

PUNJAB NATIONAL BANK



(Open Tender)

Request for Proposal (RFP)

For

**SUPPLY, INSTALLATION, IMPLEMENTATION
AND MAINTENANCE OF HYPER-
CONVERGED INFRASTRUCTURE & ADD ON
COMPONENTS**

Punjab National Bank
Information Technology Division
Head Office, 5 Sansad Marg,
New Delhi - 110 001
Tel: (011)-23710021
Extn: 159, 230

DISCLAIMER

The information contained in this Request for Proposal Document (RFP Document) or subsequently provided to Bidder/s, whether verbally or in documentary form by or on behalf of the Punjab National Bank or any of their representatives, employees or advisors (collectively referred to as — Bank Representatives), is provided to Bidder(s) on the terms and conditions set out in this RFP Document and any other terms and conditions subject to which such information is provided. This document shall not be transferred, reproduced or otherwise used for purpose other than for which it is specifically issued.

This RFP Document is not an agreement and is not an offer or invitation by the Bank Representatives to any party other than the entities who are qualified to submit their Proposal (Bidders). The purpose of this RFP Document is to provide the Bidder with information to assist the formulation of their Proposal. This RFP Document does not purport to contain all the information each Bidder may require. This RFP Document may not be appropriate for all persons, and it is not possible for the Bank Representatives, their employees or advisors to consider the investment objectives, financial situation and particular needs of each party who reads or uses this RFP Document.

The Bank, its employees and advisors make no representation and shall have no liability to any person, including any Applicant or Bidder under any law, statute, rules or regulations or tort, principles of restitution or unjust enrichment or otherwise for any loss, damages, cost or expense which may arise from or be incurred or suffered on account of anything contained in this RFP or otherwise, including the accuracy, adequacy, correctness, completeness or reliability of the RFP and any assessment, assumption, statement or information contained therein or deemed to form or arising in any way for participation in this bidding process. The Bank also accepts no liability of any nature whether resulting from negligence or otherwise, howsoever caused arising from reliance of any Bidder upon the statements contained in this RFP.

The Bidder is expected to examine all instructions, forms, terms and specifications in the bidding Document. Failure to furnish all information required by the bidding Document or to submit a Bid not substantially responsive to the bidding Document in all respect will be at the Bidder's risk and may result in rejection of the Bid.

The Bank Representatives may in their absolute discretion, but without being under any obligation to do so, update, amend or supplement the information in this RFP Document.

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GENERAL TENDER DETAILS

RFP FOR SUPPLY, INSTALLATION, IMPLEMENTATION AND MAINTENANCE OF HYPER-CONVERGED INFRASTRUCTURE & ADD ON COMPONENTS		
1.	Date of commencement of Bidding Process.	11/10/2019
2.	Last date and time for sale of Bidding Documents	31/10/2019 upto 1600 Hrs
3.	Last date and time for receipt of queries from bidders for Clarifications	14/10/2019 upto 1700 Hrs
4.	Date of Pre-Bid Meeting	16/10/2019 at 1500 Hrs
5.	Last date and time for Hash submission	31/10/2019 upto 1600 Hrs
6.	Last date and time for online bid submission/Bid Re-Encryption	From 31/10/2019 1701 Hrs to 01/11/2019 1400 Hrs
7.	Time for submission of technical supporting document (Hard Copy)	From 31/10/2019 1701 Hrs to 01/11/2019 1400 Hrs
8.	Date and Time of Technical Bid Opening	01/11/2019 at 1600 Hrs
9.	Place of Submission of Bids	Asstt. General Manager Punjab National Bank, IT Procurement Department, I.T. Division, HO: 5 Sansad Marg, New Delhi 110 001
10.	Place of opening of Bid	Punjab National Bank, Information Technology Division, 2nd floor, HO, 5 Sansad Marg, New Delhi – 110 001
11.	Address for communication	As above Tel:- (011)23710483 23710021 Ext: 159, 230 Fax:- (011) 23321305
12.	Cost of RFP	Rs. 5,000/-+ 18 % GST*(Non-refundable) should be submitted online only in favour of Punjab National Bank before last date of bid submission in the following account: IFSC Code: PUNB0399900 Bank & Branch: Punjab National Bank, Sansad Marg, New Delhi -110 001 Account No. 0153002200175673 (16 digits) Imprest account – HO IT Division *MSE bidder is exempted from payment of cost of RFP if bidder can furnish requisite proof subject to the satisfaction of Bank.
13.	Earnest Money Deposit	Rs. 40.00 lacs* should be submitted online or in the form of Bank Guarantee (BG) before last date of bid submission in favour of Punjab National Bank, IT Division payable at New Delhi. BG should be valid up to 12 months from the date of submission of bid with claim period of another 12 months. IFSC Code: PUNB0015300 Bank & Branch: Punjab National Bank, Sansad Marg, New Delhi -110 001 Account No. 0153002100572949 (16 digits)

		Imprest account – HO IT Division *MSE bidder is exempted from payment of Earnest Money Deposit if bidder can furnish requisite proof subject to the satisfaction of Bank.
14.	Contact to Bidders	Interested Bidders are requested to send the email to sandeep_k@pnb.co.in , rohitraina@pnb.co.in , containing following information, so that in case of any clarification, the same may be issued to them: (a)Name of Bidder, (b)Contact person, (c)Mailing address with Pin Code,(d)Telephone No., Fax No., Mobile No.(e) e-mail etc.

NOTE

1. All the interested Bidders, who have not registered earlier with e-procurement site(<https://etender.pnbnet.in>), would have to register with our e-procurement site. Bidders to ensure to get themselves registered timely, atleast two working days before the Hash submission date, to avoid last moment issues.
2. Bidders are advised to go through Bidders Manual available on <https://etender.pnbnet.in> for registration and submission of tenders. If approval of registration is pending at Bank's end, Bidders should immediately contact Bank's Helpdesk on telephone No. 011-23765468 or email us at eprocurement@pnb.co.in
3. Bidders are required to strictly submit their bids in electronic form using the e-procurement system at <https://etender.pnbnet.in> by using their digital certificates of class II and above (both encryption and signing). Bidders are advised to keep digital certificates(or tokens) ready at time of submission of bid. Use of Digital Certificate is mandatory for participation in e-tendering process. Bidders should ensure that Digital token has not expired or corrupted at the time of e-tendering process.
4. Bidders are advised to go through Bidders Manual for Browser settings and Java settings required for participation in the bid. Follow each & every step mentioned in Bidder Manual. If bidder still faces any problem, he/she should immediately contact Bank Helpdesk on telephone No. 011-23765468 or email us at eprocurement@pnb.co.in.
5. Bids received after closing of the bid in the e-procurement system will be auto-rejected by the system. Please note that HASH SUBMISSION and BID RE-ENCRYPTION is a mandatory activity, failing which Bank will not accept the hardcopy of Technical bid.
6. The Indicative commercial bids is to be submitted online only.
7. Bidders should submit bids well before time rather than waiting for last moment to avoid any technical glitches or networking issues etc at their end.
8. If bidder is shortlisted to participate in Reverse Auction (RA), Demo for Reverse Auction will be conducted a day before RA, if bidder requests for the same. Further, Demo for Reverse Auction will only be provided to bidders who have accepted the Base price (i.e. Terms & Conditions of the reverse auction).
9. If bidder is participating in the Reverse Auction, it is advised that Bidders place their bids well before time rather than waiting for auction end time to avoid any last minute glitches (or any network issues or internet response issues etc) occurring at Bidder's end. Bidders may keep refreshing auction page to ensure that they are connected to HCI Solution (via internet).

10. Bidders are requested to use a reliable internet connection (data cable/ broad band) to safeguard themselves. Bank is not responsible for telephone line glitch, internet response issues, hardware hangs etc., at bidder's end.
11. If Bidders have any queries, they may call us at Helpdesk Telephone No 011-23765468 from 10.00 am to 05.00 pm (except Sundays and Bank holidays).

1. INTRODUCTION:

Punjab National Bank (PNB) has taken many IT initiatives. Bank has Computerized 100% of its branches and has implemented a Centralized Banking Solution (CBS) with Data Centre at New Delhi and Disaster Recovery Site at Mumbai. The centralized Banking Solution covers all the 7000 plus SOLs (Service Outlets), which are connected to the Data Centre and DRS through an Enterprise Wide Network which is a two tier meshed architecture. The mode of connectivity to the branches/offices is a combination of Leased Lines, ISDN Lines, MPLS, VSATs, Radio Links and other forms of connectivity, which may emerge in the near future.

Bank has also implemented Security Operation Centre (SOC) and integrated the HCI Solutions / devices for log analysis and monitoring of HCI Solutions / devices installed across the Bank network. Bank has implemented Enterprise Data Warehouse Project to provide better access to information, to foster better and more informed decision-making, besides providing statutory reporting and MIS for the Bank.

The Enterprise Wide Network is maintained by Bank's Network Integrator and the security measures are already enforced at various levels (Application Security, Network Security, Database Security, OS Security, Access Controls, Physical Security etc.). All these security measures are in place in congruence with the Bank's Information Security Policy, Business Continuity & Disaster Recovery Plans & various other regulatory compliances.

2. PURPOSE OF THE PROJECT:

The purpose of this RFP is to invite technically complete and commercially competitive proposals from reputed manufacturers/authorized representatives for **Supply, Installation, Configuration, commissioning and Maintenance of servers & add on components of Hyper Converged technology to build a Hyper-Converged Infrastructure** as per Scope of work and Technical Specifications given in this RFP, at DC Delhi & if required at DRS (currently in Mumbai) or any other alternate sites as per the Bank's requirement on ongoing basis during the empanelment period.

Punjab National Bank invites bids (Technical bid and Commercial bid) from eligible bidders for Supply, Installation and Maintenance of Centralized HCI Solution at DC & if required at DRS (currently in Mumbai) or any other alternate sites as per requirements mentioned in the RFP. This invitation of Bids is open to all Original Equipment Manufacturers (OEMs) having presence in India or their Authorized Representative in India, provided bidders fulfill the minimum qualification criteria as mentioned in bid document (Annexure-III). **Joint bid will not be accepted by Bank.**

In addition to the requirement for PNB, the selected bidder may also be required to supply, if required, the hardware to Bank's subsidiaries, its sponsored RRBs and any of its existing or future subsidiaries/entities or in case of merger with any other organization at the same rate and same terms and conditions.

Please note that any deviations mentioned in the bid will not be considered and evaluated by the Bank. Bank reserve the right to reject the bid, if bid is not submitted in proper format as per RFP.

3. SCOPE OF WORK:

1. To supply, commission, install, implement, test, configure and maintain the HCI Solutions and add on components, at various locations identified by the Bank, initially with 2 clusters at DC site as per below mentioned details:

Sl. No.	Particular	Requirement (Usable) with technical Specifications Mentioned in Annexure- XI (Redundancy node & overheads to be taken care by Bidder during sizing)
1	Cluster Configuration	96 Cores, 2.6 TB RAM & 50 TB Storage with all other hardware including accessories & software components required for HCI Solution with minimum 1,00,000 IOPS (Input/Output Operations Per Second) Per Node at 8k block size and response time less than 2 millisecond

2. The HCI solution must support the features and functionalities as mentioned in the Annexure-XI – Technical Specification.

3. The proposed hyper-converged infrastructure should support virtualized application environments and should maximize the benefits of virtualization. It should be designed to provide the best density, flexibility and performance in a virtual setup.

4. The proposed solution must have capability to support & handle minimum 16 fully populated nodes & 16 compute only/storage only/ mixture of both types of nodes (compute only & storage only) in one cluster must have built in redundancy for servers, storage etc. to ensure High Availability without any Data Loss.

5. The proposed solution must be under single OEM (Original Equipment Manufacturer) support comprising of software and hardware. Bidder has to clearly inform the Bank about the same and submit the detailed BOM along with the bid document.

6. The successful bidder will also coordinate with Bank's teams and provide the necessary assistance for successful installation, integration, maintenance and functioning of application.

7. Bidder should specify various infrastructure requirements well in advance before delivery of hardware & software which need to be provided for commissioning and smooth functioning of the equipment. This will include site requirements, power requirements, cables, connectors, network requirements, UPS, environmental conditions, illumination etc., so that Bank can arrange accordingly at the desired premises.

8. The accessories of HCI solution (including Rack, cables, rack mounting kit, Power strip in the rack etc.) required for the installation and configuration of the equipment will also be supplied by the successful Bidder. Bank will not arrange for the same.

9. Successful bidder will configure inbuilt storage of Hyper-Converged Infrastructure/inbuilt Network/Compute with High Availability and Optimize resources by leveraging a metering capability at some level of abstraction appropriate to the type of service (e.g. Storage, processing, bandwidth and active user accounts) to obtain optimum performance level. The resource usage should be monitored, controlled and reported to HCI admin through single central management console.

10. Successful Bidder has to customize reports as per the requirement of the Bank through Central Management Console.

11. Bank will have periodic review of technology. Successful bidder will supply the models approved as per technical aspects. In case any of the models becomes end of support during entire contract period, then Successful bidder will provide the latest model available at no extra cost to Bank without disruption in performance of services/applications.

12. Successful bidder has to undertake BIOS upgrade, Version Upgrade of software provided by Bidder for this solution, wherever the requirement is felt by the Bank. AMC/ATS would cover maintenance patches/bug fixes (available from the original software successful bidder) for system software, other software's provided by the bidder & firmware patches/bug fixes, if any ordered for HCI infrastructure. The bidder has to perform the necessary changes in the configuration i.e. Hardening and/or changes directed by security team & audit team of the Bank after security audits like VAPT, Code Audit etc.

13. During the Contract Period, in case there is hardware failure three or more times in a period of less than three (6) months, then it shall be replaced by equivalent or higher-level new equipment by the Successful bidder at no cost to the Bank.

14. The bidder shall Plan & Design the Architecture services from the OEM. The entire hardware and software supplied under this RFP must be installed and configured by OEM only & OEM has to submit a report indicating compliance to reference architecture and best practices. The bidder to make necessary arrangement for the same and Bank will not pay any additional cost for implementation/configuration by OEM

15. Successful bidder has to provide comprehensive on-site seven-year AMC & ATS for complete HCI Solutions & add on components. Parts/items/components delivered for the proposed solution as per specification in this RFP should be covered under comprehensive AMC&ATS. Bidder has to provide maintenance support to equipment and arrange for spare parts for a minimum period of 7 years for HCI Solutions from the date of its supply to our Bank. For that Bidder should have Back-to-Back agreement with OEM.

16. The successful bidder has to ensure on-site support for resolving all Hardware, storage, software related issues, including re-installation, reconfiguration of OS and other required software for the proposed solution, during AMC (Annual Maintenance Contract)/ATS (Annual Technical Support) period (or such other extended period as per the contract terms and Conditions).

17. If any Software and Hardware updates are provided by the OEM free of cost, it should be installed & configured by the successful bidder during AMC & ATS period without any additional cost to the Bank.

18. Bidder has to guarantee minimum uptime of **99.95% quarterly** for the Solution during contract period and shall execute service level agreement for the same.

19. During the contract period, bidder has to pass on the benefit of discount / reduction in prices/ Govt. duties, if any, to the Bank voluntarily. Any increase in the excise duty by the Government will be accordingly adjusted.

20. The Bank reserves the right to shift the equipment to a suitable location depending upon the need. The Bidder will arrange to uninstall, shift the equipment, re-install, configure and commission the same at the shifted location and making the entire system operational without any additional cost to Bank, however, Bank will bear the transportation charges and transit insurance.

21. All related documents, manuals, catalogues and information furnished by the bidder shall become the property of the Bank. Detailed process documentation, and SOP's (Standard Operating Procedure) should be submitted before project signoff.
22. Bank may opt for Audit through third party Authorized Agency or by the Bank officials for the supplied hardware and Software. Successful bidder is required to coordinate with the Bank Officials & Audit agency execute relevant test cases.
23. The bidder will also supply TOR (Top of Rack) Ethernet switches of 48 ports 10 Gbps each along with 4 uplink ports of 10G & 2 uplink ports of 40G at each site for which order will be placed. The switch must be minimum L2 and must support minimum 9000 MTU (Maximum Transmission Unit).
24. The bidder shall provide licenses for all software components proposed in the solution and should be in name of Bank.
25. The HCI solution should support 3rd party Enterprise Backup Solution of all leading OEM's, and there should not be any negative performance impact on the VM's during the Backup even if Bank takes the Backup in business hours. Currently Bank have Dell EMC's Data Protection Suite with Backup Appliance: DD9300.
26. For backup if any license is required, it must be bundled with each HCI nodes proposed without any extra cost to Bank.
27. There should not be any single point of failure of any type of hardware & software at any time during the contract period.
28. Dedicated Ports for HCI traffic, VM traffic and Backup traffic must be there in the proposed solution with redundancy.
29. If there is any gap in interpretation of Bank's requirement and bidder/OEM understanding for proposed solution, it will be the responsibility of Bidder/OEM to fill up the gap on time without any extra cost to Bank during implementation of Project/AMC/ATS.

Other conditions:

- a. Bank reserves right to cancel the contract at any time in case system fails to meet any of the requirements as mentioned in the RFP.
- b. No right to employment in the Bank shall accrue or arise, at any point of time under this project.
- c. Bank reserves the right to change the Successful bidder with three months' notice to the concerned person of the Company.
- d. A detailed agreement will be done with the successful bidder specifying roles and responsibilities.
- e. The offered solution shall be subject to Bank's audit through off-site and on-site scrutiny at any time during the contract period. The auditors may be internal/ external. The successful bidder should provide solution and implementation for all the audit points raised by Bank's internal/external team during the contract period without any extra cost.
- f. Obtaining Road permits or any other document for delivery of the material till Bank's premises will be the sole responsibility of the successful bidder (successful bidder). The successful bidder (successful bidder) shall arrange road permit for locations applicable at no extra cost to the Bank. However, Bank will sign the necessary forms as purchaser, as per the requirements.

INSTRUCTION TO BIDDERS

1. POWER OF ATTORNEY/ AUTHORIZATION LETTER OR RESOLUTION COPY

In case of company, Board Resolution in favor of Authorized Person and Power of Attorney/Authorization letter (from authorized person executed on stamp paper of appropriate value), in case the authorized person delegates authority to another person of the company to sign the Bid documents, is to be submitted with bid documents.

2. COST OF BIDDING

The Bidder shall bear all the costs associated with the preparation and submission of their bid and Punjab National Bank, hereinafter referred to as “Purchaser” or “Bank”, will in no case be responsible or liable for these costs, regardless of the conduct or outcome of the bidding process.

3. BIDDING DOCUMENT

The Bidder is expected to examine all instructions, forms, terms and conditions in the Bidding Documents. Failure to furnish all information required by the Bidding Documents or submission of a bid not substantially responsive to the Bidding Documents in every respect will be at the Bidders’ risk and may result in the rejection of its bid without any further reference to the bidder. **Bidder should submit the bid strictly as per RFP failing which bid will be treated as non-responsive and will be liable for rejection.**

4. LANGUAGE OF BIDS

The bids prepared by the bidder and all correspondence and document relating to the bids exchanged by the bidder and PNB, shall be written in English.

5. AUTHENTICATION OF ERASURES/ OVERWRITING ETC.

Any inter-lineation, erasures or overwriting shall not be valid and it will lead to rejection of bid without quoting any reason.

6. AMENDMENT OF BIDDING DOCUMENTS

At any time prior to the last Date and Time for submission of bids, the Bank may, for any reason, modify the Bidding Documents through amendments at the sole discretion of the Bank. All amendments shall be uploaded on the Bank’s websites (www.pnbindia.in and <https://etender.pnbnet.in>) and will be binding on all those who are interested in bidding. In order to provide prospective Bidders a reasonable time to take the amendment if any, into account in preparing their bid, the Bank may, at its discretion, extend the deadline for submission of bids. Bidders are required to go through the any subsequent amendment/Corrigendum/clarifications meticulously and submit their queries, if any, at least 2 working days before the bid submission date to avoid any last minute issues.

7. VALIDITY OF BID DOCUMENT

Bid shall remain valid for 12 months from last date of submission of bid prescribed by PNB. A bid valid for shorter period shall be rejected by the purchaser as non-responsive.

8. LATE BID

Any bid received by the Bank after the deadline for submission of bid will be rejected.

9. BID CURRENCY

Prices shall be expressed in the Indian Rupees only.

10. BID EARNEST MONEY

Bidder has to submit the Bid Earnest Money (EMD) of **Rs. 40.00 lacs**(MSE bidder is exempted from payment of Earnest Money Deposit if bidder can furnish requisite proof subject to the satisfaction of Bank), which should be submitted in the form of online deposit or Bank Guarantee (BG) favoring PUNJAB NATIONAL BANK, IT DIVISION New Delhi and filling all the details as per specified Annexure-XIV. The BG should have a validity of 12 months from the date of submission of bid with claim period of another 12 months. The BG/ details of EMD should be submitted at the time of bid submission.

In case of unsuccessful bidder, EMD will be returned within one month of disqualification (Technically/Commercially) or within one month of completion of tender process, as the case will be and no interest will be payable on EMD amount. The EMD will be returned to the successful bidder upon submission of Performance Bank Guarantee and no interest will be payable on EMD amount.

Details for online payment:

IFSC Code: PUNB0015300

Bank & Branch: Punjab National Bank, Sansad Marg, New Delhi -110001

Account No. 0153002100572949 (16 digits) Imprest account – HO IT Division

(Proof of the transaction (printout) to be submitted along with the bid documents).

11. BIDDING PROCESS (TWO STAGES)

For the purpose of the present job, a two stage bidding process will be followed. The response to the present tender will be submitted in two parts:

- Technical bid
- Commercial bid

The bidders will have to submit the technical bid in Banks e-procurement system as well as in hard copy and commercial bids in only online form through Bank's e-procurement system. All documents/letters, addressed to the Bank, should be submitted in Original. (No Photocopies will be acceptable).

a) TECHNICAL BID

The Technical bid must be submitted in hard bound file in a sealed envelope superscribing **"Technical Bid response against RFP FOR SUPPLY, INSTALLATION, IMPLEMENTATION AND MAINTENANCE OF HYPER-CONVERGED INFRASTRUCTURE & ADD ON COMPONENTS"** & also online. Unsealed envelopes will not be accepted. TECHNICAL BID will contain all the supporting documents regarding eligibility criteria, scope of work, Technical aspects, Compliance statement and Terms & Conditions etc. mentioned in the RFP, and **NOT contain any pricing or commercial information at all**. Technical bid documents with any commercial information will be rejected.

In the first stage, only TECHNICAL BIDs will be opened and evaluated. Bids of only those bidders would be evaluated further on Technical parameters who comply with all the eligibility criteria's. Only those bidders confirming compliance to all the terms & conditions of RFP document shall be short-listed for commercial stage.

b) COMMERCIAL BID

In the second stage, the COMMERCIAL BID of only those bidders will be opened, who will comply with all the eligibility criteria's and will confirm compliance to all the terms & conditions of RFP document in the Technical Evaluation Stage. **(Annexure-XI)**

12. Pre-Bid Meeting & Pre-Bid Queries.

Bidders are required to submit pre-bid queries, within the stipulated timelines as given in the General Tender Details, through mail (In excel format only). Bidders are also required to bring hard copy of the same queries on their letter head, duly signed and stamped by their authorized signatory. **Queries not submitted in hard copy will not be responded.**

Sr.No.	RFP Page No.	RFP Clause Name & No.	RFP Clause	Bidder's Query/Suggestion/Remarks

The queries submitted before pre-bid meeting and submitted in hard copy as mentioned above, will only be discussed in the pre-Bid meeting and their subsequent responses will be uploaded onto Bank's websites.

Only two persons per bidder will be allowed to attend the Pre-Bid meeting provided they have authorization letter from competent authority to attend the pre-bid meeting from their company. Bidders attending the pre-bid are also required to submit a copy of their I-card issued by their company.

Bidders are required to go through the RFP and any subsequent Corrigendum's/clarifications meticulously and submit their queries timely to avoid any last minute issues.

13. SUBMISSION OF BID

Bidders are required to strictly submit their bids in electronic form using the e-procurement system at <https://etender.pnbnet.in> by using their digital certificates of **Class II** and above (both encryption and signing). All the interested bidders should register themselves in the e procurement system <https://etender.pnbnet.in> for submitting the bids online, if they have not done earlier. The RFP document and further corrigendum, if any can also be downloaded from Bank's websites www.pnbindia.in & <https://etender.pnbnet.in>. Bids received after closing of the bid in the e-procurement system are summarily rejected without any reason. **The commercial bid should be submitted online only.**

All the Annexures and bid documents are to be uploaded in pdf format during the online bid submission and the same along with technical supporting documents should be submitted manually before the final date & time of bid submission at the following address.

The Assistant General Manager

Punjab National Bank,
IT Procurement Department,
I.T. Division, HO: 5 Sansad Marg,

The hard copy of the technical bid to be submitted should contain all the required annexures in original. Bidder to ensure submission of bid strictly as per the requirement of the RFP. **Kindly do not submit any extra documents/certificate which are not required.** At the time of physical submission of bid, bidder has to show acknowledgement e-mail received after completion of the bid submission in proof of having submitted the bid online.

14. DEADLINE FOR SUBMISSION OF BID

Bids must be submitted not later than the specified date and time mentioned in the Bid Document. If the specified date of submission of bids being declared a holiday for the Purchaser, the bids will be received up to the specified time in the next working day. The Purchaser may, at its discretion, extend this deadline for submission of bids by amending the bid documents, in which case all rights and obligations of the Purchaser and bidders, previously subject to the deadline, will thereafter be subject to the deadline extended. All the correspondence should be addressed to Bank at the following address.

The Assistant General Manager
Punjab National Bank,
IT Procurement Department,
I.T. Division, HO: 5 Sansad Marg,
New Delhi 110 001

Please note that **HASH SUBMISSION and BID RE-ENCRYPTION** is a mandatory activity, failing which bidder will not be able to submit the bid. For details you may visit our e-Procurement Site <https://etender.pnbnet.in>

Kindly also note that hard Copy of Technical Bid will be received only after successful Hash Submission and Online bid Re-encryption.

15. MODIFICATION AND/OR WITHDRAWAL OF BIDS

Bids once submitted will be treated as final and no further correspondence will be entertained on this. No bid will be modified after the deadline for submission of bids. No bidder shall be allowed to withdraw the bid, if bidder happens to be successful bidder. In case of any deviation in the bid submitted in Online portal and the hard copy bid, the one submitted online will be considered and will be evaluated.

16. CONTACTING THE PURCHASER

Any effort by a bidder to influence the Purchaser in evaluation of the purchaser's bid, bid comparison or contract award decision may result in the rejection of the Bidders' bid. Purchaser's decision will be final and without prejudice and will be binding on all parties.

17. TERMS AND CONDITIONS OF THE BIDDING FIRMS

The bidder has to accept all terms and conditions of the Bank and should not impose any of its own conditions upon the Bank. A bidder who does not accept any or all conditions of the Bank shall be disqualified from the selection process at any stage as deemed fit by the Bank.

18. LOCAL CONDITIONS

The bidder must acquaint himself with the local conditions and factors, which may have any effect on the performance of the contract and / or the cost.

19. PURCHASERS RIGHT TO ACCEPT OR REJECT ANY BID OR ALL BIDS

The Purchaser reserves the right to accept or reject any bid and annul the bidding process or even reject all bids at any time prior to award of contract, without thereby incurring any liability to the affected bidder or bidders or without any obligation to inform the affected bidder or bidders about the grounds for the purchaser's action. The Purchaser reserves the right to accept or reject any technology proposed by any bidder.

20. OPENING OF BIDS

The Date, time and location of bid opening is as per the tender schedule. Any change in Date, time or location of bid opening will be communicated to the participating bidders through e-mail. The technical bids will be opened in the presence of representatives of the bidders who choose to attend. In the event of the specified date of bid opening being declared a holiday for purchaser, the bids shall be opened at the specified time and place on next working day.

21. CLARIFICATIONS OF BID

To assist in the examination, evaluation and comparison of bids the purchaser may, at its discretion, ask the bidder for clarification and response shall be submitted in writing, duly signed & stamped by the authorized signatory and no change in the price or substance of the bid shall be sought, offered or permitted. The clarification and response received from bidder will be subsequently part of bid submitted by that bidder.

22. PRELIMINARY EXAMINATION

The Purchaser will examine the bids to determine whether they are complete, whether any computational errors have been made, whether required information have been provided as underlined in the bid document, whether the documents have been properly signed, and whether bids are generally in order.

Arithmetical errors will be rectified as follows:

- If there is any discrepancy in total amount and multiplication of unit rate and Multiplication factor, unit rates will prevail and the total amount shall be recalculated on the basis of Unit rate and multiplication factor.
- If there is any discrepancy between words and figures, the amount in the words will prevail.
- AMC/ATS amount, if asked for in specified range, and quoted under or beyond the specified range, would also be recalculated.

The bid determined as not substantially responsive will be liable for rejection by the purchaser and may not be made responsive by the bidder by correction of the non-conformity. The decision of the Bank in this regard will be final.

The purchaser may waive any minor informality or non-conformity or irregularity in a bid, which does not constitute a material deviation, provided such waiver does not prejudice to affect the relative ranking of any bidder.

23. REVELATION OF PRICES

The prices in any form or by any reasons should not be disclosed in the technical or other parts of the bid except in the indicative commercial bid. Failure to do so will make the bid liable to be rejected.

24. EVALUATION AND AWARD CRITERIA

After opening of the technical bids, all the documents and annexure (except commercial documents/offer) will be evaluated first by the Bank.

First Stage: (Technical Evaluation)

1. Bid document must be submitted in a single hard bound file. (No loose pages must be submitted). **All pages of the Bid Document must be serially numbered and must be signed in Full (no initials) by the authorized signatory and stamped by Bidder's Official seal.** All Annexures must be on the letter head of the Bidder, except those which are to be provided by OEM/CA/third party. All documents, addressed to the Bank, should be submitted in Original. (No Photocopies will be acceptable).
2. All third party documents must be signed by their authorized signatory and his/her designation, Official E-mail ID and Mobile no. should also be evident. Bidder is also required to substantiate whether the person signing the document is authorized to do so on behalf of his company. Inability of the bidder to prove the genuineness/authenticity of any third party document may make the bid liable for rejection.
3. **Technical bid opening will be done in presence of authorized representatives of all the bidders (if they choose to be present) who have submitted technical bid successfully (both online & in Hard Bound File) within the stipulated time lines set by the Bank.**
4. First of all, the RFP Cost and EMD of all bidders will be verified. If any RFP Cost/EMD is not found in order, that bidder will be declared ineligible for further participating in the tender process.
5. After that technical bids will be evaluated based on the eligibility criteria defined in the RFP document. Bids complying with all the eligibility criteria and confirming compliance to all the terms & conditions of RFP document would be further evaluated on technical parameters.
6. Bidders satisfying the technical requirements as determined by the Bank and accepting the terms and conditions of this document shall be short-listed for further process.
7. PNB will determine to their satisfaction whether the bidder selected as having submitted the best evaluated responsive bid is qualified to satisfactorily perform the contract. The decision of PNB will be final in this regard.
8. The determination will take into account bidder's financial, technical and support capabilities as per RFP, based on an examination of documentary evidence submitted by bidders.
9. The Bank reserves the right to accept or reject any product/ item/ technology/ module/ functionality proposed by the bidder without assigning any reason thereof. The Bank also reserves the right to reject any Bid, in case any of the Technical Specification as per **Annexure XI** is not in compliance to Bank's requirement. Decision of the Bank in this regard shall be final and binding on the bidders.

Second Stage: (Commercial Evaluation)

In the second stage, the COMMERCIAL BID of only those bidders will be opened who will comply with all the eligibility criteria and confirm compliance to all the terms & conditions and technical specifications of the RFP document.

1. The commercial bids shall be opened in the presence of shortlisted bidders, if they choose to be present. The intimation of time and place of opening of commercial bids will be informed separately to the shortlisted bidders only. If the shortlisted bidders or their duly authorized representatives are not present, the commercial bids will be opened in their absence. No information regarding the Commercial opening will be provided later to the bidders who did not attend the commercial opening, neither telephonically nor through mail.

2. After opening of commercial bids as above, commercial evaluation & verification of the bids will be done by the Bank. Any arithmetic errors will be rectified as per clause 22-Preliminary Examination.

3. The bidders will be required to quote for all the items required by the Bank.

4. Price Variation Factor

i) "If a bidder quoting higher prices, higher by more than 40% as compared to the average quoted prices (of all technically qualified bidders) for all items in aggregate, the same bidder shall not be called for reverse auction process". If due to such price variation factor, a bidder is not found eligible to be called for reverse auction and only one bidder is left commercially eligible, in such a situation, Bank reserves the right to negotiate with the L1 bidder.

ii) Price variation (both high or low) may also be considered for any particular item i.e. bidder quoting abnormally high or abnormally low prices against any item/s may also be liable for rejection.

5. The L-1 price and L-1 successful bidder for the rate contract will be decided on the basis of least grand total cost derived after conducting reverse auction.

25. REVERSE AUCTION

Bank will hold Reverse Auction in the event of two or more bidders are commercially eligible. Final Item wise price shall be arrived after Reverse Auction. The procedure for the same is available on our e-procurement website. Reverse Auction/s will be conducted on mandatory items only (**Table-A of Indicative Commercial bid format (Annexure XII)**). Base Price, Bid decrement value will be as per Bank's Discretion and will be communicated to all commercially eligible bidders only for seeking acceptance.

It will be mandatory for all the bidders to quote rates of all optional components that are required as per RFP. The rates of optional items will be negotiated with the successful bidder only, if required by Bank.

a. If the commercially eligible bidders do not accept the base price and bid decrement value fixed by the Bank within the stipulated time given by the Bank, in such a situation Bank reserves the right to disqualify that/those bidder(s) from further RFP process.

b. After giving the acceptance by bidder(s) for the base price and decrement value, if the bidder(s) do not login in Bank's E-Auction portal during the Reverse Auction or refuse to participate in Reverse Auction at any time thereafter, then the bidder(s) will automatically get disqualified for further RFP process.

c. During the course of Reverse Auction if eligible bidders accept the base price and do not place any bid below the accepted base price after logging into the Reverse Auction portal, then out of these bidders, the one who has quoted least total price in Table-A of Indicative Commercial bid format (Annexure XII) shall be treated as L1 bidder and Bank reserves the right to further negotiate with L1 bidder and finalize the final prices.

In case of any situation where Bank is left with only one eligible bidder, then Bank reserves the right to negotiate with that bidder and final Item wise price shall be arrived.

26. CONTACTING BANK OR PUTTING OUTSIDE INFLUENCE

Bidders are forbidden to contact Bank or its Consultants on any matter relating to this bid from the time of submission of commercial bid to the time the contract is awarded. Any effort on the part of the bidder to influence bid evaluation process, or contract award decision may result in the rejection of the bid.

27. CANCELLATION OF BID/ BIDDING PROCESS

PNB reserves the right to accept or reject any bid and annul the bidding process and reject all bids at any time prior to award of contract, without thereby incurring any liability to the affected bidder or bidders or any obligation to inform the affected bidder or bidders of the ground for its action.

28. CONFIDENTIALITY

The bidder shall not, without the written consent of the Bank, disclose the contract or any provision thereof, any specification, or information furnished by or on behalf of the Bank in connection therewith, to any person(s).

The bidder shall not, without the prior written consent of the Bank, make use of any document or information except for purposes of performing this agreement.

29. FORCE MAJEURE

Notwithstanding the above provisions, the successful bidder shall not be liable for penalty or termination for default if and to the extent that its delay in performance or other failure to perform its obligations under the contract is the result of an event of force majeure. For purposes of this clause, "force majeure" means an event beyond the control of the bidder and not involving the bidders' fault or negligence and not foreseeable. Such events may include, but are not restricted to, war or revolution and epidemics. If a force majeure situation arises, the bidder shall promptly notify the Bank in writing of such condition and the cause thereof. Unless otherwise directed by the Bank in writing, the bidder shall continue to perform its obligation under the contract as far as is reasonably practical, and shall seek all reasonable alternative means of performance not prevented by the force majeure event.

30. NON DISCLOSURE

By virtue of Contract, as and when it is entered into between the Bank and the successful bidder, and its implementation thereof, the successful bidder may have access to the confidential information and data of the Bank and its customers. The successful bidder will enter into a Non-Disclosure Agreement to maintain the secrecy of Bank's data as per following:-

- That the successful bidder will treat the confidential information as confidential and shall not disclose to any third party. The successful bidder will also agree that its employees, agents, sub-contractors shall maintain confidentiality of the confidential information.
- That the successful bidder will agree that it shall neither use, nor reproduce for use in any way, any confidential information of the Bank without consent of the Bank. That the successful bidder will also agree to protect the confidential information of the Bank with at least the same standard of care and procedures used by them to protect its own confidential Information of similar importance. Without limitation of the foregoing, the successful bidder shall use reasonable efforts to advise the Bank immediately in the event that the successful bidder learns or has reason to believe that any person who has had access to confidential information has violated or intends to violate the terms of the Contract to be entered into between the Bank and the successful bidder, and will reasonably cooperate in seeking injunctive relieve against any such person.
- That if the successful bidder hires another person to assist it in the performance of its obligations under the Contract, or assigns any portion of its rights or delegates any portion of its responsibilities or obligations under the Contract to another person, it shall cause its assignee or delegate to be bound to retain the confidentiality of the confidential information in the same manner as the Bidder is bound to maintain the confidentiality. This clause will remain valid even after the termination or expiry of this agreement.
- That the successful bidder will strictly maintain the secrecy of Bank's data.

TERMS AND CONDITIONS

1. SIGNING OF CONTRACT

The successful bidder(s) shall mandatorily enter into a Service Level Agreement (SLA), Non-Disclosure Agreement (NDA) and integrity Pact (IP) with Bank, within 30 working days of the award of the tender or within such extended period as may be permitted by the Bank. The letter of acceptance and such other terms and conditions as may be determined by the Bank to be necessary for the due performance of the work in accordance with the Bid and the acceptance thereof, with terms and conditions shall be contained in a Memorandum of Understanding to be signed at the time of execution of the Form of Contract. If the contract is not signed within the given period (45 working days*), the EMD will be forfeited after a grace period of 15 working days*.

The bidder has to accept all terms and conditions of the Bank and should not impose any of its own conditions upon the Bank. A bidder who does not accept any or all conditions of the Bank shall be disqualified from the selection process at any stage as deemed fit by the Bank.

Note: working days refers to Bank's working days.

2. DURATION OF CONTRACT

The **Rate contract will be valid for two years from the date of agreement signed with the Bank**, if not revised earlier of all the hardware & software licenses. Bank at its sole discretion may extend the contract for a further period of 1 year or any other period, at the same rate and same terms & conditions, subject to satisfactory performance of successful bidder and mutual agreement on the terms and conditions.

However, total period of contract with the bidder will be **09 years** (2-year RC period plus 7-years AMC/ATS period).

Bank reserves right to cancel the contract at any time in case system fails to meet any of the requirements as mentioned in the RFP

3. PERFORMANCE BANK GUARANTEE

The successful bidder has to submit the Performance Bank Guarantee (PBG), detailed as under:

- a) The successful bidder will have to submit Performance Bank Guarantee amounting to 10 % of Purchase Order within one month of acceptance of purchase order & initially valid for a period of 3 years with claim period of another 12 months, the validity of same will be further extended for period of 3 years with claim period of another 12 months, before 2 months prior to expiry of PBG validity from the date of entering into contract, again the validity of same will be further extended for period of 3 years with claim period of another 12 months, before 2 months prior to expiry of PBG validity earlier submitted, once again the validity of same will be further extended for period of 1 year with claim period of another 12 months, before 2 months prior to expiry of PBG validity earlier submitted. The successful bidder has to ensure the same.
- b) The Bank Guarantee should be issued by any Public Sector Bank or scheduled Commercial Bank other than Punjab National Bank.
- c) The Performance Bank Guarantee will be furnished for due performance of the complete Solution.
- d) In case successful bidder submits any false information or declaration letter during the tender process or period of rate contract, Bank shall invoke the EMD/ Performance Bank Guarantee submitted by the bidder to recover penalty/damages. In case successful bidder fails to

perform the contract, Bank shall invoke the Performance Bank Guarantee to recover penalty/damages.

e) No interest on PBG will be paid by Bank.

4. ACCEPTANCE OF ORDER (ORDER PLACEMENT)

Orders will be placed by the respective HO Division/Department. The successful bidder (successful bidder) shall have to accept and acknowledge orders within 15 working days from the date of order placement. Bank has a right to cancel the order and forfeit the entire EMD amount if the same is not accepted within a period of 15 working days from the date of order, otherwise it will be considered as accepted.

5. NOT ACCEPTANCE/ NON EXECUTION OF ORDER

In case the bidder shortlisted through this RFP process (hereinafter called “successful bidder”) refuses to accept / execute the order, Bank will procure the same from the respective OEM as per existing terms & conditions and rate accepted by OEM. The said successful bidder will have to bear the difference of cost if any of such item / product purchased by Bank from OEM (Bank is having all the rights to recover the difference/ penalty amount from PBG as well as any amount payable to the said successful bidder). Bank also reserves the right to blacklist/debar the said successful bidder in such eventuality without giving any notice thereof in this regard for a period of further three years from the date of blacklisting/debarment.

6. DELIVERY& INSTALLATION

Bidder shall be responsible for delivery and installation of the complete solution (hardware & software both) ordered at both DC & if required at DRS(currently in Mumbai) or any other alternate site as per the Bank's requirement within 6 weeks from the date of Purchase order. Installation means mounting of HCI Solutions in Rack (If any) and “Power-On” all the hardware with all the accessories provided with the hardware. The point of delivery/ destination will be as defined by the Bank in the purchase order.

The date on which the complete system is installed will be taken as the date of installation. In case of part installation of the system, the date of last items installed will be taken as the date of installation.

7. IMPLEMENTATION

Bidder shall be responsible for implementation of complete solution at both DC & if ordered for DRS(currently in Mumbai) or any other alternate site as per the Bank's requirement within 10 weeks from the date of delivery or within 3 months from the date of Purchase Order, whichever is later.

8. ACCEPTANCE TEST

All the delivered hardware items may be subjected to an acceptance test. Successful bidder has to arrange one Engineer at the site at the date and time mentioned by the Bank to assist in the acceptance test.

9. PAYMENT

Payment* will be made as per the following schedule: -

A-Hardware Cost

B-Total Software Cost including all required licenses

C-Implementation Cost including integration

D-OTS Cost

Deliverables	Eligible Amount
Complete Installation of all the required hardware & delivery of all Software including Licenses (Complete BOM at site)	70% of (A+B)
Sign Off of complete solution with all modules/functionalities *	(20% of A) + (20% of B) + (90% of C)
After three months of sign-off	10% of (A+B+C) or immediately on submission of equivalent amount of BG
ATS/AMC	On Half Yearly basis in Advance
OTS (Onsite Technical Support) Cost	On Quarterly basis in arrears

*** Cost of the project and its components shall remain the same during the contract period.**

****Sign off will be given only after successful implementation of the solution & testing for 2 weeks.**

NOTE: 100% of any item is the eligible amount after deduction of Penalty, if any.

In case of delayed delivery or incorrect delivery, then date of receipt of the correct and final component shall be treated as delivery date for penalty and other calculation. Bidder shall quote all the figures in numbers followed by total in words enclosed in brackets in all fields of indicative commercial bid.

Further, the above payments will be released only after submission of PBG and signing of SLA (including Do & Don't), IP and NDA by Successful Bidder.

10. INSURANCE

The hardware/equipment to be supplied under the contract period shall be fully insured till installation of the system 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. All expenses towards insurance shall be borne by the successful bidder.

11. ANNUAL MAINTENANCE CONTRACT (AMC) & ANNUAL TECHNICAL SUPPORT (ATS)

Complete solution supplied should be covered under comprehensive on-site BACK-TO-BACK AMC & ATS for seven years from the date of installation. Bidder should make adequate arrangements with OEM for the same. This includes replacing the faulty component, updating the latest patches of software, re-configuration, redeployment of application (if required), providing latest version (software subscription) of the software/license etc. Definition update / patch update, upgrade would be done by successful bidder immediately for critical updates or on monthly basis for normal updates/upgrades.

The successful bidder shall be fully responsible for the AMC & ATS of all equipment, accessories, spare parts, including that of software items etc. against any defects arising from design, material, manufacturing, workmanship or any act or omission of the manufacturer and/or successful bidder any defect that may develop under normal use of supplied equipment during AMC & ATS period.

AMC & ATS should cover the following at no extra cost to Bank:-

- Service support should be available on 24 x 7 x 365 basis.
- Any issue except hardware failure in the deployed solution should be resolved within 4 hours of receipt of complaint.
- In case of failure of any hardware, replacement should be within 24 hours from the time call is lodged during AMC & ATS. The replacement unit has to be shipped by the OEM & should be compatible with given hardware and the bidder should install and configure the same. Once confirmed by Bank on the successful working of the device, the faulty unit has to be collected by the bidder and delivered to OEM. All charges, including taxes if any, towards replacement has to be borne by the bidder.
- Any corruption in the software or media shall be rectified during the full period of the contract including AMC & ATS.
- AMC & ATS would cover updates/maintenance patches/bug fixes (available from the original software successful bidder) for system software & firmware patches/bug fixes, if any, for hardware.
- The successful bidder should provide on-site preventive maintenance on regular interval i.e. quarterly. However, Yearly preventive maintenance must be done by OEM and report of the same shall be provided to Bank. Pro-active product health status check-up (on-site) and submission of report quarterly/yearly. During the preventive maintenance the bidder/OEM should also check the firmware / operating system running on the IMPS engine and other components and upgrade the same to latest version as released by OEM. The successful bidder/OEM will be required to forward to the Banks well in advance (at least 7 days) the preventive maintenance schedule / plan to enable the Bank to intimate the locations/offices and obtaining downtime etc.
- Free of cost version upgrade/customization will be done by bidder whenever new version of firmware/software is released or new requirements comes.
- The bidder to note that, the Bank reserves the right to modify/update the parameter files/configuration after feasibility check by the successful bidder. The feasibility of same should be informed to the Bank.
- The bidder to submit detailed Root Cause Analysis for hardware & software related issues/failures.
- Any coordination with the OEM for support should be carried out by the bidder engineer.
- The bidder to note that, only under exceptional conditions remote access for devices would be provided. Under all other circumstances bidder to provide on-site support only.
- The OEM must provide technical support. The OEM must provide the dedicated login credentials to Bank with highest level permissions to search knowledge base, downloading of the patches, documents and to manage the device. Bank should be able to raise tickets directly to OEMs.
- Bank should have a facility to log a call using web interface wherein all the support contract details should be linked. This interface should provide the incident number for monitoring the progress of the call/support ticket. The Bank should also have flexibility to log the calls using either emails/telephone also.
- The OEM should have a comprehensive known error database or knowledge database in the form a web access which is accessible to Bank team for resolving first level issues. This is not a local database maintained to track incidents. This repository is the knowledge base of all the incidents resolved worldwide by the successful bidder support teams.
- The AMC/ATS may be terminated by the Bank after giving three months' notice in case of deficiency in services. Bank may extend the AMC/ATS term for two terms of 1 year each on same rates and same terms and conditions.
- The quoted percentage (%) for AMC and ATS would be applicable for proactive support on 24 x 7 x 365 basis. AMC and ATS would cover all components of the offered appliance/solution/hardware/software without any exceptions.

12. UPGRADES AND UPDATES

The bidder shall be required to provide all future updates and upgrades for the proposed Solution/Appliance/hardware & software provided free of cost during contract period. If however, the upgrades/updates is not available then the support for the implemented Solution/Appliance/hardware & software should be available at any point of time.

The solution (software or hardware or both) provided by the successful bidder should not be declared end of sale within 2 years of sign off of the project. If at all the solution (software or hardware or both) is declared end of sale within 2 years of sign off, the successful bidder has to provide the upgraded version (software or hardware or both) free of cost, to the Bank.

13. ONSITE TECHNICAL SUPPORT (OTS)

The proposed resident engineer must fulfill following criteria & Successful bidder will submit documentary proof for the same to Bank before starting the implementation of the solution:

- a) **Qualification:** The L2/resident engineer should hold a degree in B.E/ B.Tech in Computer Science/Electronics engineering/Information technology or MCA or M.Sc.(IT) or equivalent. The L2 engineer must also hold relevant certification from the OEM for the solution offered by the successful bidder at the time of his deployment in the Bank.
- b) **Experience:** Resident engineers should have minimum 3 years of hands on experience in administration of the proposed Solution & windows administration, Linux administration & storage administration. Proper experience certificate obtained from the client, to be submitted at the time of deployment of resident engineers in the Bank. Certification from the OEM to be submitted at the time of payment request for onsite engineer charges.
- c) **Background check:** Successful bidder has to conduct proper background check of the resident engineers and should submit BGV (background check verification document) to the Bank.

The Bidder shall provide requisite skilled resources during the implementation period and One L2 resource at DC from 10:00 am to 6:00 pm for 12 months' post Implementation i.e. 12 months from Go-Live date, without any extra cost to the Bank. The number of resources deployed during the implementation period is as per bidder's discretion. The L2 resources deployed should have requisite knowledge and minimum 3 years' experience of proposed solution for management, performance tuning trouble shooting and monitoring of the overall operations of HCI Solution.

After 12 months of implementation of complete Solution, Bank may avail additional OTS, at any time during the contract period. Separate commercials have been called for the additional Onsite Technical Support and it is the sole discretion of the Bank to avail its services or the duration of the OTS. Separate Purchase Order will be issued for the OTS (after 12 months of implementation) specifying the duration of the support and the no. of engineers required and charges will be paid on pro-rata basis. Bank is not bound to place any minimum order for additional OTS. This option will be availed as and when required by the Bank. Proposed Onsite Technical support engineer must comply with following criteria:

A. Onsite support during implementation

1. The Successful bidder has to ensure the availability of requirements of engineers (as per qualifications defined by the Bank mentioned in this tender) at Bank's Data

Center and if required at another site for setting up and administration of the solution during 10 am to 6 pm on all 7 days of the week till sign off.

2. During the implementation, bidder should not change / modify the Bank's existing IT infrastructure. The performance or security of the existing network setup should not be hampered & compromised.
3. Successful Bidder has to generate, suggest and customized reports as per the requirement of the Bank.
4. Successful Bidder has to troubleshoot and resolve the problems occurred during the implementation of the project.
5. Desired report generation on daily basis & hand holding of Bank officials for the same.

B. Post implementation onsite support

1. After implementation the Successful bidder has to ensure the availability of one resident engineers for 12 months from the date of signoff of L2 level during office hours (9 am to 6 pm) at Bank's Data Center and if required at another site at no extra cost to the Bank for administration, operations, management and all activities related to the solution on all working days of the week as well as beyond office hours or on holidays, whenever asked or needed.
2. The resident engineers stationed at Bank's Data Center will be exclusively for this project and cannot be shared by the bidder for any other purpose during contract period. Granting leave/ absence to the engineers posted at our site, should be with at least 2 days' prior intimation to the Bank and suitable replacement should be arranged in his/her absence without fail. Penalty may attract if engineers are absent.
3. Post implementation support at another site will be provided by resident support engineers remotely from DC, or visit to that site in case of need, without any extra cost.
4. Preventive maintenance of devices/ solution should be performed on quarterly basis at all location for which HCI solution is bought. Yearly preventive maintenance must be done by OEM and report of the same shall be provided to Bank.
5. Overall management of the complete HCI solution such as refinement of policies, creation of policies, creation of VMs, Migration of VMs, installing of OS, installing of Databases, Migration of Applications, Migration of Databases, configuration, optimization or any changes/modifications to be done for enforcing Bank's policies, etc.
6. Proactive monitoring of health of the solution, including the H/W, S/W, application, solution on various parameters such as CPU, memory, interface utilizations, etc., monitoring of communication/proper working of the solution with various integrated applications like Active Directory, Anti-Virus, SIEM, ATP, VA/PT tool, etc. monitoring the threshold of devices' utilization with respect to number of users, concurrent connections, etc. and reporting the same to the Bank on daily basis. Reporting abnormalities to the Bank as and when observed/occurred.

7. Maintaining the inventory of all nodes, VMs etc. connected throughout the Bank's network (managed through Central Management Console) along with device IP address, MAC address, present location, switch IP and switch port numbers used for connectivity, type of devices connected, etc.
8. Preparing and submitting reports as per the requirement of the Bank. Reports will include daily health monitoring and other statistical reports. If any report is available out of the box then engineer has to customize the same as per the Bank's requirement with no extra cost. Engineer may take support from its Backend team and/or OEM if required.
9. Troubleshooting day to day issues, faced by end users, pertaining to proposed solution in coordination with Bank's Network integrator, security integrator, desktop management team or other relevant teams/vendors.
10. Call logging and follow-up with the OEM or the successful bidder's support mechanism and escalation for resolution of all types of hardware, software, solution or application related issue for the solution within the Turn-around-time.
11. Promptly alert Bank's team in case of any discrepancy observed or any security threat and initiate necessary action in coordination with security vendors of the Bank.
12. Periodic Assessment of the solution for ensuring compliance and security hardening as per Bank's policies/requirements and submitting recommendations for further improvements to mitigate any possible threats, effective compliance check, better visibility and controls, etc.
13. Configuring automatic incremental and full backup of VMs, Nodes including audit logs, policies, system configurations, user database, element database and any other parameters required to run the solution.
14. The resident engineers have to perform duties (but not limited to mentioned in RFP) pertaining to the solution.
15. The successful bidder will ensure onsite availability of experienced L3 engineers of OEM in case of any urgent requirement of the Bank in addition to the existing onsite resident engineer without any extra cost to the Bank, till the time the issue is resolved. Complete RCA should be provided to Bank by OEM, in such Cases.
16. All duties mentioned in RFP (but not limited to mentioned in RFP pertaining to the proposed solution) will be performed for 12 months' post Implementation i.e. 12 months from sign-off, without any extra cost to the Bank. And after this period, if Bank avails services of additional OTS, he will also perform all duties mentioned in RFP (but not limited to mentioned in RFP pertaining to the proposed solution), at no extra cost to the Bank during the contract period, except cost arrived after reverse auction for additional OTS.
17. The non-delivery of services or non-response or any breach of information will lead to penalty. The penalty is applicable in respect of non-delivery of services/ support as per the requirement of this RFP. The onsite engineers/representative deployed by the successful bidder will not claim any benefit from the Bank and any loss or damage to the Bank due to them will be the sole responsibility of the Successful bidder.

14. PENALTY CLAUSE

14.1 Penalty due to delay in Services

A-Total Hardware Cost

B-Total Software Cost including all required licenses

C-Implementation Cost including integration

S.N	Item	Expected Timeline	Penalty	Max. Penalty	Threshold of Delay
1	Delivery of Complete Solution including hardware	Within 6 weeks from the date of Purchase Order	1% of (A+B) for every week delay	10% of (A+B)	10 weeks from the date of PO
2	Complete Implementation	Within 10 weeks from the date of delivery	1% of (B+C) for every week delay	10% of (B+C)	16 weeks from the date of Delivery

Bank reserves the right to Cancel the Purchase Order, Terminate the Contract, Forfeit the Performance Bank Guarantee and Blacklist the Successful bidder, in case the Successful bidder exceeds the threshold limit of Delay for any of the items above. Bank, at its sole discretion, may exercise any or all of the options against the Successful bidder, in such circumstances.

14.2 Penalty due to Downtime or due to performance below the expected Turnaround time of any application integrated with the Solution, which may impact Banks business

After implementation of the complete solution, Penalty will be deducted for partial or complete downtime of the system (hardware or software failure) as below.

Uptime (U)	Penalty
$U \geq 99.95$	No Penalty
$99.50 \leq U < 99.95$	0.1 % of (A+B)
$99.00 \leq U < 99.50$	0.2 % of (A+B)
$98.50 \leq U < 99.00$	0.3 % of (A+B)
$98.00 \leq U < 98.50$	0.4 % of (A+B)
And so on	For every 0.5 % drop in the Uptime, Penalty @ 0.1% of (A+B)
Max. Limit	10% of (A+B), beyond which Bank may terminate the contract.

SLA will be monitored on Monthly basis.

Penalty due to downtime, during contract period will be deducted from any subsequent payment to be made to the Successful bidder.

Penalty due to downtime, during AMC/ATS period will be deducted from AMC/ATS payment.

14.3 Penalty due to erroneous behavior of the Solution

If the solution, or any of its components behaves erroneously which results in monetary or business loss to the Bank, then the entire amount of such loss shall be recovered from the bidder on actual basis.

14.4 Penalty due to Absence of Onsite Engineer (L2 resource & Team Lead)

During the Implementation period and 1 year post implementation- In the absence of the engineer, suitable replacement is to be provided on immediate basis. In case of absolute absence (when no replacement is provided), penalty would be deducted @0.5% of the Implementation cost, for each day, upto a maximum of 10%.

Team lead is required to be present Onsite as and when required by the Bank. Failure to do so will attract a penalty of 1% of Implementation Cost for each day upto a maximum of 10%.

If the Bank avails additional Onsite Technical support after one year of implementation-In the absence of the engineer, suitable replacement is to be provided on immediate basis. In case of absolute absence (when no replacement is provided), penalty would be deducted @3% of the monthly OTS Cost, for each day.

Penalty as in 14.1, 14.2, 14.3& 14.4 can be levied simultaneously. Maximum deducted penalty of one type will not affect any other type of penalty i.e. All the five types of penalties can be levied upto their maximum limit simultaneously.

15. TRAINING

The successful bidder shall impart free of cost complete administration training & for day to day maintenance of offered solution for 3 days and for two batches of 10 officials each of the Bank preferably in Delhi/NCR) during first year of Contract after completion of implementation. Only Travelling Cost of Bank Officials will be borne by Bank. The training should cover complete administration & day to day maintenance of the solution and should be classroom based.

16. TAXES

The rates quoted in Performa for Indicative Commercial offer should be inclusive of all taxes except GST. However, GST shall be paid to the bidder on actual basis at the rate applicable. The rate of applicable GST should be informed and charged separately in the invoice generated for supply of the product.

17. CANCELLATION OF PURCHASE ORDER

After issuance of purchase order to successful bidder, Bank reserves the right to cancel the purchase order without giving any notice, for following reasons –

- a. Non submission of acceptance of order within 15 working days of placement of Purchase Order.
- b. Non submission of performance Bank guarantee within stipulated time as specified in the RFP.
- c. Non signing of contract within the time specified by Bank.
- d. Non submission of any report/undertaking/document/compliance which was due within one month from the date of Purchase Order.

18. INFORMATION SECURITY

Successful Bidder upon selection will comply with all the present and future provisions of the Information Security Policy/Guidelines of RBI, Respective Govt. Agencies and the Bank and provides such regulatory requirements at no additional cost to Bank during the ATS/AMC period. The Solution may be audited by RBI/any other Regulatory Authority and any observation pointed out by these bodies have to be complied by the successful bidder within the timelines stipulated by the regulatory agencies, without any additional cost to the Bank. The offered solution shall be subjected to Bank's audit through off-site and on-site scrutiny at any time during the contract period. The auditors may be internal/ external. The successful bidder should provide solution and implementation for all the audit points raised by Bank's

internal/external team during the contract period, within the stipulated timelines, without any extra cost.

19. SIGNING OF PRE CONTRACT INTEGRITY PACT

The bidder should submit Original Executed Integrity Pact along with the technical bid. The Integrity Pact must be executed on stamp paper of Rs.100 and must be signed by all the witnesses also. The Performa of Integrity Pact is as per **(Annexure-XII)**.

20. DELAYS IN THE SUPPLIER'S PERFORMANCE

Delivery of the goods and performance of the Services shall be made by the supplier in accordance with the time schedule specified by purchaser. Any delay in performing the obligation by the supplier will result in imposition of liquidated damages and/or termination of rate contract for default.

21. INDEMNITY

The bidder assumes responsibility for and shall indemnify and keep the Bank harmless from all liabilities, claims, costs, expenses, taxes (except GST) and assessments including penalties, punitive damages, attorney's fees and court costs which are or may be required to be paid by reasons of any breach of the bidder's obligation under these general conditions or for which the bidder has assumed responsibilities under the purchase contract including those imposed under any contract, local or national law or laws, or in respect to all salaries, wages or other compensation to all persons employed by the bidder or bidders in connection with the performance of any system covered by the purchase contract. The bidder shall execute, deliver such other further instruments to comply with all the requirements of such laws and regulations as may be necessary there under to conform and effectuate the purchase contract and to protect the Bank during the tenure of purchase order. Where any patent, trade mark, registered design, copyrights and/ or intellectual property rights vest in a third party, the bidder shall be liable for settling with such third party and paying any license fee, royalty and/ or compensation thereon.

In the event of any third party raising claim or bringing action against the Bank including but not limited to action for injunction in connection with any rights affecting the machine supplied by the bidder covered under the purchase contract or the use thereof, the bidder agrees and undertakes to defend and / or to assist the Bank in defending at the bidder's cost against such third party's claim and / or actions and against any law suits of any kind initiated against the Bank. Successful bidder (successful bidder) will also assume full responsibility of any loss or damage caused due to any of their onsite engineer/representative.

22. EXCHANGE RATE VARIATION

If the contract is extended for any period, beyond its expiry, and there is any variation in exchange rates (positive & negative both), the prices shall vary accordingly. The variation will be considered between the Exchange rate prevalent as on date of Acceptance of Letter of Intent and between the rates as on date of expiry of Contract. Increase in price of any item due to exchange rate variation shall be subject to negotiation.

23. TERMINATION OF CONTRACT

The quality of services given by the bidder & progress of the project will be reviewed monthly and if the services are not found satisfactory, the Bank reserves the right to terminate the contract by giving 30 days' notice to the bidder, including 15 days curing period. The decision of the Bank regarding quality of services shall be final and binding on the bidder. The Bank shall have the right to terminate/cancel the contract with the selected bidder at any time during the contract period, by giving a written notice of 30 days, for any valid reason, including but not limited to the following:

- a) Excessive delay in execution of order placed by the Bank
- b) Discrepancies / deviations in the agreed processes and/or products
- c) Failure of successful bidder (successful bidder) to complete implementation of solution within the time as specified in the RFP document
- d) Violation of terms & conditions stipulated in this RFP.
- e) Exceeding any of the threshold limit of Delay as per clause 15.1.
- f) Penalty as in Clause 15.2 reaches its max. limit.

Notwithstanding anything contained hereinabove, the Bank reserves the right to terminate the contact at any time without assigning any reasons.

In case of termination of contract for the reasons that the services of successful bidder are not found satisfactory", the Bank shall be free to Blacklist the successful bidder thereby debarring them from participating in future Bids/Tender processes.

24. NO RIGHT TO SET OFF

In case the Bidder has any other business relationship with the Bank, no right of set-off, counter-claim and cross-claim and or otherwise will be available under this empanelment to the Bidder for any payments receivable under and in accordance with that business.

25. PUBLICITY

Any publicity relating to the work to be carried out in BANKS towards this project is strictly prohibited. No information of any nature related to this project shall be disclosed to any third party unless otherwise necessary prior permission to Banks.

26. COMPLIANCE WITH LAWS

The Parties will comply with all laws and regulations applicable to their respective businesses including without limitation, all privacy, database, copyright, trademark, patent, trade secret, export and Anti Bribery Laws.

27. GOVERNING LAWS AND DISPUTES

All disputes or differences whatsoever arising between the parties out of or in relation to the construction, meaning and operation or effect of these Tender Documents or breach thereof shall be settled amicably. If, however, the parties are not able to solve them amicably, the same shall be settled by arbitration in accordance with the Arbitration and Conciliation Act 1996, and the award made in pursuance thereof shall be binding on the parties. The Arbitrator/Arbitrators shall give a reasoned award. Any appeal will be subject to the exclusive jurisdiction of courts at Delhi.

The bidder shall continue work under the Contract during the arbitration proceedings unless otherwise directed in writing by the Bank or unless the matter is such that the work cannot possibly be continued until the decision of the arbitrator or the umpire, as the case may be, is obtained.

The venue of the arbitration shall be Delhi. This is applicable to successful bidder only.

28. USE OF CONTRACT DOCUMENTS AND INFORMATION

The supplier shall not, without the Bank's prior written consent, make use of any document or information provided by Purchaser in Bid document or otherwise except for purposes of performing contract.

29. PATENT RIGHTS

The supplier shall indemnify the Purchaser against all third party claims of infringement of patent, trademark or industrial design rights arising from use of the Goods, or any part thereof in India.

- The supplier shall, at their own expense, defend and indemnify the Bank against all third party claims or infringement of intellectual Property Right, including Patent, trademark, copyright, trade secret or industrial design rights arising from use of the products or any part thereof in India or abroad.
- The supplier shall expeditiously extinguish any such claims and shall have full rights to defend it there from. If the Bank is required to pay compensation to a third party resulting from such infringement, the supplier shall be fully responsible including all expenses and court and legal fees.
- The Bank will give notice to the Supplier of any such claim without delay, provide reasonable assistance to the Supplier in disposing of the claim, and shall at no time admit to any liability for or express any intent to settle the claim.
- The Supplier shall grant to the Bank a fully paid-up, irrevocable, non-exclusive license throughout the territory of India or abroad to access, replicate and use software (and other software items) provided by the supplier, including all inventions, designs and marks embodied therein in perpetuity.

30. ASSIGNMENT

The supplier shall not assign, in whole or in part, its obligations to perform under the contract, except with the Purchaser's prior written consent.

31. CONTRACT BETWEEN BANK AND SHORTLISTED BIDDER/TSP (TECHNICAL SERVICE PROVIDER)

The shortlist bidder/TSP shall be required to execute SLA (Service Level Agreement), IP (Integrity Pact) and NDA (Non-Disclosure Agreement) with the Bank.

32. PRINCIPAL TO PRINCIPAL RELATIONSHIP

The employees engaged by the Successful bidder shall be deemed to be the employees of successful bidder only, and the Bank shall not be connected with the employment or the terms and conditions thereof in any way. The Successful bidder alone would comply with the statutory obligations and Labour Regulations/ Rules in this regard. None of the provisions of this Agreement shall be deemed to constitute a partnership between the parties hereto, and neither party shall have authority to bind the other except as specifically provided for hereunder. Neither party hereto is the agent of the other and there is no master-servant relationship between the parties. The relationship is on principal to principal basis.

The Successful bidder shall be responsible for payments of all statutory dues with respect to each of its personnel/employees engaged by it to render service under this Agreement with respect to each applicable Labour law, including, the Minimum Wages Act, 1948, the Payment of Wages Act, 1936, the Payment of Bonus Act, 1965, the Employees' State Insurance Act, 1948, the Payment of Gratuity Act, 1972, the Maternity Benefit Act, 1961, the Employees' Provident Funds and Miscellaneous Provisions Act, 1952, etc. No dues/contributions under any labour legislations, as applicable, are payable by the Bank with respect to the Successful bidder's personnel/employees. The successful bidder will have no claims whatsoever against the Bank with respect to payment of statutory dues/contributions to personnel/employees of under applicable labour legislations.

33. LIMITATION OF LIABILITY

Successful bidder's aggregate liability under the contract shall be limited to a maximum of the contract value. This limit shall not apply to third party claims for

- a) IP Infringement indemnity
- b) Bodily injury (including Death) and damage to real property and tangible property caused by successful bidder/s' gross negligence. For the purpose for the section, contract value at any given point of time, means the aggregate value of the purchase orders placed by Bank on the successful bidder that gave rise to claim, under this tender. Successful bidder shall not be liable for any indirect, consequential, incidental or special damages under the agreement/ purchase order.

Date:_____

Place:_____

Signature of Authorized Signatory

Name of Signatory:

Designation:

Email ID:

Mobile No:

Telephone No.:

Seal of Company:

UNDERTAKING FROM THE BIDDER

To

The Assistant General Manager
I T Procurement Department
Punjab National Bank
I.T. Division, Head Office
New Delhi

Sir

Reg.: Our bid for RFP for Supply, Installation, Implementation and Maintenance of Hyper-Converged Infrastructure & Add on components.

We submit our Bid Documents herewith.

We understand that

- You are not bound to accept the lowest or any bid received by you, and you may reject all or any bid.
- If our Bid for the above job is accepted, we undertake to enter into and execute at our cost, when called upon by the purchaser to do so, a contract in the prescribed form. Till such a formal contract is prepared and executed, this bid shall constitute a binding contract between us and Bank.
- If our bid is accepted, we are responsible for the due performance of the contract.
- You may accept or entrust the entire work to one Bidder or divide the work to more than one bidder without assigning any reason or giving any explanation whatsoever.

Date: _____

Place: _____

Yours faithfully

Signature of Authorized Signatory

Name of Signatory:

Designation:

Email ID:

Mobile No:

Telephone No.:

Seal of Company:

ELIGIBILITY CRITERIA OF THE BIDDER

S n	ELIGIBILITY CRITERIA	SUPPORTING DOCUMENTS TO BE SUBMITTED	COMPLIANCE (YES/NO)
1.	The bidder should be registered with Registrar of companies/firms in India for at least 5 years.	Certificate of incorporation or any other certificate of registration issued by competent authority from Government of India.	
2.	OEM must be present in Gartner Leaders Magic Quadrant in the Gartner's Magic Quadrant report dated 02-January 2019 for Hyper Converged Infrastructure.	Self-undertaking along with relevant extract from Gartner's Magic Quadrant report dated 02-January 2019 for Hyper Converged Infrastructure.	
3.	The Bidder must have successfully implemented HCI solution in at least Two PSU/ Government Organizations / BFSI in India, during last three years as on date of publishing the advertisement of the RFP in newspapers & from these two projects, one must be the proposed solution of same OEM (both for HCI software & underlying Hardware) which bidder is offering to our Bank.	Satisfactory Performance Certificate from the Clients strictly as per Annexure-VI. or Copy of Work Order along with Confirmation Mail from the Client stating that the work order has been successfully executed Or Copy Of Work Order along with Installation Certificate signed & stamped by the Client	
4.	The OEM must have Supplied offered HCI solution with minimum 4 node & 100 cores & 50 TB raw storage each in Two PSU/ Government Organizations / BFSI in India, during last three years as on date of publishing the advertisement of the RFP in newspapers.	OR Copy of Work Order along with any other proof of execution. (Kindly note that any of the above documents submitted must be sufficient enough to certify bidder's experience, must be authentic and must also contain all the material information as required in Annexure-VI)	
5.	The bidder should have Support center in Delhi/NCR & Mumbai.	Undertaking to be submitted	
6.	The bidder should be the Original Equipment Manufacturer (OEM) of the HCI Solution or its authorized representative in India	In case of authorized representative, MAF from OEM of the Solution as per Annexure-Xa in their letter Head needs to be provided. (Name, designation, contact no & official mail id of the signing authority must be clearly mentioned in the MAF.) In case the bidder is itself the OEM, undertaking as per Annexure-X on their	

		company's letter head should be provided. MAF from OEMs of other components is also required. (Bidder is also to provide documentary evidence that the person signing Annexure Xa (MAF) is authorized to issue such letters / certificate on behalf of company)	
7.	The bidder should have a minimum turnover of INR 20 crores (Rupees Twenty crores) per annum for the past 3 financial years (2015-16, 2016-17 and 2017-18) from their Indian operations/ services from sale of HCI Solutions, servers&storage. The bidder should have positive net worth during the last financial years.	Provide CA Certificate as per Annexure-IX and Audited Financial statements (Balance sheet & Profit & Loss statement) for the last three (3) Financial years. The CA certificate provided in this regard should be without any riders or qualification.	
8.	The bidders should not be involved in any litigation which threatens solvency of company.	Certificate is to be provided by the chartered accountant/statutory auditor, as per Annexure- VII	
9.	Bidder should not have been black listed by the Government / Government agency / Banks / Financial Institutions in India during last 3 years. Self-Certificate/Undertaking is to be provided.	Undertaking to be provided as per Annexure-VIII	
10.	Labour Law Compliance	Undertaking to be submitted	
11.	The bidder should have minimum 5 L2 resources in its own organization with the criteria as desired in RFP.	List of staff members and their qualification details / copy of certificates to be submitted on the organization letter head along with undertaking. (to be signed by authorized person of the company)	

NOTE:

1. For a particular Solution, only the OEM or its authorized representative can bid. If both the OEM and its authorized representative bid for the same Solution, both the bids will be rejected.
2. If any Solution of Principal / Original Equipment Manufacturer (OEM) is being quoted in the tender, the OEM Company cannot bid for any other OEM's product.
3. In case of Indian Authorized Representative (IAR) / Agent / System Integrator (SI), maximum two Authorized Representatives of a particular Principal or Original Equipment Manufacturer (OEM) / Solution Provider can participate in the tender process.
4. In case any purchase order has been issued to the bidder by the Bank in respect of any other project/product and the same has not been delivered/executed even after the prescribed

time period and is pending for execution as on date of bid, the bid of the respective bidder is liable for rejection.

5. Bidder should submit detailed response along with documentary proof for all of the above eligibility criteria. The eligibility will be evaluated based on the bid and the supporting documents submitted. Bids not meeting the above eligibility criteria will be rejected.

6. Technical Evaluation will be done by Bank's technical evaluation committee and the decision of the committee will be final.

7. Bidders to submit relevant documentary evidence for all parameters mentioned.

8. Providing any wrong information by the bidder will result in disqualification of the bidder. The Bank may cross check above parameters by any means / during site visit.

9. All Annexures must be on the letter head of the Bidder, except those which are to be provided by OEM/CA/third party. All documents, addressed to the Bank, should be submitted in Original. (No Photocopies will be acceptable).

10. All third party documents must be signed by their authorized signatory and his/her designation, Official E-mail ID and Mobile no. should also be evident. Bidder is also required to substantiate whether the person signing the document is authorized to do so on behalf of his company. Inability of the bidder to prove the genuineness/authenticity of any third party document may make the bid liable for rejection.

Date: _____

Place: _____

Signature of Authorized Signatory

Name of Signatory:

Designation:

Email ID:

Mobile No:

Telephone No.:

Seal of Company:

BIDDER'S INFORMATION

S. N.	Information	Particulars / Response			
1.	Company Name				
2.	Constitution				
3.	Date of Incorporation				
4.	Company Head Office Address				
5.	Registered office address				
6.	GST No.				
7.	Whether MSE(quote registration no. and date of registration, copy to be attached)				
8.	Bank Account Detail:Account Number, Account Name, IFSC, Bank Name				
9.	Name, Designation, Tel. No, E-Mail of the authorized signatory submitting the RFP (Please enclose the copy of board resolution)				
10.	Specimen Full signature				
11.	Contact persons address, telephone number, mobile number, Fax Number, E-Mail ID. (give at least 2 contact persons details)				
12.	Details of Service Support Center in Delhi/NCRand Mumbai	Complete Address: No. of Support Engineers: Contact Person (Name & No.): Email ID:			
13.	Whether company has been blacklisted for service deficiency in last 3 years. If yes, details thereof.				
14.	Any pending or past litigation (within three years)? If yes please give details	Yes/No/Comments (if option is 'Yes')			
15.	Please mention turnover for last three financial years and include the copies of Audited Balance Sheet in support of it.	FY	Turnover Rs.(in Lacs)	Net Profit /Loss Rs. (in lacs)	Net Worth Rs. (in Lacs)
		2015-16			
		2016-17			
		2017-18			

Date: _____

Place: _____

Signature of Authorized Signatory**Name of Signatory:****Designation:****Email ID:****Mobile No:****Telephone No.:****Seal of Company:**

COMPLIANCE STATEMENT**Reg.: RFP for Supply, Installation, Implementation and Maintenance of Hyper-Converged Infrastructure & Add on components****DECLARATION**

Please note that any deviations mentioned elsewhere in the bid will not be considered and evaluated by the Bank. Bank reserve the right to reject the bid, if bid is not submitted in proper format as per RFP.

Compliance	Description	Compliance (Yes/No)
Terms and Conditions	We hereby undertake and agree to abide by all the terms and conditions including all annexure, corrigendum(s) etc. stipulated by the Bank in this RFP. (Any deviation may result in disqualification of our bid).	
Scope of work and/ Technical Specification	We certify that the systems/services offered by us for tender conform to the Scope of work and technical specifications stipulated by you. (Any deviation may result in disqualification of our bid).	
RFP, Clarifications & subsequent Corrigendum/s, if Any.	We hereby undertake that we have gone through RFP, clarifications & Corrigendum/s issued by Bank and agree to abide by all the terms and conditions including all annexure, corrigendum(s) etc. stipulated by the Bank in this RFP. (Any deviation may result in disqualification of our bid).	

Date: _____

Place: _____

Signature of Authorized Signatory

Name of Signatory:

Designation:

Email ID:

Mobile No:

Telephone No.:

Seal of Company

ANNEXURE – VI

PERFORMANCE CERTIFICATE

To be provided on letter head of the issuing company

**The Assistant General Manager
IT Procurement Department
Information Technology Division
Punjab National Bank
Head Office, 5 Sansad Marg
New Delhi – 110 001**

Sir,

Reg.: RFP for Supply, Installation, Implementation and Maintenance of Hyper-Converged Infrastructure & Add on components

This is to certify that M/s _____ has supplied/implemented Complete _____(Name of the Solution)originally developed by _____(OEM name) to our organization since_____ for _____(brief Purpose/Objective of the Solution).

The solution has been implemented for _____no. of users.

The services provided by the M/s _____ are satisfactory.

The certificate has been issued on the specific request of the company.

Date: _____

Place: _____

Signature of Authorized Signatory

Name of Signatory:

Designation:

Email ID:

Mobile No:

Telephone No.:

Seal of Company

LITIGATION CERTIFICATE

Reg.: RFP for Supply, Installation, Implementation and Maintenance of Hyper-Converged Infrastructure & Add on components

To be provided by Statutory Auditor/Chartered Accountant

This is to certify that M/s _____, a company incorporated under the companies act, 1956 with its headquarters at, _____ is not involved in any litigation which threatens solvency of the company.

Date: _____

Place: _____

Signature of CA/Statutory Auditor

Name of CA/Statutory Auditor:

Designation:

Email ID:

Mobile No:

Telephone No.:

Seal of Company:

UNDERTAKING FOR NON- BLACKLISTED

To be provided on letter head of the Bidder's/OEM Company

**The Assistant General Manager
IT Procurement Department
Information Technology Division
Punjab National Bank
Head Office, 5 Sansad Marg
New Delhi – 110 001**

Sir,

Reg.: RFP for Supply, Installation, Implementation and Maintenance of Hyper-Converged Infrastructure & Add on components

We M/s _____, a company incorporated under the companies act, 1956 with its headquarters at, _____ do hereby confirm that we have not been blacklisted/ debarred by the Government / Government agency / Banks / Financial Institutions in India during last 3 years.

This declaration is been submitted and limited to, in response to the tender reference mentioned in this document

Thanking You,

Yours faithfully,

Date: _____

Place: _____

Signature of Authorized Signatory

Name of Signatory:

Designation:

Email ID:

Mobile No:

Telephone No.:

Seal of Company:

TURNOVER CERTIFICATE

Reg.: RFP for Supply, Installation, Implementation and Maintenance of Hyper-Converged Infrastructure & Add on components

To be provided by Statutory Auditor/Chartered Accountant

This is to certify that M/s _____, a company incorporated under the companies act, 1956 with its headquarters at, _____ has the following Turnover, Net Profit/Loss and Net worth from its Indian Operations. This information is based on the Audited Financial Statements for 2015-16, 2016-17 and 2017-18.

Financial Year	Turnover (in Rs.)	Net Profit/Loss (in Rs.)	Net Worth (in Rs.)	Turnover from their Indian operations/ services from sale of HCI Solutions, servers & storage (in Rs.)
2015-16				
2016-17				
2017-18				

Date: _____

Place: _____

Signature of CA/Statutory Auditor

Name of CA/Statutory Auditor:

Designation:

Email ID:

Mobile No:

Telephone No.:

Seal of Company:

MANUFACTURER'S (OEM) AUTHORIZATION FORM (MAF)

(To be provided on the Letterhead of the OEM duly signed & stamped by their Authorized Signatory.)

To
The Assistant General Manager
IT Procurement Department
Punjab National Bank
I.T. Division, Head Office
New Delhi

Sir

Reg.: RFP for Supply, Installation, Implementation and Maintenance of Hyper-Converged Infrastructure & Add on components

We hereby submit the following:-

1. We, M/s _____ are the OEM of _____ (Name of the product/Solution/Hardware), being offered to Punjab National Bank through M/s _____ (Bidder's Name), who is our authorized Partner/representative in India for supply of this Product/Solution/Hardware.
2. We, M/s _____ have the IP (Intellectual property) rights for the products.
3. We agree to provide services as per the scope of work and technical specifications of this RFP through our partner M/s _____
4. In case the bidder i.e. M/s _____ is not able to perform obligations as per RFP during the contract period (like if bidder ceases to exist from the ICT Industry, stops services or support to the Bank, terminates contract due any reasons with Bank or due to any other reason), we will perform the said obligations, as per given scope of work of RFP, either directly or through mutually agreed third party/any other authorized Partner of ours.
5. With reference to the all components/parts/assemble/software used inside the company products/Hardware being quoted by us vide your tender cited above, we hereby undertake that all the components / parts / assembly used inside the company products/Hardware shall be original new components / parts / assembly / software only, from respective OEMs of the products and that no refurbished / duplicate / second hand components / parts / assembly are being used or shall be used.
6. In case of default/unable to comply with above at the time of delivery or during implementation, for the IT asset including hardware / software already billed, we agree to take back the supplied items without demur, if already supplied and replace the same with new one.

Date:

Place:

Yours faithfully

Signature of Authorized Signatory

Name of Signatory:

Designation:

Email ID:

Mobile No:

Telephone No.:

Seal of Company

UNDERTAKING FOR BEING the OEM of the OFFERED SOLUTION

To
 The Assistant General Manager
 I. T. Procurement Department
 Punjab National Bank
 I.T. Division, Head Office
 New Delhi

Sir

Reg.: RFP for Supply, Installation, Implementation and Maintenance of Hyper-Converged Infrastructure & Add on components

We hereby submit the following:-

1. We, M/s _____ are the OEM of _____ (Name of the product/Solution/Hardware), being offered to Punjab National Bank through M/s _____ (Bidder's Name), who is our authorized Partner/representative in India for supply of this Product/Solution/Hardware.
2. We, M/s _____ have the IP (Intellectual property) rights for the products.
3. We agree to provide services as per the scope of work and technical specifications of this RFP.
4. With reference to the all components/parts/assemble/software used inside the company products/Hardware being quoted by us vide your tender cited above, we hereby undertake that all the components / parts / assembly used inside the company products/Hardware shall be original new components / parts / assembly / software only, from respective OEMs of the products and that no refurbished / duplicate / second hand components / parts / assembly are being used or shall be used.
5. In case of default/unable to comply with above at the time of delivery or during implementation, for the IT Hardware including hardware / software already billed, we agree to take back the supplied items without demur, if already supplied and return the money if any paid to us by you in this regard. We also take full responsibility of both Parts & Service SLA as per the content even if there is any defect by our authorized Service Centre / Reseller / SI etc.

Date:

Place:

Yours faithfully

Signature of Authorized Signatory

Name of Signatory:

Designation:

Email ID:

Mobile No:

Telephone No.:

Seal of Company

TECHNICAL SPECIFICATIONS**Hyper Converged Infrastructure Specification**

1.	The proposed solution should be a Hyper Converged infrastructure which should come preinstalled with all software required to meet the requirement mentioned in RFP including SDS (Software Defined Storage), replication with management and associated hypervisor. It should include all hardware and software necessary to ensure high availability mode of operation. The proposed hyper converged system should have Single Management Console to manage integrated Compute, Storage, Hypervisor & Cluster. All nodes must be HCI nodes.
2.	Technology must be software defined and the solution should provide enterprise-class storage services using latest x86 server infrastructures without dependence on a separate Storage Area Network & associated components such as SAN Switches & HBAs
3.	The storage solution with the HCI should either have inbuilt software defined storage capability integrated within the Hypervisor kernel itself or should use a virtual storage controller architecture.
4.	Hypervisor layer should directly sit on the bare metal server hardware with no dependence on a general purpose OS for greater reliability and security. It should be Industry Standard software and no special purpose software is allowed.
5.	The HCI solution should be able to scale by adding additional nodes to the cluster at a later point of time to handle compute, Memory & Storage requirements. Solution should support cluster expansion with zero down time.
6.	Data compression, deduplication, erasure coding techniques should be available with licenses in the Software Defined Storage (SDS) layer for use without additional cost.
7.	The HCI solution must ensure High Availability and it should in no way affect/degrade the production services & usable resources to the end user application hence HCI solution should be proposed in N+1 configuration, even if one node fails, the remaining nodes should provide user application the specified number of usable physical cores, usable RAM & usable storage capacity as mentioned. There should not be any Data Loss in any case.
8.	The HCI solution should provide seamless upgrade for Firmware, Hypervisor, Storage OS, SDS software, BIOS and other such functions which are required in the HCI platform. The upgrade should be online and should not mandate any kind of OEM engagement
9.	The HCI solution should support 3rd party Enterprise Backup Solution of all leading OEM's.
10.	The HCI Solution should provide a backup catalog to allow any Virtual Server to be recovered to any specific point-in-time.
11.	The HCI solution must provide the following Disaster Recovery features and all licenses should be included from day 1. <ul style="list-style-type: none"> (a) The solution must provide a simple failover operation (b) The solution must allow creation of a Run book to automate recovery of Virtual Servers
12.	The HCI solution should have feature failback process to Primary data centre.

13.	The HCI solution should support to connect external storage devices (like NAS/ SAN etc.) and should be useable as part of the HCI Solution, for the purpose of Backup.
14.	HCI solution should provide High Availability & It should support features like snapshots & cloning of individual virtual machines.
15.	HCI solution should support live migration of running virtual machines from one physical node to another with zero downtime, continuous service availability, and complete transaction integrity transparent to users.
16.	Dashboard to manage and provision virtual machines, network, storage, monitor performance and manage events & alerts. It should also contain a dashboard for monitoring & generate reports.
17.	The HCI solution should have a single management console for managing compute, Network, Storage and Clustering. The HCI Solution should be able to give insight of underlying infrastructure like compute, storage and network.
18.	In the event of a node failure, virtual machines should automatically run on another node.
19.	HCI solution should include Redundant 10G switches providing minimum 48 ports (referred as TOR Switch') with minimum 4 uplink ports of 10G & 2 uplink ports of 40Gper switch.
20.	All the required cables & modules for connecting all HCI nodes to HCI switch should be configured with redundancy in order to ensure HA.
21.	Bidder must quote appropriate license to enable and meet mentioned features in the infrastructure automation architecture.
22.	All licenses required for Memory and Storage upgradation with-in the provided solution should be included from Day-1
23.	HCI solution has to integrate with active directory (AD) /open LDAP to allow importing existing users and groups in addition to creation of local users.
24.	HCI solution should include an application and infrastructure performance management tool quoted as part of the solution to improve operations andprovide insight deep infrastructure performance.
25.	HCI solution should be capable of increasing the resources such as (RAM, CPU and storage) online.
26.	HCI solution should have the capability to connect to any public cloud.
27.	Solution should support with Active-Active stretch cluster for RPO=0. Should have redundancy within site and across site without any extra cost to the Bank.
28.	The proposed HCI solution must have capability to provide 80% of the IOPS of respective node to any single VM.

MINIMUM HARDWARE SPECIFICATION – X86

Sl.No.	MINIMUM TECHNICAL SPECIFICATION (FOR EACH NODE)	
1.	Form Factor	Max. 2U rack mounted with sliding rails
2.	Each CPU configuration(Each node must have 2 CPU of same configuration)	<u>Intel Cascade Lake Processors with Minimum</u> 24 Core, Minimum Base frequency 2.40GHz, Minimum Turbo Boost frequency 3.10 GHz, Minimum L3 Cache 36MB
3.	Memory slots	Minimum 24 DDR4 DIMM slots RDIMMS supporting speeds of min 2666 MHz
4.	Memory configured	Each Node in Cluster :- 1.30 TB DDR4 2666 Mhz RAM
5.	Disks Supported	Minimum of 12 nos. SAS/SATA/SSD
6.	Disks Requirement	The Proposed Solution should support inline Dedup and compression from Day one. All Flash Configuration - Useable Storage should be as below after inline de-dup and compression Each Node in Cluster- 25 TB (in both cases, each disk will be of minimum 15k RPM speed)
7.	DVD writer	Internal/External DVD-RW Optical Disk Drive
8.	I/O slots	Minimum of 4xPCIe Gen 3 Slots
9.	Ethernet ports	4x1Gbps Base-T ports(Optional), 6 x 10Gbps Base-T Ports, 1 Dedicated Management port (optional)
10.	Interface Ports	Minimum of 1 VGA/Video Port, 2xUSB2.0/USB3.0, dedicated Management Ports
11.	Certification and Compliances	Microsoft Windows Server, Hyper-V, VMWare, Red Hat Enterprise Linux(RHEL), Acropolis Hypervisor etc.
12.	Power Supply	Platinum rated redundant Power Supply
13.	Power & Temperature	Real-time power meter, graphing, thresholds, alerts & Temperature monitoring & graphing through Central Management Console of HCI Solution.
14.	Alert	Should provide predictive failure monitoring & proactive alerts of actual or impending component failure for fan, power supply, memory, CPU, RAID, NIC, HDD
15.	Configuration & Management (optional)	Real-time out-of-band hardware performance monitoring & alerting Agent free monitoring, driver updates & configuration, power monitoring & capping, RAID management, external storage management, monitoring of FC, HBA & CNA & system health Out-of-band hardware & firmware

		inventory Virtual IO management / state less computing system.
16.	LCD/LED panel (Optional)	Should display system ID, status information and system error conditions in different colours or status LED/LCD available to indicate health of the machine.
17.	HTML5support	HTML5 support for virtual console & virtual media without using Java or ActiveX plugins
18.	Server Security	Should provide effective protection, reliable detection & rapid recovery using: <ul style="list-style-type: none"> a. Secure default passwords Persistent event logging including user activity b. Secure alerting c. Automatic BIOS recovery d. Rapid OS recovery
19.	Compliance justification	All the compliance should be justified with page numbers highlighted with markers and Book marks.

Sl.No	<u>HYPERVISOR Technical Specifications</u>
1.	The bidder shall propose Support & Subscription services from the direct OEM support 24x7x365 with unlimited incident support and including the unlimited upgrades and updates.
2.	The bidder shall propose Hypervisor technology from vendors placed in the leaders quadrant in the Gartner 'Magic Quadrant for x86 Server Hypervisor' report
3.	The bidder shall propose to use the existing hypervisor license in the data centre and renew the subscription for the same, if feasible (or) shall propose a solution with new hypervisor license
4.	Hypervisor software shall provide a Hypervisor layer that sits directly on the quoted hardware with no dependence on a general purpose OS for greater reliability and security
5.	Hypervisor software shall allow heterogeneous support for guest Operating systems like Windows client, Windows Server, Linux (at least Red Hat, SUSE, Ubuntu, CentOS)
6.	Hypervisor software shall allow taking point-in-time snapshots of the virtual machines to be able to revert back to an older state if required
7.	Hypervisor software should have the ability to avoid allocating all storage space upfront. Full monitoring capabilities and alerts to prevent from accidentally running out of physical storage space should be there.
8.	Hypervisor software should support live Virtual Machine migration between different generations of CPUs in the same cluster and without the need for shared storage option.
9.	Hypervisor software shall have High Availability capabilities for the virtual machines if in case one server/Node fails all the Virtual machines running on that server shall be able to migrate to another physical server running same Hypervisor software.
10.	Hypervisor software should have the provision to provide zero downtime, zero data loss and continuous availability for the applications running in virtual machines in the event of physical host failure.
11.	Hypervisor software should provide integration of 3rd party endpoint security to secure the virtual machines with offloaded antivirus, antimalware solutions with/without the need for agents inside the virtual machines.
12.	Hypervisor software should allow configuring each virtual machine with one or more virtual NICs. Each of those network interfaces can have its own IP address and even its own MAC address, must support NIC teaming for load sharing and redundancy.
13.	Hypervisor software shall allow creating virtual switches that connect virtual Machines
14.	Hypervisor software shall support configurations of 802.1q VLANs which are compatible with standard VLAN implementations from other vendors
15.	Hypervisor software should allow dynamic adjustment of the teaming algorithm so that the load is always balanced across a team of physical network adapters
16.	Hypervisor software should provide solution to automate and simplify the task of managing hypervisor installation, configuration and upgrade on multiple physical servers.
17.	Hypervisor software should support for increasing capacity by adding CPU, Memory or any other devices to virtual machines on an as needed basis without any disruption in working VMs running windows and Linux operating system.
18.	It should provide the ability to set constraints that restrict placement of a virtual machine to a subset of hosts in a cluster and to keep virtual machines paired or separated.
19.	Hypervisor software shall continuously monitor utilization across virtual machines and should intelligently allocate available resources among virtual machines
20.	Hypervisor software should provide enhanced visibility into storage throughput and latency of hosts and virtual machines that can help in troubleshooting storage performance issues.

21.	Hypervisor software shall be able to dynamically allocate and balance computing capacity across collections of hardware resources aggregated into one unified resource pool with optional control over movement of virtual machines like restricting VMs to run on selected physical hosts.
22.	Hypervisor software should provide proactive High availability capability that utilizes server health information and migrates VMs from degraded hosts before problem occurs
23.	Hypervisor software should provide HCI/VM level encryption protects unauthorized data access.
24.	It should support hardware as well as non-hardware accelerated 3D graphics to run Basic 3D applications in virtual machines.
25.	The solution should provide an option to easily deploy and manage big data solutions like Hadoop& VDI on the Hypervisor platform.

Sl.No	<u>HYPERVERSOR MANAGEMENT SOFTWARE TECHNICAL SPECIFICATION</u>
1.	Hypervisor management software console shall provide a single view of all virtual machines, allow monitoring of system availability and performance and automated notifications with email alerts.
2.	The Hypervisor management software should provide the core administration interface as a single Web based interface. This interface should be flexible and robust and should simplify the hypervisor control through shortcut navigation, custom tagging, enhanced scalability, and the ability to manage from anywhere with Internet Explorer, Firefox, Google Chrome, Opera enabled devices.
3.	The management software should provide means to perform quick, as-needed deployment of additional hypervisor hosts.
4.	The Hypervisor should have capability to simplify host deployment and compliance by creating virtual machines from configuration templates.
5.	Power, storage related and OS cluster related information has to initiate from the relevant sources and can be integrated through RESTful APIs.
6.	Hypervisor management software console shall provide reports for performance and utilization of Virtual Machines. It shall co-exist and integrate with leading systems management vendors.
7.	Hypervisor management software console shall provide capability to monitor and analyse virtual machines, and server utilization and availability with detailed performance graphs.
8.	Hypervisor management software console shall maintain a record of significant configuration changes and the administrator who initiated them.
9.	Hypervisor management software console shall provide the Manageability of the complete inventory of virtual machines, and physical servers with greater visibility into object relationships.
10.	Hypervisor management software should provide a global search function to access the entire inventory of multiple instances of Hypervisor management server, including virtual machines, hosts, data stores and networks, anywhere from within Hypervisor management server.
11.	Hypervisor management software should support user role and permission assignment (RBAC).
12.	Hypervisor management software should allow to deploy and export virtual machines, virtual appliances in Open Virtual Machine Format (OVF).
13.	Hypervisor management software should allow reliable and non-disruptive migrations for Physical/ Virtual machines running Windows and Linux operating systems to virtual environment.
14.	Hypervisor management software should include provision for automated host patch management with no VM downtime.
15.	Hypervisor management software should be able to integrate into existing standard SPSD systems.
16.	The management solution for hypervisor should provide Single-Sign-On capability which should dramatically simplify administration by allowing users to log in once to access all instances or layers of management without the need for further authentication.

Sl.No.	<u>SOFTWARE DEFINED STORAGE -Technical Specifications</u>
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1.	The proposed solution shall provide software based enterprise class storage services on commodity x86 servers
2.	Shared Storage created by clustering server attached traditional magnetic Disks or Flash Disks (like SSDs, NVMeS etc.)
3.	Can be configured using either Hybrid or All-Flash Storage
4.	Should provide upgrade path from Hybrid to All-Flash with same set of compatible hardware no disruptively.(in case of Hybrid)
5.	Should provide high-resilient shared storage capacity for Virtual environment
6.	Should be integrated with Hypervisor within or outside kernel and No additional VM/Appliance/ hardware/software should be required to install.
7.	Should support all Hypervisor functions like HA, live migration of running virtual machines from one physical server to another with zero downtime, continuous service availability, and complete transaction integrity.
8.	Should be compatible with Disaster Recovery solutions
9.	Should support server side read/write caching to reduce storage latency
10.	Should support snapshots and clones in a Virtual environment
11.	The software defined storage solution should support Data Locality.
12.	Should be Hardware independent to provide flexibility of choosing hardware from any server manufacturer.
13.	Should support non-disruptive Scale-Up (Upgrade by inserting drives in existing empty drive slots) & Scale-Out (Upgrade by adding nodes) upgrades to grow capacity and/or performance whenever required.
14.	Direct OEM 24x7x365 days AMC & ATS with unlimited incident support and 30mins or less response time including the unlimited upgrades and updates.
15.	The solution should provide a single unified management console for the management of the entire environment including virtualized environment as well as software defined storage environment. This would simplify the manageability of the entire solution.
16.	Provide granular VM-Centric controls for managing storage service levels
17.	Automated self-re-balancing capabilities to align with defined Storage service levels
18.	The solution should deliver zero data loss capability in case of disk, host, network or rack failure
19.	The solution should support Online Analytics on Health and provide predictive alerts
20.	The solution should be able to use hypervisor/VM based replication to asynchronously replicate VMs across sites based on configurable schedules of up to 5 minutes RPO

TOR SWITCH TECHNICAL SPECIFICATION

Sl.No.	Part No.	Description (Minimum)
1	Minimum Ports	48 x 10GBASE-T ports and 4 uplink ports of 10G & 2 uplink ports of 40G
2	Software	latest Version
3	Accessory Kit	3K/9K Fixed Accessory Kit
4	Fan	3K/9K Single Fan, port side intake airflow
5	Power Supply Unit	Nexus NEBs AC 500W PSU - Port Side Intake
6	Power Cord	AC Power Cord - 250V, 10A , India
7	Lan License	LAN Enterprise License
8	Optical Cable	100GBASE QSFP Active Optical Cable, 5 meter
9	Adapter	QSFP to SFP10G adapter
10	SFP Module	10GBASE-LR SFP Module
11	Other	Any other software/ Hardware needed to run the cluster

S. No.	<u>RACK TECHNICAL SPECIFICATION</u>
1.	All the relevant product brochures and manuals must be submitted
2.	RACK should be same make as that of server/node make i.e. OEM make
3.	Standard 42U 800mmW/1000mmD fully perforated front & back door and side panels, holes should be evenly distributed from top to bottom to permit adequate airflow (equivalent to 64 percent open areas for ventilation), preferably black Color.
4.	Should have 42U of vertical mounting space and the servers, KVM and Monitor Console should fit into the rack and necessary rack mount plates/kits to be provided.
5.	Rack doors should having locking arrangements both front panel and rear panel
6.	Adequate clearance between the installed rack component and the side panels of the rack
7.	One number Earthing Kit, One number Cable Manager Horizontal 1U
8.	The bidder should provide 2 (two) nos. Power Distribution Units (PDU) - PDU should have a 32A MCB, a neon Indicator, 16 x IEC C13 Sockets (5 A / 15 A) and at least 3.0 meter cable for connection to the external power source
9.	Castors (One set of 4) , One number Stationary Shelf , One number Keyboard tray rotary with slides , two numbers mounting hardware (Each Pack of 10)
10.	One number Temperature Indication Unit
11.	Two numbers Cat 6 24 port 1 RU Jack Panel for Rack,
12.	The bidder should terminate the Jack Panel and its necessary components using Cable Manager
13.	The bidder shall have to mount new servers/nodes in the rack and will have to provide the rack mounting kit accordingly
14.	Compliance to EIA-310-D. The bidder has to supply Rack design diagram
15.	Appropriate Cables for connecting Keyboard, Monitor, Mouse etc. to be provided
16.	Supporting 1000 Kgs load. Bottom cover with knock out holes for cable entry to be provided

17.	Three pairs of horizontal support shall be fitted on both right and left sides
18.	Fans to be mounted on Rear Door / Roof
19.	Copper based Electrical Grounding / Earthing Strip
20.	Adjustable screw legs – 4 No

Yours faithfully,

Signature of Authorized Signatory

Name of Signatory:

Designation:

Date:

Place:

Email ID:

Mobile No:

Telephone No.:

Seal of Company:

Performa for Indicative Commercial Offer**RFP for Supply, Installation, Implementation and Maintenance of Hyper-Converged Infrastructure & Add on components.****Table-A**

Hardware Items						
Sr. No.	Items	Unit Cost (a)	Multiplication Factor (b)	Total Cost (c=a*b)	AMC cost Per Year (5 to 10 % of unit cost) (D)	Grand Total (E=C+DxbX7 Years)
1.	Hardware cost of Cluster for DC as mentioned in scope of work and technical specifications Annexure-XI		1			
2.	Cost per Node (Hardware) with all accessories of same configuration as above in Cluster without software (For Future Expansion)		10			
3.	Cost of Compute only nodes with same compute configuration as mentioned in Sr. No. 1 without software (For Future Expansion)		10			
4.	Cost of Storage only nodes with same storage configuration as mentioned in Sr. No. 1 without software (For Future Expansion)		10			
5.	Cost of Racks with all accessories for hosting Hardware and switches		4			
6.	TOR (Top of the Rack) L2 Switch with 48 ports & all accessories as mentioned in scope of work and technical specifications Annexure-XI		8			
7.	Total of Hardware Items (1+2+3+4+5+6)					
Software Items						
Sr. No.	Items	Unit Cost (a)	Multiplication Factor (b)	Total Cost (c=a*b)	ATS cost Per Year (10 to 20 % of unit cost) (D)	Grand Total E=C+(DxbX7 Years)
8.	Complete Software cost of Cluster for as mentioned in scope of work and technical specifications Annexure-XI		1			
9.	Complete Software cost of node of Sr. no. 2 as per scope of work and technical specifications Annexure-XI		1			
10.	Complete Software cost of node of Sr. no. 3 as per scope of work and technical specifications Annexure-XI (For Future Expansion in Cluster)		10			
11.	Complete Software cost of node of Sr. no. 4 as per scope of work and technical specifications Annexure-XI (For Future Expansion in Cluster)		10			
12.	Total of Software Items (8+9+10+11)					
Other Items						

Sr. No.	Items	Unit Cost (a)	Multiplication Factor (b)	Total Cost (c=a*b)
13.	Implementation Cost of the Cluster at Site		2	
14.	Implementation Cost per node of node mentioned at Sr. no. 2 (Both Hardware & Software) (For Future Expansion in Cluster)		10	
15.	Implementation Cost per node of node mentioned at Sr. no. 3 (Both Hardware & Software) (For Future Expansion in Cluster)		10	
16.	Implementation Cost per node of node mentioned at Sr. no. 4 (Both Hardware & Software) (For Future Expansion in Cluster)		10	
17.	Additional Onsite Technical Support Cost of L2 resource (man year charges) (as and when required)		6	
18.	Total (13+14+15+16+17)			
19.	Total of Table A (7+12+18)			

NOTES:

1. The rates quoted in commercial bid should be inclusive of all taxes except GST. However, GST shall be paid to the bidder on actual basis at the rate applicable. The rate of applicable GST should be informed and charged separately in the invoice generated for supply of the product.
2. Any column left blank by the bidder will result in disqualification of the bid.
3. AMC/ATS should be quoted in the specified range only. If quoted lower or beyond the specified range, it will automatically be recalculated. eg. in case AMC is quoted lower than 5% it will be recalculated at 5% and if quoted higher than 10% it will be recalculated at 10%.
4. L1 cost will be decided as per total of Table A, after Reverse Auction is conducted as per Clause 25 of Instruction to Bidder.
5. Bank may use same rates as arrived above for deploying similar HCI architecture other sites within 1 year of implementation of complete solution at DC, Delhi.
6. The multiplication factor as mentioned in above table (Table A) is only indicative and for the purpose of deriving the Total Cost for determining the L1 bidder. The actual quantity of any item ordered may vary according to the requirement of the Bank. In addition to the initial Order placed, Bank may place subsequent orders for any item, if required, at any time during the entire contract period, at the unit rate finalized after Reverse Auction.
7. Bank is not bound to place any minimum order for any item. The quantity will also be as per requirement.

Date: _____

Place: _____

Signature of Authorized Signatory

Name of Signatory:

Designation:

Email ID:

Mobile No:

Telephone No.:

Seal of Company:

PERFORMA FOR INTEGRITY PACT

To,
The Asstt. General Manager,
IT Procurement Department, HO: ITD
Punjab National Bank,
.....
New Delhi

Subject: Submission of Tender for the work.....

Dear Sir,

I/We acknowledge that Punjab National Bank is committed to follow the principle of transparency equity and competitiveness as enumerated in the Integrity Agreement enclosed with the tender/bid document.

I/We agree that the Notice Inviting Tender (NIT) is an invitation to offer made on the condition that I/We will sign the enclosed integrity Agreement, which is an integral part of tender documents, failing which I/We will stand disqualified from the tendering process. I/We acknowledge that THE MAKING OF THE BID SHALL BE REGARDED AS AN UNCONDITIONAL AND ABSOLUTE ACCEPTANCE of this condition of the NIT.

I/We confirm acceptance and compliance with the Integrity Agreement in letter and spirit and further agree that execution of the said Integrity Agreement shall be separate and distinct from the main contract, which will come into existence when tender/bid is finally accepted by Punjab National Bank. I/We acknowledge and accept the duration of the Integrity Agreement, which shall be in the line with Article 6 of the enclosed Integrity Agreement.

I/We acknowledge that in the event of my/our failure to sign and accept the Integrity Agreement, while submitting the tender/bid, Punjab National Bank shall have unqualified, absolute and unfettered right to disqualify the tenderer/bidder and reject the tender/bid in accordance with terms and conditions of the tender/bid.

Yours faithfully

(Duly authorized signatory of the Bidder)

To be signed by the bidder and same signatory competent / authorized to sign the relevant contract on behalf of Punjab National Bank.

INTEGRITY AGREEMENT

This Integrity Agreement is made at on thisday of2019.

BETWEEN

Punjab National Bank is a Bank constituted under The Banking Companies (Acquisition & Transfer of Under-takings) Act 1970, having its Head Office at Sector 10, Dwarka, New Delhi-110075 and inter-alia a Branch Office/ Circle Office at _____ (Hereinafter referred as the Principal/Owner', which expression shall unless repugnant to the meaning or context hereof include its successors and assigns)

AND..... (Name and Address of the Individual/firm/Company) Through..... Details of duly authorized signatory) (Hereinafter referred to as the "Bidder/Contractor" and which expression shall unless repugnant to the meaning or context here of include its successors and permitted assigns)

Preamble

WHEREAS the Principal / Owner has floated the Tender for (.....Name of Work.....) (hereinafter referred to as "Tender/Bid") and intends to award, under laid down organizational procedure, contract forhereinafter referred to as the "Contract".

AND WHEREAS the Principal/Owner values full compliance with all relevant laws of the land, rules, regulations, economic use of resources and of fairness/transparency in its relation with its Bidder(s) and Contractor(s). AND WHEREAS to meet the purpose aforesaid both the parties have agreed to enter into this Integrity Agreement (hereinafter referred to as "Integrity Pact" or "Pact"), the terms and conditions of which shall also be read as integral part and parcel of the Tender/Bid documents and Contract between the parties.

NOW, THEREFORE, in consideration of mutual covenants contained in this Pact, the parties hereby agree as follows and this Pact witnesses as under:

Article 1: Commitment of the Principal/Owner

1) The Principal/Owner commits itself to take all measures necessary to prevent corruption and to observe the following principles:

(a) No employee of the Principal/Owner, personally or through any of his/her family members, will in connection with the Tender, or the execution of the Contract, demand, take a promise for or accept, for self or third person, any material or immaterial benefit which the person is not legally entitled to.

(b) The Principal/Owner will, during the Tender process, treat all Bidder(s) with equity and reason. The Principal/Owner will, in particular, before and during the Tender process, provide to all Bidder(s) the same information and will not provide to any Bidder(s) confidential / additional information through which the Bidder(s) could obtain an advantage in relation to the Tender process or the Contract execution.

(c) The Principal/Owner shall Endeavour to exclude from the Tender process any person, whose conduct in the past has been of biased nature.

2) If any information comes to the notice of the Principal/owner on the conduct of any of its employees which is a criminal offence under the Indian Penal code (IPC)/Prevention of Corruption Act, 1988 (PC Act) or is in violation of the principles herein mentioned or if there be a substantive suspicion in this regard, the Principal/Owner will inform the Asstt. General Manager Vigilance Officer and in addition can also initiate disciplinary actions as per its internal laid down policies and procedures.

Article 2: Commitment of the Bidder(s)/Contractor(s)

1) It is required that each Bidder/Contractor (including their respective officers, employees and agents) adhere to the highest ethical standards, and forthwith report the Principal/Owner about all suspected fraudulent act or corruption or Coercion or Collusion of any person connected with the tender process which it has knowledge or becomes aware any time, during the tendering process and throughout the negotiation or award of a contract.

2) The Bidder/Contractor commits himself/itself to take all measures necessary to prevent corruption. He/it commits himself/itself to observe the following principles during his/its participation in the Tender process and during execution of the Contract:

a) The Bidder/Contractor shall not, directly or through any other person or firm, offer, promise or give to any of the Principal/Owner's employees involved in the Tender process or execution of the Contract or to any third person any material or other benefit which he/she is not legally entitled to, in order to obtain in exchange any advantage of any kind whatsoever during the Tender process or during the execution of the Contract.

b) The Bidder/Contractor shall not enter with other Bidder(s) into any undisclosed agreement or understanding, whether formal or informal. This applies in particular to prices, specifications, certifications, subsidiary contracts, submission or non-submission of bids or any other actions to restrict competitiveness or to cartelize in the bidding process.

c) The Bidder/Contractor will not commit any offence under the relevant IPC/PC Act. Further the Bidder/Contract will not use improperly, (for the purpose of competition or personal gain), or pass on to others, any information or documents provided by the Principal/Owner as part of the business relationship, regarding plans, technical proposals and business details, including information contained or transmitted Electronically.

3) The Bidder/Contractor of foreign origin shall disclose the names and addresses of agents/representatives in India, if any. Similarly Bidder/Contractor of Indian Nationality shall disclose names and addresses of foreign agents/representatives, if any. Either the Indian agent on behalf of the foreign principal or the foreign principal directly could bid in a tender but not both. Further, in cases where an agent participate in a tender on behalf of one manufacturer, he shall not be allowed to quote on behalf of another manufacturer along with the first manufacturer in a subsequent/parallel tender for the same item.

4) The Bidder/Contractor will, when presenting his/its bid, disclose any and all payments he/it has made, is committed to or intends to make to agents, brokers or any other intermediaries in connection with the award of the Contract.

5) The Bidder/Contractor will not instigate third persons to commit offences outlined above or be an accessory to such offences.

6) The Bidder/Contractor will not, directly or through any other person or firm indulge in fraudulent practice means a willful misrepresentation or omission of facts or submission of fake/forged documents in order to induce public official to act in reliance thereof, with the purpose of obtaining unjust advantage by or causing damage to justified interest of others and/or to influence the procurement process to the detriment to the interests of Principal/Owner.

7) The Bidder/Contractor will not, directly or through any other person or firm use Coercive Practices against principal/owner and/or other bidder(s)/contractor(s). coercive practices mean the act of obtaining something, compelling an action or influencing a decision through intimidation, threat or the use of force directly or indirectly, where potential or actual injury may befall upon a person, his/ her reputation or property to influence their participation in the tendering process.

Article 3: Consequences of Breach

Without prejudice to any rights that may be available to the Principal/Owner under law or the Contract or its established policies and laid down procedures, the Principal/Owner shall have the following rights in case of breach of this Integrity Pact by the Bidder(s)/Contractor(s) and the Bidder/ Contractor accepts and undertakes to respect and uphold the Principal/Owner's absolute right:

1) If the Bidder/Contractor, either before award or during execution of Contract has committed a transgression through a violation of Article 2 above or in any other form, such as to put his reliability or credibility in question, the Principal/Owner at its discretion, is entitled to disqualify the Bidder/Contractor from the Tender process or terminate/determine the Contract, if already executed or exclude the Bidder/Contractor from future contract award processes after giving 14 days' notice to the contractor. The imposition and duration of the exclusion will be determined by the severity of transgression and determined by the Principal/Owner. Such exclusion may be forever or for a limited period as decided by the Principal/Owner.

2) Forfeiture of EMD/Performance Guarantee/Security Deposit: If the Principal/Owner has disqualified the Bidder(s) from the Tender process prior to the award of the Contract or terminated/determined the Contract or has accrued the right to terminate/determine the Contract according to Article 3(1), the Principal/Owner apart from exercising any legal rights that may have accrued to the Principal/Owner, may in its considered opinion forfeit the entire amount of Earnest Money Deposit, Performance Guarantee and Security Deposit of the Bidder/Contractor.

3) Criminal Liability: If any act/omission or conduct of a Bidder or contractor conduct of a Bidder or Contractor, or of an employee or a representative or an associate of a Bidder or Contractor which constitutes corruption within the meaning of IPC/PC Act brought to the notice of the Principal/Owner, or if the Principal/ Owner has substantive suspicion in this regard, the Principal/Owner shall be at liberty to inform the same to law enforcing agencies for further investigation.

Article 4: Previous Transgression

(i) The Bidder declares that no previous transgressions occurred in the last 5 years with any other Company in any country confirming to the anticorruption approach or with Central Government or State Government or any other Central/State Public Sector Enterprises in India that could justify his exclusion from the Tender process.

(ii) If the Bidder makes incorrect statement on this subject, he can be disqualified from the Tender process or the contract, if already awarded, can be terminated for such reason. Principal/owner will be entitled to exclude the contractor from future tender/contract award processes for a period not exceeding three years.

(iii) Without prejudice to any other legal rights or remedies available to the principal under the relevant clauses of the tender document.

Article 5: Equal Treatment of all Bidders/Contractors/Subcontractors

1) The Bidder(s)/Contractor(s) undertake(s) to demand from all subcontractors a commitment in conformity with this Integrity Pact. The Bidder/Contractor shall be responsible for any violation(s) of the principles laid down in this agreement/Pact by any of its Subcontractors/ sub-successful bidders.

2) The Principal/Owner will enter into Pacts on identical terms as this one with all Bidders and Contractors.

3) The Principal/Owner will disqualify Bidders, who do not submit, the duly signed

Pact between the Principal/Owner and the bidder, along with the Tender or violate its provisions at any stage of the Tender process, from the Tender process.

Article 6- Duration of the Pact

This Pact begins when both the parties have legally signed it. It expires for the Contractor/ Successful bidder 12 months after the completion of work under the contract or till the continuation of defect liability period, till the Contract has been awarded. If any claim is made/ lodged during the time, the same shall be binding and continue to be valid despite the lapse of this Pacts as specified above, unless it is discharged/ determined by the Competent Authority, Punjab National Bank.

Article 7-Independent External Monitor (IEM)

1. The Principal/Owner has appointed competent and credible Independent External Monitor(s) (IEM) Shri M. Deena Dalayan, (IA & AS. Retd.), email ID: dayalan1951@gmail.com & Shri. Raj Kumar Singh (I.R.S. Retd.), email ID: mrrajksingh@gmail.com for this Pact in consultation with the Central Vigilance Commission. The task of the Monitor is to review independently and objectively, whether and to what extent the parties comply with the obligations under this Pact.

2. The IEM is not subject to instructions by the representatives of the parties and performs his functions neutrally and independently. He reports to MD& CEO, Punjab National Bank.

3. The Bidder/Contractor accepts that the IEM has the right to access, without restriction, to all Project documentation of the Principal/Owner including that provided by the Contractor. The Contractor will also grant the IEM, upon his request and demonstration of a valid interest, unrestricted and unconditional access to his or any of his Sub-Contractor's project documentation. The IEM is under contractual obligation to treat the information and documents of the Bidder(s)/Contractor(s)/Subcontractor(s) with confidentiality.

4. In case of tenders having estimated value exceeding Rs 60 lakhs, the Principal/Owner will provide to the IEM sufficient information about all the meetings among the parties related to the Project and shall keep the IEM apprised of all the developments in the Tender Process.
5. As soon as the IEM notices, or believes to notice, a violation of this Pact, he will so inform the Management of the Principal/Owner and request the Management to discontinue or take corrective action, or to take other relevant action. The IEM can in this regard submit non-binding recommendations. However, beyond this, the IEM has no right to demand from the parties that they act in a specific manner, and/or refrain from action or tolerate action.
6. The IEM shall submit a written report to the MD & CEO, of the Principal/Owner within 6 to 8 weeks from the date of reference or intimation to him by the Principal/Owner and, should the occasion arise, submit proposals for correcting problematic situations.
7. The word "IEM" would include both singular and plural.
8. IEMs will not use or pass on any information or document provided to it regarding plans, technical proposals and business details for the purpose of competition or personal gains etc.

Article 8- Other Provisions

1. This Pact is subject to Indian Law, place of performance and jurisdiction is place where office of the Principal/Owner, who has floated the Tender, is located.
2. Changes and supplements need to be made in writing.
3. If the Contractor is a partnership or a consortium, this Pact must be signed by all the partners or consortium members. In case of a Company, the Pact must be signed by a representative duly authorized by board resolution.
4. Should one or several provisions of this Pact turn out to be invalid; the remainder of this Pact remains valid. In this case, the parties will strive to come to an agreement to their original intentions.
5. It is agreed term and condition that any dispute or difference arising between the parties with regard to the terms of this Integrity Agreement / Pact, any action taken by the Owner/Principal in accordance with this Integrity Agreement/ Pact or interpretation thereof shall not be subject to arbitration.

Article 9- LEGAL AND PRIOR RIGHTS

All rights and remedies of the parties hereto shall be in addition to all the other legal rights and remedies belonging to such parties under the Contract and/or law and the same shall be deemed to be cumulative and not alternative to such legal rights and remedies aforesaid. For the sake of brevity, both the Parties agree that this Integrity Pact will have precedence over the Tender/Contact documents with regard any of the provisions covered under this Integrity Pact. IN WITNESS WHEREOF the parties have signed and executed this Integrity Pact at the place and date first above mentioned in the presence of following witnesses:

..... (For and on behalf of Principal/Owner)

..... (For and on behalf of Bidder/Contractor)

WITNESSES:

1. (Signature, name and address)

2. (Signature, name and address)

Place:

Dated:

Proforma for the Bank Guarantee for Earnest Money Deposit

(To be stamped in accordance with stamp act)

Ref: Bank Guarantee # Date

Punjab National Bank
 Information Technology Division
 5, Sansad Marg
 New Delhi 110001

Dear Sir,

In accordance with your bid reference no. _____

Dated _____ M/s _____ having its registered
 office at _____ herein after

Called 'bidder') wish to participate in the said bid for **RFP for Supply, Installation, Implementation and Maintenance of Hyper-Converged Infrastructure & Add on components.**

An irrevocable Financial Bank Guarantee (issued by a nationalized / scheduled commercial Bank) against Earnest Money Deposit amounting to Rs. _____ Rupees (in words _____) valid up to _____ is required to be submitted by the bidder, as a condition for participation in the said bid, which amount is liable to be forfeited on happening of any contingencies mentioned in the bid document.

M/s _____ having its registered office at _____ has undertaken in pursuance of their offer to Punjab National Bank (hereinafter called as the beneficiary) dated _____ has expressed its intention to participate in the said bid and in terms thereof has approached us and requested us _____ (Name of Bank) _____ (Address of Bank) to issue an irrevocable financial Bank Guarantee against Earnest Money Deposit (EMD) amounting to Rs /- Rupees (in words _____) valid up to _____.

We, the _____ (Name of Bank) _____ (Address of Bank) having our Head office at _____ therefore Guarantee and undertake to pay immediately on first written demand by Punjab National Bank, the amount Rs. _____ Rupees (in words _____) without any reservation, protest, demur and recourse in case the bidder fails to Comply with any condition of the bid or any violation against the terms of the bid, Without the beneficiary needing to prove or demonstrate reasons for its such demand. Any Such demand made by said beneficiary shall be conclusive and binding on us irrespective of any dispute or difference raised by the bidder.

This guarantee shall be irrevocable and shall remain valid up to _____. If any further extension of this Guarantee is required, the same shall be extended to such required period on receiving instructions in writing, from Punjab National Bank, on whose behalf guarantee is issued.

"Notwithstanding anything contained herein above Our liability under this Bank guarantee shall not exceed Rs _____ Rupees (in words _____).

This Bank guarantee shall be valid up to . We are liable to pay the guaranteed amount or any part thereof under this Bank guarantee only if you serve upon us a written claim or demand, on or before _____ hours (Indian Standard Time) where after it ceases to be in effect in all respects whether or not the original Bank guarantee is returned to us."

In witness whereof the Bank, through its authorized officer has set its hand stamped on this

_____ Day of _____ 2019 at _____

Name of signatory

Designation

Email ID:

Contact No.

Bank Common Seal

Checklist

Sl. No.	Particulars	Submitted (Yes/No)	Page
1.	Proof of RFP Cost		
2.	Proof of EMD		
3.	Terms and Conditions (Annexure-I)		
4.	Undertaking By The Bidder (Annexure-II)		
5.	Compliance To Eligibility Criteria (Annexure III)		
6.	Bidders Information (Annexure-IV)		
7.	Compliance Statement (Annexure-V)		
8.	Litigation Certificate (Annexure – VII)		
9.	Undertaking For Non- Blacklisted(Annexure – VIII)		
10.	Turnover Certificate by CA(Annexure-IX)		
11.	Manufacturer's Authorization Form (MAF) (Annexure-Xa) (In case Bidder is not OEM)		
12.	Undertaking for being the OEM of the offered Solution/Appliance (Annexure-Xb) (In case Bidder is OEM)		
13.	Technical Specifications of the Solution (Annexure – XI)		
14.	Certificate of Incorporation		
15.	Complete Bill of Material (BOM) (Both hardware & Software)		
16.	Audited Balance Sheets & Profit & Loss Statements		
17.	Integrity Pact (Annexure – XIII)		
18.	Power of Attorney and Copy of Board Resolution		