



Request for Open Competitive Bid (OCB)
for
Procurement of IT Infrastructure for the Data Lake
Project of the Real Time Governance Society, GoAP

Tender Ref. No. ITC51-15021/27/2025-PROC-APTS, Dt. 30-12-2025

Issued by
ANDHRA PRADESH TECHNOLOGY SERVICES LIMITED
(Government of AP Undertaking)

(CERT-In Empanelled and ISO 9001:2015, ISO 27001:2013 Certified)
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Section A – Schedule of Requirements

A.1. Introduction

1. This tender call is issued on e-procurement market place at www.apecprocurement.gov.in. All the terms and conditions are to be read jointly as mentioned in the e-procurement market website and in this document.
2. APTS invites responses (“Tenders”) to this Request for Proposals (“RFP”) from OEMs Agencies/authorized Partners (“Bidders”) for the provision of Hardware as described in Section D of this RFP, “Scope of Work” (“Hardware supply”). APTS is the Purchaser for this Government procurement competition (“the Purchaser”).
3. Any contract that may result from this RFP Process will be issued for a term of <as per bid data sheet> (“the Term”) which would include the hardware supply, warranty and maintenance support.
4. The Purchaser reserves the right to extend the warranty and maintenance support term for a period or periods of up to <as per bid data sheet> with a maximum of <as per bid data sheet> such extension or extensions on the same terms and conditions, subject to the <Purchaser’s> obligations at law.
5. Proposals must be received not later than time, date and venue mentioned in the Bid Data Sheet. Proposals that are received after the deadline WILL NOT be considered in this procurement process.

A.2. Data Lake Project Description

1. The Real Time Governance Society, GoAP is in the process of establishing Data Lake Project integrating data across 40+ departments and approximately 335+ HODs and Autonomous Organizations with approximately 400 applications having 4 Peta Bytes as on date available in APSDC of structured data. There are applications outside APSDC (Cloud, InHouse) having unstructured data and may have 1 Peta Byte of data. Overall data size is 5 Peta Byte, with standard deviation of 10% in data size possible, as well as annual incremental rate of 10%.
2. The technologies that will be used in the project are Cloudera, Talend, QlikSense, Erwin etc.
3. APTS on behalf of the CEO, RTGS, GoAP is the tender inviting authority and invites bids from the interested parties for supply, installation and maintenance of the following items:

Schedule I:

Sl. No.	Item Ref. Code	Item Title	Quantity	UoM
1	CL-01	Servers for HDFS Data Nodes (Bare metal servers)	25	Nos.
2	CL-02	Servers for Ozone Nodes (Bare metal servers)	15	Nos.
3	CL-03	Servers for HDFS Master Nodes, Ozone Master Nodes, Utility Nodes, Kafka Nodes, Gateway Nodes, Flink Nodes (Bare metal servers)	27	Nos.
4	CL-04	Servers for KMS for Encryption (Bare metal servers)	2	Nos.
5	CL-05	Servers for Master Nodes (Bare metal servers)	4	Nos.
6	CL-06	Servers for Worker Nodes (Bare metal servers)	10	Nos.
7	CL-07	Servers for GPU Nodes	2	Nos.
8	TE-01	Talend Virtualization Infra	1	Set

Note:

1. The details of items and their technical specifications to be supplied are mentioned in Section -D.

A.3. Bid Data Sheet:

1.	Tender Reference No.	ITC51-15021/27/2025-PROC-APTS, Dt. 30-12-2025
2.	Tender Title	Procurement of IT Infrastructure for the Data Lake Project of the Real Time Governance Society, GoAP
3.	APTS contact person for all tender related queries	Sri K. Shyam Sunder Mobile: 9963029402 email: shyamsunder.k@gov.in
4.	Eligibility Criteria	As per Section B
5.	No. of Schedules	1
6.	Schedule wise Items and Quantity Details	Please refer Section D
7.	Technical Specifications	Please refer Section D
8.	Delivery/Installation Period permitted	Please refer Clause G.1.
9.	Bid calling date	30-12-2025
10.	Bid documents downloadable from	30-12-2025, 5PM
11.	Pre-bid Meeting Date and Time	05-01-2026, 10 AM
12.	Last date/time for receipt of clarifications	05-01-2026, 3 PM
13.	Last date/time for Sale of document	13-01-2026, 2.00 PM
14.	Bid closing date/time	13-01-2026, 3.00 PM
15.	Pre-qualification bid opening date & time	13-01-2026, 3.30 PM

16.	Technical bid opening date and time	Will be intimated to pre-qualified bidders
17.	Commercial bid opening date and time	Will be intimated to technically qualified bidders.
18.	Evaluation Method	Schedule wise including taxes
19.	Selection criteria	Lowest quoted bid
20.	Bid document can be downloaded from:	1. https://apts.gov.in/tenders.aspx 2. https://tender.apecurement.gov.in/login.html#
21.	Bid Document Fee	Rs. 50,000/- to be paid through online through eprocurement portal
22.	Mode of bid submission	Online
23.	Sample Items of offered devices	Not Applicable
24.	Address for submission of bids	Online: https://tender.apecurement.gov.in/login.html#
25.	Earnest Money Deposit (EMD)	Rs. 1,00,00,000/- (Rs. One Crore only)
26.	Acceptable EMD Payment Modes	Challan/BG/Online Payment through AP Eprocurement Portal. Scanned copy of EMD document should be uploaded on e-Procurement website. The Original EMD should be submitted to APTS before 5 PM of next working day after bid closing day.
27.	EMD validity period	135 days from the bid opening date.
28.	Bid validity period	90 days from the bid opening date.
29.	Acceptable Banks for EMD BG/PBGs	Any Scheduled / Nationalized bank with atleast one branch in Vijayawada.
30.	EMD BG in favor of	The Managing Director, A.P. Technology Services Limited, Vijayawada
31.	Contract period	The contract period, from the date of signing of the agreement, includes 3 Years Warranty period.
32.	Contract signing authority	MD, APTS
33.	Warranty & AMC Period	Please refer Section D
34.	Variation in quantities	+/- 25%
35.	Period for furnishing performance security	Within 7 days from date of receipt of Notification of Award for the respective schedules.
36.	Performance Security Value	Successful bidder has to submit PBG for an amount of 10% of the Contract value in favor of "The Managing Director, A.P. Technology Services Limited" from any Nationalized / Scheduled Bank before signing of the contract.
37.	Performance security validity period	60 days beyond end of Warranty/AMC period.
38.	PBG in favor of	The Contract signing authority
39.	Payment, LD, SLA & Other Terms	Please refer Section G

40.	Conditional bids	Not acceptable and liable for rejection.
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Section B – Pre-qualification Criteria

B.1. Eligibility Criteria

SN O	Parameter	Criteria	Supporting documents to submit
1.	Eligible Bidders	• Manufacturer or • Authorized representative of a manufacturer • and should be in business of manufacture and or supply and maintenance of the IT & IT related equipment's for a minimum period of three (3) years in India as on bid calling date.	• Copy of Certificate of Incorporation • Copy of GST Registration • Copy of PAN
2.	AP GST Registration	• Bidder should have at least one office with GST Registration in any of the 26 districts of AP. • Billing/Invoice should be done from offices located in AP only. • In case, Bidder does not have office in AP as on bid submission date, should submit an undertaking in Pre-qualification bid, to open the office in AP and register for AP GST. • All Invoices should be raised with APGST Number only.	Copy of AP GST Registration Certificate or Undertaking to open office in AP with GST Registration to be submitted.
3.	Manufacturer's Authorization Form	The Bidder should submit the Manufacturer's Authorization Form (MAF) for all the offered products / items, in the format provided at Form P7, specific to this tender issued by OEM authorizing the bidder to submit the bid for tendering which is deemed as an agreement in between the bidder and OEM for the support and spares till the warranty period.	Manufacturer's Authorization Form as per format provided in this document. In case of Manufacturer, self declaration to be submitted.
4.	Service Centre Requirements	The Bidder/OEM should have Authorized Service Center in APCRDA Region as on bid submission date.	The details are to be provided in Form P-4.

5.	Financial Turnover Criteria	The Bidder should have a minimum annual average turnover of Rs. 100 Crore (Rs. Twenty Three Crore) in the last three financial years i.e. 2022-23, 2023-24 & 2024-25.	Audited Report/Certificate to be submitted. Provisional/Unaudited Certificate from CA is acceptable incase audit is not completed for last financial year.
6.	Positive Net Worth:	The bidder should have positive net worth during the last three financial years as on bid calling date.	Auditor Certificate to be submitted.
7.	Project Experience Criteria	The bidder should have executed work orders involving supply of Servers during the last 3 financial years (i.e. 2022-23, 2023-24 & 2024-25) as below: a) Atleast one work order with value of Rs. 50 Crore or more. b) Atleast two work orders with value of Rs. 27 Crore or more. c) Atleast three work orders with value of Rs. 20 Crore or more.	Copy of work orders/Satisfactory work completion certificates from the Clients to be submitted.
8.	Clean Track Record	The bidder should submit/give declaration stating that they are not debarred/blacklisted by any State Government, Central Government, Central & State Govt. Undertakings/enterprises/Organizations and by any other Quasi Government bodies/Organizations in India for non-satisfactory performance, corrupt & Fraudulent or any other unethical business practices in Form P5. If the bidder is debarred/ blacklisted as mentioned above, such bidder becomes ineligible to participate in the bidding process. In-case of any concealing of information relating to blacklisting or pending of cases as mentioned above or submission of fake information/fake documents, APTS reserves the right to cancel the work order/contract allotted, apart from forfeiting APTS reserves the right further to take penal action on the bidder.	

Note:

1. Consortium bids not permitted.
2. Relevant documents in support of above eligibility criteria should be furnished.
3. Simplification of Documentation for Bidding: Bidders may submit their bids with self-declarations in respect of the pre-qualification criteria prescribed in the tender document. The successful bidder shall submit the documents to prove their pre-qualification, as specified in the RFP, within 5 working days from the date of declaration of successful bidder. Failure to submit all support documents by the successful bidder within specified time or non-compliance with the self-declaration or non-fulfilment of the pre-qualification criteria specified on the RFP, upon their verification, shall entail forfeiting the EMD and Blacklisting of such bidder for a period of two years. In such cases, the procuring agency may proceed further with the next-ranked bid. Please refer to Clause No. 6 of G.O. Ms. No. 12, Dt. 08-06-2015 issued by ITE&C Department, GoAP.
4. Please refer Clause No.E.3. Regarding Restrictions on procurement from a bidder of a country which shares a land border with India, any bidder from a country which shares a land border with India will be eligible to bid in this tender only if the bidder is registered with the Competent Authority. While participating in bid, Bidder has to under take compliance of this and any false declaration and non-compliance of this would be a ground for immediate termination of the contract and further legal action in accordance with the laws.

Section C – Instructions for online bid submission:

C.1. Transaction Fee

All the participating bidders who submit the bids have to pay

1. An amount@ 0.03% (plus GST) of their final bid value online with a cap of Rs. 10,000/- for quoted value of purchase up to Rs.50 Crore (or)
2. An amount of Rs.25,000/- if the purchase value is above Rs.50crores plus GST applicable on transaction fee through online in favor of MD, APTS. The amount payable to APTS is nonrefundable.

C.2. Corpus Fund:

Successful bidder shall pay corpus fund in favor of MD, APTS through online (through AP e-Procurement Portal)

1. An amount @ 0.04% of the contract value with a cap of Rs.10,000/- (Rupees Ten Thousand Only) for contract value up to Rs.50 Crore (or)
2. An amount of Rs.25,000/- (Rupees Twenty-Five Thousand Only) for the contract value above Rs.50 Crore.

C.3. Procedure for bid submission

Bids shall be submitted online on <https://tender.apecurement.gov.in> platform

1. Bidders are requested to submit the bids after issue of minutes of the pre bid meeting duly considering the changes made if any, during the pre-bid meeting.
2. Bidders are totally responsible for incorporating/complying the changes/amendments issued if any during pre-bid meeting in their bid.
3. The participating bidders in the tender should register themselves free of cost on e-procurement platform in the website www.apecurement.gov.in.
4. Bidders can log-in to e-procurement platform in Secure mode only by signing with the Digital certificates.
5. The bidders who are desirous of participating in e-procurement shall submit their pre-qualification bids, technical bids, price bids as per the standard formats available at the e-market place.
6. The bidders should scan and upload the respective documents in Pre-Qualification and Technical bid documentation as detailed at relevant sections of the RFP including EMD.
7. Bidders should submit their responses as per the procedure specified in the e-Procurement portal being used for this purpose. Generally, the items to be uploaded on the portal would include all the related documents mentioned in this RFP, such as:
 - a. Tender Fee
 - b. EMD
 - c. Pre-qualification response

- d. Technical Proposal
 - e. Financial proposal
 - f. Additional certifications/documents Eg. Power of Attorney, CA certificates on turnover, etc.
8. However, each of the above documents must be uploaded in the format specified for this purpose and as per the specified folder structure in the e-Procurement portal.
 9. The bidders shall sign on all the statements, documents certificates uploaded by them, owning responsibility for their correctness/authenticity.
 10. The Prices should be quoted in online only. The Prices should not be indicated in the Pre-Qualification Proposal or Technical Proposal.
 11. The bidder must ensure that the bid is digitally signed by the Authorized Signatory of the bidding firm and has been duly submitted (freezed) within the submission timelines. The Purchaser will in no case be responsible if the bid is not submitted online within the specified timelines.
 12. All the pages of the Proposal document must be sequentially numbered and must contain the list of contents with page numbers. Any deficiency in the documentation may result in the rejection of the Bidder's Proposal.

C.4. Other Conditions

1. After uploading the documents, the copies of the uploaded statements, certificates, documents, original Demand Drafts in respect of Bid Security (except the Price bid/offer/break-up of taxes) are to be submitted by the bidder to the O/o The Managing Director, APTS, Vijayawada as and when required.
2. When asked, failure to furnish any of the uploaded documents, certificates, will entitle in rejection of the bid.
3. If any of the certificates, documents, etc., furnished by the Bidder are found to be false / fabricated / bogus, the bidder will be disqualified, blacklisted, action will be initiated as deemed fit and the Bid Security will be forfeited.
4. APTS will not hold any risk and responsibility regulating non-visibility of the scanned and uploaded documents.
5. The Documents that are uploaded online will only be considered for Bid Evaluation.
6. Important Notice to Contractors, Suppliers and Department users
7. In the endeavor to bring total automation of processes in e-Procurement, the Govt. has issued orders vide G.O.Ms.No.13, dated 05.07.2006 permitting integration of electronic Payment Gateway of ICICI/HDFC/Axis Banks with e-Procurement platform, which provides a facility to participating suppliers / contractors to electronically pay the transaction fee online using their credit cards.
8. In case of consortium either the prime bidder or the consortium partner can purchase the bid document. The bid can be filed either with user ID of prime bidder or consortium partner.

Section D – Technical Specifications and Requirements

D.1. Scope of Work

1. All the items are to be supplied with minimum technical specifications mentioned in D.2.
2. Higher or better specifications than the mentioned specifications are acceptable.
3. Make and Model of the offered items and their compliance to below mentioned technical specifications are to be clearly mentioned by the bidders in their technical compliance statement.
4. Only one make and model to be quoted. Multiple options not acceptable.
5. Bidder should supply detailed operations and maintenance manual for each appropriate unit of the supplied items.
6. Successful bidder has to supply, install & maintain all the items including re-installation of Operating system and other applications incase gets corrupted. In case, the supplied items are down and not working, same need to be repaired and restored for normal functioning as per agreed Service Level Requirements. Failing which penalty will be recovered from Performance Security.
7. (i) Warranty period as specified in the BoM, will start from the date of Installation. (ii) Incase of Site Not Ready (SNR Certificate to submit) warranty will start after 30days from the date of delivery.
8. APTS may ask the bidders to demonstrate their offered devices before the Technical Committee for Technical Compliance.
9. Bidder/OEM shall provide service desk portal for call logging and monitoring & resolution. The original call log for all the logged calls of complaints & calls closed status should be sent by email to APTS/Department on monthly basis for monitoring.
10. Along with the above mentioned call log, a date wise abstract of calls logged and repair status within SLA and outside SLA shall be provided on the dash board by Bidder/OEM.
11. Persistent complaints from the user department during the warranty/maintenance period relating to the improper service will be sufficient ground for the APTS to blacklist the successful bidder from participating in the future tenders.
12. At its discretion, APTS/Department may enter into Annual Maintenance Contract with the supplier after completion of warranty period. AMC Payments will be released to the supplier quarterly after successful maintenance of the equipment under AMC for that period. Service Level Agreement mentioned in this RFP during warranty period is also applicable for AMC period.

D.2. Technical Specification Requirements

Item 1: CL 01 - Servers for HDFS Data Nodes (Bare metal servers)

#	Parameter	Specifications
	Make & Model	<<Specify>>
1	Chassis	2 U Rack Mountable

#	Parameter	Specifications
2	CPU	Latest series Processor/s with 32 Physical Cores with Hyperthreading (64 logical cores) are to be supplied with provision to expand up to 64 Physical Cores.
3	Memory	512GB DDR5 Registered DIMM (RDIMM) scalable up to 8TB.
4	Memory Protection	· Advanced ECC with multi-bit error protection · Online spare · Mirrored memory · Fast fault tolerance/Memory self- healing & Fault Resilient Memory'
5	HDD Bays	· 24 SFF or 12 LFF HDD/SSD drives from day 1. · The drive carrier should have intuitive icon- based display along with "DO NOT REMOVE" caution indicator that gets activated automatically in order to avoid data loss/downtime due to wrong drive removal or equivalent alert mechanism.
6	Internal Storage	· 2 x 960GB M.2 SSD in RAID 1 Configuration for OS and logs. · 2 x 7.68TB NVME Drives · 10 x 16TB SATA/SAS/SSD Drives
7	Controller	Integrated or add-on PCIe 3.0 based 12G SAS RAID Controller with RAID 0, 1, 5, 6, 10, 50, 60 with 2 GB of Flash backed write cache onboard.
8	Network Cards	· 1x 1GbE 4-Port Adapter · Ethernet 10/25Gb 2-port SFP28 Adapter
9	FC HBA	1x Dual Port 32Gbps FC HBA
10	Interfaces	· USB 2.0/3.0 – 4 Nos.
11	Bus Slots	· Should have · PCI-Express 5.0 x16 slots – 8 Nos. · PCIe 5.0x8 slots – 2 Nos.
12	Power Supply	2 x 1600 Watts Platinum Hot Swap Power Supplies
13	Fans	Redundant hot-pluggable system fans
13	Industry Standard Compliances	· ACPI 6.3 Compliant · PCIe 5.0 Compliant · WOL Support · PXE Support · Energy Star · UEFI 2.6 · SMBIOS 3.1 · Redfish API · SNMP v3 · TLS 1.2 · DMTF Systems Management Architecture
15	System Security	· UEFI Secure Boot support · Security feature to ensure servers do not execute compromised firmware code · FIPS 140-2 validation

#	Parameter	Specifications
		· Tamper- free updates - components digitally signed and verified
		· Secure Recovery - recover critical firmware to known good state on detection of compromised firmware
		· Ability to rollback firmware
		· Secure erase of NAND/User data
		· TPM (Trusted Platform Module) 2.0
		· Chassis Intrusion detection option
		· Should support tool to provision server using RESTful API to discover and deploy servers at scale
		· NVMe wear level display
		· Two factor Authentication
16	Latest OS and Latest Virtualization Software Support	Shall support Microsoft Windows Server 2019 or above/RHEL 7 or above/Ubuntu 18 or above/VMware ESXi 7 or above
17	GPU support	System should support NVIDIA's latest computational accelerators and graphics accelerators
18	System tuning for performance	1. System should support feature for improved workload throughput for applications sensitive to frequency fluctuations. This feature should allow processor operations in turbo mode without the frequency fluctuations associated with running in turbo mode.
		2. System should support workload Profiles for simple performance optimization
19	Secure encryption	· System should support Encryption of the data (Data at rest) on the internal storage using encryption keys.
		· Should support local key management for single server and remote key management for central management for enterprise-wide data encryption deployment.
20	Firmware security	Should maintain repository for firmware and drivers' recipes to aid rollback or patching of compromised firmware. Should also store Factory Recovery recipe preloaded to rollback to factory tested secured firmware.
21	Server Management	· System remote management should support browser based graphical remote console along with Virtual Power button, remote boot using USB/CD/DVD Drive. It should be capable of offering upgrade of software and patches from a remote client using Media/image/folder.
		· Server should have dedicated 1Gbps remote management port and Controller with necessary software and licenses for full remote management functionally.

#	Parameter	Specifications
		· Remote management port should have storage space earmarked to be used as a repository for firmware, drivers and software components. The components can be organized in to install sets and can be used to rollback/patch faulty firmware. · Server should support agentless management using the out- of-band remote management port. · System should support embedded remote support to transmit hardware events directly to OEM or an authorized partner for automated phone home support. · The Server Management Software should be of the same brand as of the server supplier
22	Cloud Enabled Monitoring and Analytics	· Offered servers shall have cloud enabled monitoring and analytics engine for proactive management. All required licenses for same shall be included in the offer. · Cloud Enabled Monitoring and analytics engine shall have capability to provide following: - o Providing Firmware upgrade and patch upgrade recommendations proactively. - o Providing power and support entitlement status. - o Recommendations to eliminate performance bottlenecks and critical events, based on Analytics engine having capability of proactive recommendation for arresting the issues / problems.
23	Accessories	Railing kit and necessary C13 - C14/C19-C20 Power Cables
24	Warranty and Support	3 Years 24x7 onsite support

Item 2: CL-02 - Ozone Nodes (Bare metal servers)

#	Parameter	Specifications
1	Chassis	2U Rack Mountable
2	Platform	Offered Platform shall be a dense platform supporting 24 x Large Form factor drives so that it can be used for multi-purpose uses like Software defined storage, Scale out databases like Mongo DB, Cassandra, Data lake like Ezernal Data Fabric, Hadoop Data Lake etc.
3	CPU	Minimum two numbers of latest Scalable Processors supporting up to 48 cores per processor and shall be offered with minimum 16 Physical Cores per processor with hyper threading
4	Motherboard	Compatible Chipset
5	Memory	Offered system shall be supplied with minimum of 512 GB DDR5 memory operating at 5600 MT/sec
6	HDD Bays	1. Offered Server shall be supplied with 24 _ X 16 TB NL SAS drives and 3x3.84 TB NVMe SSD drives..

#	Parameter	Specifications
		2. Offered server shall be supplied with at-least Dual M.2 NVMe boot drives of 960GB each without consuming any drive slot in Raid 1.
7	Hard disk drive	Drives shall be hot-plug.
8	Controller	1. Boot drives shall be configured in Raid 1. 2. Vendor shall offer additional Raid controller card for LFF drives with following minimum features: 3. PCIe 4.0 based and shall have minimum of 8GB Flash Back write cache (FBWC) 4. Shall have minimum of 32 ports or Lanes. 5. Shall be supported to work in both Raid and HBA mode. 6. Shall support RAID 0,1,5,6, 10, 50, 60, Raid 1 with triple copy and Raid 10 with Triple copy. 7. Shall support at-least 64 number of Volumes. 8. Shall support extending logical drive, background surface scan, instant secure erase, Migration of raid / stripe size as well as modification of write cache policy.
9	Raid Controller Certification & other Critical features	1. Offered H/W raid controller shall be certified or validated with both VMWARE VSAN and Microsoft Space direct. 2. Offered H/W raid controller shall support at-least 64 Logical drives and shall support rapid re-build and parity initialization. 3. Offered H/W raid controller shall support SSD accelerations for I/O requests so that attached SSD disks can speak to controllers directly while bypassing the controller firmware layer.
10	Networking features	1Gb 4-port network adaptors and Offered Server shall be supplied with at-least 2 x 25GbE Ports.
11	Bus Slots	1. Minimum 6 x PCI-Express 5.0 slots, All the slot shall be at-least x16. 2. Offered server shall also support 2 x OCP ports at PCI 5.0 Speed.
12	Power Supply	1. Should support hot plug Platinum redundant low halogen power supplies. 2. Server shall be configured with at-least dual 1600W power supply.
13	Fans	Redundant hot-plug system fans. At-least 5 - Dual rotor fan shall be supplied.
14	Industry standard Compliance	ACPI 6.4 Compliant PCIe 5.0 Compliant WOL Support Microsoft® Logo certifications PXE Support USB 3.2 Gen1 Compliant SMBIOS 3.4 Redfish API IPMI 2.0 Secure Digital 4.0

#	Parameter	Specifications
		TPM 2.0 support Advanced Encryption Standard (AES) Triple Data Encryption Standard (3DES) SNMP v3 TLS 1.2 DMTF Systems Management Architecture for Server Hardware Command Line (SMASH CLP) One Button Secure Erase
15	Security	UEFI Secure Boot and Secure Start support Immutable Silicon Root of Trust FIPS 140-2 validation Common Criteria certification Configurable for PCI DSS compliance Advanced Encryption Standard (AES) and Triple Data Encryption Standard (3DES) on browser Support for Commercial National Security Algorithms (CNSA) Granular control over remote access interfaces Smart card (PIV/CAC) and Kerberos based 2-factor Authentication Tamper-free updates - components digitally signed and verified Secure Recovery - recover critical firmware to known good state on detection of compromised FW Ability to rollback firmware Secure erase of NAND TPM (Trusted Platform Module) 2.0 option Bezel Locking Kit Chassis Intrusion detection
16	Operating Systems and Virtualization Software Support	Windows Server. Red Hat Enterprise Linux (RHEL) SUSE Linux Enterprise Server (SLES) Canonical Ubuntu
17	Secure encryption	1. System should support Encryption of the data (Data at rest) for internal storage using controller based encryption. Any licenses required for it shall be provided. 2. System shall support encryption at-least for Raid Volumes. 3. Should support local key management for single server and remote key management for central management for enterprise-wide data encryption deployment.
18	Provisioning	1. Should support tool to provision server using RESTful API to discover and deploy servers at scale 2, Provision one to many servers using own scripts to discover and deploy with Scripting Tool (STK) for Windows and Linux or Scripting Tools for Windows PowerShell

#	Parameter	Specifications
19	Firmware security	Should maintain repository for firmware and drivers recipes to aid rollback or patching of compromised firmware. Should also store Factory Recovery recipe preloaded to rollback to factory tested secured firmware
20	Embedded Remote Management and firmware security	1. System remote management should support browser based graphical remote console along with Virtual Power button, remote boot using USB/CD/DVD Drive. It should be capable of offering upgrade of software and patches from a remote client using Media/image/folder; It should support server power capping and historical reporting and should have support for multifactor authentication. 2. Server should have dedicated 1Gbps remote management port. 3. Server should have storage space earmarked to be used as a repository for firmware, drivers and software components. The components can be organized in to install sets and can be used to rollback/patch faulty firmware. 4. Server should support agentless management using the out-of-band remote management port. 5. The server should support monitoring and recording changes in the server hardware and system configuration. It assists in diagnosing problems and delivering rapid resolution when system failures occur. 6. Two factor Authentication. 7. Local or Directory-based user accounts with Role based access control. 8. Remote console sharing upto 6 users simultaneously during pre-OS and OS runtime operation, Console replay - Console Replay captures and stores for replay the console video during a server's last major fault or boot sequence. Microsoft Terminal Services Integration, 128 bit SSL encryption and Secure Shell Version 2 support. Should provide support for AES and 3DES on browser. Should provide remote firmware update functionality. Should provide support for Java free graphical remote console. 9. Should support managing multiple servers as one via Group Power Control. Group Power Capping. Group Firmware Update. Group Configuration. Group Virtual Media and Encrypted Virtual Media. Group License Activation. 10. Should support RESTful API integration. 11. System should support embedded remote support to transmit hardware events directly to OEM or an authorized partner for automated phone home support.

#	Parameter	Specifications
		12. Server should have security dashboard : displaying the status of important security features, the Overall Security Status for the system, and the current configuration for the Security State and Server Configuration Lock features. 13. One-button Secure Erase designed to decommission/repurpose servers. 14. NVMe wear level display. 15. Workload Performance Advisor - For Providing server tuning recommendations to improve server performance.
21	Server Management	Software should support dashboard view to quickly scan the managed resources to assess the overall health of the data center. It should provide an at-a-glance visual health summary of the resources user is authorized to view. The Dashboard minimum should display a health summary of the following: • Server Profiles • Server Hardware • Appliance alerts The Systems Management software should provide Role-based access control Zero Touch Provisioning (ZTP) using SSDP with remote access Management software should support integration with popular virtualization platform management software like Vmware vCenter & vRealize Operations, and Microsoft System Center & Admin Center Should help provide proactive notification of actual or impending component failure alerts on critical components like CPU, Memory and HDD. Should provide an online portal that can be accessible from anywhere. The portal should provide one stop, online access to the product, support information and provide information to track warranties, support contracts and status. The Portal should also provide a personalised dashboard to monitor device health, hardware events, contract and warranty status. Should provide a visual status of individual devices and device groups. The Portal should be available on premise (at our location - console based) or off premise (in the cloud). Should help to proactively identify out-of-date BIOS, drivers, and Server Management agents and enable the remote update of system software/firmware components. Should have dashboard for firmware baselines while performing minimum required firmware checks and highlighting out-of-compliance devices for updates with the selected firmware baseline The Server Management Software should be of the same brand as of the server supplier.

#	Parameter	Specifications
22	Cloud Enabled Monitoring and Management	1. Secure connection from customer sites to HPE cloud service 2. Unified Identity & Access Management 3. Manages and controls servers regardless of physical location 4. Subscription-based entitlement 5. Efficient Device Onboarding 6. Firmware Update Awareness with Intelligent delta-only based updates 7. Set Group firmware Baseline and Compliance monitoring and notification 8. Group based firmware management that can be scheduled or on-demand 9. Remote Site management with low bandwidth/high latency network connectivity 10. Role-based access and views for managed customer environments 11. GUI and Rest APIs for core features
23	Warranty and Support	3 Years 24x7 onsite support

Item 3: CL-03 - Servers for HDFS Master Nodes, Ozone Master Nodes, Utility Nodes, Kafka Nodes, Gateway Nodes, Flink Nodes (Bare metal servers)

#	Parameter	Specifications
	Make & Model	<<Specify>>
1	Chassis	1 U Rack Mountable
2	CPU	Latest series Processor/s with 32 Physical Cores with Hyperthreading are to be supplied with provision to expand up to 64 Physical Cores.
3	Memory	512GB DDR5 Registered DIMM (RDIMM) scalable up to 8TB.
4	Memory Protection	· Advanced ECC with multi-bit error protection · Online spare · Mirrored memory · Fast fault tolerance/Memory self- healing & Fault Resilient Memory'
5	HDD Bays	· 8 SFF HDD/SSD drives from day 1. · The drive carrier should have intuitive icon- based display along with "DO NOT REMOVE" caution indicator that gets activated automatically in order to avoid data loss/downtime due to wrong drive removal or equivalent alert mechanism.
6	Internal Storage	· 2 x 960GB M.2 SSD in RAID 1 Configuration for OS and logs. · 8 x 1.92TB NvME Drives
7	Controller	Integrated or add-on PCIe 3.0 based 8G SAS RAID Controller with RAID 0, 1, 5, 6, 10, 50, 60.

#	Parameter	Specifications
8	Network Cards	· 1x 1GbE 4-Port Adapter
		· Ethernet 10/25Gb 2-port SFP28 Adapter
9	FC HBA	1x Dual Port 32Gbps FC HBA
10	Interfaces	· USB 2.0/3.0 – 4 Nos.
11	Bus Slots	· Should have
		· PCI-Express 5.0 x16 slots – 8 Nos.
		· PCIe 5.0x8 slots – 2 Nos.
12	Power Supply	2 x 1600 Watts Platinum Hot Swap Power Supplies
13	Fans	Redundant hot-pluggable system fans
14	Industry Standard Compliances	· ACPI 6.3 Compliant
		· PCIe 5.0 Compliant
		· WOL Support
		· PXE Support
		· Energy Star
		· UEFI 2.6
		· SMBIOS 3.1
		· Redfish API
		· SNMP v3
		· TLS 1.2
15	System Security	· DMTF Systems Management Architecture
		· UEFI Secure Boot support
		· Security feature to ensure servers do not execute compromised firmware code
		· FIPS 140-2 validation
		· Tamper- free updates - components digitally signed and verified
		· Secure Recovery - recover critical firmware to known good state on detection of compromised firmware
		· Ability to rollback firmware
		· Secure erase of NAND/User data
		· TPM (Trusted Platform Module) 2.0
		· Chassis Intrusion detection option
16	Latest OS and Latest Virtualization Software Support	· Should support tool to provision server using RESTful API to discover and deploy servers at scale
		· NVMe wear level display
17	GPU support	· Two factor Authentication
18	System tuning for performance	System should support NVIDIA's latest computational accelerators and graphics accelerators
		1. System should support feature for improved workload throughput for applications sensitive to frequency fluctuations. This feature should allow processor operations in turbo mode without the frequency fluctuations associated with running in turbo mode.

#	Parameter	Specifications
		2. System should support workload Profiles for simple performance optimization
19	Secure encryption	· System should support Encryption of the data (Data at rest) on the internal storage using encryption keys. · Should support local key management for single server and remote key management for central management for enterprise-wide data encryption deployment.
20	Firmware security	Should maintain repository for firmware and drivers' recipes to aid rollback or patching of compromised firmware. Should also store Factory Recovery recipe preloaded to rollback to factory tested secured firmware.
21	Server Management	· System remote management should support browser based graphical remote console along with Virtual Power button, remote boot using USB/CD/DVD Drive. It should be capable of offering upgrade of software and patches from a remote client using Media/image/folder. · Server should have dedicated 1Gbps remote management port and Controller with necessary software and licenses for full remote management functionally. · Remote management port should have storage space earmarked to be used as a repository for firmware, drivers and software components. The components can be organized in to install sets and can be used to rollback/patch faulty firmware. · Server should support agentless management using the out-of-band remote management port. · System should support embedded remote support to transmit hardware events directly to OEM or an authorized partner for automated phone home support. · The Server Management Software should be of the same brand as of the server supplier
22	Cloud Enabled Monitoring and Analytics	· Offered servers shall have cloud enabled monitoring and analytics engine for proactive management. All required licenses for same shall be included in the offer. · Cloud Enabled Monitoring and analytics engine shall have capability to provide following: - o Providing Firmware upgrade and patch upgrade recommendations proactively. - o Providing power and support entitlement status. - o Recommendations to eliminate performance bottlenecks and critical events, based on Analytics engine having capability of proactive recommendation for arresting the issues / problems.
23	Accessories	Railing kit and necessary C13 - C14/C19-C20 Power Cables
24	Warranty and Support	3 Years 24x7 onsite support

Item 4: CL-04 – Servers for KMS for Encryption (Bare metal servers)

#	Parameter	Specifications
	Make & Model	<<Specify>>
1	Chassis	1 U Rack Mountable
2	CPU	Latest series Processor/s with 8 Physical Cores with Hyperthreading are to be supplied with provision to expand up to 64 Physical Cores.
3	Memory	128GB DDR5 Registered DIMM (RDIMM) scalable up to 8TB.
4	Memory Protection	· Advanced ECC with multi-bit error protection · Online spare · Mirrored memory · Fast fault tolerance/Memory self- healing & Fault Resilient Memory'
5	HDD Bays	· 8 SFF HDD/SSD drives from day 1. · The drive carrier should have intuitive icon- based display along with "DO NOT REMOVE" caution indicator that gets activated automatically in order to avoid data loss/downtime due to wrong drive removal or equivalent alert mechanism.
6	Internal Storage	· 2 x 960GB M.2 SSD in RAID 1 Configuration for OS and logs. · 2 x 1.92TB NVMe Drives
7	Controller	Integrated or add-on PCIe 3.0 based 12G SAS RAID Controller with RAID 0, 1, 5, 6, 10, 50, 60 with 2 GB of Flash backed write cache onboard.
8	Network Cards	· 1x 1GbE 4-Port Adapter · Ethernet 10Gb 2-port SFP28 Adapter
9	FC HBA	1x Dual Port 32Gbps FC HBA
10	Interfaces	USB 2.0/3.0 – 4 Nos.
11	Bus Slots	· Should have · PCI-Express 5.0 x16 slots – 8 Nos. · PCIe 5.0x8 slots – 2 Nos.
12	Power Supply	2 x 1600 Watts Platinum Hot Swap Power Supplies
13	Fans	Redundant hot-pluggable system fans
14	Industry Standard Compliances	· ACPI 6.3 Compliant · PCIe 5.0 Compliant · WOL Support · PXE Support · Energy Star · UEFI 2.6 · SMBIOS 3.1 · Redfish API

#	Parameter	Specifications
15	System Security	· SNMP v3
		· TLS 1.2
		· DMTF Systems Management Architecture
		· UEFI Secure Boot support
		· Security feature to ensure servers do not execute compromised firmware code
		· FIPS 140-2 validation
		· Tamper- free updates - components digitally signed and verified
		· Secure Recovery - recover critical firmware to known good state on detection of compromised firmware
		· Ability to rollback firmware
		· Secure erase of NAND/User data
		· TPM (Trusted Platform Module) 2.0
		· Chassis Intrusion detection option
		· Should support tool to provision server using RESTful API to discover and deploy servers at scale
		· NVMe wear level display
		· Two factor Authentication
16	Latest OS and Latest Virtualization Software Support	Shall support Microsoft Windows Server 2019 or above/RHEL 7 or above/Ubuntu 18 or above/VMware ESXi 7 or above
17	GPU support	System should support NVIDIA's latest computational accelerators and graphics accelerators
18	System tuning for performance	1. System should support feature for improved workload throughput for applications sensitive to frequency fluctuations. This feature should allow processor operations in turbo mode without the frequency fluctuations associated with running in turbo mode.
		2. System should support workload Profiles for simple performance optimization
19	Secure encryption	· System should support Encryption of the data (Data at rest) on the internal storage using encryption keys.
		· Should support local key management for single server and remote key management for central management for enterprise-wide data encryption deployment.
20	Firmware security	Should maintain repository for firmware and drivers' recipes to aid rollback or patching of compromised firmware. Should also store Factory Recovery recipe preloaded to rollback to factory tested secured firmware.

#	Parameter	Specifications
21	Server Management	· System remote management should support browser based graphical remote console along with Virtual Power button, remote boot using USB/CD/DVD Drive. It should be capable of offering upgrade of software and patches from a remote client using Media/image/folder.
		· Server should have dedicated 1Gbps remote management port and Controller with necessary software and licenses for full remote management functionally.
		· Remote management port should have storage space earmarked to be used as a repository for firmware, drivers and software components. The components can be organized in to install sets and can be used to rollback/patch faulty firmware.
		· Server should support agentless management using the out- of-band remote management port.
		· System should support embedded remote support to transmit hardware events directly to OEM or an authorized partner for automated phone home support.
		· The Server Management Software should be of the same brand as of the server supplier
22	Cloud Enabled Monitoring and Analytics	· Offered servers shall have cloud enabled monitoring and analytics engine for proactive management. All required licenses for same shall be included in the offer.
		· Cloud Enabled Monitoring and analytics engine shall have capability to provide following:
		o Providing Firmware upgrade and patch upgrade recommendations proactively.
		o Providing power and support entitlement status.
		o Recommendations to eliminate performance bottlenecks and critical events, based on Analytics engine having capability of proactive recommendation for arresting the issues / problems.
23	Accessories	Railing kit and necessary C13 - C14/C19-C20 Power Cables
24	Warranty and Support	3 Years 24x7 onsite support

Item 5: CL 05 - Servers for Master Nodes (Bare metal servers)

#	Parameter	Specifications
	Make & Model	<<Specify>>
1	Chassis	1 U Rack Mountable

#	Parameter	Specifications
2	CPU	Latest series Processor/s with 32 Physical Cores with Hyperthreading are to be supplied with provision to expand up to 64 Physical Cores.
3	Memory	512GB DDR5 Registered DIMM (RDIMM) scalable up to 8TB.
4	Memory Protection	· Advanced ECC with multi-bit error protection · Online spare · Mirrored memory · Fast fault tolerance/Memory self- healing & Fault Resilient Memory'
5	HDD Bays	· 8 SFF HDD/SSD drives from day 1. · The drive carrier should have intuitive icon- based display along with "DO NOT REMOVE" caution indicator that gets activated automatically in order to avoid data loss/downtime due to wrong drive removal or equivalent alert mechanism.
6	Internal Storage	· 2 x 960GB M.2 SSD in RAID 1 Configuration for OS and logs. · 4x1.92TB NVME Drives
7	Controller	Integrated or add-on PCIe 3.0 based 12G SAS RAID Controller with RAID 0, 1, 5, 6, 10, 50, 60 with 2 GB of Flash backed write cache onboard.
8	Network Cards	· 1x 1GbE 4-Port Adapter · Ethernet 10/25Gb 2-port SFP28 Adapter
9	FC HBA	1x Dual Port 32Gbps FC HBA
10	Interfaces	USB 2.0/3.0 – 4 Nos.
11	Bus Slots	· Should have · PCI-Express 5.0 x16 slots – 8 Nos. · PCIe 5.0x8 slots – 2 Nos.
12	Power Supply	2 x 1600 Watts Platinum Hot Swap Power Supplies
13	Fans	Redundant hot-pluggable system fans
14	Industry Standard Compliances	· ACPI 6.3 Compliant · PCIe 5.0 Compliant · WOL Support · PXE Support · Energy Star · UEFI 2.6 · SMBIOS 3.1 · Redfish API · SNMP v3 · TLS 1.2 · DMTF Systems Management Architecture
15	System Security	· UEFI Secure Boot support

#	Parameter	Specifications
		· Security feature to ensure servers do not execute compromised firmware code
		· FIPS 140-2 validation
		· Tamper- free updates - components digitally signed and verified
		· Secure Recovery - recover critical firmware to known good state on detection of compromised firmware
		· Ability to rollback firmware
		· Secure erase of NAND/User data
		· TPM (Trusted Platform Module) 2.0
		· Chassis Intrusion detection option
		· Should support tool to provision server using RESTful API to discover and deploy servers at scale
		· NVMe wear level display
		· Two factor Authentication
16	Latest OS and Latest Virtualization Software Support	Shall support Microsoft Windows Server 2019 or above/RHEL 7 or above/Ubuntu 18 or above/VMware ESXi 7 or above
17	GPU support	System should support NVIDIA's latest computational accelerators and graphics accelerators
18	System tuning for performance	1. System should support feature for improved workload throughput for applications sensitive to frequency fluctuations. This feature should allow processor operations in turbo mode without the frequency fluctuations associated with running in turbo mode.
		2. System should support workload Profiles for simple performance optimization
19	Secure encryption	· System should support Encryption of the data (Data at rest) on the internal storage using encryption keys.
		· Should support local key management for single server and remote key management for central management for enterprise-wide data encryption deployment.
20	Firmware security	Should maintain repository for firmware and drivers' recipes to aid rollback or patching of compromised firmware. Should also store Factory Recovery recipe preloaded to rollback to factory tested secured firmware.

#	Parameter	Specifications
21	Server Management	· System remote management should support browser based graphical remote console along with Virtual Power button, remote boot using USB/CD/DVD Drive. It should be capable of offering upgrade of software and patches from a remote client using Media/image/folder.
		· Server should have dedicated 1Gbps remote management port and Controller with necessary software and licenses for full remote management functionally.
		· Remote management port should have storage space earmarked to be used as a repository for firmware, drivers and software components. The components can be organized in to install sets and can be used to rollback/patch faulty firmware.
		· Server should support agentless management using the out- of-band remote management port.
		· System should support embedded remote support to transmit hardware events directly to OEM or an authorized partner for automated phone home support.
		· The Server Management Software should be of the same brand as of the server supplier
22	Cloud Enabled Monitoring and Analytics	· Offered servers shall have cloud enabled monitoring and analytics engine for proactive management. All required licenses for same shall be included in the offer.
		· Cloud Enabled Monitoring and analytics engine shall have capability to provide following:
		o Providing Firmware upgrade and patch upgrade recommendations proactively.
		o Providing power and support entitlement status.
23	Accessories	o Recommendations to eliminate performance bottlenecks and critical events, based on Analytics engine having capability of proactive recommendation for arresting the issues / problems.
24	Warranty and Support	Railing kit and necessary C13 - C14/C19-C20 Power Cables
24	Warranty and Support	3 Years 24x7 onsite support

Item 6: CL 06 - Servers for Worker Nodes (Bare metal servers)

#	Parameter	Specifications
	Make & Model	<<Specify>>
1	Chassis	1 U Rack Mountable

#	Parameter	Specifications
2	CPU	Latest series Processor/s with 48 Physical Cores with Hyperthreading are to be supplied with provision to expand up to 64 Physical Cores.
3	Memory	512GB DDR5 Registered DIMM (RDIMM) scalable up to 8TB.
4	Memory Protection	· Advanced ECC with multi-bit error protection · Online spare · Mirrored memory · Fast fault tolerance/Memory self- healing & Fault Resilient Memory'
5	HDD Bays	· 8 SFF HDD/SSD drives from day 1. · The drive carrier should have intuitive icon- based display along with "DO NOT REMOVE" caution indicator that gets activated automatically in order to avoid data loss/downtime due to wrong drive removal or equivalent alert mechanism.
6	Internal Storage	· 2 x 960GB M.2 SSD in RAID 1 Configuration for OS and logs. · 3 x 3.84TB NVMe Drives
7	Controller	Integrated or add-on PCIe 3.0 based 12G SAS RAID Controller with RAID 0, 1, 5, 6, 10, 50, 60 with 2 GB of Flash backed write cache onboard.
8	Network Cards	· 1x 1GbE 4-Port Adapter · Ethernet 10/25Gb 2-port SFP28 Adapter
9	FC HBA	1x Dual Port 32Gbps FC HBA
10	Interfaces	· USB 2.0/3.0 – 4 Nos.
11	Bus Slots	· Should have · PCI-Express 5.0 x16 slots – 8 Nos. · PCIe 5.0x8 slots – 2 Nos.
12	Power Supply	2 x 1600 Watts Platinum Hot Swap Power Supplies
13	Fans	Redundant hot-pluggable system fans
14	Industry Standard Compliances	· ACPI 6.3 Compliant · PCIe 5.0 Compliant · WOL Support · PXE Support · Energy Star · UEFI 2.6 · SMBIOS 3.1 · Redfish API · SNMP v3 · TLS 1.2 · DMTF Systems Management Architecture
15	System Security	· UEFI Secure Boot support

#	Parameter	Specifications
		· Security feature to ensure servers do not execute compromised firmware code
		· FIPS 140-2 validation
		· Tamper- free updates - components digitally signed and verified
		· Secure Recovery - recover critical firmware to known good state on detection of compromised firmware
		· Ability to rollback firmware
		· Secure erase of NAND/User data
		· TPM (Trusted Platform Module) 2.0
		· Chassis Intrusion detection option
		· Should support tool to provision server using RESTful API to discover and deploy servers at scale
		· NVMe wear level display
		· Two factor Authentication
16	Latest OS and Latest Virtualization Software Support	Shall support Microsoft Windows Server 2019 or above/RHEL 7 or above/Ubuntu 18 or above/VMware ESXi 7 or above
17	GPU support	System should support NVIDIA's latest computational accelerators and graphics accelerators
18	System tuning for performance	1. System should support feature for improved workload throughput for applications sensitive to frequency fluctuations. This feature should allow processor operations in turbo mode without the frequency fluctuations associated with running in turbo mode.
		2. System should support workload Profiles for simple performance optimization
19	Secure encryption	· System should support Encryption of the data (Data at rest) on the internal storage using encryption keys.
		· Should support local key management for single server and remote key management for central management for enterprise-wide data encryption deployment.
20	Firmware security	Should maintain repository for firmware and drivers' recipes to aid rollback or patching of compromised firmware. Should also store Factory Recovery recipe preloaded to rollback to factory tested secured firmware.
21	Server Management	· System remote management should support browser based graphical remote console along with Virtual Power button, remote boot using USB/CD/DVD Drive. It should be capable of offering upgrade of software and patches from a remote client using Media/image/folder.

#	Parameter	Specifications
		· Server should have dedicated 1Gbps remote management port and Controller with necessary software and licenses for full remote management functionally.
		· Remote management port should have storage space earmarked to be used as a repository for firmware, drivers and software components. The components can be organized in to install sets and can be used to rollback/patch faulty firmware.
		· Server should support agentless management using the out- of-band remote management port.
		· System should support embedded remote support to transmit hardware events directly to OEM or an authorized partner for automated phone home support.
		· The Server Management Software should be of the same brand as of the server supplier
22	Cloud Enabled Monitoring and Analytics	· Offered servers shall have cloud enabled monitoring and analytics engine for proactive management. All required licenses for same shall be included in the offer.
		· Cloud Enabled Monitoring and analytics engine shall have capability to provide following:
		o Providing Firmware upgrade and patch upgrade recommendations proactively.
		o Providing power and support entitlement status.
		o Recommendations to eliminate performance bottlenecks and critical events, based on Analytics engine having capability of proactive recommendation for arresting the issues / problems.
23	Accessories	Railing kit and necessary C13 - C14/C19-C20 Power Cables
24	Warranty and Support	3 Years 24x7 onsite support

Item 7: CL 07 – Servers for GPU Nodes

#	Parameter	Specifications
1	Chassis	4U Rack Mountable
2	CPU	Two numbers of latest series Processors with 32Cores physical cores with hyperthreading
3	GPU Options	Up to 8x double-wide GPU (NVIDIA L40S/H100 NVL/H200/RTX PRO 6000 Blackwell), to be quoted with 2 no.s of RTX PRO 6000 Blackwell
4	Memory	32 DIMM slots. Servers should be supplied with 512 GB memory and scalable upto 4 TB using DDR5 Registered DIMM (RDIMM) operating

#	Parameter	Specifications
		at 6400 MT/s Should be capable of identifying and reporting whether genuine OEM memory is installed for system reliability.
5	Bus Slots	Server should support upto six PCI-Express 5.0 x16 slots.
6	BOOT optimized storage	2 x 480 GB M.2 NVMe Hot Plug Boot Optimized Storage in RAID 1
7	HDD Bays	Should support Upto 8 SFF NVMe and configured with 2* 7.68TB NVMe SSDs
8	Controller	Embedded / PCIe based x16 RAID controller with 8GB Flash backed write cache, supporting RAID 0, 1, 5, 6, 10, 50, 60. Must support mix-and-match SAS, SATA, and NVMe drives to the same controller. Controller must support 6G SATA, 12G SAS, 16G NVMe. Above mentioned controller must support following: 1. Expand Logical Drive 2. Instant Secure Erase 3. Migrate RAID/Stripe Size 4. Modifying Cache Write Policy 5. Move Logical Drive 6. Re-enable Failed Logical Drive 7. Load balancing 8. Configurable stripe size up to 1 MB 9. Check consistency for background data integrity 10. Patrol read for media scanning and repairing 11. Rebuild
9	Networking features	Server should be supplied with below networking cards: 1. 1Gb 4-port network adaptors 2. 10Gb 2-port Ethernet adaptor
10	Interfaces	Serial - 1 (Optional) VGA - 1 rear USB support with Up to 4 total: 1 front, 2 rear, 1 internal. 1GbE Dedicated management port
11	Power Supply	Should support hot plug redundant (N+1) low halogen power supplies with minimum 96% efficiency Server must have dedicated power supply for System Domain and GPU Domain with redundancy.
12	Fans	hot-plug fan assemblies

#	Parameter	Specifications
13	Industry Standard Compliance	ACPI 6.5 Compliant Advanced Encryption Standard (AES) Triple Data Encryption Standard (3DES) Active Directory v1.0 ASHRAE A3/A4 DMTF Systems Management Architecture for Server Hardware Command Line Protocol (SMASH CLP) Energy Star IPMI 2.0 Microsoft® Logo certifications PCIe 5.0 Compliant PXE Support Redfish API Secure Digital 4.0 SMBIOS 3.7 SNMP v3 TLS 1.3 TPM 2.0 Support UEFI Class 3 USB 3.0 Compliant
15	System Security	Enhanced Server Data Security: Encryption and key management, UEFI-managed encryption, and self-encrypting drives (SED) for enhanced data-at-rest protection. Sanitize Data with One-Button Erase: Must be NIST SP 800-88 compliant. Must be FIPS 140-3, NIST SP 800-53, NIST SP 800-171, and NIST SP 800-88 Compliant. Must provides an intuitive cloud operating experience, ensuring streamlined and highly secure operations from the edge to the cloud. Physical Security Options: System maintenance switch, USB security, bezel lock, and chassis intrusion detection switch. Servers must be built using trusted supply chain to undergo rigorous inspections and checkpoints to detect and mitigate malicious microcode and counterfeit parts throughout the server build and lifecycle

#	Parameter	Specifications
		Server must be offered with Trusted Platform Module (TPM) 2.0. UEFI Secure Boot and Secure Start support Tamper-free updates - components digitally signed and verified Immutable Silicon Root of Trust Ability to rollback firmware Secure Recovery - recover critical firmware to known good state on detection of compromised firmware
16	Operating Systems and Virtualization Software Support	Windows Server. Red Hat Enterprise Linux (RHEL) SUSE Linux Enterprise Server (SLES) VMware ESXi. Canonical Ubuntu
17	Firmware security	1. Should maintain repository for firmware and drivers recipes to aid rollback or patching of compromised firmware. Should also store Factory Recovery recipe preloaded to rollback to factory tested secured firmware 2. Physically Tamper-Resistant independent security system outside remote management ASIC, designed to meet FIPS 140-3 Level 3 hardware protection requirements. 3. Firmware verification and recovery—Run scheduled firmware verification scans and configure recovery actions to implement when an issue is detected. 4. Security dashboard—View the status of important security features and evaluate your configuration for potential risks. When a risk is detected, you can view details and advice for how to improve system security

#	Parameter	Specifications
18	Embedded Remote Management	1. System remote management should support browser based graphical remote console along with Virtual Power button, remote boot using USB/CD/DVD Drive. It should be capable of offering upgrade of software and patches from a remote client using Media/image/folder; It should support server power capping and historical reporting and should have support for multifactor authentication 2. Server should have dedicated 1Gbps remote management port 3. Server should support agentless management using the out-of-band remote management port 4. The server should support monitoring and recording changes in the server hardware and system configuration. It assists in diagnosing problems and delivering rapid resolution when system failures occur 5. Two factor Authentication 6. Local or Directory-based user accounts with Role based access control 7. Remote console sharing upto 6 users simultaneously during pre-OS and OS runtime operation, Console replay - Console Replay captures and stores for replay the console video during a server's last major fault or boot sequence. Microsoft Terminal Services Integration, 128 bit SSL encryption and Secure Shell Version 2 support.Should provide support for AES on browser.Should provide remote firmware update functionality. 8. Should support RESTful API integration
19	Server Management	Software should support dashboard view to quickly scan the managed resources to assess the overall health of the data center. It should provide an at-a-glance visual health summary of the resources user is authorized to view. The Dashboard minimum should display a health summary of the following: • Server Profiles • Server Hardware • Appliance alerts

#	Parameter	Specifications
		The Systems Management software should provide Role-based access control
		Management software should support integration with popular virtualization platform management software like Vmware vCenter & vRealize Operations, and Microsoft System Center & Admin Center
		Should help provide proactive notification of actual or impending component failure alerts on critical components like CPU, Memory and HDD.
		Should have dashboard for firmware baselines while performing minimum required firmware checks and highlighting out-of-compliance devices for updates with the selected firmware baseline
		The Server Management Software should be of the same brand as of the server supplier.
20	Cloud Enabled Monitoring and Management	1. Delivers cloud operational agility by unifying compute operations as a service across the compute lifecycle from edge-to-cloud. 2. Manages and controls servers regardless of physical location 3. Subscription-based entitlement Server Lifecycle Management 1. Seamless firmware upgrades with Intelligent delta-only based updates. 2. Group-based firmware management that can be scheduled or on-demand 3. Serial and parallel firmware updates with 'Stop on failure' option 4. Group based policy for configurations, OS installs, BIOS settings. 5. OS Image deployment 6. Rest API Support Supportability 1. Automatic creation of support cases for critical serviceable events. 2. Notification of critical hardware alerts via in-app and email notifications

#	Parameter	Specifications
		3. On-demand firmware compliance reporting
		4. Remote console using a web browser with HTML5 support
		Identity & Access Management
		1. Unified Identity & Access Management
		2. Role-based Access Control (RBAC)
		3. Single Sign-on (SSO)
		4. Resource-level restriction policies (RRP)
		Sustainability - Carbon footprint reporting
		Predictive AI insights to forecast future energy costs and carbon emissions. Threshold-based alerting.
		AI-driven insights with workflow policy approvals
		Software must support multi- tenancy
		Software must offer map-based visibility with an intuitive view of server health via global map
		Multi-vendor server monitoring
21	Warranty and Support	3 Years 24x7 onsite support

Item 7: TE 01 - Talend Virtualization Infra (Cluster)

#	Parameter	Functionality
1	Platform	- Offered platform shall be a next generation infrastructure and cloud operational experience so that RTGS can build self-service private cloud and deliver unified cloud service for VM to infrastructure management. - Offered platform shall provide Self-service private Cloud, Hyperconvergence to manage and provision Compute, Network and Storage from a cloud native console and a power of converged infrastructure so that both compute and Storage can scale independently. - Offered Platform shall have complete independence for the scaling of both Compute and Storage platform. Scaling of both components shall be completely independent.
2	Hypervisor Support	- Offered self-service private cloud platform shall be based upon a well-known Hypervisor from reputed vendors like Broadcom, HPE, Microsoft, Nutanix etc. as per below specifications and requirements. - Offered self-service private cloud platform shall be qualified with at-least 2 hypervisors and customer shall have an option to choose the 2nd

#	Parameter	Functionality
		hypervisor, apart from supplied one by procuring / providing the appropriate licenses.
3	Licenses	1. Vendor shall provide the required Hypervisor virtualization licenses for entire offered configuration. 2. Vendor shall ensure that their licensing is either based upon Sockets or actual number of cores per server
4	Capacity & Scalability	1. Offered Platform shall be supplied with at-least /Minimum 8 number of Compute nodes(minimum total cores 404) in single cluster, scalable to at-least 16, along with 60 TB capacity using 7.68TB NVMe drives on storage layer. 2. Each compute engine shall have flexibility to see and consume the entire capacity of storage layer. 3. Offered self-service private cloud platform shall be scalable to more than 1PB raw physical capacity using 15.36TB TLC NVMe drives. 4. Each compute node / engine shall be supplied with at-least 4 x 10Gbps IP ports, 1.5 TB memory along with dual latest generation Intel processor with minimum 2.5 Ghz clock speed and each processor with 32 Cores. Each compute node shall have at-least two number of minimum 480 GB NVMe drives for boot. Offered compute node shall also support 25Gbps & 100Gbps IP ports. 5. Offered platform shall also be supplied with additional dedicated 512GB cache / memory on storage layer. This shall be integral part of storage layer and shall not be offered on disk drives. 6. In case vendor doesn't have dedicated 512GB Cache / memory on storage layer then vendor shall provide 2TB additional usable mirrored caching space on dedicated drives of each offered compute node. 7. Vendor shall provision additional 32 dedicated CPU Cores for Storage layer functionality as well in the overall offered solution.
5	Compute nodes Attributes	1. Offered compute engines must be built using trusted supply chain to undergo rigorous inspections and checkpoints to detect and mitigate malicious microcode and counterfeit parts throughout the server build and lifecycle. 2. Offered compute engines shall have Immutable Silicon Root of Trust. 3. Offered compute engines should maintain repository for firmware and drivers' recipes to aid rollback or patching of compromised firmware. Should also store Factory Recovery recipe preloaded to rollback to factory tested secured firmware. 4. Offered compute engines shall be physically Tamper-Resistant independent security system outside remote management ASIC, designed to meet FIPS 140-3 Level 3 hardware protection requirements.

#	Parameter	Functionality
6	Data Protection	1. Offered platform shall use all NVMe flash drives only for storage layer. All offered NVMe Flash drives on storage layer shall be configured with Hardware raid with double parity protection or in Replication factor 3 (RF-3) for asked usable capacity, if hardware raid is not supported by the bidder. 2. Failure of any compute engine shall not reduce the overall number of offered drives. In case vendor is not supporting this capability, then additional one node of the same configuration in terms of compute and storage shall be provided.
7	Architecture and Performance	1. Offered self-service private cloud platform storage layer shall be true Active-active so that every logical disk is striped across all offered drives, and all offered drives shall be able to contribute the IOs to all storage layers or controllers simultaneously. 2. Offered platform shall have flexibility to utilize all offered drives on storage layer for a given virtual machines for both read and write operations and shall not be limited to local node allocation.
8	No Single point of Failure	Offered platform shall be configured in no single point of failure-environment. Vendor shall design in such a way that storage layer shall provide at-least 100% data availability and VM availability is being maintained through the offered hypervisor clustering.
9	CPU and Drives support	Offered platform shall have the capability to support either Intel or AMD and various NVMe flash capacities drives within the same cluster.
10	Investment Protection	Offered platform shall non-disruptively scalable to higher generation platform within the given family without any forklift upgrade. There shall be no downtime, no data re-balancing while upgrading to next generation model.
11	Hybrid Management	1. Offered self-service private cloud platform shall also support Amazon Web services and Azure public cloud provider for VM operations. 2. Offered self-service private cloud platform shall also allow creation of VM from Public cloud provider directly from the Private cloud console and shall be able to import the images and instance type while provisioning the VM.
12	Life Cycle Management	Offered self-service private cloud platform shall list down the current version of offered system (Hardware, Management module, Hypervisor, Service Pack, Storage layer) and shall also provide the update path of next version from the GUI itself.
13	Disk Endurance	For maximizing the overall performance and NVMe SSD endurance, offered storage layer shall support full RAID stripe write to backend disk drives for eliminating the white space issues of NVMe SSD drives.
14	Encryption	1. For Storage Layer, Vendors shall offer only encrypted drives with appropriate encryption licenses. Vendor shall not offer any controller based or Software based encryption. 2. Offered self-service private cloud platform shall support at least external key managers from Utimaco ESKM and Thales Cipher Trust

#	Parameter	Functionality
		Manager. Vendor shall also offer internal Key manager engine for key management.
15	Thin Provisioning and Space optimization	Offered self-service private cloud platform shall support inline data efficiency engine (Supporting Thin Zero detect and re-claim, De-duplication and Compression) and shall be enabled by default. Vendor shall have flexibility to enable / disable the data efficiency engine at the time of Volume creation, which is going to be assigned as datastore.
16	Snapshot / Point in time copy / Zero Copy Clone / Thin Clone	1. For ransomware protection, the offered platform must provide the capability to create immutable, read-only snapshots, that cannot be modified. 2. The offered self-service private cloud platform shall provide the capability to create compliant, read-only snapshots, which makes it impossible to modify or delete the snapshot and its base volume by the user, a system administrator, and the manufacturer. 3. The protection period of the above snapshots must be individually configurable between 1 minute and several years. Changing the system clock must not allow the tampering of protection.
17	Replication for Storage Layer	1. Offered self-service private cloud platform shall have flexibility to de-link the storage layer for hardware-based data replication so that, if required customer can decide the customized configuration at DR location. 2. Offered and supported hardware-based replication shall support incremental replication after resumption from Link Failure situation or during failback operations. 3. Offered and supported hardware-based replication shall have capability to create the application consistency group for replication operations. Shall have flexibility to have more than 256 volumes per consistency group.
18	Ransomware Detection	1. The offered platform shall have in-built inline data-adaptive ransomware detection engine for the volumes being used for Virtual machines. 2. Ransomware detection engines shall be completely based upon dynamic calculation of trigger thresholds using in-built training periods and by analysing the write data path instead of using traditional approaches like measuring CPU utilization, change of data rate, data reduction efficiency ratios and data entropy. 3. It shall be possible to select a specific set of volumes or group of volumes to be enabled for Ransomware detection for block data being used for virtual machines. 4. It shall also be possible to adjust the balance between sensitivity of detection process and false positives events for effective detection process. Vendor shall provide required configurable parameters or handlers for the same.

#	Parameter	Functionality
		5. Ransomware detection engine shall be truly intelligent by creating an immediate creation of alert snapshots after noticing the suspicious event. 6. It shall also be possible to export the ransomware detection logs to a remote server, such as a SIEM or XDR and Call home support.
19	Ransomware Protection	1. For ransomware protection, the storage engine must provide the capability to create immutable, read-only snapshots, that cannot be modified. 2. The storage engine shall provide the capability to create compliant, read-only snapshots, which makes it impossible to modify or delete the snapshot and its base volume by the user being used for virtual machine, a system administrator, and the manufacturer. 3. The protection period of the above snapshots must be individually configurable between 1 minute and several years. Changing the clock must not allow the tampering of protection.
20	Cloud Enabled Monitoring, AI support and Analytics	1. Offered platform shall have cloud enabled monitoring, AI support and analytics engine for proactive management and risk mitigation. All required licenses for same shall be included in the offer. 2. The offered platform should have cloud native data console for managing unlimited number of offered platforms. Cloud native console / dashboard shall provide following functionalities: a. Common Dashboard for all managing multiple platforms through a single cloud native data console. b. Dashboard shall also the output of configuration check of overall installed system and shall clearly highlight the issues, if any, by clicking on them.
21	Operating System Support	The offered Hypervisor shall be supported with all leading Guest Operating Systems.
22	Key Functionalities	The offered Hypervisor shall support the following key functionalities: 1. Migration of a running virtual machine from one host to another within the same cluster with zero downtime. 2. Shall automatically restart virtual machines on another host in the same cluster in the event of an unexpected host failure within the cluster. 3. Shall dynamically schedule the placement of virtual machines within a cluster based upon optimal workload distribution across the cluster. 4. Shall support migration the virtual disk(s) of a running of virtual machine from one storage data store to another with zero downtime.

#	Parameter	Functionality
23	Data Backup Solution	1. The offered Hyper-visor Shall have an inbuilt native data backup solution which shall be able to protect VM and Hosts to Target Storage provider and shall provide the following functionalities: a. Shall support CIFS, NFS, S3 from Storage providers as a backup target. b. Shall be deeply integrated into the instances / VM provisioning window so that all newly created instances / VMs are protected and backed up automatically. c. Shall support critical features like Scheduling of backup, backup retention counts, on-demand backup etc. 2. In case vendor Hypervisor doesn't have in-built data backup solution then vendor shall provide additional backup software for the complete hardware and software configuration asked in the RFP.
24	Resource Grouping	The offered Hypervisor management engine shall have a concept of grouping resources into a common identity, comprises of resources like Clouds, hosts, VMs, network, resource pools, data stores etc. so that required users can be assigned to it.
25	Additional Hypervisor and private cloud provider Management	The offered Hypervisor management engine shall support additional private cloud provider and hypervisor, preferably VMware, from the common interface without any additional coding.
26	Service Plan for Resource deployment	The offered hypervisor Management engine shall allow administrator to create service plan or t-shirt size based on CPU, Memory and Storage and shall be available to users while creating / provisioning the instance / VMs
27	Integrations	1. The offered Hypervisor shall have Integration with external IPAM providers like Infoblox, phpIPAM, BlueCat, SolarWinds etc. to automate the reservation of an IP address for the virtual machine during the provisioning process. 2. The offered Hypervisor shall have Integrate with external DNS providers like Infoblox, Microsoft DNS, BlueCat, SolarWinds etc. to automate the creation of DNS records for a virtual machine during the provisioning process. 3. The offered Hypervisor shall execute Bash or PowerShell scripts during virtual machine provisioning to automate system bootstrapping operations.
28	Virtual Machine Management	The offered Hypervisor shall support the following features for Virtual Machine Management: a. Create / Delete / Restart / Start / Stop / Suspend and Discovery of Virtual machines. b. Snapshot operations – Create / Delete / revert of Virtual machines c. Tagging – Add / Delete / Edit tagging for Virtual Machines. d. Live Migration of VM, VM HA and Pin virtual machine to a specific host.

#	Parameter	Functionality
		e. Cloning of VM, Clone to VM Template. f. Virtual Hardware Management - Add and remove virtual hardware such as hard disks, network interfaces, CPU and memory from a managed virtual machine.
29	Cluster Operations	The offered Hypervisor shall support both expansion and shrinking of VM clusters.
30	Snapshot Preservation	The offered Hypervisor shall ensure that child snapshots of the restored snapshot are preserved instead of automatic deletion.
31	Pass Thru Support	1. The offered Hypervisor shall have passthrough support for PCI and NVMe devices. 2. The offered Hypervisor shall support the passthrough support for GPU and USB devices.
32	Credential and OS Images	1. The offered Hypervisor shall support both internal and external Credential store for securely pulling in the username and password, access and secret key along with key pair and SSH certificates. 2. The offered hypervisor software shall provide flexibility to bring / upload OS images.
33	Future Proof for Enterprise Hybrid Cloud Management	It shall be further possible to upgrade the offered virtualization engine to full-fledge Cloud management platform so that all required functionality of Cloudops (Cloud operations for VM, and Container platforms), SecOps (Security and Control), Devops (Automate and Orchestrate) and Finops (Visualize and optimize) can be achieved with appropriate RBAC controls.
34	Key features of Enterprise Hybrid Cloud Management	After upgrading the Hypervisor to full-fledge cloud Management, it should become truly heterogenous and shall quickly integrate with below tools / Platforms / integrations: a. Hypervisors: VMware, Nutanix, HPE VME, Microsoft etc. b. Clouds: AWS, Azure, GCP, IBM, Oracle, Alibaba, Digital Ocean, Openstack etc. c. Identity: Active Directory, Okta, SAML, LDAP, Onelogin etc. d. Network: NSX, ACI, Infoblox, Bluecat, SolarWinds etc. e. Load Balancers: F5, A10, Citrix, ALB, Azure Load Balancer etc. f. Backup: Native Backup functionality, Veeam, Commvault, Zerto etc. g. ITSM: ServiceNow, Cherwell, BMC-Remedy etc. h. Container – AKS, EKS, GKE, Kubernetes, KVM cluster etc. i. Automation – Chef, Puppet, Ansible, Ansible tower, VMware Orchestrator etc.
35	Warranty and Support	3 Years 24x7 onsite support

Section E – Instructions to Bidders

E.1. Definitions:

1.	Purchaser	Purchaser means the Andhra Pradesh Technology Services Limited (APTS) who is the procurement agency on behalf of the Government of Andhra Pradesh.
2.	APTS	The Andhra Pradesh Technology Services Ltd.
3.	User Department	The Department for which APTS is procuring the items
4.	HoD	Head of User Department
5.	End User/User	Ultimate recipient of goods and services
6.	e-Procurement website/Portal	https://tender.apecurement.gov.in/
7.	Online bid submission	Bids submitted through https://tender.apecurement.gov.in/
8.	NoA	Notification of Award synonymous with Letter of Award (LoA) or Letter of Indent (LoI)
9.	Bidder	Any firm offering the solution(s), service(s) and/or materials required in the tender call. The word vendor when used in the pre award period shall be synonymous with bidder and when used after award of the contract shall mean the successful bidder with whom APTS signs the contract for rendering of goods and services.
10.	Prime Bidder	A company/entity/firm part of the consortium wholly responsible for contractual obligations and act as Single Point of Contact for the contract management. May also be called as Lead Bidder.
11.	Consortium	A group made up of two or more entities or companies that submits bid together for implementation of contractual obligations. Entities that participate in a consortium may pool resources but are otherwise only responsible for the obligations that are set out in the consortium's agreement.
12.	Successful Bidder	Successful Bidder means the Bidder who succeeds in the tender process.
13.	Supplier/Vendor	The successful Bidder with whom APTS placed the purchase order and supplying the goods and services under this contract.
14.	District	District means the geographical division within the State of Andhra Pradesh. At present there are 13 Districts in Andhra Pradesh.
15.	Service Centre	Service Centre means the centre or place, wherein the bidder, inter-alia undertakes and performs the service activities relating to the items indicated in the tender. The service centre will include bidder's own service centre or authorized service centre.
16.	Authorized Service Centre	Authorized Service Centre means a Service Centre run by another party by entering into a valid commercial agreement with the bidder.
17.	Cost	Cost means the total cost to be incurred towards the purchase of items and also charges to be incurred towards maintenance of items during the warranty period.
18.	Day	A day means a calendar day

19.	Tender call or invitation for bids	The detailed notification seeking a set of solution(s), service(s), materials or any combination of them.
20.	Tender Document	Detailed document with instructions to bidders, scope of work and other tender terms and conditions synonymously also known as Tender/ Bid Document or Request for Proposal (RFP)
21.	Specifications	The functional and technical specifications or statement of work, as the case may be.
22.	Firm/Entity	A company, authority, co-operative or any other organization incorporated under appropriate statute as is applicable in the country of incorporation.
23.	Pre-qualification and Technical bid	That part of the offer that provides information to facilitate assessment by APTS, professional, technical and financial standing of the bidder, conformity to specifications etc.
24.	Financial Bid	That part of the offer, that provides price schedule, total project costs etc.
25.	Three Part Bid	The pre-qualification bid, technical and financial bids submitted in Physical to APTS / through eProcurement portal.
26.	Two Part Bid	The Technical bid (including Pre-Qualification) and financial bids submitted in physical to APTS / through eProcurement portal and their evaluation is sequential.
27.	Composite Bid	A bid in which the technical and financial parts are combined into one, but their evaluation is sequential.
28.	Goods and Services	The solution(s), service(s), materials or a combination of them in the context of the tender call and specifications.
29.	Goods	The word goods when used singly shall mean the hardware, firmware component of the goods and services.
30.	Maintenance Period	Period mentioned in bid document for maintaining the systems beyond warranty period.
31.	BG	Bank Guarantee
32.	PBG	Bank Guarantee submitted towards Performance Security
33.	EMD BG	Bank Guarantee submitted towards EMD/Bid Security
34.	Contract	The agreement entered into between the Purchaser and the vendor, as recorded in the contract form signed by the parties, including all attachments and appendices thereto and all documents incorporated by reference therein
35.	Contract Price	The price payable to the vendor under the contract for the full and proper performance of its contractual obligations.
36.	Incidental Services	Those services ancillary to the supply of the goods and services, such as transportation and insurance, and any other incidental services, such as installation, commissioning, provision of technical assistance, training and other such obligations of the vendor covered under the contract.
37.	GCC	The General Conditions of Contract
38.	SCC	The Special Conditions of Contract

39.	Project Site	Where applicable, means the place(s) where goods/services are to be made available to user.
40.	Up Time	The time period when specified services with specified technical and service standards are available to user(s).
41.	Down Time	The time period when specified services with specified technical and service standards are not available to user(s).

E.1. General:

1. While every effort has been made to provide comprehensive and accurate background information and requirements and specifications, Bidders must form their own conclusions about the SI support required. Bidders and recipients of this RFP may wish to consult their own legal advisers in relation to this RFP.
2. All information supplied by Bidders may be treated as contractually binding on the Bidders, on successful award of the assignment by the Purchaser on the basis of this RFP.
3. No commitment of any kind, contractual or otherwise shall exist unless and until a formal written contract has been executed by or on behalf of the Purchaser. Any notification of preferred Bidder status by the <Purchaser> shall not give rise to any enforceable rights by the Bidder.
4. This RFP supersedes and replaces any previous public documentation & communications, and Bidders should place no reliance on such communications.

E.2. Compliant Tenders / Completeness of Response

1. Bidders are advised to study all instructions, forms, terms, requirements, appendices and other information in the RFP documents carefully. Submission of the bid / proposal shall be deemed to have been done after careful study and examination of the RFP document with full understanding of its implications.
2. Failure to furnish all information required by the bidding documents or to submit a bid not substantially responsive to the bidding documents in every respect will be at the bidder's risk and may result in the rejection of its bid.
3. Failure to comply with the requirements of this paragraph may render the Proposal non-compliant and the Proposal may be rejected. Bidders must:
 - a. Comply with all requirements as set out within this RFP.
 - b. Submit the forms as specified in this RFP and respond to each element in the order as set out in this RFP
 - c. Include all supporting documentations specified in this RFP

E.3: Compliance of Restrictions under Rule 144 (xi) of GFR 2017:

Restrictions on procurement from a bidder of a country which shares a land border with India.

- I. Any bidder from a country which shares a land border with India will be eligible to bid in this tender only if the bidder is registered with the Competent Authority.

- II. "Bidder" (Seller / Service Provider) means any person or firm or company, including any member of a consortium or joint venture (that is an association of several persons, or firms or companies), every artificial juridical person not falling in any of the descriptions of bidders stated hereinbefore, including any agency branch or office controlled by such person, participating in a procurement process.
- III. "Bidder from a country which shares a land border with India" for the purpose of this Order means: -
- a. An entity incorporated, established, or registered in such a country; or
 - b. A subsidiary of an entity incorporated, established, or registered in such a country; or
 - c. An entity substantially controlled through entities incorporated, established, or registered in such a country; or
 - d. An entity whose beneficial owner is situated in such a country; or
 - e. An Indian (or other) agent of such an entity; or
 - f. A natural person who is a citizen of such a country; or
 - g. A consortium or joint venture where any member of the consortium or joint venture falls under any of the above.
- IV. The beneficial owner for the purpose of (iii) above will be as under:
1. In case of a company or Limited Liability Partnership, the beneficial owner is the natural person(s), who, whether acting alone or together, or through one or more juridical person, has a controlling ownership interest or who exercises control through other means. Explanation—
 - a. "Controlling ownership interest" means ownership of or entitlement to more than twenty-five per cent. of shares or capital or profits of the company;
 - b. "Control" shall include the right to appoint majority of the directors or to control the management or policy decisions including by virtue of their shareholding or management rights or shareholders agreements or voting agreements;
 2. In case of a partnership firm, the beneficial owner is the natural person(s) who, whether acting alone or together, or through one or more juridical person, has ownership of entitlement to more than fifteen percent of capital or profits of the partnership;
 3. In case of an unincorporated association or body of individuals, the beneficial owner is the natural person(s), who, whether acting alone or together, or through one or more juridical person, has ownership of or entitlement to more than fifteen percent of the property or capital or profits of such association or body of individuals;
 4. Where no natural person is identified under (1) or (2) or (3) above, the beneficial owner is the relevant natural person who holds the position of senior managing official;

5. In case of a trust, the identification of beneficial owner(s) shall include identification of the author of the trust, the trustee, the beneficiaries with fifteen percent or more interest in the trust and any other natural person exercising ultimate effective control over the trust through a chain of control or ownership.
- V. An Agent is a person employed to do any act for another, or to represent another in dealings with third person.
- VI. The successful bidder shall not be allowed to sub-contract works to any contractor from a country which shares a land border with India unless such contractor is registered with the Competent Authority.

Any false declaration and non-compliance of the above would be a ground for immediate termination of the contract and further legal action in accordance with the laws.

E.4. Code of integrity

No official of a procuring entity or a bidder shall act in contravention of the codes which includes

1. prohibition of
 - i. Making offer, solicitation or acceptance of bribe, reward or gift or any material benefit, either directly or indirectly, in exchange for an unfair advantage in the procurement process or to otherwise influence the procurement process.
 - ii. Any omission, or misrepresentation that may mislead or attempt to mislead so that financial or other benefit may be obtained or an obligation avoided.
 - iii. Any collusion, bid rigging or anticompetitive behavior that may impair the transparency, fairness and the progress of the procurement process.
 - iv. Improper use of information provided by the procuring entity to the bidder with an intent to gain unfair advantage in the procurement process or for personal gain.
 - v. Any financial or business transactions between the bidder and any official of the procuring entity related to tender or execution process of contract; which can affect the decision of the procuring entity directly or indirectly.
 - vi. Any coercion or any threat to impair or harm, directly or indirectly, any party or its property to influence the procurement process.
 - vii. Obstruction of any investigation or auditing of a procurement process.
 - viii. Making false declaration or providing false information for participation in a tender process or to secure a contract;
2. Disclosure of Conflict of Interest
3. Disclosure by the bidder of any previous transgressions made in respect of the provisions of sub-clause (1) with any entity in any country during the last three years or of being debarred by any other procuring entity.
4. In case of any reported violations, the procuring entity, after giving a reasonable opportunity of being heard, comes to the conclusion that a bidder or prospective bidder, as the case may be, has contravened the code of integrity, may take appropriate measures

E.5. Pre-Bid Meeting & Clarifications

1. Pre-bid meeting with the prospective Bidders will be conducted on **<Date & time>** at **<Address of the Venue>**. Please refer to Bid Data Sheet in Section A for details.
2. The Bidders will have to ensure that their queries for Pre-Bid meeting should reach to
3. **<Name, Address, Fax and email id of the Nodal Officer>** by post, facsimile or email on or before **<Date & time>** as mentioned in Bid Data Sheet in Section A.
4. The queries should necessarily be submitted in the following format in excel sheet only:

S. No.	Page No. of RFP	Clause No. of RFP Document	Content of RFP requiring Clarification(s)	Points of Clarification /Amendment with justification
1.				
2.				
3.				
4.				
5.				
6.				

5. Purchaser shall not be responsible for ensuring that the Bidders' queries have been received by them. Any requests for clarifications post the indicated date and time may not be entertained by the Purchaser.
6. The concerned person will respond to any request for clarification of bidding documents which it receives no later than bid clarification date mentioned in the notice prior to deadline for submission of bids prescribed in the tender notice.
7. No clarification from any bidder shall be entertained after the close of date and time for seeking clarification mentioned in tender call notice. It is further clarified that APTS shall not entertain any correspondence regarding delay or non-receipt of clarification from APTS.
8. Bidders who purchased bid document only will be allowed to participate in the pre-bid meeting to seek clarifications on the bid, if any.
9. The pre-bid meeting will be conducted either in physical presence mode or through online virtual meeting tools. Interested bidders should send email request to APTS contact person for receiving the online meeting link.
10. All correspondence should be with APTS contact person only.

E.6. Responses to Pre-Bid Queries and Issue of Corrigendum/Amendment

1. The Nodal Officer notified by the Purchaser will endeavour to provide timely response to all queries. However, Purchaser makes no representation or warranty as to the completeness or accuracy of any response made in good faith, nor does Purchaser undertake to answer all the queries that have been posed by the Bidders.
2. At any time prior to the last date for receipt of bids, Purchaser may, for any reason, whether at its own initiative or in response to a clarification requested by a prospective Bidder, modify the RFP Document by a corrigendum/amendment.

3. The Corrigendum (if any) & clarifications to the queries from all Bidders will be posted on the websites mentioned in bid data sheet.
4. Any such corrigendum shall be deemed to be incorporated into this RFP.
5. In order to provide prospective Bidders reasonable time for taking the corrigendum/amendment into account, < Purchaser> may, at its discretion, extend the last date for the receipt of Proposals.

E.7. Right to Terminate the Process

1. Purchaser may terminate the RFP process at any time and without assigning any reason. Purchaser makes no commitments, express or implied, that this process will result in a business transaction with anyone.
2. This RFP does not constitute an offer by Purchaser. The Bidder's participation in this process may result Purchaser selecting the Bidder to engage towards execution of the contract.

E.8. RFP Document Fees

1. RFP documents have been made available to be download without any fee from the websites mentioned in Bid Data Sheet.
2. RFP document fees (if any, as mentioned in the Bid Data Sheet) should be submitted along with the bidder's proposal.
3. RFP document fee paid is non refundable.
4. RFP document fee can be paid through online through eprocurement portal along with submission of bid.
5. Proposals received without or with inadequate RFP Document fees shall be rejected.

E.9. Earnest Money Deposit (EMD)/Bid Security

1. The bidder shall furnish, as part of its bid, a bid security for the amount and validity period as specified in the Bid Data Sheet.
2. The bid security is required by Purchaser to:
 - a. Assure bidder's continued interest till award of contract and
 - b. Conduct in accordance with bid conditions during the bid evaluation process.
3. The bid security shall be paid through Challan/Bank Gurantee(BG)/Online Payment (through AP Eprocurement Portal) in Indian rupees. Bank Guarantee shall be issued by a reputable bank scheduled in India and having at least one branch office in Vijayawada.
4. The format for EMD Bank Guarantee is enclosed at Annexure II.
5. The EMD amount is interest free and will be refundable to the unsuccessful Bidders without any accrued interest on it.
6. The bid / proposal submitted without EMD as mentioned above, will be summarily rejected.
7. Incase bid submission/opening date is extended after bidder has obtained the EMD BG, bidder should submit an undertaking, along with BG, to extend the BG validity suitably if required.
8. Unsuccessful bidder's bid security will be discharged or returned as promptly as possible but not later than thirty (30) days after the expiration of the period of bid validity prescribed by Purchaser.

9. The successful bidder's bid security will be discharged upon the bidder signing the contract, and furnishing the performance security,
10. The bid security may be forfeited:
 - a. if a bidder withdraws its bid during the period of bid validity or
 - b. in the case of a successful bidder, if the bidder fails:
 - i. to sign the contract in time; or
 - ii. to furnish performance security.

E.10. Bidding Procedure:

1. This tender call is issued on e-procurement market place at www.apecurement.gov.in.
2. All the terms and conditions are to be read jointly as mentioned in the e-procurement market website and in this document.
3. Bid offers are to be made in three parts namely, "Prequalification bid", "Technical bid" and "Financial bid" and in the formats provided in the bid document. All the documents are to be uploaded as per the documents in the corresponding section in eProcurement Website.

E.11. General Eligibility

1. This invitation for bids is open to all firms within India who are eligible to do business in India under relevant Indian laws as is in force at the time of bidding subject to meeting the pre-qualification criterion.
2. Bidders marked/considered by Purchaser to be ineligible to participate for non-satisfactory past performance, corrupt, fraudulent or any other unethical business practices shall not be eligible.
3. Bidder/Consortium Member debarred/ blacklisted by any Central or State Govt. / Quasi –Govt. Departments or organizations as on bid calling date for non-satisfactory past performance, corrupt, fraudulent or any other unethical business practices shall not be eligible.
4. Breach of general or specific instructions for bidding, general and special conditions of contract with Purchaser or any of its user organizations may make a firm ineligible to participate in bidding process.
5. Bidders who are having bad past track record with the User Department/Purchaser in respect of fulfilling contractual obligations are ineligible to participate in bidding process.

E.12. Preferential Market Access Policy:

G.O. Ms. No. 22, dt. 28-11-2015 issued by ITE&C Department & G.O. Ms. No. 9, Dt. 25-02-2021 issued by Industries & Commerce Department (copies can be obtained from URL: <http://goir.ap.gov.in/Reports.aspx>) are applicable for this tender. Bidders eligible for the benefits under preferential market access policy can apply by submitting all the relevant document proofs.

E.13. Authentication of Bids

Bid Proposal should be accompanied by a power-of-attorney in the name of the signatory of the Proposal. In case of e-Procurement, a copy of the same should be uploaded under the relevant section/folder on the eProcurement portal. Furthermore, the bid must also be submitted online after being digitally signed by an authorized representative of the bidding entity.

E.14. Bid forms

1. Wherever a specific form is prescribed in the bid document, the bidder shall use the form to provide relevant information. If the form does not provide space for any required information, space at the end of the form or additional sheets shall be used to convey the said information.
2. For all other cases the bidder shall design a form to hold the required information.

E.15. Cost of bidding

1. The Bidder shall be responsible for all costs incurred in connection with participation in the RFP process, including, but not limited to, costs incurred in conduct of informative and other diligence activities, participation in meetings/discussions/presentations, preparation of proposal, in providing any additional information required by Purchaser to facilitate the evaluation process, and in negotiating a definitive contract or all such activities related to the bid process.
2. Purchaser will in no case be responsible or liable for those costs, regardless of the conduct or outcome of the bidding process.

E.16. Language

Bid Proposal should be filled by the Bidders in English language only. If any supporting documents submitted are in any language other than English, translation of the same in English language is to be duly attested by the Bidders. For purposes of interpretation of the documents, the English translation shall govern.

E.17. Venue & Deadline for Submission of bids

1. The bidders shall submit all the bids i.e., Pre-Qualification, Technical and Financial Bids on e-Procurement website only .
2. Bids must be submitted not later than the bid submission date and time specified in the Bid Data Sheet.
3. The Purchaser may, at its discretion, extend this deadline for the submission of bids by amending the tender call, in which case all rights and obligations of the Purchaser and bidders previously subject to the deadline will thereafter be subject to the deadline as extended.

E.18. Late bids

1. Bids submitted after the due date & time will not be accepted by the eProcurement Portal and hence will automatically be rejected.
2. AP Eprocurement Portal Server Time will only be considered for bid submission due date and time.

3. Bidders are advised to submit the bids well before the due date and time to avoid last minute technical issues if any. The Eprocurement Portal provides separate dedicated folders for each login created for maintaining and storing their generic documents for easy uploading in to the bid. The commercial bid will be mandatorily encrypted on the portal. Hence the bidder can upload bid well in advance to avoid last minute delays.
4. Bids should be mandatorily submitted through AP Eprocurement Portal only. Other modes of bid submission is not acceptable in case bidder fails to submit the bid successfully on e-Procurement Portal.
5. The Purchaser shall not be responsible for any delay in the online submission of the proposal.
6. Any bid not submitted through online, before bid closing time will be rejected.

E.19. Period of validity of bids

1. Bids shall remain valid for the days or duration specified in the bid document, after the date of bid opening prescribed by Purchaser. A bid valid for a shorter period shall be rejected as non-responsive.
2. In exceptional circumstances, the Purchaser may solicit the bidders' consent to an extension of the period of validity. The request and the responses thereto shall be made in writing. The bid security shall also be suitably extended. A bidder granting the request will not be permitted to modify its bid.

E.20. Modification and withdrawal of bids

1. No bid can be modified subsequent to the deadline for submission of bids.
2. No bid can be withdrawn in the interval between the deadline for submission of bids and the expiration of the period of bid validity. Withdrawal of a bid during this interval will result in the forfeiture of its bid security (EMD).

E.21. General Business information:

The bidder shall furnish general business information to facilitate assessment of its professional, technical and commercial capacity and reputation.

E.22. Preparation of Pre-qualification bid:

It shall include the following information about the firm and its proposal.

1. Details of EMD submitted.
2. Details of RFP document fee paid
3. General information on the bidder's company in Form P-1
4. Details of Turnover in Form P-2 along with supporting documents
5. List of major customers in support of sales turnover in Form P-3 with supporting documents
6. Details of service centers in AP in Form P-4
7. Declaration regarding clean track record in Form-P5
8. Undertaking in compliance with GFR Rule 144(xi) in Form P6
9. Valid Certificates like BIS, ISO, Microsoft etc.

10. Manufacturer's authorization to participate in bidding process apart from such other documents like authorization certificate for dealing in the products for which bid is submitted. (Incase of Manufacturers self declaration to be submitted) as per Form P7.
11. In case of Consortium
 - a. The consortium members should also submit all the required PQ criteria similar to prime bidder.
 - b. Original Consortium MoU/Agreement if applicable

E.23. Preparation of Technical Bid:

It shall include the following information about the products offered and their technical features and specifications.

1. Technical Compliance Statement with Make, Model, Specifications mentioned in tender document and offered specifications in Form T-1.
2. Technical documents such as offered products' Brochures and Data Sheets in support of confirmation to technical specifications etc.
3. Copies of OEM Certifications and Product Certifications if any.
4. Detailed technical documentation, reference to various industry standards to which the products/services included in vendor's offer conform, and literature concerning the proposed solution
5. Check list in Form T-2
6. Signed unpriced Form F1.
7. Plan for in lab proof of concept, if required in tender call.
8. Plan for field demonstration if required in tender call
9. Detailed technical documentation, reference to various industry standards to which the goods and services included in vendor's offer conform, and other literature concerning the proposed solution. In particular, the vendors should identify areas in which their solution conforms to open standards and areas that are proprietary in nature. Justification about proprietary components in terms of functionality and performance should be given.
10. A statement about appropriateness of the product design and solution plan for operating conditions in India, including physical, infrastructure and human factors.
11. In the case of a bidder offering to supply goods under the contract which the bidder did not manufacture or otherwise produce, the bidder has been duly authorized by the good's manufacturer or producer to supply the goods in India.
12. A statement of the serviceable life of goods and services offered by the firm. Available sources of maintenance and technical support during the serviceable life. Available sources of spare parts, special tools, etc. Necessary for the proper and continuing functioning of the goods and services, for the serviceable life.
13. Other information, if any required in the bid document.

E.24. Preparation of Financial Bid:

The financial bid should provide cost calculations corresponding to each component of the project.

1. The financial bid is submitted through online Eprocurement Portal only.
2. Prices shall be quoted in Indian rupees.

3. The financial bid should provide cost calculations corresponding to unit price of each item of the respective schedules in Cost sheets.
4. The bidder shall indicate the unit prices (where applicable) and the total bid price of the goods/services it proposes to supply under the contract.
5. The bidder shall indicate the Basic Prices for the warranty period and taxes, duties etc. (if required) in the form prescribed. AMC should be separately shown for the years specified and taxes as per the financial bid format.
6. Bidder's separation of price components will be solely for the purpose of facilitating the comparison of bids by Purchaser and will not in any way limit the Purchaser's right to contract on any of the terms offered.
7. Prices quoted by the bidder shall be fixed during the bidder's performance of the contract and not subject to variation on any account unless otherwise specified in the tender call. A bid submitted with an adjustable price quotation will be treated as non-responsive and will be rejected.

E.25. Bid evaluation procedure:

1. Bids would be evaluated item wise.
2. Lowest quoted value will be arrived on item value.
3. Technical bid documentation should be in the prescribed format. If a vendor has any comment to offer about the procedural aspects of this tender, it should be intimated to APTS during the pre-bid meeting.
4. In case, the schedule or procedure of tender processing is revised, the same shall be communicated by telephone, fax, courier or e-mail as the case may be to all the vendors who have paid the tender document fee.
5. Bids will be in three parts (pre-qualification, technical and financial) or two parts (Pre-qualification & Technical bid together and financial) or composite bid (technical and financial bid together) as indicated in the tender call. For three part bids there will be three bid opening events, in two part bid there will be two bid opening events and in case of composite bids there will be only one bid opening event.
6. Following guidelines will generally be followed by Purchaser's officers at each such event. However, Purchaser may deviate from these in specific circumstances if it feels that such deviation are unavoidable, or will improve speed of processing and consequent project execution.
7. The bid opening and evaluation process will be sequential in nature. Means that bidder must qualify a particular stage to be eligible for next stage. Immediately after the closing time, the Purchaser's contact person shall open the Pre-qualification bids and list them for further evaluation.
8. If it is a manual tender- the Technical and financial bid covers shall be listed and put into a bag to be sealed according to Purchaser's procedure. The sealed bag of technical and financial bids shall be in custody of a designated officer for opening after evaluation of Pre-qualification bids. Thereafter, Technical bids of qualified bidders will be opened, keeping financial bid in sealed bag. Finally, financial bids of those bidders will be opened who are short listed in technical evaluation.
9. In case of composite bid – technical and financial bids combined together, first technical evaluation will be done followed by financial evaluation of only those bids, which have qualified in technical evaluation.

10. Any participating vendor may depute a representative to witness these processes.
11. The standard procedure, described here will stand appropriately modified, in view of special procedures of bid evaluation as mentioned in tender call or elsewhere in this bid document or Purchaser may deviate from these in specific circumstances if it feels that such deviation are unavoidable, or will improve speed of processing and consequent project execution.

E.26. Opening of bids:

1. Bids will be opened on the e-Procurement website at the scheduled time & date as specified.
2. Purchaser's contact person shall open the pre-qualification bid, after the bid closing time and list them for further evaluation. After evaluation of Pre-Qualification bids, the technical bids of only those bidders who qualify in Pre-qualification will be opened. Similarly, the financial bids of only those bidders who qualify in technical evaluation will be opened.
3. The bidders names, bid modifications or withdrawals, discounts, and the presence or absence of requisite bid security and such other details as the APTS officer at his/her discretion, may consider appropriate, will be announced at the opening.
4. No bid shall be rejected at bid opening, except for late bids, which shall be returned unopened (in case of physical submission).
5. Bids that are not opened and read out at bid opening shall not be considered further for evaluation, irrespective of the circumstances. Withdrawn bids will be returned unopened to the bidders (in case of physical submission).
6. The bids submitted by telex/telegram/fax/e-mail etc. shall not be considered. No correspondence will be entertained on this matter.
7. The Purchaser shall not be responsible for any postal delay or non-receipt/ non- delivery of the documents. No further correspondence on the subject will be entertained.

E.27. Preliminary examination of Bids

1. Preliminary scrutiny will be made to determine whether they are complete, whether any computational errors have been made, whether required sureties have been furnished, whether the documents have been properly signed, and whether the bids are generally in order.
2. Prior to the detailed evaluation, APTS will determine the substantial responsiveness of each bid to the bidding documents. For purposes of these clauses, a substantially responsive bid is one which conforms to all the terms and conditions of the bidding documents without material deviations.
3. If a bid is not substantially responsive, it will be rejected by the APTS and may not subsequently be made responsive by the bidder by correction of the nonconformity.
4. Initial Bid scrutiny will be held and incomplete details as given below will be treated as non- responsive. If Proposals;
 - a. Are not submitted in as specified in the RFP document
 - b. Received without the Letter of Authorization (Power of Attorney)
 - c. Are found with suppression of details

- d. With incomplete information, subjective, conditional offers and partial offers submitted
 - e. Submitted without the documents requested in the checklist
 - f. Have non-compliance of any of the clauses stipulated in the RFP
 - g. With lesser validity period
5. All responsive Bids will be considered for further processing as below.
 6. < Purchaser> will prepare a list of responsive Bidders, who comply with all the Terms and Conditions of the Tender. All eligible bids will be considered for further evaluation by a Committee according to the Evaluation process define in this RFP document. The decision of the Committee will be final in this regard.
 7. Arithmetical errors will be rectified on the following basis. If there is a discrepancy between the unit price and the total price that is obtained by multiplying the unit price and quantity, the unit price shall prevail, and the total price shall be corrected. If the vendor does not accept the correction of the errors, its bid will be rejected, and its bid security may be forfeited. If there is a discrepancy between words and figures, the amount in words will prevail.
 8. Purchaser may waive any minor informality, nonconformity or irregularity in a bid which does not constitute a material deviation, provided such waiver does not prejudice or affect the relative ranking of any bidder.

E.28. EMD Validity:

1. The EMD will be scrutinized first for the amount and validity period. The bids submitted with required EMD amount and validity only be considered for the evaluation. The bids submitted with insufficient EMD amount/validity will be treated as disqualified bids and those bids will not be considered for further evaluation.
2. The EMD should be submitted in the form of BG or through online payment only.
3. Scanned copy of EMD document should be uploaded on e-Procurement website. The Original EMD should be submitted to APTS before 5 pm of next working day after bid closing day or as specified in Bid Data Sheet.

E.29. Bid validity:

The offer submitted by the Bidders should be valid for minimum period of days as mentioned in Bid data Sheet from the date of submission of bid. If required, purchaser may ask the bidder to extend the bid validity along with the extension of the EMD validity. Failure to extend the bid validity and EMD validity will be treated as non-responsive and will not be considered for further evaluation.

E.30. Seeking Clarifications on received bids

During evaluation of the bids at any stage, Purchaser may, at its discretion, ask the bidder for clarification of its bid. The clarifications should be submitted within the time period specified. Failure to submit the parameters requested in the clarifications, Purchaser will treat that there is nothing to provide from bidder's end and APTS will proceed with evaluation as per submitted documents.

E.31. Evaluation of Pre-qualification bids:

The Pre-qualification bid documentation shall be evaluated in two sub-steps.

- a) Firstly, the documentation furnished by the vendor shall be examined prima facie to see if the technical skill base and financial capacity and other vendor attributes claimed therein are consistent with the needs of this project.
- b) In the second step, APTS may ask vendor(s) for additional information, visit to vendors site and/or arrange discussions with their professional, technical faculties to verify claims made in Pre-qualification bid documentation.

E.32. Evaluation of Technical bids:

Technical bid documentation shall be evaluated in two sub-steps.

- a) Firstly, the documentation furnished by the vendor shall be examined prima facie to see if the product /services offered, technical skill base and financial capacity and other vendor attributes claimed therein are consistent with the needs of this project.
- b) In the second step, APTS may ask vendor(s) for additional information, visit to vendors site and/or arrange discussions with their professional, technical faculties to verify claims made in technical bid documentation.
- c) Bidders who meet the pre-qualifications/eligibility requirements would be considered as qualified to move to the next stage of Technical and Financial evaluations.
- d) The Product offered should meet all the technical and functional specifications given in the section D “Scope of Work”. Non-compliance to any of the technical and functional specification will attract rejection of the proposal.
- e) Response except ‘Y’ or ‘N’ is not acceptable. If any Bidder provides response other than Y’ or ‘N’ the same will be treated as Not Available i.e. N.
- f) The lab proof of concept on demand may be organized either in APTS or in the vendor’s lab by mutual discussion. In case it is organized in APTS lab, APTS would make available generic hardware for this purpose. Application specific hardware and software will have to be brought in by the vendor.
- g) APTS will identify a part or segment of the proposed project site. The concerned bidder, on demand, should be able to demonstrate functional requirements as described in the specifications.

E.33. Evaluation of financial bids

1. Financial bids of those vendors who satisfy all phases of the pre-qualification and technical bid will only be opened. All other financial bids will be ignored.
2. Purchaser will assess the nature of financial offers and may pursue any or all of the options mentioned under financial bid.
3. Purchaser may at its discretion discuss with vendor(s) available at this stage to clarify contents of financial offer.
4. Bids will be evaluated item wise in each schedule.
5. Evaluation of Financial Bids will be including taxes.
6. Evaluation of financial bids will exclude and not take into account any offer not asked for or not relevant to the present requirements of user.
7. Evaluation of financial bid will take into account, in addition to the basic bid price, one or more of the following factors

- a. The projected costs for the entire contract period;
- b. Past track record of bidder in supply/ services and
- c. Any other specific criteria indicated in the tender call and/or in the specifications.

E.34. Performance and productivity of the equipment

Bidders shall state the guaranteed performance or efficiency in response to the specifications.

E.35. Contacting Purchaser

1. Bidder shall not approach Purchaser's officers outside of office hours and / or outside Purchase office premises, from the time of the tender call notice to the time the contract is awarded.
2. Any effort by a bidder to influence Purchaser officers in the decisions on bid evaluation, bid comparison or contract award may result in rejection of the bidder's offer and bidder may also be marked as ineligible for future bids. If the bidder wishes to bring additional information to the notice of the Purchaser, it should do so in writing.

E.36. Purchaser's right to vary quantities at time of award

1. Purchaser reserves the right at the time of award to increase or decrease the quantity, as indicated in tender call, from the quantity of goods and services originally specified in the specification without any change in unit price or other terms and conditions.
2. Purchaser reserves the right to place the repeat orders at the quoted price, in addition to the Quantity for which bid has been called for. However, this condition will not create any right to the bidder to demand such repeat order. During the validity of the contract period thereof, the bidder should be ready to supply any no. of devices as requested.

E.37. Purchaser ' right to accept any bid and to reject any or all bids.

Purchaser reserves the right to accept or reject any proposal, and to annul the tendering process / Public procurement process and reject all proposals 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 grounds for such decision.

E.38. Negotiation

APTS reserves its right to negotiate with the lowest quoted bidder including technical specifications.

E.39. Award Criterion:

Final choice of firm to execute the project shall be made on the basis of conformity to technical specifications, appropriateness of the product offered, capability of bidder to execute and service the project and appropriateness of financial offer from the point of view of cost-effectiveness over the entire maintenance period for the product/services.

E.40. Order Placing Authority

1. PURCHASER reserves the right not to place any supply / purchase order whatsoever, irrespective of finalization of the L1 bidder.

2. PURCHASER reserves the right to place purchase orders/ contracts as per RFP. The RFP / contract does not confer any right whatsoever on the bidder/ successful Bidder for demanding PURCHASER /any department to place order on them.

E.41. Notification of award

1. Prior to expiration of the period of bid validity, Purchaser will notify the successful bidder in writing, that its bid has been accepted.
2. In case the tendering process has not been completed within the stipulated period, Purchaser, may like to request the Bidders to extend the validity period of the bid.
3. Upon the successful bidder's furnishing of performance security, Purchaser will promptly notify each unsuccessful bidder and will discharge its bid security.
4. For each electronic product proposed to be procured, among all technically qualified bids, the lowest quoted price will be termed as L1 and the rest of the bids shall be ranked in ascending order of price quoted, as L2, L3, L4 and so on.
5. If L1 bid is of an eligible domestic manufacturer, the said bidder will be awarded full value of the order.
6. If L1 bid is not from an eligible domestic manufacturer, the value of the order awarded to L1 bidder will be the balance of procurement value after reserving specified percentage of the total value of the order for the eligible domestic manufacturer.
7. Thereafter, the lowest bidder among the eligible domestic manufacturers, whether L2, L3, L4 or higher, will be invited to match the L1 bid in order to secure the procurement value of the order earmarked for the eligible domestic manufacturer.
8. In case first eligible bidder (i.e. domestic manufacturer) fails to match L1 bid, the bidder (i.e. domestic manufacturer) with next higher bid will be invited to match L1 bid and so on. However, the procuring agency may choose to divide the order amongst more than one successful bidder as long as all such bidders match L1 and the criteria for allocating the tender quantity amongst a number of successful bidders is clearly articulated in the tender document itself.
9. In case all eligible domestic manufacturers fail to match the L1 bid, the actual bidder holding L1 bid will secure the order for full procurement value.
10. Only those domestic manufacturers whose bids are within 20% of the L1bid would be allowed an opportunity to match L1 bid.
11. Upon the successful Bidder's furnishing of Performance Bank Guarantee, Purchaser will notify each unsuccessful Bidder and return their EMD.

E.42. Performance security

1. On receipt of notification of award from the Purchaser, the successful bidder shall furnish the performance security in accordance with the conditions of contract, in the performance security form provided in the bidding documents or in another form acceptable to the Purchaser.
2. The Selected Bidder shall provide the Performance Bank Guarantee, within the period mentioned Bid Data Sheet from the date of Notification of award, for a value equivalent to <as mentioned in Bid data Sheet> of the total contract cost . The Performance Guarantee should be valid for a period of <as mentioned in Bid Data Sheet>.

3. The Performance Guarantee shall be kept valid till completion of the project and Warranty period.
4. The Performance Guarantee shall contain a claim period of 60 days from the last date of validity.
5. The selected Bidder shall be responsible for extending the validity date and claim period of the Performance Guarantee as and when it is due on account of non-completion of the project and Warranty period.
6. In case the selected Bidder fails to submit performance guarantee within the time stipulated, the Purchaser at its discretion may cancel the order placed on the selected Bidder without giving any notice.
7. Purchaser shall invoke the performance guarantee in case the selected Vendor fails to discharge their contractual obligations during the period or Purchaser incurs any loss due to Vendor's negligence in carrying out the project implementation as per the agreed terms & conditions.

E.43. Signing of contract

1. At the same time as the Purchaser notifies the successful bidder that its bid has been accepted, the Purchaser will send the bidder the Contract Form provided in the bidding documents, incorporating all agreements between the parties.
2. On receipt of the Contract Form, the successful bidder shall sign and date the contract and return it to the Purchaser.
3. Failure of the successful bidder to sign the contract, proposed in this document and as may be modified, elaborated or amended through the award letter, shall constitute sufficient grounds for the annulment of the award and forfeiture of the bid security, in which event the Purchaser may make the award to another bidder or call for new bids.

E.44. Corrupt, fraudulent and unethical practices

1. The Bidders and their respective officers, employees, agents and advisers shall observe the highest standard of ethics during the Selection Process. Notwithstanding anything to the contrary contained in this RFP, the Purchaser shall reject a Proposal without being liable in any manner whatsoever to the Bidder, if it determines that the Bidder has, directly or indirectly or through an agent, engaged in corrupt practice, fraudulent practice, coercive practice, undesirable practice or restrictive practice (collectively the "Prohibited Practices") in the Selection Process. In such an event, the Purchaser shall, without prejudice to its any other rights or remedies, forfeit and appropriate the Bid Security or Performance Security, as the case may be, as mutually agreed genuine pre-estimated compensation and damages payable to the Authority for, inter alia, time, cost and effort of the Authority, in regard to the RFP, including consideration and evaluation of such Bidder's Proposal.

2. Without prejudice to the rights of the Purchaser under Clause above and the rights and remedies which the Purchaser may have under the LOI or the Agreement, if an Bidder or Systems Implementation Agency, as the case may be, is found by the Authority to have directly or indirectly or through an agent, engaged or indulged in any corrupt practice, fraudulent practice, coercive practice, undesirable practice or restrictive practice during the Selection Process, or after the issue of the LOI or the execution of the Agreement, such Bidder or Hardware Supplier shall not be eligible to participate in any tender or RFP issued by the Purchaser during a period of 2 (two) years from the date such Bidder or Hardware Supplier, as the case may be, is found by the Purchaser to have directly or through an agent, engaged or indulged in any corrupt practice, fraudulent practice, coercive practice, undesirable practice or restrictive practice, as the case may be.
3. Purchaser will reject a proposal for award and also may debar the bidder for future tenders by the Purchaser , if it determines that the bidder has engaged in corrupt, fraudulent or unethical practices in competing for, or in executing a contract.
4. For the purposes of this Section, the following terms shall have the meaning hereinafter respectively assigned to them:
 - a. **“corrupt practice”** means
 - i. the offering, giving, receiving, or soliciting, directly or indirectly, of anything of value to influence the action of any person connected with the Selection Process (for avoidance of doubt, offering of employment to or employing or engaging in any manner whatsoever, directly or indirectly, any official of the Purchaser who is or has been associated in any manner, directly or indirectly with the Selection Process or the LOI or has dealt with matters concerning the Agreement or arising there from, before or after the execution thereof, at any time prior to the expiry of one year from the date such official resigns or retires from or otherwise ceases to be in the service of the Purchaser, shall be deemed to constitute influencing the actions of a person connected with the Selection Process); or
 - ii. save as provided herein, engaging in any manner whatsoever, whether during the Selection Process or after the issue of the LOA or after the execution of the Agreement, as the case may be, any person in respect of any matter relating to the Project or the LOA or the Agreement, who at any time has been or is a legal, financial or technical consultant/ adviser of the Purchaser in relation to any matter concerning the Project;
 - b. **“fraudulent practice”** means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to detriment of the purchaser, and includes collusive practice among Bidders (prior to or after bid submission) designed to establish bid prices at artificial non-competitive levels and to deprive the Purchaser of the benefits of free and open competition;;
 - c. **“coercive practice”** means impairing or harming or threatening to impair or harm, directly or indirectly, any persons or property to influence any person’s participation or action in the Selection Process;
 - d. **“undesirable practice”** means

- i. establishing contact with any person connected with or employed or engaged by Purchaser with the objective of canvassing, lobbying or in any manner influencing or attempting to influence the Selection Process; or
 - ii. having a Conflict of Interest; and
- e. **“restrictive practice”** means forming a cartel or arriving at any understanding or arrangement among Bidders with the objective of restricting or manipulating a full and fair competition in the Selection Process.
- f. **“Unethical practice”** means any activity on the part of bidder, which try to circumvent tender process in any way. Unsolicited offering of discounts, reduction in financial bid amount, upward revision of quality of goods etc. after opening of first bid will be treated as unethical practice.

E.45. Conflict of Interest

1. The Vendor shall disclose to Purchaser in writing, all actual and potential conflicts of interest that exist, arise or may arise (either for the Vendor the Bidder’s team) in the course of performing the Service(s) as soon as practical after it becomes aware of that conflict.

Section F – General Conditions of Proposed Contract (GCC)

F.1. Application

These general conditions shall apply to the extent that they are not superseded by provisions of other parts of the contract.

F.2. Standards

The goods supplied under this contract shall conform to the standards mentioned in the specifications, and, when no applicable standard is mentioned, the authoritative standards appropriate to the goods' country of origin shall apply. Such standard shall be the latest issued by the concerned institution.

F.3. Use of documents and information

1. The vendor shall not, without prior written consent from Purchaser, disclose/share/use the bid document, contract, or any provision thereof, or any specification, plan, drawing, pattern, sample or information furnished by or on behalf of the Purchaser in connection therewith, to any person other than a person employed by the vendor in the performance of the contract. Disclosure to any such employed person shall be made in confidence and shall extend only so far as may be necessary for purposes of such performance.
2. The Vendor shall not, without prior written consent of Purchaser, make use of any document or information made available for the project, except for purposes of performing the Contract.
3. All project related document (including this bid document) issued by Purchaser, other than the contract itself, shall remain the property of the Purchaser and shall be returned (in all copies) to the Purchaser on completion of the Vendor's performance under the contract if so required by the Purchaser.

F.4. User license and patent rights

1. The Vendor shall provide licenses for all software products, whether developed by it or acquired from others. In the event of any claim asserted by a third party for software piracy, the vendor shall act expeditiously to extinguish such claim. If the vendor fails to comply and the Purchaser is required to pay compensation to a third party resulting from such software piracy, the vendor shall be responsible for compensation including all expenses, court costs and lawyer fees. The Purchaser will give notice to the vendor of such claim, if it is made, without delay.
2. The Vendor shall indemnify the purchases against all third party claims of infringement of patent, trademark or industrial design rights arising from use of the goods, software package or any part thereof.

F.5. Performance security

1. On receipt of notification of award, the Vendor shall furnish performance security to Purchaser in accordance with bid document requirement.
2. The proceed of the performance security shall be payable to the Purchaser as compensation for any loss resulting from the supplier's failure to complete its obligations under the contract.

3. The performance security shall be denominated in Indian rupees or in a freely convertible currency acceptable to Purchaser and shall be in one of the following forms:
 - a. A bank guarantee or an irrevocable letter of credit, issued by a reputed bank located in India with at least one branch office in Vijayawada, in the form provided in the bidding document or another form acceptable to the Purchaser; or
 - b. A cashier's cheque or banker's certified cheque or crossed demand draft or pay order drawn in favor of the Purchaser.
4. The performance security will be discharged by the Purchaser and returned to the Vendor not later than thirty (30) days following the date of completion of all formalities under the contract and if activities, post warranty, by the Vendor is envisaged, following receipt of a performance guarantee for annual maintenance as per bid document.
5. In the event of any contract amendment, the vendor shall, within 15 days of receipt of such amendment, furnish the amendment to the performance security, rendering the same valid for the duration of the Contract.

F.6. Manuals and drawings

1. Before the goods and services are taken over by the user, the Vendor shall supply operation and maintenance manuals, (together with drawings of the goods and services where applicable).
2. The Vendor shall provide complete technical documentation of hardware, firmware, all subsystems, operating systems, compiler, system software and the other software.
3. The manuals and drawings wherever applicable shall be in English or Telugu.
4. At least one set of the manuals should be supplied for each installation sites.
5. Unless and otherwise agreed, the goods and services shall not be considered to be completed for the purpose of taking over until such manuals and drawings have been supplied to the user.

F.7. Inspection and acceptance tests

1. Inspection and tests prior to shipment of Goods and at final acceptance are as follows:
 - a. Inspection of the goods shall be carried out to check whether the goods are in conformity with the specifications mentioned in the bid document. Following broad test procedure will generally be followed for inspection and testing of hardware and firm wares. The vendor will dispatch the goods to the ultimate consignee after internal inspection testing along with the supplier's inspection report, manufacturer's warranty certificate. The Purchaser will test the equipment after completion of the installation and commissioning at the site of the installation. (If site preparation is not included in the tender call or specification, the vendor should furnish all details of the site requirement to the Purchaser sufficiently in advance so as to get the works completed before receipt of the equipment.)

- b. The Inspections and tests, at the discretion of Purchaser, may be conducted on the premises of the Vendor or its subcontractor(s), at point of delivery, and / or at the good's final destination. If conducted on the premises of the Vendor or its subcontractor(s), all reasonable facilities and assistance, including access to drawings and production data, shall be furnished to the inspectors at no charge to the Purchaser.
- c. Should any inspected or tested goods fail to conform to the specifications the Purchaser may reject the goods, and the vendor shall either replace the rejected goods or make alterations necessary to meet specification requirements free of cost to the Purchaser/user.
- d. Purchaser' right to inspect, test and, where necessary reject the goods after the goods' arrival at user's site shall in no way be limited or waived by reason of the goods having previously been inspected, tested and passed by the Purchaser or its representative prior to the goods shipment from the country of origin.
- e. Nothing in this clause shall in any way release the vendor from any warranty or other obligations under this contract.
- f. The acceptance test will be conducted by the Purchaser, their consultant or any other person nominated by the Purchaser, at its option. There shall not be any additional charges for carrying out acceptance tests. Any reduction in functional requirements, and performance specifications shall be ground for failure. Any malfunction, partial or complete failure of any part of hardware, firmware or bugs in the software shall be grounds for failure of acceptance test. All the software should be complete, and no missing modules / sections will be allowed. The vendor shall maintain necessary log in respect of the results of the tests to establish to the entire satisfaction of the Purchaser, the successful completion of the test specified. An average uptake efficiency of 97% for the duration of test period (7 days) shall be considered as satisfactory.
- g. In the event of the hardware and software failing to pass the acceptance test, A period not exceeding two weeks will be given to rectify the defects and clear the acceptance test, failing which the Purchaser reserves the rights to get the Equipment replaced by the vendor at no extra cost to the Purchaser/user.

F.8. Acceptance certificates

On successful completion of acceptability test, receipt of deliverables etc, and after Purchaser is satisfied with the working of the system, the acceptance certificate signed by the vendor and the representative of the Purchaser will be issued. The date on which such certificate is signed shall be deemed to be the date of successful commissioning of the systems.

F.9. Packing

1. The vendor shall provide such packing of the goods as is required to prevent their damage or deterioration during transit to their final destination. The packing shall be sufficient to withstand, without limitation, rough handling during transit and exposure to extreme temperature, salt and precipitation during transit and open storage. Packing case size and weights shall take into consideration, where appropriate, the remoteness of the goods' final destination and the absence of heavy handling facilities at all points in transit.

2. The packing, marking and documentation within and outside the packages shall comply strictly with such special requirements as shall be expressly provided for in the contract, including additional requirements, if any, specified in SCC, and in any subsequent instructions ordered by the Purchaser.

F. 10. Delivery and Installation period:

Successful Bidder shall deliver the goods/services, install and commission the same within the time period as mentioned in the Bid Data Sheet at the designated locations as communicated by the Purchaser/User Department.

F.11. Delivery and documents

Delivery of the goods/services shall be made by the vendor in accordance with the terms specified in the tender document. The details of shipping and / or other documents to be furnished and submitted by the vendor are specified below.

A) For Goods supplied from abroad:

1. Within 24 hours of shipment, the Vendor shall notify the Purchaser and the Insurance Company by cable/fax/email full details of the shipment including contract number, description of goods, quantity, the vessel, the bill of lading number and date, port of loading, date of shipment, port of discharge, etc. The Vendor shall mail the following documents to the Purchaser, with a copy to the Insurance Company.
2. Four copies of supplier's invoice showing goods description, quantity, unit price and total amount;
3. 4 copies of packing list identifying contents of each package;
4. Insurance certificate; Manufacturer's/Supplier's warranty certificate;
5. Inspection certificate, issued by the nominated inspection agency and
6. The Supplier's factory inspection report; and Certificate of origin.
7. The above documents shall be received by the Purchaser at least one week before arrival of Goods at the port or place of arrival and, if not received, the Vendor will be responsible for any consequent expenses.

B) For Goods from within India:

Upon delivery of the goods to the user, the vendor shall notify the Purchaser and mail the following documents to the Purchaser:

1. Four copies of the Vendor invoice showing goods description, quantity, unit price total amount;
2. Delivery note, or acknowledgement of receipt of goods from the user;
3. Manufacturer's or Supplier's warranty certificate;
4. Inspection Certificate issued by the nominated inspection agency, and the Supplier's factory inspection report.
5. Certificate of Origin;
6. Insurance policy;
7. Excise gate pass Octroi receipts wherever applicable duly sealed indicating payments made; and
8. Any of the documents evidencing payment of statutory taxes.

9. The above documents shall be received by the Purchaser before arrival of the Goods (except deliver note and where it is handed over to the user with all documents) and if not received, the vendor will be responsible for any consequent expenses.

F.12. Insurance

1. It is suggested that the goods supplied under the contract shall be fully insured in a freely convertible currency against loss or damage incidental to manufacture or acquisition, transportation, storage, and delivery up to user site.
2. The insurance should be for replacement value from “Warehouse to warehouse (final destination)” on “All Risks” valid upto 3 months till completion and 10 days from the date of acceptance of delivery.

F.13. Transportation

Transport of the goods to the project site(s) shall be arranged by the vendor at his cost.

F.14. Hardware Installation

The vendor is responsible for all unpacking, assemblies, installations and connecting to power supplies. The vendor will test all hardware operations and accomplish all adjustments necessary for successful and continuous operation of the items/equipment supplied at all installation sites.

F.15. Incidental services

The Vendor may be required to provide any or all the following services, including additional services:

1. Performance or supervision or maintenance and/or repair of the supplied goods and services, for a period of time agreed by the parties, provided that this service shall not relieve the Vendor of any warranty obligations under this Contract, and
2. Training of Purchaser and/or its user organization personnel, at the Vendor’s site and / or on-site, in assembly, start-up, operation, maintenance and/or repair of the supplied goods and services.
3. Prices charged by the Vendor for the preceding incidental services, if any, should be indicated separately (if required), and same will be mutually negotiated separately.

F.16. Spare parts

1. The Vendor may be required to provide any or all of the following materials, notifications and information pertaining to spare parts manufactured or distributed by the Vendor.
2. Such spare parts as the Purchaser may elect to purchase from the Vendor, provided that this election shall not relieve the Vendor of any warranty obligations under the contract and
3. In the event of termination of production of the spare parts, an advance notification to the Purchaser of the pending termination, in sufficient time to permit the Purchaser to procure needed requirements and

4. The Vendor shall ensure availability of spares in stock at his nearest service centre for immediate delivery such spare parts as: (a) are necessary for a minimum of 5 years of operation after installation at the Purchaser's sites (b) are necessary to comply with specifications.

F.19. Warranty

1. The Vendor warrants that the goods and services supplied under the contract are new, unused, of the most recent or current models, and that they incorporate all recent improvements in design and materials unless provided otherwise in the contract. The Vendor further warrants that all goods and services supplied under this contract shall have no defect arising from design, materials or workmanship or from any act or omission of the Vendor, that may develop under normal use of the supplied goods in the conditions prevailing in the country of final destination.
2. The warranty period shall be as stated in bid document. The Vendor shall, in addition, comply with the performance guarantees specified under the contract. If, for reasons attributable to the Vendor, these guarantees are not attained in whole or in part, the Vendor shall, make such changes, modifications, and/or additions to the goods or any part thereof as may be necessary in order to attain the contractual guarantees specified in the contract at its own cost and expenses and to carry out further performance tests.
3. The equipment supplied should achieve required up time.
4. Purchaser/user shall promptly notify the Vendor in writing of any claims arising under this warranty.
5. Upon receipt of such notice, the Vendor shall, within the period specified in SCC and with all reasonable speed, repair or replace the defective goods and services or parts thereof, without costs to the user.
6. If the Vendor, having been notified, fails to remedy the defect(s) within a reasonable period, the Purchaser/user may proceed to take such remedial action as may be necessary, at the vendor's risk and expense and without prejudice to any other rights which the Purchaser /user may have against the Vendor under the contract.

F.20. Maintenance service

1. Free maintenance services including spares shall be provided by the vendor during the period of warranty. User, at its discretion may ask the vendor to provide maintenance services after warranty period, i.e. Annual maintenance and repairs of the system at the rates indicated by bidder in its proposal and on being asked so, the vendor shall provide the same.
2. The cost of annual maintenance and repairs cost (after warranty period), which will include cost of spares replaced, shall be paid in equal quarterly installments at the end of each quarter.
3. The maximum response time for maintenance complaint from any of the destination (i.e. time required for supplier's maintenance engineers to report to the installations after a request call/email is made or letter is written) shall not exceed the time period specified in SCC.
4. The vendor will accomplish preventive and breakdown maintenance activities to ensure that all hardware, and firmware execute without defect or interruption for at least required up time.

5. In case up time is less than the stipulated up time, penalty as indicated in the bid document shall be imposed on the vendor.
6. The amount of penalty if any, will be recovered at source from the performance guarantee during the warranty or from annual maintenance charges payable as the case may be.

F.19. Payment

1. The vendor's request(s) for payment shall be made to the Purchaser / Department in writing, accompanied by an invoice describing, as appropriate, the goods/service delivered/ performed.
2. Payments shall be made promptly by the Purchaser/User Department, but in no case later than (30) days after submission of a valid invoice or claim by the vendor.
3. However, payment process from APTS will be subject to receipt of funds from the User Department.
4. The currency of payment will be Indian rupees.
5. Payment shall be made as indicated in Bid document.
6. The annual maintenance and repair cost as per separate agreement if any, shall be paid in equal quarterly installments at the end of each quarter as per the rates quoted and agreed.
7. Payment will be made through Cheque/online.

F.20. Prices

Prices charged by the Vendor for goods delivered and services performed under the contract shall not vary from the prices quoted by the Vendor in its bid, with the exception if any price adjustments authorized in special conditions of contract or in the request for bid validity extension, as the case may be.

F.21. Change orders

Purchaser may, at any time, by written order given to the Vendor, make changes within the general scope of the Contract in any one or more of the following:

1. Drawing, designs, or specifications, where Goods to be supplied under the Contract are to be specifically manufactured for the Purchaser;
2. The method of shipment or packing;
3. The place of delivery and/or the services to be provided by the Vendor.
4. If any such change causes an increase or decrease in the cost of, or the time required for, the vendor's performance of any provisions under the contract, an equitable adjustment shall be made in the contract price or delivery schedule, or both, and the contract shall accordingly be amended.
5. Any claims by the Vendor for adjustment under this clause must be asserted within thirty (30) days from the date of the Vendor's receipt of the change order.
6. Quantity of items to be supplied.

F.22. Contract amendment

No variation in or modification of the terms of the Contract shall be made except by written amendment signed by the parties.

F.23. Assignment

The Vendor shall not assign, in whole or in part, its obligations to perform under this Contract, except with the prior written consent from Purchaser.

F.24. Subcontracts

The Vendor shall notify the Purchaser in writing of all subcontracts awarded under this contract if not already specified in the bidder's proposal. Such notification, in the original bid or later, shall not relieve the Vendor from any liability or obligation under the contract. Subcontract shall be only for bought-out items and sub-assemblies.

F.25. Delays in the supplier's performance

1. Delivery of the Goods and performance of the services shall be made by the Vendor in accordance with the time schedule specified by the Purchaser in the bid document.
2. If at any time during performance of the Contract, the Vendor or its subcontractor(s) should encounter conditions impeding timely delivery of the goods and performance of services, the Vendor shall promptly notify the Purchaser in writing of the fact of the delay, its likely duration and its cause(s). As soon as practicable after receipt of the vendor's notice, Purchaser shall evaluate the situation and may at its discretion extend the Vendor's time for performance, with or without liquidated damages.
3. A delay by the Vendor in the performance of its delivery obligations shall render the vendor liable to the imposition of appropriate liquidated damages, unless an extension of time is agreed upon by Purchaser without liquidated damages.

F.26. Liquidated damages

If the Vendor fails to deliver any or all of the goods or perform the services within the time period(s) specified in the Contract, the Purchaser shall, without prejudice to its other remedies under the Contract, deduct from the Contract Price, as liquidated damages, a sum equivalent to, as per the terms indicated in the bid document, until actual delivery or performance, subject to maximum limit. Once the maximum limit of Liquidated Damages is reached, the Purchaser may consider termination of the contract.

F.27. Taxes and duties

1. The vendor shall be entirely responsible for all taxes, duties, license fee Octroi, road permits etc. incurred until delivery of the contracted Goods/services at the site of the user or as per the terms of tender document if specifically mentioned.
2. However any new taxes introduced by GoI / GoAP during validity of the contract it will be applicable to both parties (i.e. Supplier / Purchaser)

F.28. Licensing considerations

The software mentioned in the Schedules of Requirement will be used throughout Andhra Pradesh or user's sites even outside Andhra Pradesh.

F.29. Protection against damages- site conditions:

1. The items/equipments supplied shall not be prone to damage during power failures and trip outs. The normal voltage and frequency conditions available at site are as under:

- a. Voltage 230 Volts
 - b. Frequency 50Hz.
2. However, locations may suffer from low voltage conditions with voltage dropping to as low as 160 volts and high voltage conditions with voltage going as high as 220 + 20% volts. Frequency could drop to 50Hz + 2%. The ambient temperature may vary from 10°C to 48°C. The relative humidity may range in between 5% to 95%.
3. The goods supplied under the contract should provide protection against damage under above conditions.

F.30. Fail-safe procedure

The vendor should indicate in detail fail-safe procedure(s) for the following:

1. Power failure
2. Voltage variation
3. Frequency variation
4. Temperature and humidity variations.

F.31. Training:

For each hardware and software component installed, for the devices, the Vendor may be required to train the designated Purchaser and User Department personnel to enable them to effectively operate the total system. The training, if required, shall be given, as specified in the SCC at the locations specified. The training schedule will be agreed to by both parties during the performance of the Contract.

F.32. Site Preparation and Installation:

The Purchaser is solely responsible for the construction of the installation sites except where it is specifically required under bid document. The bidder will designate to perform a site inspection to verify the appropriateness of the sites before the installation of every hardware related item.

F.33. Governing language

The contract shall be written in English or Telugu. All correspondence and other documents pertaining to the contract which are exchanged by the parties shall be written in same languages.

F.34. Applicable law

The contract shall be interpreted in accordance with appropriate Indian laws.

F.35. Notices

1. Any notice given by one party to the other pursuant to this contract shall be sent to the other party in writing or by telex, email, cable or facsimile and confirmed in writing to the other party's address.
2. A notice shall be effective when delivered or tendered to other party whichever is earlier.

F.36. Termination for default

1. The Purchaser, without prejudice to any other remedy for breach of Contract, by written notice of default sent to the Vendor, may terminate the Contract in whole or in part:
 - a. if the Vendor fails to deliver any or all of the Goods/services within the time period(s) specified in the contract, or within any extension thereof granted by the Purchaser pursuant to Clause F.25 or
 - b. if the Vendor fails to perform any other obligation(s) under the Contract or
 - c. if the Vendor, in the judgment of the Purchaser has engaged in corrupt or fraudulent practices in competing for or in executing the Contract.
2. In the event the Purchaser terminated the contract in whole or in part, Purchaser may procure, upon such terms and in such manner as it deems appropriate, goods or services similar to those undelivered, and the Vendor shall be liable to the Purchaser for any excess costs for such similar goods or services. However, the Vendor shall continue performance of the contract to the extent not terminated.

F.37. Force majeure

1. The Vendor shall not be liable for forfeiture of its performance security, liquidated damages, 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.
2. For purposes of this clause, “Force Majeure” means an event beyond the control of the Vendor and not involving the Supplier’s fault or negligence and not foreseeable. Such events may include, but are not restricted to, acts of the Purchaser in its sovereign capacity, wars or revolutions, fires, floods, epidemics, quarantine restrictions and freight embargoes.
3. If a Force Majeure situation arises, the Vendor shall promptly notify the Purchaser in writing of such condition and the cause thereof. Unless otherwise directed by the Purchaser in writing, the Vendor shall continue to perform its obligations under the Contract as far as is reasonably practical, and shall seek all reasonable alternative means for performance not prevented by the Force Majeure event.

F.38. Termination for insolvency

Purchaser, may at any time terminate the contract by giving 30 days written notice to the Vendor if the Vendor becomes bankrupt or otherwise insolvent. In this event, termination will be without compensation to the Vendor, provided that such termination will not prejudice or affect any right of action or remedy which has accrued or will accrue thereafter to the Purchaser.

F.39. Termination for convenience

1. Purchaser, may at any time by giving 30 days written notice to the Vendor, terminate the Contract, in whole or in part, for its convenience. The notice of termination shall specify that termination is for the Purchaser/Purchaser’s convenience, the extent to which performance of the Vendor under the Contract is terminated, and the date upon which such termination becomes effective.

2. The goods that are complete and ready for shipment within thirty (30) days after the vendor's receipt of notice of termination shall be accepted by the Purchaser at the contract terms and prices. For the remaining Goods, the Purchaser may elect to have any portion completed and delivered at the contract terms and prices at its discretion.

F.40. Resolution of disputes

1. Purchaser and Vendor shall make every effort to resolve amicably by direct informal negotiation any disagreement or dispute arising between them under or in connection with the contract.
2. If, after thirty (30) days from the commencement of such informal negotiations, the Purchaser and the Vendor have been unable to resolve amicably a contract dispute, either party may require that the dispute be referred for resolution to the formal mechanisms specified here in. These mechanisms may include, but are not restricted to, conciliation mediated by a third party.
3. The dispute resolution mechanism shall be as follows:
In case of a dispute or difference arising between the Purchaser and the Vendor relating to any matter arising out of or connected with this agreement, such disputes or difference shall be settled in accordance with the Arbitration and Conciliation Act, of India, 1996.

Section G – Special Conditions of Proposed Contract (SCC)

G.1. Delivery and Installation period:

Successful Bidder shall deliver the goods/services, install and commission the same within **Six (6) Weeks** from the date of issue of Notification of Award at the AP State Data Centre or any other place as indicated by the Department.

G.2. LD for late deliveries/installations:

1% of the late delivered or deemed late delivered/installed goods for One week or part thereof, 1.5% for Two weeks or part thereof, 2% for Three weeks or part thereof, 2.5% for 4 weeks or part thereof, and so on. In case both delivery and installation were late, then penalty will be computed based on installation date only. In case, installation is pending due to user department, bidder should submit a letter from user department to that effect.

G.3. Maximum LD for late deliveries/ installation:

Maximum LD for late deliveries/installations: 10% on the Total value of goods for that location/site for late delivery/installation or deemed late delivered/installed goods.

However, Purchaser reserves the right further to take penal action on the bidder. The bidder will be disqualified, blacklisted, action will be initiated as deemed fit and the Bid Security will be forfeited.

G.4. Runtime & Uptime Requirements

1. SLA Definitions:

For the purpose of this SLA, the definitions and terms as specified in the contract along with the following terms shall have the meanings set forth below:

- **“Incident”** refers to any event/ abnormalities in the functioning of the IT Infrastructure in State Data Centre/ specified services that may lead to disruption in normal operations of the services.
- **“Support”** shall mean the 24x7 support which shall handle patch updates, upgrades Fault Reporting, Trouble Ticketing, and resolution of related enquiries during this contract. Interactive remote diagnostic support shall also be there, allowing technical support engineers to troubleshoot an incident securely through a browser-based remote control feature.
- **“Availability”** shall mean the time for which the services offered are available for conducting operations from the equipment/ solution hosted in SDC. Availability percentage is measured as **Availability %age** = $\{(Agreed\ Service\ Time - Down\ Time) / (Agreed\ Service\ time) * (100\%)\}$
- **“Scheduled Maintenance Time/ Scheduled downtime”** shall mean the time that the System is not in service due to scheduled work. Scheduled maintenance time is planned downtime with the prior permission of the designated SDC operator.
- **“Scheduled operation time”** means the scheduled operating hours of the System for the month. All scheduled maintenance time on the system would be deducted from the

total operation time for the month to give the scheduled operation time. The total operation time for the systems and applications hosted in SDC will be 24x7x365.

- **“Downtime”** means accumulated time during which the System is totally inoperable within the Scheduled Operation Time but outside the scheduled maintenance time.
- **“Subsystem Downtime”** shall mean the downtime observed in major components of the IT infrastructure. e.g., in Network or Virtualization Layer or Storage, Virtual Operating Systems, Physical Servers etc. will be the major components in SDC. The amount (%) that the sub-system contributes to the mission of the Total System **Total System Downtime** shall be defined as the sum of the downtimes of each functional sub-system in as much as that sub-system contributes to the mission of the Total System. The average downtime of all subsystems will be calculated by the following formula:
 - **Subsystem Downtime= (Downtime Subsystem A + Downtime Subsystem B + Downtime Subsystem N)/ Total Subsystems.**
- **“Response time”** is defined as the time between receipt of the incidence and a support start time for working on the incidence
- **“Resolution Time”** shall mean the time taken (after the incident has been reported to the SI), in resolving (diagnosing, troubleshooting and fixing) or escalating (to the 2nd level or to respective Vendors, getting the confirmatory details about the same from the Vendor and conveying the same to the State), the services related troubles during the first level escalation. The resolution time shall vary based on the severity of the incident. The severity parameters have been defined as below:

The severity would be as follows:

- a. **Critical:** In case more physical servers are down threatening business continuity & IT infrastructure, which is attributable to the DCO, and an immediate workaround is not possible, it shall be considered as a Critical incident.
- b. **High:** In case one physical server/ network equipment is down causing high impact on business operations which is attributable to the DCO.
- c. **Medium:** In case an essential functionality of APSDC becomes unavailable in the Live APSDC environment which is not actually hampering the live services of APSDC but may impact the services if not attended immediately will be termed as medium.
- d. **Low:** The incidents would be termed as low, which does not have any significant impact on the APSDC service delivery (little or no impact on business entity).

2. Downtime Planned:

Planned downtime shall mean any time when the services from the State Data Centre are unavailable because of Urgent Maintenance activities and any other scheduled maintenance or upgrade activities that may or may not be periodic. The planned downtime must be notified to the State at least **48 hours** in advance.

Urgent Maintenance activities are maintenance activities required by application or systems that cannot be postponed until the next available or convenient maintenance window, and may include

but not limited to restarting applications, rebooting servers, applying patches or fixes, reconfiguring, reloading data etc.

3. Service Level Requirements

The following outlines the service level indicators & and the target performance levels to be maintained by the successful bidder during the contract period. These SLAs shall be strictly imposed. The target performance metrics are as outlined in the table below:

S. No.	Measurement	Target	Severity	Penalty
1.	Server Hardware Availability	99.749%	<u>Critical</u>	0.1% of the Equipment Cost deemed down for every 2 hours of down time at a stretch or in parts up to total down time of 10 hours. Beyond 10 hours of down time, 0.2% of the Equipment Cost for every 1 hour of down time at a stretch or in parts.

Equipment/Services Downtime is the time in hours that the equipment/ Services is not available and excludes planned downtime, which are approved by RTGS and the link failures that are taken from third party (ISPs). The downtime shall be calculated from the EMS tool, as may be applicable. In case, downtime of any equipment/ Services is not available on EMS, it shall be calculated from the helpdesk. It is clarified that the downtime on account of delay by the OEM in repairing/ replacing equipment/ Services for which warranty/maintenance contract already exists shall not be counted, subject to timely call logging for vendor management (within 15 mins from the identification of issues).

Equipment downtime shall not be considered for penalty calculation up to 48 hours if services are not hampered. If beyond 48 hours equipment is not repaired then downtime calculation for penalty shall be applicable from the start time of equipment downtime.

G.5. Penalty for failure to maintain during warranty period:

1. The penalty amount will be deducted from the amount payable to the bidder by Purchaser. Once this amount is exhausted, penalty amount will be recovered from the Performance Security. Once the Performance Security also exhausted, the bidder will be required to recoup the Performance Security. If the bidder fails to recoup the Performance Security, the bidder will be debarred from participating in tenders till the time the bidder recoups the Performance Security.
2. The penalty for crossing service level agreement will be limited to 10%. However, Purchaser reserves the right further to take penal action on the bidder. The bidder will be disqualified, blacklisted, action will be initiated as deemed fit and the Bid Security will be forfeited.

G.6. Payment Terms and Conditions

Payment terms	By Purchase order issuing authority
Upon submission of Delivery Challan & Installation cum Acceptance Test Report	90% of items cost as per Contract / PO for which DCs & IR cum AT reports submitted.
Satisfactory Performance Certificate (SPC) from the competent authority of the Department after 30 days	Remaining 10% of items cost as per Contract / PO for which DCs, IR cum AT reports & SPCs submitted.
Incase site not ready, for more than 30 days from the date of delivery	75% of the Contract / PO value for that site / location up on submission of Site Not Ready Certificate.
Billing/Invoice	• Invoice should be raised in the name of User Department. • Billing/Invoice should be done from any of the offices located in AP only. • Invoices that are not in compliance with above conditions will not be processed.

Note:

1. All the Delivery Challans, Installation cum AT Reports, OEM Quality Certificate to be Counter signed by the respective Competent Authority as designated by the user department.
2. Full technical specifications of the supplied items as per Contract/PO are to be mentioned in DCs and IRs.
3. The certificate/report should have Name, Designation, Signature, Phone number, Date and Seal of the Officer.
4. The DC/IR/SPC will not be processed for payments if the Name, Designation, Signature, Phone number, Date and Seal of the Officer are not available.
5. Purchaser reserves right to conduct random Acceptance Test on items delivered if required.

Section H – Annexures

Annexure I : Model Contract Form

Contract Ref No: _____

THIS AGREEMENT is made on ____ day of _____

BETWEEN

1. *The Managing Director , Andhra Pradesh Technology Services Limited, APTS Ltd, 3rd Floor, R&B Building, MG Road, Labbipet, Vijayawada-500010, Andhra Pradesh, India or HoD of User Department (hereinafter called “the Purchaser”), on behalf of _____ Department, AP and*
2. _____ a company incorporated under the laws of India and having its registered office at _____. (Hereinafter called “the Supplier”).

WHEREAS the Purchaser invited bid for certain goods and ancillary services viz., *Supply and Installation of _____ for supply at _____* and has accepted a bid by the Supplier for the supply of those goods and services in the sum of Rs. _____ (_____.) including all taxes and duties (hereinafter called as “the Contract Price”)

NOW THIS AGREEMENT WITNESSETH AS FOLLOWS:

In this Agreement words and expression shall have the same meanings as are respectively assigned to them in the Conditions of bid document referred to

1. Scope of the Work

Brief outline of the work: *To Supply & Installation of devices/products/items as per the staggered orders issued time to time during the contract period at _____*. The detailed scope is as covered in RFP and subsequent clarifications.

2. Contract Documents

2.1. Contract Documents

The following documents shall constitute the Contract between the User and the Supplier, and each shall be read and construed as an integral part of the Contract:

- I. This Contract Agreement and the Annexures attached to the Contract Agreement
- II. Notification of award
- III. Minutes of TCPC meeting held on _____
- IV. Pre – bid conference minutes

V. Bid document Ref No. _____ Dt. _____

2.2. Order of Precedence

In the event of any ambiguity or conflict between the Contract Documents listed above, the order of precedence shall be the order in which the Contract Documents are listed in 2.1(Contract Documents) above, provided that Schedule of Amendments contained in Annexure IV shall prevail over all provisions of the Contract Agreement and the other Appendices attached to the Contract Agreement and all the other Contract Documents listed in 2.1 above.

3. In consideration of the payments to be made by the Purchaser to the Supplier as hereinafter mentioned, the Supplier hereby covenants with the Purchaser to provide the Goods and Services and to remedy defects therein in conformity in all respects with the provisions of the Contract.
4. The Purchaser hereby covenants to pay the Supplier in consideration of the provision of the Goods and Services and the remedying of defects therein, the Contract Price or such other sum as may become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract.
- 5.1. Brief particulars of the goods and services which shall be supplied /provided by the supplier are as under:

Sl. No	Solution, service, or material	Max. Qty	Unit Price
1.			
2.			
3.			
	Grand Total		

5.2 DELIVERY SCHEDULE : _____
5.3 WARRANTY: : _____
5.4 SUPPLIERS RESPONSIBILITY : _____
5.5 UP TIME % : : _____
5.6 EXIT CLAUSE : : _____
5.7 PAYMENT TERMS : _____

IN WITNESS WHEREOF the Purchaser and the Supplier have caused this Agreement to be duly executed by their duly authorized representatives the day and year first above written.

For and on behalf of the Purchaser

Signed:___

In the capacity of Managing *Director, APTS / HoD of User Department*

in the presence of _____

For and on behalf of the Supplier

Signed: __

in the capacity of-----, *M/s.* _____

in the presence of _____

Items	Configuration Required	Qty	Unit Price

Annexure – IV

Amendments & Other Documents

S.No.	Amendment No	Date	Amendment Description

Annexure II – Bid Security (EMD) BG Form

APTS Ref. No.....

Bid Security (EMD) Form

(To be issued by a bank scheduled in India and having at least one branch in Vijayawada)

Whereas..... (Here in after called “the Bidder”) has submitted its bid Dated (Date) for the execution of..... (Here in after called “the Bid”)

KNOW ALL MEN by these presents that We of having our registered office at..... (hereinafter called the “Bank”) are bound into the Andhra Pradesh Technology Service Ltd. (hereinafter called “The APTS”) in the sum of for which payment well and truly to be made to the said APTS itself, its successors and assignees by these presents.

The conditions of this obligation are:

1. If the bidder withdraws its bid during the period of bid validity or
2. If the bidder, having been notified of the acceptance of its bid by the APTS during the period of bid validity:
 - a. fails or refuses to execute the contract form if required; or
 - b. fails or refuses to furnish the performance security, in accordance with the bid requirement;
 - c. Submits fake documents.

We undertake to pay the APTS up to the above amount upon receipt of its first written demand, without the APTS having to substantiate its demand, provided that in its demand the APTS will note that the amount claimed by it is due to it, owing to the occurrence of one or both of the two conditions, specifying the occurred condition or conditions.

This guarantee will remain in force up to and including 45 days after the period of the bid validity, and any demand in respect thereof should reach the Bank not later than the above date.

Place:
Date:

Signature of the Bank
and seal.

Annexure III – Performance Security BG Form

APTS Ref. No.....

Performance Security Form

(To be issued by a bank scheduled in India and having at least one branch in Vijayawada)

To: (Address of APTS)

WHEREAS..... (Name of Vendor) hereinafter called “the Vendor” has undertaken, in pursuance of Contract No..... Dated ... (Date), to supply..... called “the Contract”.

AND WHEREAS it has been stipulated by you in the said Contract that the Vendor shall furnish you with a Bank Guarantee by a recognized bank for the sum specified therein as security for compliance with the Supplier’s performance obligations in accordance with the Contract.

WHEREAS we have agreed to give the Vendor a Guarantee:

THEREFORE WE hereby affirm that we are Guarantors and responsible to you, on behalf of the Vendor, up to a total of Rs. and we undertake to pay you, upon your first written demand declaring the Vendor to be in default under the Contract and without cavil or argument, any sum or sums within the limit of Rs..... . (Amount of Guarantee) as aforesaid, without your needing to prove or to show grounds or reasons for your demand or the sum specified therein.

This guarantee is valid until the day of..... (Date)

Place:

Date:

Signature and seal of guarantors

Annexure IV – Model Installation cum AT Report

(On Company Letterhead with other statutory details)

IR No.,

IR date

Office Name & Location:

I. Item Make/Model:

Qty:

S.NO. : (Attach separate sheet quantity is more)

SN	Complete specification of item as per Tender Document are to be mentioned such as	Functionality
1	Processor Details	
2	Chipset Details	
3	Memory: RAM	
4	.....	
5	.....	
6	.....	
7	.....	
8	.....	
9	.....	
10	.....	
11	.....	
12	.....	
13	.....	
14	Operating System	
15	Warranty Period	
16	Installation observations	Working satisfactorily or observations found if any

General Remarks:

Signature of Installation Engineer
Name
Contact No.

Signature of Dept. Official
with Name, Contact No., Seal & Date

Section I – Bid Forms

Bid Letter Form

From:
(Registered name and address of the bidder.)

To:
Andhra Pradesh Technology Services Ltd,
3rd Floor, R&B Building, MG Road, Labbipet,
Vijayawada-520010, Andhra Pradesh, India

Sir,

Having examined the bidding documents and amendments there on, we the undersigned, offer to provide services/execute the works including supply, delivery installation of hardware, firm wares and softwares as the case may be, in conformity with the terms and conditions of the bidding document and amendments there on, for the following project in response to your tender Ref. no _____ call dated

Project title:

We undertake to provide services/execute the above project or its part assigned to us in conformity with the said bidding documents in accordance with the schedule of prices attached herewith/submitted through online bid and coverage options made by APTS or its user organization.

If our bid is accepted, we undertake to;

1. Provide services/execute the work according to the time schedule specified in the bid document,
2. Obtain the performance guarantee of a bank in accordance with bid requirements for the due performance of the contract, and
3. Agree to abide by the bid conditions, including pre-bid meeting minutes if any, which remain binding upon us during the entire bid validity period and bid may be accepted any time before the expiration of that period.

We understand that you are not bound to accept the lowest or any bid you may receive, nor to give any reason for the rejection of any bid and that you will not defray any expenses incurred by us in bidding.

Place:
Date:

Bidder's signature
and seal.

Form P-1 - Bidder Information

1	Name of the organization	
2	Year of establishment	
3	Registered Office Address	
4	AP GST Regn. No.	
5	Phone No.	
6	Email	
7	Contact person details with mobile no.	
8	Total No. of branch offices in AP	
9	Total Support engineers at -	
10	At Head office (No.)	
11	At branch offices (No.)	
12	Whether Manufacturer?	If Yes, Provide relevant documents
13	Whether authorized dealer/ Service Provider?	If Yes, Provide relevant documents
14	Details of EMD furnished	
15	Details of certificates enclosed.	
16	Details of Purchasing document.	Provide details like APTS Receipt No& Date.

Place:
Date:

Bidder's signature
and seal.

Form P-2 – Bidder Turnover Details

Turnover details as per pre-qualification criteria mentioned in Section B of this document (taking in to consideration all the amendments issued to this document if any) are to be provided along with supporting documents.

Turnover Details

Sl. No.	Financial Year	Turnover of the bidder in Rs.	Profit after Tax (Rs.)	Networth in Rs.
	(1)	(2)	(3)	(4)
1				
2				
3				

Place:

Date:

Bidder's signature
and seal.

Form P-3 - List of Major Customers

S.No	Customer Full Address	Year of supply	Items supplied to the customer
A	B	C	D

Form P-4 - Details of service centers in AP

S.No	Full Address of service center	Contact person with phone No.	No. of support engineers
A	B	C	D

Form P-5 - Declaration Regarding Clean Track Record

To,
The Managing Director
Andhra Pradesh Technology Services Limited
3rd Floor, R&B Building, MG Road, Labbipet,
Vijayawada-520010, Andhra Pradesh, India

Sir,

I have carefully gone through the Terms & Conditions contained in the RFP Document [No. _____]. I hereby declare that my Company/Consortium Partners has not been debarred/ black listed as on Bid calling date by any State Government, Central Government, Central & State Govt. Undertakings/enterprises/Organizations and by any other Quasi Government bodies/Organizations, in India for non-satisfactory past performance, corrupt, fraudulent or any other unethical business practices. I further certify that I am competent officer in my company to make this declaration.

Yours faithfully,

(Signature of the Bidder)

Printed Name

Designation

Seal

Date:

Business Address:

Form P6 – Undertaking in compliance with GFR Rule 144(xi)

To
The Managing Director,
AP Technology Services Ltd, 3rd Floor, R&B Building
M.G. Road, Vijayawada – 520010

Dear Sir,

Sub: Tender invited for _____ – Regarding.

Ref: Tender Reference _____, Dt. _____

I have read the GoI order issued by Ministry of Finance vides F. No. 6/18/2019-PPD, dated 23-07-2020 and subsequent clarifications/ amendments & G.O. Ms. No. 9, Dt. 25-02-2021 issued by Industries & Commerce Department of Government of Andhra Pradesh regarding restrictions on procurement from a Bidder of a Country which shares a land border with India.

I certify that this bidder is not from any such country or, if from such a Country, has been registered with the Competent Authority. I hereby certify that this bidder fulfills all requirements in this regard and eligible to be considered. [wherever applicable , evidence of valid registration by the competent authority shall be attached].

For <Bidder> (* the definition of bidder as per above mentioned in Clause No. E.3)

Authorized signatory:

Name of the authorized person:

Designation:

Name of Bidder: Stamp of Bidder:

NOTE: The letter should be submitted on the Letter head of the Bidder and should be signed by the Authorized signatory.

Form P7 – Manufacturer’s Authorization Form

On OEM Letter Head

To,
The Managing Director
Andhra Pradesh Technology Services Limited
3rd Floor, R&B Building, MG Road, Labbipet,
Vijayawada-520010, Andhra Pradesh, India

Sir,

Sub: Manufacturer Authorization Form issued to _____ - Reg.

Ref: Tender Ref. No. _____, Dt. _____

We <<OEM>> having our registered office at <<Address>> are established and reputed manufacturers of <<Products>>. We hereby confirm that <<bidder>> whose office is at <<address>> is an authorized reseller of <<OEM>> Products. The above reseller is authorized to provide a bid/quote for these products and enter into contracts for the same with you in respect of the above tender.

We hereby confirm that

1. Guarantee and warranty coverage in respect of the goods and services manufactured by us shall be honored by us, our channel partners, distributors, authorized service centers as the case may be.
2. We update <<the bidder>> and their technical personnel with relevant technical literature, training and skill transfer workshops etc. on a regular basis.
3. We provides back to back technical support to <<the said bidder>> on a continuing basis.
4. <<The said bidder>> is authorized to provide service and solutions using hardware, firmware and software as the case may be.

Note:

1. The letter of authority should be signed by a person competent and having the power of attorney to bind the manufacturer.
2. Conditional authorizations are not acceptable.
3. Any deviation to the above format will be a ground for disqualification of the bidder.

Form T 1 – Technical Compliance Statement

Item wise technical compliance statement as per technical specifications mentioned in Section-D of this document (taking in to consideration all the amendments issued to this document, if any) is to be submitted in the following format:

Item Code:

Item Name:

Sl. No.	Parameter/ Feature	Specification Required	Specification of proposed item along with Part Code, Qty. & Description if any (Part code details must be provided if available)	Compliance (Complied/Higher/Lower)	Reference for proof of compliance (Required docs to be uploaded along with technical bid)
A	B	C	D	E	F
					(Detailed reference such as doc name, para no. page no. etc. should be provided)

Form T 2 - Checklist

Compliance/Agreed/Enclosed/ Deviation Statement

The following are the particulars of compliance/deviations from the requirements of the tender specifications.

Bid document reference	Remarks
1.Delivery period	
2. Form P-1	
3. Form P-2	
4. Form P-3	
5. Form P-4	
6. Form P-5	
7. Form P-6	
8. Manufacturer's Authorization Form	
9. Form T-1	
10. Form T-2	
11. Form F-1 (unpriced)	
12. Pre-qualification criteria	
13. Technical specifications	
14. General instruction to bidders	
15. Standard procedure for bid evaluation	
16. General condition of proposed Contract(GCC)	
17. Special Condition of proposed Contract(SCC)	

The specifications and conditions furnished in the bidding document shall prevail over those of any other document forming a part of our bid, except only to the extent of deviations furnished in this statement.

Place:

Date:

Bidder's signature
and seal

NOTE:

For every item appropriate remarks should be indicated like 'no deviation', 'agreed', 'enclosed' etc. as the case may be.

Form T3 – Model declaration form for undertaking of authenticity for IT Hardware Supplies

Undertaking of authenticity for IT Hardware Supplies

1. This has reference to IT Hardware to be supplied/quoted in case we selected for the RFP Ref. No. _____ dated _____
2. We hereby undertake that all the components/parts/assembly/software used in the IT Hardware Supplies like Hard disk, Monitors, Memory etc shall be original new components/parts/assembly/software from respective OEMs of the products and that no refurbished/duplicate/second hand components/parts assembly/software are being used or shall be used.
3. We undertake that the supplied equipment will be 100% in accordance with the specifications and features mentioned in the RFP/Tender.
 - a. We will prepare to the annexure to installation report and will be given to installation/service engineers while going for installation of equipment or devices.
 - b. Our Service Engineer/Installation engineer will demonstrate all the features and functions to the end user during the installation and obtain the signature installation report and annexure to the installation report.
4. We also undertake that in respect of licensed operating system if asked by you in the purchase order shall be supplied along with the authorized license certificate (eg Product Keys on Certification of Authenticity in case of Microsoft Windows Operating System) and also that it shall be sourced from the authorized source (eg Authorized Microsoft Channel in case of Microsoft Operating System)
5. Should you require, we shall produce certificate from our OEM Supplier in support of above undertaking at the time of delivery. It will be our responsibility to produce such letters from our OEM supplier's within a reasonable time.
6. In case we are found not complying with above at the time of delivery or during installation, for the IT Hardware already billed, we agree to take back such items if already supplied and return the money if any paid to us by you in this regard.

Authorized Signatory

Name

Designation

Cost Sheets - Form F1

Schedule I

S.No.	Item details with <u>make and model</u>	Unit Price without taxes (Rs.)	Applicable Taxes/Duties on unit price (Rs.)	Unit price with taxes (5=3+4) (Rs.)	Qty	Total amount with taxes (Rs.)
1	2	3	4	5	6	7
CL-01	Servers for HDFS Data Nodes (Bare metal servers)				25	
CL-02	Servers for Ozone Nodes (Bare metal servers)				15	
CL-03	Servers for HDFS Master Nodes, Ozone Master Nodes, Utility Nodes, Kafka Nodes, Gateway Nodes, Flink Nodes (Bare metal servers)				27	
CL-04	Servers for KMS for Encryption (Bare metal servers)				2	
CL-05	Servers for Master Nodes (Bare metal servers)				4	
CL-06	Servers for Worker Nodes (Bare metal servers)				10	
CL-07	Servers for GPU Nodes				2	
TE-01	Talend Virtualization Infra (set)				1	
	Total Schedule Value					

(Signature of Bidder)

Note:-

1. Evaluation of Financial Bids will be including taxes.