.
3	Performance: Offered storage must be scalable to 6,00,000 IOPS or higher.
4	The proposed storage should also support 800GB SSD /Flash / FMD or Higher capacity, SAS disks: 600GB or higher capacity and NL-SAS disks : 4TB or higher Capacity
5	The supported disks should be dual ported with minimum 6Gbps or higher full-duplex data transfer capability
6	The Storage should be scalable to at least 180 disk drives or higher on the same set of controllers.
7	Protocols supported = FC, iSCSI
8	The Storage should support Industry Standard RAID Groups like RAID 5, RAID 6 and RAID1.
9	Storage System should have multiple Global Hot Spares. One Hot spare disk should be provided for every 30 Disk Drives.
10	Storage should have minimum 8 x 16 Gbps FC Ports and 4 x 10 Gbps Base-T iSCSI Ports for host connectivity and replication.
11	Storage should have minimum 8 x 12Gbps Backend SAS Lanes/Links with overall 96 Gbps Backend Throughput for Disk connectivity.
12	The storage system should have minimum 128 GB or higher DRAM Cache on the same set of proposed dual controllers. Only write cache must be mirrored. In case both read and write cache gets mirrored, additional cache should be provided in order to achieve cache of 128 GB (read write ratio to be considered = 70:30). Cache memory should be delivered on DRAM, any other device or HDD should not be considered as cache. The control overhead on cache should not be more than 15% of the total cache offered to attain the highest level of usable data cache.
13	The storage should be with No Single Point of Failure (SPOF). All the components should be redundant and hot swappable including power supply, fans, batteries etc. The proposed storage must support non-disruptive replacement of hardware component.
14	The storage must provide non-disruptive firmware/micro code upgrade, device reallocation and configuration changes. The controller of the storage system should not reboot during the firmware or microcode upgrades.
15	The storage system should have support for multi-path configuration for redundant path to connected hosts. Any Licenses (unlimited/frame based) required for this should be provided with Storage. Proposed storage must support native OS multipathing and should also come with its own multipathing software for unlimited hosts/frame based licensing.
16	The storage should have protection of cache data during a power down by destaging the data in cache to non-volatile Disk.
17	The storage should have Virtual/Thin provisioning and traditional raid group provisioning for Storage allocation to hosts.

18	The storage should support dynamic LUN expansion/concatenation while LUN is mounted on the host
19	The proposed storage system should support more than 5000 LUNs or volumes
20	The storage should be able to generate audit logs to record activities including host-initiated actions, physical component changes, attempts blocked by security control.
21	The storage should have LUN masking or equivalent feature to prevent access of a LUN from unauthorized Hosts.
22	The storage should support multiple operating systems such as Windows, Unix, Linux, Solaris etc. on a single port
23	The storage should support clustering solutions such as Microsoft cluster, MS SQL cluster, SUN Solaris cluster, Linux cluster etc.
24	The storage should support application consistent copies for major Database like Oracle, MS-SQL, My-SQL, DB2 etc.
25	Storage should support VMware vStorage API for Array Integration including but not limited to VAAI, VVOL, VASA etc..
26	The storage should be supplied with Storage management, virtual/thin provisioning, Snapshots, Clones, Remote replication copy (sync and Async both) software to meet the technical requirements. Remote replication, snapshots with restores and clones license to be supplied for Unlimited capacity on the new storage.
27	The proposed Storage for DR site must be compatible with existing storage for the storage based replication. It should be able to support 0-RPO with the existing storage using synchronous replication and near zero RPO with the existing storage using the asynchronous storage replication. Any additional hardware and software required for storage based replication (for both new and existing storage) including capacity, ports and licenses should be provided.
28	Storage Management Features
a	Storage management software should be browserbased/ web enabled accessible over IP
b	Storage management s/w should have roles based access for user accounts to the storage system.
c	The storage should be configured with controller based encryption feature for data security.
d	Storage management software should provide interface/wizards to perform configuration operations like create LUNs present LUNs to host, set LUN attributes etc.
e	Storage management software should be able to perform and monitor local and remote replication operations
f	Storage management software should be able to configure and manage tiering and auto-tiering
g	Storage management software should be able to monitor alerts
29	Remote Replication features
a	The storage should support both Synchronous and Asynchronous Data Replication to remote site. The licenses for the same should be included from day one.
b	The replication solution should support up to 4096 volume pairs for remote replication or more.
30	The offered storage vendor should be placed in the leader's quadrant of the latest Gartner's report.
31	Storage must be provided with 24x7x365 days onsite support from OEM for 3 Years. The Onsite Support Warranty should be provided by OEM (not backline support from the partners).

32	<p>Storage must be configured with On-premise performance monitoring and reporting tool which gives the utilization report for storage in a single window. The performance monitoring must include storage space utilization, storage throughput, IOPS, read/write response time, read/write ratio etc. This software must be capable of historical performance reporting and utilization reports for storage. The storage management software must provide real-time and historical (at least 36 months) performance monitoring.</p> <p>The required software/tool should come with minimum 20 Node license to integrate with proposed storage, servers/O.S. and SAN switches to perform quicker troubleshooting (identify bottlenecks) in case of performance issues.</p> <p>If licensed separately, the vendor needs to provide all the necessary licenses for entire offered capacity.</p>
33	<p>Proposed Storage must be configured with Hardware Controller based data-at-rest encryption or using SED Drives. It should have its own internal key management capabilities and should also support external key management solutions as well. It should also offer the flexibility to enable encryption on selected pools/Raid Groups/Volumes while keeping the encryption disabled on other pools/Raid Groups/Volumes.</p>
34	<p>Proposed storage must have in-built software feature for the lockable snapshots of block data for recovery from cyber incidents like Ransomware or for recovery from manual user errors like accidental LUN / snapshot deletion.</p>
35	<p>Additional hardware and software (3 TiB Usable capacity on SAS 10K RPM HDD using RAID-5 for Journal Volumes, 4 x 10G Base-T Ports for replication and Remote Replication licenses etc.) on the existing storage should be provided for the replication to the DR storage.</p>

SAN Switch - 2 Qty

S. No.	Specification
1	The bidder must propose 2 x SAN Switches. Each switch must have 8 x 16 Gbps Active Ports with licenses and SFP modules..
2	The SAN Switch should support complete non-blocking architecture scalable upto minimum 32 ports in a single domain concurrently full duplex and with no oversubscription. It must support 16 Gbps and 32 Gbps SFPs for future upgradability.
3	The switch should support auto-sensing 4, 8 and 16 Gbps capabilities.
4	Port licensing to start with 8 ports. Upgrade in 8 port license in incremental fashion must be available.
5	The switch shall support different port types such as D Port, F _Port, M_Port(Mirror Port), EX Port and E_Port; selfdiscovery based on switch type (U_Port);
6	The switch should be rack mountable in 1RU form factor
7	Performance wise it should be scalable to deliver 1024 Gbps or higher of actual FC throughput with non-blocking architecture
8	The switch should protect SAN and End devices from corrupted frames (inbuilt CRC and Slow Drain detection and Mitigation)
9	The switch must be equipped with congestion control mechanisms such that it is able to throttle back traffic away from a congested link.
10	The switch must be capable of creating multiple hardware-based isolated Virtual Fabric (ANSI T11) instances. Each Virtual Fabric instance within the switch should be capable of being zoned like a typical SAN and maintains its own fabric services, zoning database, Name Servers and FSPF processes etc. for added scalability and resilience
11	The switch should support Diagnostic Ports (D_Ports) functionality.
12	Switch management, the management software must support both Fabric wide and Device level management without the additional purchase of software.
13	The switch must be able to load balance traffic through an aggregated link with Source ID and Destination ID. The support for load balancing utilizing the Exchange ID must also be supported.
14	Offered SAN switch shall support services such as Quality of Service (QoS) to help optimize application performance in consolidated, virtual environments. It should be possible to define high, medium and low priority QOS zones to expedite high-priority traffic
15	The switch using FSPF protocol, the switch must be able to load balance up to 16 equal cost paths across the SAN network
16	The switch should have USB port which should be able to provision the switch in addition to storing log files, firmware images and configuration
17	The switch should support Power On Auto Provisioning (POAP) to automate software image upgrades and configuration file installation on newly deployed switches. Additionally, it provides intelligent diagnostics, protocol decoding, network analysis tools for added reliability, faster problem resolution, and reduced service costs.
18	The switch must have dual redundant power supplies and fans for resiliency.
19	The proposed switches must be compatible with the existing switches for ISL. Also the proposed switches must be compatible with the proposed and existing storage systems, and must be approved by the storage OEM for the same.

20

Switches must be provided with 24x7x365 days onsite support from OEM for 3 Years. The Onsite Support Warranty should be provided by OEM (not backline support from the partners).

Annexure III

Reserve Price for Buy Back				
S. No.	Category	No. of Items	Proposed Reserve Price (₹)	Total (₹)
1	Desktop	98	1,000	98,000
2	Display	1	500	500
3	Kindle	3	500	1,500
4	Laptop	17	1,500	25,500
5	Printer	44	500	22,000
6	Projector	2	500	1,000
7	Scanner	5	500	2,500
8	Smartphone	4	500	2,000
9	Tablet	9	500	4,500
10	UPS	12	500	6,000
11	Servers/Systems	31	5,000	1,55,000
12	Firewall	6	2,500	15,000
13	Rack	3	1,000	3,000
14	Switch	3	500	1,500
15	Others (Hard Disk, Bluetooth Headset, Cables, Chargers etc.)	35	Hard Disk (500)	28,700
		112	Other items (100)	
Total Reserve Price for all items				3,66,700

Buy Back Assets

S. No.	Type of Asset	Capitalizati on date	Asset description	Reserve Price (in ₹)
1.	Desktop	27/09/2012	HP Pro 3330 Intel Core i5	1,000
2.	Desktop	27/09/2012	HP Pro 3330 Intel Core i5	1,000
3.	Desktop	27/09/2012	HP Pro 3330 Intel Core i5	1,000
4.	Desktop	19/08/2013	HP P-62355IL	1,000
5.	Desktop	08/01/2014	Lenovo All in One M92Z	1,000
6.	Desktop	08/01/2014	Lenovo All in One M92Z	1,000
7.	Desktop	08/01/2014	Lenovo All in One M92Z	1,000
8.	Desktop	08/01/2014	Lenovo All in One M92Z	1,000
9.	Desktop	08/01/2014	Lenovo All in One M92Z	1,000
10.	Desktop	08/01/2014	Lenovo All in One M92Z	1,000
11.	Desktop	08/01/2014	Lenovo All in One M92Z	1,000
12.	Desktop	08/01/2014	Lenovo All in One M92Z	1,000
13.	Desktop	08/01/2014	Lenovo All in One M92Z	1,000
14.	Desktop	08/01/2014	Lenovo All in One M92Z	1,000
15.	Desktop	08/01/2014	Lenovo All in One M92Z	1,000
16.	Desktop	08/01/2014	Lenovo All in One M92Z	1,000
17.	Desktop	08/01/2014	Lenovo All in One M92Z	1,000
18.	Desktop	08/01/2014	Lenovo All in One M92Z	1,000
19.	Desktop	08/01/2014	Lenovo All in One M92Z	1,000
20.	Desktop	08/01/2014	Lenovo All in One M92Z	1,000
21.	Desktop	08/01/2014	Lenovo All in One M92Z	1,000
22.	Desktop	08/01/2014	Lenovo All in One M92Z	1,000
23.	Desktop	08/01/2014	Lenovo All in One M92Z	1,000
24.	Desktop	08/01/2014	Lenovo All in One M92Z	1,000
25.	Desktop	08/01/2014	Lenovo All in One M92Z	1,000
26.	Desktop	08/01/2014	Lenovo All in One M92Z	1,000
27.	Desktop	08/01/2014	Lenovo All in One M92Z	1,000
28.	Desktop	08/01/2014	Lenovo All in One M92Z	1,000
29.	Desktop	08/01/2014	Lenovo All in One M92Z	1,000
30.	Desktop	08/01/2014	Lenovo All in One M92Z	1,000
31.	Desktop	08/01/2014	Lenovo All in One M92Z	1,000
32.	Desktop	08/01/2014	Lenovo All in One M92Z	1,000
33.	Desktop	08/01/2014	Lenovo All in One M92Z	1,000
34.	Desktop	08/01/2014	Lenovo All in One M92Z	1,000
35.	Desktop	08/01/2014	Lenovo All in One M92Z	1,000
36.	Desktop	08/01/2014	Lenovo All in One M92Z	1,000
37.	Desktop	08/01/2014	Lenovo All in One M92Z	1,000

S. No.	Type of Asset	Capitalizati on date	Asset description	Reserve Price (in ₹)
38.	Desktop	08/01/2014	Lenovo All in One M92Z	1,000
39.	Desktop	08/01/2014	Lenovo All in One M92Z	1,000
40.	Desktop	08/01/2014	Lenovo All in One M92Z	1,000
41.	Desktop	24/01/2014	HP 3330MT Corei5	1,000
42.	Desktop	31/03/2013	Lenovo All in One M92Z	1,000
43.	Desktop	31/03/2014	Lenovo All in One M92Z	1,000
44.	Desktop	31/03/2014	Lenovo All in One M92Z	1,000
45.	Desktop	31/03/2014	Lenovo All in One M92Z	1,000
46.	Desktop	31/03/2014	Lenovo All in One M92Z	1,000
47.	Desktop	31/03/2014	Lenovo All in One M92Z	1,000
48.	Desktop	30/06/2014	Dell Optiplex 9020 All in One (core i5)	1,000
49.	Desktop	30/06/2014	Dell Optiplex 9020 All in One (core i5)	1,000
50.	Desktop	30/06/2014	Dell Optiplex 9020 All in One (core i5)	1,000
51.	Desktop	30/06/2014	Dell Optiplex 9020 All in One (core i5)	1,000
52.	Desktop	30/06/2014	Dell Optiplex 9020 All in One (core i5)	1,000
53.	Desktop	30/06/2014	Dell Optiplex 9020 All in One (core i5)	1,000
54.	Desktop	30/06/2014	Dell Optiplex 9020 All in One (core i5)	1,000
55.	Desktop	30/06/2014	Dell Optiplex 9020 All in One (core i5)	1,000
56.	Desktop	30/06/2014	Dell Optiplex 9020 All in One (core i5)	1,000
57.	Desktop	30/06/2014	Dell Optiplex 9020 All in One (core i5)	1,000
58.	Desktop	30/06/2014	Dell Optiplex 9020 All in One (core i7)	1,000
59.	Desktop	30/06/2014	Dell Optiplex 9020 All in One (core i7)	1,000
60.	Desktop	30/06/2014	Dell Optiplex 9020 All in One (core i7)	1,000
61.	Desktop	27/07/2015	HP ELITEOne 800 G1 AIO 23"	1,000
62.	Desktop	27/07/2015	HP ELITEOne 800 G1 AIO 23"	1,000
63.	Desktop	27/07/2015	HP ELITEOne 800 G1 AIO 23"	1,000
64.	Desktop	27/07/2015	HP ELITEOne 800 G1 AIO 23"	1,000
65.	Desktop	19/08/2015	HP 440G1	1,000
66.	Desktop	19/08/2015	HP 440G1	1,000
67.	Desktop	19/08/2015	HP 440G1	1,000
68.	Desktop	19/08/2015	HP 440G1	1,000
69.	Desktop	15/01/2016	HP 400G1	1,000
70.	Desktop	15/01/2016	HP 400G1	1,000
71.	Desktop	15/01/2016	HP 400G1	1,000
72.	Desktop	19/08/2015	HP 440G1	1,000
73.	Desktop	19/08/2015	HP 440G1	1,000
74.	Desktop	19/08/2015	HP 440G1	1,000
75.	Desktop	19/08/2015	HP 440G1	1,000
76.	Desktop	31/12/2015	APPLE iMAC	1,000

S. No.	Type of Asset	Capitalizati on date	Asset description	Reserve Price (in ₹)
77.	Desktop	15/01/2016	HP EliteOne 800G2	1,000
78.	Desktop	15/01/2016	HP EliteOne 800G2	1,000
79.	Desktop	15/01/2016	HP EliteOne 800G2	1,000
80.	Desktop	15/01/2016	HP 400G1	1,000
81.	Desktop	15/01/2016	HP 400G1	1,000
82.	Desktop	15/01/2016	HP 400G1	1,000
83.	Desktop	15/01/2016	HP 400G1	1,000
84.	Desktop	15/01/2016	HP 400G1	1,000
85.	Desktop	15/01/2016	HP 400G1	1,000
86.	Desktop	15/01/2016	HP 400G1	1,000
87.	Desktop	15/01/2016	HP 400G1	1,000
88.	Desktop	15/01/2016	HP 400G1	1,000
89.	Desktop	15/01/2016	HP 400G1	1,000
90.	Desktop	15/01/2016	HP 400G1	1,000
91.	Desktop	15/01/2016	HP 400G1	1,000
92.	Desktop	21/04/2016	HP PRO ONE 600 G2	1,000
93.	Desktop	21/04/2016	HP PRO ONE 600 G2	1,000
94.	Desktop	21/04/2016	HP PRO ONE 600 G2	1,000
95.	Desktop	21/04/2016	HP PRO ONE 600 G2	1,000
96.	Desktop	21/04/2016	HP PRO ONE 600 G2	1,000
97.	Desktop	21/04/2016	HP PRO ONE 600 G2	1,000
98.	Desktop	21/04/2016	HP PRO ONE 600 G2	1,000
99.	Display	27/12/2011	SAMSUNG LED 40" TV	500
100.	Kindle	08/02/2013	Kindle DX 3G	500
101.	Kindle	08/02/2013	Kindle DX 3G	500
102.	Kindle	08/02/2013	Kindle DX 3G	500
103.	Laptop	20/03/2015	NOTEBOOK HP 440G2 COREI7	1,500
104.	Laptop	20/03/2015	NOTEBOOK HP 440G2 COREI7	1,500
105.	Laptop	20/03/2015	NOTEBOOK HP 440G2 COREI7	1,500
106.	Laptop	02/06/2015	MSI GT72QE DOMINATOR CORE i7	1,500
107.	Laptop	31/03/2016	DELL LATITUDE 3460	1,500
108.	Laptop	31/03/2016	DELL LATITUDE 3460	1,500
109.	Laptop	31/03/2016	DELL LATITUDE 3460	1,500
110.	Laptop	31/03/2016	DELL LATITUDE 3460	1,500
111.	Laptop	31/03/2016	DELL LATITUDE 3460	1,500
112.	Laptop	14/12/2016	DELL LATITUDE 3470 CTO	1,500
113.	Laptop	14/12/2016	DELL LATITUDE 3470 CTO	1,500
114.	Laptop	14/12/2016	DELL LATITUDE 3470 CTO	1,500
115.	Laptop	13/06/2017	DELL LATITUDE 3480	1,500

S. No.	Type of Asset	Capitalizati on date	Asset description	Reserve Price (in ₹)
116.	Laptop	13/06/2017	DELL LATITUDE 3480	1,500
117.	Laptop	31/03/2018	DEll Latitude 3480	1,500
118.	Laptop	31/03/2018	DEll Latitude 3480	1,500
119.	Laptop	18/01/2017	APPLE MACBOOK PRO	1,500
120.	Printer	29/06/2012	HP LJ P2055DN PRINTER	500
121.	Printer	22/04/2013	HP Officejet Pro 8600	500
122.	Printer	22/04/2013	HP Officejet Pro 8600	500
123.	Printer	22/04/2013	HP Officejet Pro 8600	500
124.	Printer	22/04/2013	HP Officejet Pro 8600	500
125.	Printer	22/04/2013	HP Officejet Pro 8600	500
126.	Printer	19/12/2013	HP Laser Jet 3015 DN	500
127.	Printer	19/12/2013	HP Laser Jet 3015 DN	500
128.	Printer	19/12/2013	HP Laser Jet 3015 DN	500
129.	Printer	19/12/2013	HP Laser Jet 3015 DN	500
130.	Printer	19/12/2013	HP Laser Jet 3015 DN	500
131.	Printer	19/12/2013	HP Laser Jet 3015 DN	500
132.	Printer	19/12/2013	HP Laser Jet 3015 DN	500
133.	Printer	19/12/2013	HP Laser Jet M 401 DN	500
134.	Printer	19/12/2013	HP Laser Jet M 401 DN	500
135.	Printer	19/12/2013	HP Laser Jet M 401 DN	500
136.	Printer	19/12/2013	HP Laser Jet M 401 DN	500
137.	Printer	19/12/2013	HP Laser Jet M 401 DN	500
138.	Printer	19/12/2013	HP Laser Jet M 401 DN	500
139.	Printer	24/01/2014	HP Officejet Pro 8600 Plus E All in One	500
140.	Printer	10/03/2014	HP LJ Pro 400M401dn	500
141.	Printer	10/03/2014	HP LJ Pro 400M401dn	500
142.	Printer	10/03/2014	HP LJ Pro 400M401dn	500
143.	Printer	10/03/2014	HP 8600 Printer	500
144.	Printer	10/03/2014	HP 8600 Printer	500
145.	Printer	10/03/2014	HP 8600 Printer	500
146.	Printer	29/10/2015	HP Officejet Pro 8620 Plus E All in One	500
147.	Printer	29/10/2015	HP Officejet Pro 8620 Plus E All in One	500
148.	Printer	29/10/2015	HP Officejet Pro 8620 Plus E All in One	500
149.	Printer	29/10/2015	HP Officejet Pro 8620 Plus E All in One	500
150.	Printer	29/10/2015	HP Officejet Pro 8620 Plus E All in One	500
151.	Printer	29/10/2015	HP Officejet Pro 8620 Plus E All in One	500
152.	Printer	29/10/2015	HP Officejet Pro 8620 Plus E All in One	500
153.	Printer	29/10/2015	HP Officejet Pro 8620 Plus E All in One	500
154.	Printer	29/10/2015	HP Officejet Pro 8620 Plus E All in One	500

S. No.	Type of Asset	Capitalizati on date	Asset description	Reserve Price (in ₹)
155.	Printer	17/11/2015	HP Color Laser Jet Pro CP5225n Printer	500
156.	Printer	22/04/2016	HP LJ PRO 400M401dn	500
157.	Printer	22/04/2016	HP LJ PRO 400M401dn	500
158.	Printer	22/04/2016	HP LJ PRO 400M401dn	500
159.	Printer	22/04/2016	HP LJ PRO 400M401dn	500
160.	Printer	22/04/2016	HP LJ PRO 400M401dn	500
161.	Printer	22/04/2016	HP LJ PRO 400M401dn	500
162.	Printer	29/10/2015	HP Officejet Pro 8620 Plus E All in One	500
163.	Printer	29/10/2015	HP Officejet Pro 8620 Plus E All in One	500
164.	Projector	09/06/2016	RICOH ULTRA-SHORT THROW PROJECTOR	500
165.	Projector	09/06/2016	RICOH ULTRA-SHORT THROW PROJECTOR	500
166.	Scanner	07/02/2014	Kodak Scanner I2900 Duplex	500
167.	Scanner	07/02/2014	Kodak ScannerI2900 Duplex	500
168.	Scanner	21/07/2014	MINDEO MS 3390 MOBILE SCANNER	500
169.	Scanner	24/08/2015	Hardware HP Digital Sender Flow 8500Fn1	500
170.	Scanner	24/08/2015	Hardware HP Digital Sender Flow 8500Fn1	500
171.	Smartph one	16/09/2015	Mobile_Samsung Galaxy A8_	500
172.	Smartph one	21/07/2017	Apple iPhone 7 Plus - 128 GB	500
173.	Smartph one	16/03/2018	Pixel XL 2 358035084579311	500
174.	Smartph one	16/03/2018	Apple iPhone X	500
175.	Tablet	09/12/2015	Apple iPad Air 2-128GB	500
176.	Tablet	09/01/2017	APPLE IPAD AIR 2 CELLULAR 128 GB	500
177.	Tablet	18/09/2017	Apple Ipad 9.7"-128 GB	500
178.	Tablet	31/12/2017	APPLE Ipad Pro 10.5" 256 GB	500
179.	Tablet	31/12/2017	APPLE Ipad Pro 10.5" 256 GB	500
180.	Tablet	31/12/2017	APPLE Ipad Pro 10.5" 256 GB	500
181.	Tablet	31/12/2017	APPLE Ipad Pro 10.5" 256 GB	500
182.	Tablet	09/01/2017	APPLE IPAD AIR 2 CELLULAR 128 GB	500
183.	Tablet	09/01/2017	APPLE IPAD AIR 2 CELLULAR 128 GB	500
184.	UPS	06/09/2010	UPS 650 VA	500
185.	UPS	27/11/2012	Power Supply Unit for IBM E Server Blade Center	500
186.	UPS	27/11/2012	Power Supply Unit for IBM E Server Blade Center	500
187.	UPS	09/06/2014	UPS Frontech 600VA	500

S. No.	Type of Asset	Capitalizati on date	Asset description	Reserve Price (in ₹)
188.	UPS	09/06/2014	UPS Frontech 600VA	500
189.	UPS	26/06/2014	APC Power Module_SYMIM5	500
190.	UPS	27/06/2014	APC Int Module_SYPM4KI	500
191.	UPS	27/06/2014	APC Int Module_SYPM4KI	500
192.	UPS	30/06/2014	UPS-600V A	500
193.	UPS	02/09/2014	Intex UPS Bhopal RO	500
194.	UPS	20/10/2014	20 KVA UPS	500
195.	UPS	15/02/2016	UPS- APC Symmetra PX 16KW	500
196.	Server	29/08/2008	SERVER IBM X 3650	5,000
197.	Server	29/08/2008	SERVER IBM X 3650	5,000
198.	Server	29/08/2008	SERVER IBM X 3650	5,000
199.	Server	29/08/2008	SERVER IBM X 3650	5,000
200.	Server	19/02/2009	SERVER IBM X 3650	5,000
201.	Server	20/02/2009	IBM SYSTEM X3650 with accessories	5,000
202.	Server	23/05/2011	IBM Server x3650 M3 With Accessories	5,000
203.	Server	09/05/2012	DELL POWER EDGE R-610 SERVER	5,000
204.	Server	09/05/2012	DELL POWER EDGE R-610 SERVER	5,000
205.	Server	09/05/2012	DELL POWER EDGE R-610 SERVER	5,000
206.	Server	09/05/2012	DELL POWER EDGE R-610 SERVER	5,000
207.	Server	09/05/2012	DELL POWER EDGE R-610 SERVER	5,000
208.	Server	09/05/2012	DELL POWER EDGE R-610 SERVER	5,000
209.	Server	15/05/2012	DELL POWER EDGE R-610 SERVER	5,000
210.	Server	15/05/2012	DELL POWER EDGE R-610 SERVER	5,000
211.	Server	15/05/2012	DELL POWER EDGE R-610 SERVER	5,000
212.	Server	10/09/2014	Two Factor Authentications Server	5,000
213.	Server	10/09/2014	Two Factor Authentications-Hard Token	5,000
214.	Server	14/08/2012	BLADE SERVER HS 22_IBM E-SERVER BLADE CENTER(TM) C	5,000
215.	Server	14/08/2012	BLADE SERVER HS 22_IBM E-SERVER BLADE CENTER(TM) C	5,000
216.	Server	14/08/2012	BLADE SERVER HS 22_IBM E-SERVER BLADE CENTER(TM) C	5,000
217.	Server	14/08/2012	BLADE SERVER HS 22_IBM E-SERVER BLADE CENTER(TM) C	5,000
218.	Server	14/08/2012	BLADE SERVER HS 22_IBM E-SERVER BLADE CENTER(TM) C	5,000
219.	Server	31/03/2012	DELL RACKSERVER	5,000
220.	Server	31/03/2012	DELL RACKSERVER	5,000
221.	Server	31/03/2012	DELL RACKSERVER	5,000
222.	Server	31/03/2012	DELL RACKSERVER	5,000
223.	Server	31/03/2012	DELL RACKSERVER	5,000

S. No.	Type of Asset	Capitalizati on date	Asset description	Reserve Price (in ₹)
224.	Server	31/03/2012	DELL RACKSERVER	5,000
225.	Server	14/08/2012	BLADE SERVER HS 22 IBM E-SERVER BLADE CENTER(TM) C	5,000
226.	Server	14/08/2012	BLADE SERVER HS 22 IBM E-SERVER BLADE CENTER(TM) C	5,000
227.	Switch	22/08/2008	CISCO 1841 MODULAR ROUTER	500
228.	Switch	22/12/2007	CISCO CATALYST 2950C 24 SWITCH	500
229.	Switch	30/06/2016	ATEN CS1316 16 PORT KVM SWITCH WITH CABLE	500
230.	Rack	23/05/2011	Server/Network Rack 24 U	1,000
231.	Rack	10/06/2014	Blade Chassis with 10U Rack to house 16 Blade	1,000
232.	Rack	03/08/2012	24U Network Rack in Server Room	1,000
233.	Firewall	31/03/2009	CISCO Security Firewall ASA5510	2,500
234.	Firewall	13/11/2013	Hardware Support-Firewall- Sl.No.JMX1023K0DT	2,500
235.	Firewall	13/11/2013	Hardware Support-IPS Module- Sl.No.JAF112204A7	2,500
236.	Firewall	13/11/2013	Hardware Support-Firewall- Sl.No.JMX1248I21E	2,500
237.	Firewall	13/11/2013	Hardware Support-Firewall- Sl.No.JMX1322L0ET	2,500
238.	Firewall	01/11/2007	CISCO Firewall ASA5505	2,500
239.	Others	20/07/2009	D Link Patch Channel	100
240.	Others	20/07/2009	APW President 6U Wall Mount Rack	100
241.	Others	18/09/2012	Dell 16GB RDIMMs 1333 MHz	100
242.	Others	18/09/2012	Dell 16GB RDIMMs 1333 MHz	100
243.	Others	18/09/2012	Dell 16GB RDIMMs 1333 MHz	100
244.	Others	18/09/2012	Dell 16GB RDIMMs 1333 MHz	100
245.	Others	18/09/2012	Dell 16GB RDIMMs 1333 MHz	100
246.	Others	18/09/2012	Dell 16GB RDIMMs 1333 MHz	100
247.	Others	18/09/2012	Dell 16GB RDIMMs 1333 MHz	100
248.	Others	18/09/2012	Dell 16GB RDIMMs 1333 MHz	100
249.	Others	18/09/2012	Dell 16GB RDIMMs 1333 MHz	100
250.	Others	18/09/2012	Dell 300GB 10K RPM-2.5"-Hot Plug	100
251.	Others	18/09/2012	Dell 300GB 10K RPM-2.5"-Hot Plug	100
252.	Others	18/09/2012	Dell 300GB 10K RPM-2.5"-Hot Plug	100
253.	Others	18/09/2012	Dell 300GB 10K RPM-2.5"-Hot Plug	100
254.	Others	18/09/2012	Dell 300GB 10K RPM-2.5"-Hot Plug	100
255.	Others	18/09/2012	Dell 300GB 10K RPM-2.5"-Hot Plug	100
256.	Others	18/09/2012	HBA Card IBM Blade Server HS 22	100
257.	Others	18/09/2012	HBA Card IBM Blade Server HS 22	100

S. No.	Type of Asset	Capitalizati on date	Asset description	Reserve Price (in ₹)
258.	Others	18/09/2012	HBA Card_IBM Blade Server HS 22	100
259.	Others	18/09/2012	HBA Card_IBM Blade Server HS 22	100
260.	Others	18/09/2012	HBA Card_IBM Blade Server HS 22	100
261.	Others	18/09/2012	HBA Card_IBM Blade Server HS 22	100
262.	Others	18/09/2012	HBA Card_IBM Blade Server HS 22	100
263.	Others	06/12/2012	Patch Cord	100
264.	Others	06/12/2012	Patch Cord	100
265.	Others	06/12/2012	Patch Cord	100
266.	Others	06/12/2012	Patch Cord	100
267.	Others	19/12/2012	Patch Cord LC-LC_(Fiber Cable)-Ommx-25 Mts	100
268.	Others	19/12/2012	Patch Cord LC-LC_(Fiber Cable)-Ommx-25 Mts	100
269.	Others	19/12/2012	Patch Cord LC-LC_(Fiber Cable)-Ommx-25 Mts	100
270.	Others	24/01/2013	BHDCI-68 Pin Cable	100
271.	Others	24/01/2013	Hitachi HDD	100
272.	Others	24/01/2013	Hitachi HDD	100
273.	Others	24/01/2013	Hitachi HDD	100
274.	Others	24/01/2013	Hitachi HDD	100
275.	Others	24/01/2013	Hitachi HDD	100
276.	Others	24/01/2013	Hitachi HDD	100
277.	Others	24/01/2013	Hitachi HDD	100
278.	Others	24/01/2013	8 GB SFP + SW Optic Tran Receiver	100
279.	Others	24/01/2013	8 GB SFP + SW Optic Tran Receiver	100
280.	Others	24/01/2013	8 GB SFP + SW Optic Tran Receiver	100
281.	Others	24/01/2013	8 GB SFP + SW Optic Tran Receiver	100
282.	Others	24/01/2013	8 GB SFP + SW Optic Tran Receiver	100
283.	Others	24/01/2013	8 GB SFP + SW Optic Tran Receiver	100
284.	Others	24/01/2013	8 GB SFP + SW Optic Tran Receiver	100
285.	Others	24/01/2013	8 GB SFP + SW Optic Tran Receiver	100
286.	Others	24/01/2013	8 GB SFP + SW Optic Tran Receiver	100
287.	Others	24/01/2013	8 GB SFP + SW Optic Tran Receiver	100
288.	Others	24/01/2013	8 GB SFP + SW Optic Tran Receiver	100
289.	Others	24/01/2013	8 GB SFP + SW Optic Tran Receiver	100
290.	Others	24/01/2013	SFP for SAN Switch 4 GBPS Fibre Channel SW SFP,LC	100
291.	Others	24/01/2013	SFP for SAN Switch 4 GBPS Fibre Channel SW SFP,LC	100
292.	Others	24/01/2013	SFP for SAN Switch 4 GBPS Fibre Channel SW SFP,LC	100

S. No.	Type of Asset	Capitalizati on date	Asset description	Reserve Price (in ₹)
293.	Others	24/01/2013	SFP for SAN Switch 4 GBPS Fibre Channel SW SFP,LC	100
294.	Others	24/01/2013	SFP for SAN Switch 4 GBPS Fibre Channel SW SFP,LC	100
295.	Others	24/01/2013	SFP for SAN Switch 4 GBPS Fibre Channel SW SFP,LC	100
296.	Others	24/01/2013	SFP for SAN Switch 4 GBPS Fibre Channel SW SFP,LC	100
297.	Others	24/01/2013	SFP for SAN Switch 4 GBPS Fibre Channel SW SFP,LC	100
298.	Others	24/01/2013	SFP for SAN Switch 4 GBPS Fibre Channel SW SFP,LC	100
299.	Others	24/01/2013	SFP for SAN Switch 4 GBPS Fibre Channel SW SFP,LC	100
300.	Others	24/01/2013	SFP for SAN Switch 4 GBPS Fibre Channel SW SFP,LC	100
301.	Others	24/01/2013	SFP for SAN Switch 4 GBPS Fibre Channel SW SFP,LC	100
302.	Others	24/01/2013	SFP for SAN Switch 4 GBPS Fibre Channel SW SFP,LC	100
303.	Others	24/01/2013	SFP for SAN Switch 4 GBPS Fibre Channel SW SFP,LC	100
304.	Others	24/01/2013	SFP for SAN Switch 4 GBPS Fibre Channel SW SFP,LC	100
305.	Others	08/02/2013	Brackets	100
306.	Others	25/02/2013	Patch Cord LC-LC (fibre Cable)	100
307.	Others	26/02/2013	Patch Cord LC-LC (fibre Cable)-15MTR	100
308.	Others	26/02/2013	Patch Cord LC-LC_(fibre Cable)-Ommx-15 Mtr	100
309.	Others	01/03/2013	USB Hard Disk	500
310.	Others	12/03/2013	Hard Disk	500
311.	Others	12/03/2013	Hard Disk	500
312.	Others	25/04/2013	Cable 68 Pin-BHDCI	100
313.	Others	25/04/2013	HP DVD_S.NO._6f8222402384-3734208342	100
314.	Others	25/04/2013	HP DVD_S.NO._6f8222402385-3734208342	100
315.	Others	21/05/2013	Transend 1TB Hard Disk	500
316.	Others	09/12/2013	BHDCI -68 Pin Server Cable	100
317.	Others	27/12/2013	2TB Hard Disk- External USB	500
318.	Others	22/01/2014	2TB Hard Disk- External USB	500
319.	Others	04/02/2014	Hitachi Modular 600GB SAS 15K RPM HDD	100
320.	Others	04/02/2014	Hitachi Modular 600GB SAS 15K RPM HDD	100
321.	Others	04/02/2014	Hitachi Modular 600GB SAS 15K RPM HDD	100

S. No.	Type of Asset	Capitalizati on date	Asset description	Reserve Price (in ₹)
322.	Others	04/02/2014	Hitachi Modular 600GB SAS 15K RPM HDD	100
323.	Others	04/02/2014	Hitachi Modular 600GB SAS 15K RPM HDD	100
324.	Others	04/02/2014	Hitachi Modular 600GB SAS 15K RPM HDD	100
325.	Others	04/02/2014	Hitachi Modular 600GB SAS 15K RPM HDD	100
326.	Others	13/03/2014	T P LINK ROUTER 3040	100
327.	Others	06/05/2014	Temperature/Humidity Monitoring System-TCP-IP	100
328.	Others	30/06/2014	1TB EXT USB HARD DISK_REF ID_IT REG_4074	500
329.	Others	30/06/2014	D-LINK 8 PORT SWITCH GB (100/100)	100
330.	Others	30/06/2014	D-LINK 8 PORT SWITCH GB (100/100)	100
331.	Others	30/06/2014	D-LINK 8 PORT SWITCH GB (100/100)	100
332.	Others	30/06/2014	D-LINK 8 PORT SWITCH GB (100/100)	100
333.	Others	30/06/2014	D-LINK 8 PORT SWITCH GB (100/100)	100
334.	Others	30/06/2014	D-LINK 8 PORT SWITCH GB (100/100)	100
335.	Others	30/06/2014	Linkers WIFI Router Model - F-900	100
336.	Others	30/06/2014	Computer Network Accessories (Temperature/Humidity)	100
337.	Others	25/07/2014	1 TB EXTERNAL USB Hard Disk-SEAGATE	500
338.	Others	30/07/2014	1 TB EXTERNAL USB Hard Disk-SEAGATE	500
339.	Others	30/07/2014	1 TB EXTERNAL USB Hard Disk-SEAGATE	500
340.	Others	30/07/2014	1 TB EXTERNAL USB Hard Disk-SEAGATE	500
341.	Others	30/07/2014	1 TB EXTERNAL USB Hard Disk-SEAGATE	500
342.	Others	30/07/2014	1 TB EXTERNAL USB Hard Disk-SEAGATE	500
343.	Others	30/07/2014	1 TB EXTERNAL USB Hard Disk-SEAGATE	500
344.	Others	30/07/2014	1 TB EXTERNAL USB Hard Disk-SEAGATE	500
345.	Others	30/07/2014	1 TB EXTERNAL USB Hard Disk-SEAGATE	500
346.	Others	30/07/2014	1 TB EXTERNAL USB Hard Disk-SEAGATE	500
347.	Others	30/07/2014	1 TB EXTERNAL USB Hard Disk-SEAGATE	500
348.	Others	30/07/2014	1 TB EXTERNAL USB Hard Disk-SEAGATE	500

S. No.	Type of Asset	Capitalizati on date	Asset description	Reserve Price (in ₹)
349.	Others	30/07/2014	1 TB EXTERNAL USB Hard Disk-SEAGATE	500
350.	Others	30/07/2014	1 TB EXTERNAL USB Hard Disk-SEAGATE	500
351.	Others	30/07/2014	1 TB EXTERNAL USB Hard Disk-SEAGATE	500
352.	Others	30/07/2014	1 TB EXTERNAL USB Hard Disk-SEAGATE	500
353.	Others	30/07/2014	1 TB EXTERNAL USB Hard Disk-SEAGATE	500
354.	Others	30/07/2014	1 TB EXTERNAL USB Hard Disk-SEAGATE	500
355.	Others	30/07/2014	1 TB EXTERNAL USB Hard Disk-SEAGATE	500
356.	Others	30/07/2014	1 TB EXTERNAL USB Hard Disk-SEAGATE	500
357.	Others	30/07/2014	1 TB EXTERNAL USB Hard Disk-SEAGATE	500
358.	Others	30/07/2014	1 TB EXTERNAL USB Hard Disk-SEAGATE	500
359.	Others	30/07/2014	1 TB EXTERNAL USB Hard Disk-SEAGATE	500
360.	Others	30/07/2014	1 TB EXTERNAL USB Hard Disk-SEAGATE	500
361.	Others	30/07/2014	1 TB EXTERNAL USB Hard Disk-SEAGATE	500
362.	Others	30/07/2014	1 TB EXTERNAL USB Hard Disk-SEAGATE	500
363.	Others	21/07/2014	DYMO LABEL PRINTER LW 450DUO	100
364.	Others	21/07/2014	DYMO LABEL PRINTER LW 450DUO	100
365.	Others	29/01/2015	VC Trolley	100
366.	Others	29/01/2015	VC Trolley	100
367.	Others	29/01/2015	VC Trolley	100
368.	Others	29/01/2015	VC Trolley	100
369.	Others	09/02/2015	HARD DISK - WD ULTRA 1TB	500
370.	Others	09/02/2015	HARD DISK - WD ULTRA 1TB	500
371.	Others	03/09/2015	PANASONIC PANABOARD 61WITH STAND_HARD WARE	100
372.	Others	08/12/2015	HARdware - 1GB RAM CISCO	100
373.	Others	08/12/2015	HARdware - 1GB RAM CISCO	100
374.	Others	08/12/2015	HARdware - 1GB RAM CISCO	100
375.	Others	08/12/2015	HARdware - 1GB RAM CISCO	100
376.	Others	09/06/2016	VISUAL PRESENTER(4533) Hardware	100
377.	Others	27/09/2007	APC LCD Monitor/KB Console	100

S. No.	Type of Asset	Capitalizati on date	Asset description	Reserve Price (in ₹)
378.	Others	27/09/2007	APC SURT 6000 UXI UPS	100
379.	Others	28/11/2011	CC Camera and Accessories for DR Site	100
380.	Others	11/09/2012	HP 23" LED TFT Monitor	100
381.	Others	11/09/2012	HP Cordless Mouse, Keyboard and power cord	100
382.	Others	26/09/2012	Seagate 1 TB External USB HDD	100
383.	Others	17/09/2014	2 GB DDR2 Additional RAM	100
384.	Others	31/08/2015	Sony Portable Charger and USB Apple Iphone	100
385.	Others	04/03/2016	Jabra Sport Pace Bluetooth Headset	100
Total				366,700