

Form 1: Form of Bid

(Bidders is required to fill, sign, stamp and upload this form in vendor response otherwise bidder may be disqualified.)

Date:

To: Gentlemen and/or Ladies:

Having examined the Bidding Documents including Addenda Nos:_____ [insert numbers], the receipt of which is hereby duly acknowledged, we, the undersigned, offer to deliver _____ [description of goods and services], price valid for _____ [insert bid validity days] in conformity with the said Bidding Documents for the sum of _____ [total Bid Amount in words and figures] or such other sums as may be ascertained in accordance with the Schedule of Prices attached herewith and made part of this Bid.

We declare that our Bidding price did not involve agreements with other Bidders for the purpose of Bid suppression.

We are hereby confirming [insert the name of the Appointing Authority], to be the Appointing Authority, to appoint the adjudicator in case of any arisen disputes in accordance with **ITB Clause**.

We undertake, if our Bid is accepted, to deliver the goods in accordance with the delivery schedule specified in the Schedule of Requirements.

If our Bid is accepted, we undertake to provide a Performance Security (or Guarantee) in the form, in the amounts, and within the times specified in the Bidding Documents.

We declare that, as Bidder(s) we do not have conflict of interest with reference to

ITB.

We agree to abide by this Bid for the Bid Validity Period specified in **BDS**, and it shall remain binding upon us and may be accepted at any time before the expiration of that period.

We are not participating, as Bidders, in more than one Bid in this Bidding process, other than alternative offers in accordance with the Bidding Documents.

Our firm, its affiliates or subsidiaries – including any subcontractors or suppliers for any part of the contract – has not been declared ineligible by the Government of Pakistan under Pakistan's laws or official regulations.

Until a formal Contract is prepared and executed, this Bid, together with your written acceptance thereof and your notification of award, shall constitute a binding Contract between us.

We understand that you are not bound to accept the lowest or any Bid you may receive.

We certify/confirm that we comply with the eligibility requirements as per **ITB Clause 3** of the Bidding Documents.

Dated this _____ day of _____ 20_____.

(Name) _____ [signature]

[in the capacity of]

Duly authorized to sign Bid for and on behalf of _____

Form 2 : Delivery/Completion Schedule

(Bidders is required to fill, sign, stamp and upload this form in vendor response otherwise bidder may be disqualified.)

Item No.	Description of store	Specification	Tender Qty.	Required delivery period (Days)
1	Hyper Converged Infrastructure (HCI)	Technical specification detailed in Items/Lot Specification & IN Annexure Section FORM-12	20	As detailed below
2	Virtual Application Load Balancer		2	

Note : The bidders should quote rate for full tender quantity of all items, however, partial quantities for any item shall not be allowed.

Delivery / Completion Schedule :

100% Delivery shall be completed within 60 days from the date of issue of purchase order. Delivery period shall be completed not later than the dates specified. The terms "Delivery Date" shall mean the date of 1st day of Inspection or 15th day of Inspection Call whichever is earlier, shall be reckoned as date of delivery of Store to Consignee provided the goods accepted for supply have been delivered within 20-days of issue of Inspection Certificate subject to the condition that the supplier / manufacturer offers the material for Inspection at least 15-days prior to the due date and the offer is not rejected due to being a fake call or material not conforming to the specification.

Name in the capacity of Signature
of Bidder:

Duly authorized to sign the Bid for and on behalf of Dated on
..... day of20

Form 3: Bid Security Form

(Bidders is required to fill, sign, stamp and upload this form in vendor response otherwise bidder may be disqualified.)

To: Chief Executive Officer (CEO)
LESCO, Lahore.

Whereas _____ [name of the Bidder] (hereinafter called "the Bidder") has submitted its Bid dated [date of submission of Bid] for the delivery of [name and/or description of the goods] (hereinafter called "the Bid").

KNOW ALL PEOPLE by these presents that WE _____ [name of Financial Institution] of _____ [name of country], having our registered office at _____ [address of Financial Institution] (hereinafter called "the Bank"), are bound unto Chief Engineer (MM) LESCO (hereinafter called "the Procuring Agency") in the sum of _____ [amount] for which payment well and truly to be made to the said Procuring Agency, the Bank binds it-self, its successors, and assigns by these presents.

Sealed with the Common Seal of the said Bank this _____ day of 20_____ .

THE CONDITIONS of this obligation are:

1. If the Bid
 - (a) have withdrawn or modified our Bid during the period of Bid Validity specified in the Form of Bid;
 - (b) Disagreement to arithmetical correction made to the Bid price; or
 - (c) having been notified of the acceptance of our Bid by the Procuring Agency during the period of Bid Validity, (i) failure to sign the contract if required by Procuring Agency to do so or (ii) fail or refuse to furnish the Performance Security or to comply with any other condition precedent to signing the contract specified in the Bidding Documents.
2. We undertake to pay to the Procuring Agency up to the above amount upon receipt of its first written demand, without the Procuring Agency having to substantiate its demand, provided that in its demand the Procuring Agency states the amount claimed by it is due to it, owing to the occurrence of one or both of the conditions, specifying the occurred condition or conditions.

This guarantee shall remain in force up to and including **Twenty Eight (28)** days after the period of Bid Validity, and any demand in respect thereof should reach the Bank not later than the above date.

Name:..... in the capacity of signed

[Signature of the Bank]

Dated on day of 20

Form 4: Schedule of Deviations from Technical Specifications

(Bidders is required to fill, sign, stamp and upload this form in vendor response otherwise bidder may be disqualified.)

Note:- Attach additional sheets, if necessary, Non-listing of deviations, if any, shall make the bid non-responsive.

Sr. No.	Clause No. of Technical Specifications	Deviations/Clarifications

Stamp with Signature

Form 5: Schedule of Deviations from Contractual Conditions

(Bidders is required to fill, sign, stamp and upload this form in vendor response otherwise bidder may be disqualified.)

It is presumed that the tenderer shall not take any deviation. However, if he intends to take deviations to the specified Contractual/Commercial Conditions, those must be listed in the space provided below:-

Note:- Attach additional sheets, if necessary, Non-listing of deviations, if any, shall make the bid non-responsive.

Sr. No.	Clause No./Section No.	Deviations/Clarifications

Stamp with Signature

Form 6: Current Litigation Information

(Bidders is required to fill, sign, stamp and upload this form in vendor response otherwise bidder may be disqualified.)

It is certified that M/s. _____ is not involved in the litigation in any court of law against Lahore Electric Supply Company (LESCO) and other DISCOs / any formation of WAPDA till date.

Stamp with Signature

OR

If the firm (M/s. _____) is involved in any litigation against above organizations then provide one page brief alongwith following information on the prescribed proforma.

Name of DISCO / Formation	P.O / W.O	Dated	Item	Amount Involved (Rs.)		Reason for Litigation	Current Status with Attested Copies of the evidences (Under Process / Resolved / Stay Order / Arbitrations)
				Pending or Threatened	Resolved		

Net worth of the Firm ending latest fiscal year = _____

(Alongwith proof / documentary evidences of required net worth). Audit financial statement / FBR statement must be attached, otherwise bid may be disqualified.

%age of pending or threatened litigation with respect to Net worth ____

In case of any information found incorrect from the above, LESCO reserve the right to cancel our tender or prequalification and registration without assigning any reason what so ever and all consequences at our cost.

Stamp with Signature

Form 7: PROFORMA SHOWING PERFORMANCE OF THE FIRM AS PER Past Experience and Completed Contracts (Procurement Form) or Evaluation Criteria

(Bidders is required to fill, sign, stamp and upload this form in vendor response otherwise bidder may be disqualified.)

Name of Firm: _____

Name of DISCO	PO No. & Date	Description of Material	Qty. on Order	Delivery Schedule	Qty. Supplied to date	Date of Supply	Qty. Balance	Material Supplied		Remarks
								In time	Delay	

It is also certified that:-

- Our firm is not in litigation with any formation of WAPDA / DISCOs.
- In case of any information found incorrect from the above, LESCO reserve the right to cancel our tender or prequalification and registration without assigning any reason what so ever and all consequences at our cost.
- POs/WOs/Contracts are attached along with the procurement FORM.

Stamp with Signature

Form 8 : Beneficial Ownership Declaration Performa (For Contract Value more than 50 Million) - Annex-I of PPRA SRO 592

Declaration of Ultimate Beneficial Owners Information for Public Procurement Contacts.

(Bidders is required to fill, sign, stamp and upload this form for Contract value more than 50 Million in vendor response otherwise bidder may be disqualified.)

1. Name: _____
2. Father's Name / Spouse's Name _____
3. CNIC/NICOP/Passport No. _____
4. Nationality _____
5. Residential Address _____
6. Email Address _____
7. Date on which shareholding, control or interest acquired in the business. _____
8. In case of indirect shareholding, control or interest being exercised through intermediary companies, entries or other legal persons or legal arrangements in the chain of ownership or control, following additional particulars to be provided.

1	2	3	4	5	6	7	8	9	10
Name	Legal form (company/Limited Liability Partnership/ Association of Persons/Single Member Company/Partnership Firm/Trust/ Any other individual, body corporate (to be specified	Date of Incorporation / Association	Name of Registering Authority	Business Address	Country	Email Address	Percentage of shareholding, control or interest of BO in the legal person or legal arrangement	Percentage of shareholding, control or interest of legal person or legal arrangement in the Company	Identify of natural person who owns or control the legal person or arrangement

9. Information about Board of Directors (details shall be provided regarding number of shares in the capital of the company as set opposite respective names)

1	2	3	4	5	6	7	8
Name and surname (In Block Letters)	CNIC No. (in case of foreigner, Passport No.)	Father's / Husban d's name in full	Current Nationalit y	Any other Natio nality (ies)	Occupation	Residential Address in full or the registered/ principal office address for a subscribers other than natural person	Number of shares taken by cash subscriber (in figure and words)

Total number of shares taken (in figures
and words)

10. Any other information incidental to or relevant to Beneficial Owner(s).

[Additional page may be added if required]

Name and Signature
(Person authorized to issue notice on behalf of the company)

Form 9 : Conditions for Performance Security

(Bidders is required to read the information written in this form and ensure submission of performance security as per requirements of Procuring Agency)

- The Performance Bond equal to 5% of the value of the contract including GST from the following Scheduled Bank of Pakistan only:

Allied Bank Limited, National Bank of Pakistan, Bank Al- Habib, United Bank Limited, Muslim Commercial Bank, Habib Bank Limited, Askari Bank Limited, Bank Al- Falah Limited, The Bank of Punjab, Faysal Bank Limited, Meezan Bank Limited, Zarai Trakiati Bank Limited, Habib Metropolitan Bank Limited, Samba Bank Limited, Standard Chartered Bank Limited, Dubai Islamic Bank Pakistan Limited and JS Bank Limited or from a foreign bank duly counter guaranteed by above Scheduled Bank in Pakistan are acceptable operating in Pakistan duly registered with SBP.

Performance Guarantee in the shape of Shape of Call Deposit Receipt, CDR Demand Draft or Pay Order or Banker's Cheque are acceptable from any Scheduled Bank in Pakistan in favour of the **LESCO MISCELLANEOUS COLLECTION ACCOUNT** will be furnished by the successful bidder within 07-days from the date of issuance of Letter of Intent (LOI). In case of further delay due to late submission of performance guarantee / bond, Purchase Order will be issued after deducting the delayed period from the legitimate delivery schedule mentioned in the LOI or bidding documents. Bank Guarantee shall be furnished on non-judicial stamp paper of value as prescribed by the Government. The Performance security must be furnished along with acceptance of Letter of Intent in writing before the formal issuance of the Purchase Order.

- The performance security shall be valid up to **60-months** after completion of FCS and shall be prepared on **Performa appended in "Standard Forms"**.
- *In case of non-submission of Performance Security within 07-days from the notification of Contract award / Notification of Award, the bid security shall be forfeited.*
- Performance bond shall be furnished on non-judicial stamp paper of value Rs.500/-.

Stamp with Signature

Form 10 : Conditions for Bid Security

(Bidders is required to read the information written in this form and ensure submission of bid security as per requirements of Procuring Agency otherwise bidder may be disqualified.)

The bid security shall be, at the option of the bidder, in the form of Call Deposit Receipt or Pay Order or Banker's Cheque or a Bank Guarantee must be issued in the favor of **LESCO MISCELLANEOUS COLLECTION ACCOUNT**. Following Schedule Bank of Pakistan are acceptable (For Bid Security)

Allied Bank Limited, National Bank of Pakistan, Bank Al- Habib, United Bank Limited, Muslim Commercial Bank, Habib Bank Limited, Askari Bank Limited, Bank Al- Falah Limited, The Bank of Punjab, Faysal Bank Limited, Meezan Bank Limited, Zarai Trakiati Bank Limited, Habib Metropolitan Bank Limited, Samba Bank Limited, Standard Chartered Bank Limited, Dubai Islamic Bank Pakistan Limited and JS Bank Limited

Bid Security shall be valid for a period of 28-days beyond the Bid Validity date. Bid guarantee shall be furnished on non-judicial stamp paper of value Rs.500/-. In case of any amendment in Bid Security, the bidder should also furnish the same on non-judicial stamp paper of value Rs. 500/-.

NOTE : Bid Security declaration is NOT APPLICABLE.

Stamp with Signature

Form 11 : Bid May Liabie to Reject/Disqualified/Ineligible

(Bidders is required to read the information written in this form and ensure compliance as per requirements of Procuring Agency otherwise bidder may be Reject/Disqualified/Ineligible)

Bid may be liable to reject/disqualified/Ineligible:-

Bids may liable to be rejected and declared as rejected/ non-responsive/ disqualified/ Ineligible forthwith if:

1. **Firm does not meet Eligibility and Qualification Criteria** as per BDS Clause 3.
2. **Material is not as per required scope of work and specifications.**
3. **All securities requirements are not as per bidding documents i.e., Bid Security as per bid security conditions mentioned in bidding document and ITB Clause 18.**

Bid security/ guarantee in original as per bid security conditions and relevant Form of bidding documents Not accompanied with a bid guarantee or with insufficient/less/short validity or un-acceptable tender/bid guarantee or on format other than provided in the bidding document or or not comply with ITB 18.1, 18.3 to 18.9 or amendment in bid guarantee or submitted bid guarantee is from Banks other than mentioned in bidding document.

4. **Firm is not as per Tax requirements i.e., the bidder should have registered with Income Tax & Sales Tax Department and be listed on Active Taxpayer List (ATL).**
5. **Terms and conditions of bidding documents (undertaking on company letter head that all terms and conditions and clauses of bidding document are acceptable to bidder is not attached.)**
6. **In the event that the total amount of pending or threatened litigations, arbitration and other claims represents Fifty percent (50%) of the Bidder's net worth.**
7. **Financial statements and documents to ascertain the financial health of bidder not attached (In case of Litigation only)**
8. **The bid covers only a part/portion of the required equipment /lot instead of complete quantity.**
9. **Alternate proposal is submitted with the bid.**
10. **The bid is illegible in any material, part or contains alteration, additions, deletions, erasers other irregularities.**
11. **Tender is in some way connected with bids submitted under names different from his own.**
12. **Any false statement made in the bid or conditional bid is submitted.**
13. **The firm will be declared non-responsive if the firms /bidders /suppliers/contractors/local agents /subsidiaries, who have defaulted/did not supply , material/ poor performance/ forfeiture of performance security / sub-standard material against any contract agreement/purchase order in WAPDA/NTDC/DISCOs during the last three (03) years starting from the date of opening of this tender.**
14. **Bidder didn't fulfill the Past Performance and Completed Contract Experience conditions.**
15. **Any documents required as per List of documents required along with the bid not attached/uploaded with the bid.**
16. **Any documents/Forms required as per Annexure Sections of tender document completely filled, signed and stamped not attached/uploaded with the bid.**
17. **Non-Compliance with technical specifications as mentioned in item/lot specifications and as required in Form-12.**
18. **Complete tender documents not signed and stamped (in original) by the bidder.**

Stamp with Signature

Form 12 : FORM FOR COMPLIANCE OF TECHNICAL SPECIFICATIONS/ PROVISIONS

(Bidders is required to read, sign and stamped the information written in this form and ensure compliance as per requirements of Procuring Agency otherwise bidder may be Reject/Disqualified/Ineligible)

TECHNICAL SPECIFICATIONS - ITEM NO. 1

ITEM#1 Hyper-Converged Infrastructure

1. Scope of Work SOW	Compliance (YES /NO)
2. Virtualization Management	
3. Virtualization Hypervisor	
4. Storage virtualization	
5. Network Virtualization	
6. Backup Functions	
7. DR Functions	
1. Scope of Work SOW:	
Must include Deployment and Migration Services by OEM.	
scope of migration will be shared but LESCO with OEM to calculate number of physical servers and virtual machines.	
Must Quote the licenses of HCI for 20 sockets	
Must Include Onsite Training of 03 Participants by OEM.	
Must Quote 05 Years 24/7 Software Technical Support Services backed by OEM.	
2. Virtualization Management:	
a. Proposed Solution must provide High Availability / Redundancy for Virtualization Management Platform.	
b. Proposed Solution Must be compatible with any brand/Generation of Intel (x86) Architecture Processors.	
d. Virtualization management system nodes provide active and standby redundancy to ensure the availability of the platform.	
e. The virtualization platform has a built-in virtualization system health evaluation model.	
f. Proposed Solution must support to create and manage local Users with Role Based Access and Permission Control.	
g. Proposed Solution must Support Management for Existing Virtual Machines on VMware Platform for single window management.	
h. The solution able to support draw topology and power on the VMs and Virtual Switch based on the draw diagram in the HCI Management GUI. This is for IT administrator easy to maintain the HCI cluster.	
i. The visual real-time monitoring center provides a unified visual monitoring and management center for the failure of HCI of the overall software and hardware, reducing the operation and maintenance difficulty and workload. The visual real-time monitoring center can provide hardware reliability (including CPU, memory, disk, physical network card and raid card), system reliability (including cluster host, distributed storage, cluster network configuration status and cluster resource overload state), service reliability (including Disaster Recovery, cluster reliability HA, DRS, AI based Predictive DRS, virtual machine operation status and virtual machine backup) these three-levels real-time monitoring and hierarchical display. The operation and maintenance personnel can directly view the overall operation of the cluster and can quickly diagnose the health status of the cluster.	
j. Monitor the hardware platform including power supply, fan, temperature sensor, CPU, memory, hard disk and other hardware platform information of HCI.	
k. Proposed Solution must provide Web Bowser based Management Console.	
l. Proposed Solution must provide complete visibility and centralized management / control of the Virtualization Platform	
m. Proposed Solution must provide capability to scale up to minimum of 64 nodes or better.	
n. Support to analyze the usage of historical resources of virtual machine, host etc up to 1-year historical data or better	

Support resource capacity prediction service, built-in time series model, management platform to automatically realize data prediction, provide users with easy-to-use data prediction service, the service supports display the storage capacity resource usage. Based on AI Machine learning algorithms, predict and analyze early warning time points to help users do resource expansion, cost budgets, etc., and improve business reliability.

p. Must support live migration between existing HCI solution and the proposed HCI solution.

3. <u>Virtualization Hypervisor:</u>	Compliance (YES /NO)
a) Proposed Solution should be highly redundant providing capability for the VMs to restart on another node in case of any Node failure in the Cluster.	
b) Proposed Solution must provide VM Snapshot capability to revert back to previous point in time in case a failure or system error occurs.	
c) Proposed Solution must provide VM Clone capability for creating cloned instances from source VM for testing or any other purposes.	
d) Provides virtual machine snapshot function, supports setting manual and periodic snapshots. must support consistent snapshots for (Add multiple virtual machines to the consistency group to implement consistent snapshots and restore of the whole group of virtual machines)	
e) Supports clustering of multiple physical servers and can perform dynamic resource scheduling based on CPU and memory utilization.	
f) Supports setting read and write limits for virtual machine disk IOPS and I / O rates.	
g) Virtualization software has a built-in backup module, which enables full and incremental backup of virtual machines without the need to install backup software separately. It has no impact on business operations during backup, and supports scheduled backup (hourly, daily, weekly) settings.	
h) Proposed Solution must support mounting of storage using Industry's common storage protocols including iSCSI, FC, Network File Sharing (NFS).	
i) Proposed Solution must provide VM vMotion/live migration capability to live migrate VMs to any nodes in the Cluster without any downtime.	
j) Proposed Solution must provide the capability to hot-add resources including vCPUs and Memory.	
k) Proposed Solution must provide automated Resource Scheduling and Load Balancing capability for balanced performance on all nodes across the cluster.	
l) Proposed Solution must provide Distributed Switch capability to configure and administer switching for the entire Cluster.	
m) Proposed Solution must support virtual machine USB mapping across physical hosts; you can perform virtual machine USB mapping operations.	
o) Proposed Solution must support Host CPU & Memory Overcommitment Ratio Control.	
P) Hyper-convergence must support proactive HA function (Means VMs on sub-healthy hosts will automatically hot migrated to healthy hosts without any manual intervention) Users can flexibly choose the response method for sub-healthy hosts. Must also support AI based Predictive DRS.	
q) The proposed hypervisor must support agentless VM-level backup by integrating with Veeam and NetBackup.	
4. <u>Storage Virtualization:</u>	
a) Proposed Solution must provide SSD based Read Caching to improve the performance of the I/O.	
b) Proposed Solution must provide Automated Data Rebuilding capability to restore redundancy in case of any Disk or Node Failure.	
c) The Striped data multi copy mechanism is adopted to ensure the data reliability. The redundancy mode of RAID1 is not allowed. Independent hot spare is not needed in the storage node.	
d) Supports 2~3 copies	
e) Three nodes support the deployment of three copies. It is not allowed to add additional hard disks (groups), capacity, or nodes to satisfy the replication strategy. Make full use of the resources of each disk and each node.	
f) Flexible requirements for redundancy strategy: A group of hard disk pools (groups) can support both 2-copy and 3-copy strategies to maximize the use of disk capacity. There is no need to use additional disk groups to carry two different strategies, which greatly reduces customer costs.	
g) Data balance requirements: It is required to balance the data.	
Supports disk replacement wizard, provides a graphical and wizard-based interface, supports hot-swappable replacement of hard disks, and brings more efficient maintainability	
5. <u>Network Virtualization:</u>	
a) Must support NFV functions with the same Vendor and the NFV should be integrated in the same console as proposed hypervisor.	
b) Proposed Solution must provide capability to display Network Traffic Flow.	

c)Proposed Solution must provide complete Network Visualization of Virtual Network.	
d)Proposed Solution must provide capability for Network Quality of Service (QOS).	
d)Proposed Solution must provide capability for Network Quality of Service (QOS).	
e) Proposed Solution must include feature and license of Distributed Virtual Switch, Distributed Virtual Router, Distributed Firewalling (Micro-Segmentation).	
6. Backup Functions:	
a) Built-in backup function must be fully Compatible with Compute Hypervisor	
b) Built-in backup function must provide the capability to take full / Incremental level VM Backups.	
c) Built-in backup function must provide Automated Scheduling for Backups based on Hourly, Daily, weekly etc. scheduling.	
d) Built-in backup function must support to configure Internal Virtual Storage, External SAN or NAS to be Backup repository for Storing Virtual Machine Backups.	
e) Built-in backup function must support Industry's common storage protocols such as iSCSI, FC or Network File Sharing (NFS)	
f) Built-in backup function will not be limited to specific number of VMs and will support unlimited number of VMs for future scalability.	
7. DR Functions:	
a) Must have virtual machine-level disaster recovery with configurable RPO, and the RPO value must include license of 5xVMs.	
b) The disaster recovery software must has the ability to simulate disaster recovery drills.	
c)When the primary site returns to normal, the disaster recovery software supports one-click failback function.	
d)The disaster recovery solution must be compatible and support VM level replication to existing HCI solution deployed at LESCO Datacenter.	

Note : 100 % Compliance sheet (Y/N) serial no. wise with technical specifications as mentioned in item/lot specifications and as in above Form to be attached/uploaded with the Bid, otherwise bid may be disqualified.

Stamp with Signature

TECHNICAL SPECIFICATIONS – ITEM NO. 2

ITEM#2 Virtual Application Load Balancer

Virtual Application Load Balancer Qty=2	Compliance (YES /NO)
Must be a virtual appliance and supported on the Hypervisor in Item#1(Hyper-Converged Infrastructure)	
Must Be Listed in Gartner Magic Quadrant for Application Delivery Controller.	
Must Have Minimum 4 Gbps L4/L7 Throughput or more.	
Must Include inbound load balance, outbound load balance, DNS proxy.	
Must Include Application Aware Server Load Balancing.	
Must Include L4/L7 Content-aware switching and load balancing, and being able to be deployed as multiple virtual services for separate applications.	
Must Support server smooth on-line and off-line, eliminating server overload by limiting maximum access and maximum concurrent session in server.	
Must Support complete health monitoring based on SNMP, ICMP, UDP, TCP, DNS, RADIUS, HTTP, database (MYSQL /MSSQL /Oracle) and customized strategy.	
Must Support Passive health checking based on TCP and HTTP and detecting failed server by service flow.	
Must Support TCP monitoring for enabling server overload prevention.	
Must Support Surge prevention and connection queuing in balancer cache if server is overload.	
Must Support Advanced strategy including HTTP request/response rewrite, HTTP/HTTPS request match, automatic page forwarding, page abandoning.	
Must Support SSL acceleration, HTTP compression, RAM caching,	
TCP connection reuse for speeding user access and reducing hardware	
Must Support Enabling sticky sessions by resource IP, Cookie (insert /passive /rewrite) HTTP (Header /Body), RADIUS, SSL Session ID.	
Must Support Load balancing for Oracle, PostgreSQL and Mysql database and improving database server resource use.	
Must Support Realtime Statistics of Server Node Pools, Applications & Server Downtime.	
Must quote 3 Years Complete Features License.	
Must quote 3 Years Software Upgrade & 24x7 Technical Support.	
Must quote Onsite Configuration & Installation.	

Note : 100 % Compliance sheet (Y/N) serial no. wise with technical specifications as mentioned in item/lot specifications and as in above Form to be attached/uploaded with the Bid, otherwise bid may be disqualified.

Stamp with Signature

Form 13: Manufacturer's Authorization

[The Bidder shall require the Manufacturer to fill in this Form in accordance with the instructions indicated. This letter of authorization should be on the letter head of the Manufacturer and should be signed by a person with the proper authority to sign documents that are binding on the Manufacturer. The Bidder shall include it in its Bid, if so indicated in the BDS]

Date: _____[insert date (as day, month and year) of Bid submission]

No: _____[insert number of Bidding
process] Alternative No: _____[insert identification No if this is a Bid for an
alternative]

To: _____[insert complete name of Procuring Agency]

WHERE-AS

We _____[insert complete
name, address, email etc. of Manufacturer], who are official
manufacturers of _____[insert type of goods manufactured], having
factories at _____[insert full
address of Manufacturer's factories], do hereby authorize _____[insert
complete name of Bidder] to submit a Bid the purpose of which is to provide the following Goods,
manufactured by us
_____ [insert name and or brief description of the Goods],
and to subsequently negotiate and sign the contract.

Further, we M/s _____[insert complete name of
Manufacturer] undertake that our supplier / local agent / bidder

i.e M/s _____

[insert complete name of Bidder] will ensure the supply the material under this tender at the same
price and terms & conditions of the contract issued to our supplier /
local agent / bidder M/s _____[insert complete name of Bidder].

Further, for non-fulfilment of contracted obligations, bidder and its quoted manufacturer both will be
held responsible & bothe will be dealt as per PPRA Rules and bidding document conditions.

We hereby extend our full guarantee and warranty in accordance with Clause-18 of the General
Conditions of Contract with respect to the Goods offered by the above firm.

Signed: _____[inse
rt signature(s) of authorized representative(s) of the Manufacturer]

Name: _____[inser

t complete name(s) of authorized representative(s) of the Manufacturer] Title: [insert title]

Dated on _____ day of _____[insert date of signing]

