

**Responses of Prebid Queries/Suggestions/Clarifications of "RFP of Rate Contract for Supply & Installation of Container Management Platform and FMS Services for Maintenance & Support of the Platform for RSDC" issued vide NIB Ref# F4.14(14)/RISL/Tech/E-proc/2024-02319/BSDC-107 dated 12/06/2024**

S.N.	RFP Page No.	RFP Rule No.	Rule Details	Bidder's Query/Suggestion/Clarification	RISL Comment
1	15	1.Scope of work - Point no 2	2. The container management Platform shall be able to run efficiently on the bare metal servers and not be dependent on engineered machine to meet the hardware infrastructure requirements and performance.	The container management Platform shall be able to run efficiently on the bare metal servers/Virtual Servers and not be dependent on engineered machine to meet the hardware infrastructure requirements and performance.	Please refer amended RFP.
2	17	1.Scope of work - Point no 20	20. The bidder shall provide Support & Subscription services from the OEM with unlimited number of support requests, remote support, access to product updates/upgrades and 24x7 supports for all Severity level issues.	The bidder shall provide Support & Subscription services from the OEM with unlimited number of support requests, remote support, access to product updates/upgrades and 24x7 supports for all Severity level issues. <u>For P0 production critical issues expected SLA support response should be within 30 minutes</u>	As per RFP
3	17	1.Scope of work - Point no 21	21. Regular reporting on health and performance of server and storage equipment deployed.	Server and Storage equipments are <u>out of scope</u> and hence request to remove this clause.	As per RFP  RISL has only asked for dashboard to display health of server and storage equipment.
4	17	1.Scope of work - Point no 22	22. The successful bidder is required to co-ordinate with the OEMs (call logging, troubleshooting, RCA etc.) in case of any software issue. The successful bidder has to take the sole responsibility to resolve the issue with the help of OEM.	We request the RSIL to consider this as - The successful bidder is required to co-ordinate with the OEMs (call logging, troubleshooting, RCA etc.) in case of any software issue. The successful bidder has to take the sole responsibility to resolve the issue with the help of OEM and RISL - Application Team.	As per RFP

5	17	1.Scope of work - Point no 32	32. Secure the runtime environment infrastructure by examining environment configuration values such as user access control, network firewall access, secret data management etc.	Runtime Enviornment includes Aplication that are hosted on the container platform. The applications are out of scope hence request to consider this clause as - Secure the container platform by examining environment configuration values such as user access control, network firewall access, secret data management etc. (Remove Runtime enviornment)	Please refer amended RFP.
6	17	1.Scope of work - Point no 34	34. Facilitate to review the difference in configuration file between different environments for parameter such as DB, API, Signing key file	Since we are providing the Container platform configuration management across enviornments would be in scope however any services or applications (DB,API, signing key file etc) and their configurations should be handled by respective owners. Hence we request to remove this clause as this not handled at the container platform level.	As per RFP.
7	18	1.Scope of work - Point no 37	37. Collect data and provide analytics on user behaviors, performance, errors etc.	We understand that the user behaviour analysis is done at respective application level, the container platform will not have access to this application data. Hence request to provide further clarity on this point .	Please refer amended RFP.
8	18	1.Scope of work - Point no 40.	40. support to run .Net Core / .Net framework application containers with / without windows nodes	"Every OEM has their architecture deploy and run the windows container, so please remove the restriction of with and without Windows nodes to qualify other Gartner's leading OEMs to participate in this tender. We request RSIL to consider this as - support to run .Net Core / .Net framework application containers. (Remove with/without windows nodes.)"	Please refer amended RFP.
9	18	1.Scope of work - Point no 43	43. Platform shall have capability to provision new environment to perform automated testing by way of Infrastructure as Code (IaC).	We request RSIL to consider this as - The solution should have capability to integrate with automated testing on dedicated testing environment	Please refer amended RFP.
10	18	1.Scope of work - Point no 44	44. The platform should integrate with various platforms of SoC.	Kindly share the details of SOC platforms to be integrated.	As per RFP Bidders may visit RSDC to study various SoC platforms hosted in RSDC

11	18	1.Scope of work - Point no 46	46. Bidder should close or provide acceptable workaround to mitigate any known vulnerability in the software / tools used in the End-to-End solution.	We request RSIL to consider this as - Bidder alongwith the OEM should close or provide acceptable workaround to mitigate any known vulnerability in the software / tools used in the End-to-End solution.	As per RFP
12	82	Ann-13: Functional and Technical Specifications - S. No 1	1. The proposed container platform solution should be 100% Certified by the CNCF(Cloud Native Computing Foundation) and should be deployable on Physical servers, Virtual, public/private cloud infrastructure.	"Container on virtualization provides higher resource utilization, better scalability, performance, dynamic resource allocation, HA at container and infra level, Live migration for VMs and Storage, FT, Agentless AV/AM, Hot Add (vCPU, vRAM, vNIC and Devices), and a single VM cluster can support different operating systems, Kubernetes versions and application versions. hence we suggest to consider containers on virtual platform. Request you to provide option of container deployment either on virtualization platform. Hence, We request RSIL to consider this as - The proposed container platform solution should be 100% Certified by the CNCF(Cloud Native Computing Foundation) and should be deployable on Physical servers/Virtual servers, public/private cloud infrastructure "	Please refer amended RFP.
13	82	Ann-13: Functional and Technical Specifications - S. No 2	2. The comprehensive solution, along with all its relevant technology modules and software, must be delivered as containers and should consist of Enterprise Open Source Software.	"Suggest to consider/ allow established and proven open source tools which provides no vendor lock in to the customer and flexibility to choose from multiple options. There are many vendors / products in the Gartner's leading OEMs that can provide solutions and participate in this tender. <u>Enterprise word is restricting Bidder/OEM to provide many of the established and proven open source tools which provides no vendor lock in to the customer and flexibility to choose from multiple options</u> hence we request RSIL to consider this as - The comprehensive solution, along with all its relevant technology modules and software, must be delivered as containers and should consist of Enterprise/Open Source Software."	Please refer amended RFP.

14	82	Ann-13: Functional and Technical Specifications - S. No 3	3. The proposed container platform Platform should provide a base operating system image with software collections to build custom containers and should provide updates on base image for software collection updates and vulnerabilities.	"This point is inclined towards the functionality of the Operating System and Vendor supplying the same Container As Raj DOIT uses multiple operating systems, we suggest to provide the flexibility to use multiple operaing systems such as RHEL, UBUNTU, Microsoft Windows server etc. Hence request RSIL to consider this clause to - 3. The proposed container platform should support multiple Operating systems such as RHEL, UBUNTU, Microsoft Windows Server etc or 3. The proposed container platform Platform should support a base operating system image (RHEL, Ubuntu, MS Windows etc) with software collections to build custom containers and should provide updates on base image for software collection updates and vulnerabilities."	Please refer amended RFP.
15	82	Ann-13: Functional and Technical Specifications - S. No 5	5. The proposed container platform Platform should have automated application build capability – from source code to a runnable container image	"As you have asked for CNCF compliant solution, we recommmed to consider the application (build from source code to a runnable image) which should include CNCF graduated/incumbent solution. Kindly consider this statement as: The proposed container platform solution should have automated application build capability – from source code to a runnable container image with and the solution should use CNCF graduated/incumbent solution. "	Please refer amended RFP.



16	82	Ann-13: Functional and Technical Specifications - S. No 6	6. The suggested solution should be capable of running on bare metal commodity hardware, in order to efficiently utilize the available bare metal resources.	"Container on virtualization provides higher resource utilization, better scalability, performance, dynamic resource allocation, HA at container and infra level, Live migration for VMs and Storage, FT, Agentless AV/AM, Hot Add (vCPU, vRAM, vNIC and Devices), and a single VM cluster can support different operating systems, Kubernetes versions and application versions. hence we suggest to consider containers on virtual platform. Request you to provide option of container deployment either on virtualization platform. Kindly consider this statement as: 6. The suggested solution should be capable of running on virtualization/ bare metal commodity hardware, in order to efficiently utilize the available bare metal resources."	Please refer amended RFP.
17	83	Ann-13: Functional and Technical Specifications - S. No 10	"10. The proposed container platform solution shall support adding Microsoft Windows nodes for running Windows containers and .NET framework applications. It should also be possible to run .NET Core / .NET v5+ framework application containers with and without Windows nodes. OEM shall provide supported .NET Core and .NET v5+ framework base images as part of the platform"	"Every OEM has their architecture deploy and run the windows container, so please remove the restriction of with and without Windows nodes to qualify other Gartner's leading OEMs to participate in this tender. Kindly re-write the statement as: 10. The proposed container platform solution shall support running Windows containers/ .NET Core/.NET v5+ framework applications. OEM shall support to run .NET Core/.NET v5+ framework base images as part of the platform"	Please refer amended RFP.
18	83	Ann-13: Functional and Technical Specifications - S. No 16	16. The proposed container platform solution shall have inbuilt pre-integrated management, monitoring, observability & container image registry capabilities out of the box. Monitoring/Observability solution must support user applications monitoring in a secure multi-tenant fashion. All the capabilities must work in a standalone disconnected (no internet) cluster without any dependency on any external service. All the provided components/modules must be fully supported by OEM including installation, upgrade, configuration with unlimited support instances	"User monitoring is a performance monitoring process that collects detailed data about a user's interaction with an application. The monitoring is between user and application and so we request you to remove the user monitoring as it is not relevant to the container platform. Also the monitoring, observability should not be restricted to any particular solution/ OEMs etc. We request you to consider the statement as: 16. <u>The proposed solution should provide an integration with any observability and monitoring solution.</u> "	As per RFP

19	84	Ann-13: Functional and Technical Specifications - S. No 22	22. The proposed container platform solution should provide OAuth server for token- based authentication and Role-based access control (RBAC) to expose cluster APIs and also secure API.	"OAuth server is a standard protocol for authorization and the OAuth 2.0 authorization framework enables a third-party application to obtain limited access to an HTTP service, or by allowing the third-party application to obtain access on its own behalf. Kindly re-write the statement as: The proposed container platform solution should provide/integrate OAuth server for token- based authentication and Role-based access control (RBAC) to expose cluster APIs and also secure API. "	As per RFP
20	84	Ann-13: Functional and Technical Specifications - S. No 26	"26. The proposed container platform solution should support the following Container Network Interface (CNI) Plugins for cluster networking: Multus Kuryr SR-IOV Host Device Bridge IP Vlan Static DHCP macvlan route-override whereabouts etc. "	"Two most commonly used CNIs - Antrea and Calico are missing from the points. Please add both the Antrea and Calico (Kubernetes-native project) to have multiple options of connectivity between the Pods over the cluster network. Multus, Antrea and Calico falls under CNI and rest of them are required for Physical server deployment. Hence request to kindly consider rephrase this clause as - The proposed container platform solution should support the following Container Network Interface (CNI) Plugins for cluster networking: Multus Antrea Calico"	Please refer amended RFP.
21	84	Ann-13: Functional and Technical Specifications - S. No 27	"27. The proposed container platform solution should have been tested against the following architecture: x86_64 s390x"	" Since it's an IBM System/390 compatibility solution and other OEMs would not be able to qualify, request to remove s390x from the list. Kindly consider re-write the statement as: 27. The proposed container platform solution should have been tested against the following architecture: x86_64"	Please refer amended RFP.
22	84	Ann-13: Functional and Technical Specifications - S. No 30	30. The proposed container platform solution should allow running virtual machines, containers/pods, serverless systems in one platform using the same tools & frameworks	" Every solution has different ways of hosting the containers/ VMs and serverless systems. We request to remove the one platform using the same tools & frameworks restriction to qualify other Gartner's leading OEMs to participate in this tender. Kindly consider to re-write the statement as: The proposed solution should allow running virtual machines, containers/pods and serverless systems."	Please refer amended RFP.

23	85	Ann-13: Functional and Technical Specifications - S. No 49	49. The proposed container platform solution should have built-in backup and disaster recovery capabilities for data and applications	"Please include the integrated backup and disaster recovery solution to qualify other Gartner's leading OEMs to participate in this tender. Kindly consider this to re-write the statement as: The proposed container platform solution should have built-in/ integrated backup and disaster recovery capabilities for data and applications"	Please refer amended RFP.
24	86	Ann-13: Functional and Technical Specifications - S. No 64	"64. The proposed container platform solution should be capable of providing a detailed view of compliance details to pinpoint clusters, nodes, or namespaces that don't comply with specific standards and controls and also have dashboards of overall compliance across each standard's controls with evidence export to meet auditors' needs. "	"This clause is advantages to a single OEM as all other Gartner leading OEMs would need to provide the third party solutions. Hence request to consider to rephrase clause to - The proposed solution should be capable of integrating with security solution for a detailed view of compliance details to pinpoint clusters, nodes, or namespaces that don't comply with specific standards and controls and also have dashboards of overall "	Please refer amended RFP.
25	86	Ann-13: Functional and Technical Specifications - S. No 66	66. The proposed container platform solution should be able to monitor system-level events within containers to detect anomalous activity indicative of a threat with automated response.	"This clause is advantages to a single OEM as all other Gartner leading OEMs would need to provide the third party solutions. We request you to consider this as - The proposed container platform solution should be able integrate with a solution to monitor system-level events within containers to detect anomalous activity indicative of a threat with automated response."	Point is deleted.
26	87	Ann-13: Functional and Technical Specifications - S. No 69	69. The proposed container platform solution should have integrated software defined storage solution which should be deployed as containers/pods and managed as part of the container based application life cycle.	"We request you to consider this statement as - The proposed container platform solution be integrated with software defined storage solution which can be deployed as containers/pods/Software defined storage managed through a user accessible console "	Please refer amended RFP.

27	87	Ann-13: Functional and Technical Specifications S. No 77	77. The proposed container platform solution must include an integrated virtualization solution based on Kubevirt which provides VM to be running alongside containers & and this functionality should be delivered through the same container platform offered by the OEM, complete with an Enterprise support. The VM & Container lifecycle management must be done from the same management console of offered solution	"Kindly consider to remove/ modify this point as its favoring to particular OEM only. Kindly re-write the statement as: 77. The proposed solution must include an virtualization solution which provides VM and containers to be running side by side & and this functionality should be delivered through the same platform offered by the OEM, complete with an Enterprise support. The VM & Container lifecycle management must be done from the management console of offered solution"	Please refer amended RFP.
28	88	Ann-13: Functional and Technical Specifications S. No 90	90. Two-factor authentication and TOTP/HOTP support	As every OEM has their own architecture to deploy the solution and its favoring to particular OEM only, hence request to remove	Please refer amended RFP.
29	89	Ann-13: Functional and Technical Specifications S. No 100	100. The solution should provide support for Windows Server Failover Cluster (WSFC) technology through a single solution.	Not relevant to container platform. Hence request you to remove the clause	Point is deleted.
30	90	Ann-13: Functional and Technical Specifications S. No 112	"112. The solution should support OCI compliant image format for preventing any technology lock-in.	"	Please refer amended RFP.
31	90	ANNEXURE-13: FUNCTIONAL AND TECHNICAL SPECIFICATIONS S. No 110	119. The registry should have an efficient and intuitive Web-UI, API to perform various operations, in addition to CLI.	"Kindly remove/ modify this point as its favoring to particular OEM only. Kindly consider to re-write the statement as: 119. The registry should have an efficient and intuitive Web-UI/ CLI, API to perform various operations."	Please refer amended RFP.
32	91	ANNEXURE-13: FUNCTIONAL AND TECHNICAL SPECIFICATIONS S.No 123	123. The Solution should have capability to auto discover APIs for their application	Kindly consider this as - The Solution should have capability to auto-discovery of APIs signatures between microservices running inside or outside the mesh.	As per RFP
33	91	ANNEXURE-13: FUNCTIONAL AND TECHNICAL SPECIFICATIONS S.No 129	129. The solution should provide a GUI based interface for Data Protection and Backup and restoration of kubernetes cluster	"Kindly remove/ modify this point as its favoring to particular OEM only. Kindly re-write the statement as: The solution should provide a Data Protection and Backup and restoration of kubernetes cluster"	As per RFP

34	88	ANNEXURE-13: FUNCTIONAL AND TECHNICAL SPECIFICATIONS S. No 92	92. The solution should provide unified and centralized software defined platform that brings together market leading compute, storage, networking and security Containerization & virtualization solution into a natively integrated stack to deliver enterprise-ready cloud infrastructure for the private, public cloud and across hybrid clouds.	"As Raj DOIT is moving towards container platform to automate the management, scalability, scheduling, networking, life cycle and monitoring of containers it is utmost important to automate the supporting resources which will ensure the fulfilment of complete container environment. Kindly re-write the statement as: 92. The solution should provide unified and centralized software defined platform that automates together market leading compute, storage, networking and security Containerization & virtualization solution into a natively integrated stack to deliver enterprise-ready cloud infrastructure for the private, public cloud and across hybrid clouds."	As per RFP
35	89	ANNEXURE-13: FUNCTIONAL AND TECHNICAL SPECIFICATIONS S.No 96	96. The solution should provide High availability capability that utilizes server health information and migrates VMs & containers workloads from degraded hosts.	"High Availability is reactive feature which includes shutdown and restart of workloads/ applications. Suggest to consider Proactive HA which provides enhanced high-availability protection by monitoring the health of the underlying physical servers and taking proactive measures to prevent potential failures. Kindly re-write the statement as: The solution should provide proactive High availability capability that utilizes server health information and migrates VMs & containers workloads from degraded hosts."	As per RFP
36	87	ANNEXURE-13: FUNCTIONAL AND TECHNICAL SPECIFICATIONS S.No 79	79. The proposed Integration solution must support the following Web Services Security and Profile standards; SOAP, Message Transformation Optimization (MTOM), WSDL, WS-Policy, WS-Security, WS-Security X.509 Token Profile, WS-Trust, WS-Reliable Messaging, SAAJ, SOAP with attachments API for Java, JSR 67.	"Kindly remove this point as its favoring to particular OEM only. These are all the Standards being developed for SOAP and REST are based on web services. These are the application features and nothing to do with Kubernetes or Containers. Should not be included here."	Please refer amended RFP.

37	87	ANNEXURE-13: FUNCTIONAL AND TECHNICAL SPECIFICATIONS S.No 68	68. The proposed container solution should incorporate a comprehensive software- defined storage solution that seamlessly encompasses all (block, file, and object) storage, while enjoying robust enterprise support from the same platform's.	"Kindly remove this point as its favoring to particular OEM only. The proposed container solution should incorporate a comprehensive software-defined storage solution that seamlessly integrates with all (block, file, and object) storage and provide distributed RAID and cache mirroring for intelligent placement of across disks, hosts and server racks for enhanced application availability and also accelerates read/write disk I/O traffic with built-in caching on server-side flash devices to optimally minimize the storage latency. Automated self-rebalancing capabilities to align with defined Storage service levels"	Please refer amended RFP.
38	87	ANNEXURE-13: FUNCTIONAL AND TECHNICAL SPECIFICATIONS S.No 75	75. The proposed container registry should natively run on proposed Container Platform solution & provide automated deployment, updates & life cycle management for it.	"Every solution has different ways of fulfilling the complete solution, request you to remove the container platform for registry restriction to qualify other Gartner's leading OEMs to participate in this tender. Kindly re-write the statement as: 75. The proposed container registry should natively run on proposed Container Platform/ VM solution & provide automated deployment, updates & life cycle management for it."	Please refer amended RFP.
39	85	ANNEXURE-13: FUNCTIONAL AND TECHNICAL SPECIFICATIONS S.No 47	47. The proposed container platform solution should provide secure image signing and verification mechanisms for container images	Kindly remove this point as its favoring to particular OEM only.	As per RFP
40	85	ANNEXURE-13: FUNCTIONAL AND TECHNICAL SPECIFICATIONS S.No 48	48. The proposed container platform solution should allow for the management of secrets and sensitive data in a secure and centralized manner	"Kindly remove this point as its favoring to particular OEM only. Additionally Hashicorp Vault is needed. Hashicorp is now an IBM Company."	Please refer amended RFP.

41	84	ANNEXURE-13: FUNCTIONAL AND TECHNICAL SPECIFICATIONS S.No 24	24. The proposed container platform solution must offer out-of-the-box advanced CI/CD features; such as containerized Jenkins or Cloud Native CI/CD Pipeline solution	"Every solution has different ways of fulfilling the complete network, request you to remove the outbox restriction to qualify other Gartner's leading OEMs to participate in this tender. Kindly re-write the statement as: The proposed container platform solution must offer advanced CI/CD features; such as containerized Jenkins or Cloud Native CI/CD Pipeline solution. The solution should not just restrict with the CI/CD tools being used internally, it should also provide the flexibility to the customer to bring their own tools and integrate with the CI/CD pipeline."	Please refer amended RFP.
42	83	ANNEXURE-13: FUNCTIONAL AND TECHNICAL SPECIFICATIONS S.No 17	17. The suggested container platform should deliver an integrated and enterprise- supported OOB logging stack, with enterprise support from the same OEM that provides the platform.	"Every solution has different ways of fulfilling the complete network, request you to remove the same OEM solution to qualify other Gartner's leading OEMs to participate in this tender. Kindly re-write the statement as: The suggested container solution should deliver an integrated and enterprise-supported OOB logging stack, with enterprise support."	Please refer amended RFP.
43	83	ANNEXURE-13: FUNCTIONAL AND TECHNICAL SPECIFICATIONS S.No 19	19. The proposed container platform solution should have an audit framework at Cluster level to record information about real-world events in a resource-agnostic manner.	"Kindly re-write the statement as: 19. The proposed container platform solution should support an audit framework at Cluster level to record information about real-world events in a resource-agnostic manner."	Please refer amended RFP.
44	12	QUALIFICATION/ ELIGIBILITY CRITERIA - Point No. 2	Financial Turnover from IT/ITes - As per published audited balance sheets, the Average Annual Turnover of the bidder from IT/ ITeS for last Five financial years i.e., 2018-19 to 2022- 23 should be at least Rs. 50 Crores.	"We kindly request you to consider this. As per the Govt. Policy Circular No. 1(2)(1)/2016-MA dated 10.03.2016 issued by GOI and F.20/2/2014-PPD (Pt) dated 20.09.2016, customer relax condition of prior turnover and prior experience criteria with respect to Micro and Small Enterprises and Startups subject to meeting of quality and technical specifications We request you to kindly provide exemption on this term as per above."	As per RFP

45	69	ANNEXURE-6: FINANCIAL BID FORMAT	NA	"We request you to kindly include following line items to the commercial bid 1. Professional Services - Plan, Design, Implementation, for the proposed solution 2. Training Services Cost 3. Any other product / tool / software License proposed by Bidder"	As per RFP
46	15	4.SCOPE OF WORK, DELIVERABLES & TIMELINES	3. The proposed OEM shall be positioned in latest published Gartner Magic quadrant report for Container Management.	With reference to the clause for proposed OEM in the scope of work, Deliverables & timeline, we kindly request you to allow Make in India OEMs and we request to remove this clause of "Gartner Magic quadrant report for Container Management".	As per RFP
47	16	2) Roles and Responsibilities of the successful bidder	12. Bidder must deploy additional technical staff for the project during initial implementation of the platform.	Requested to kindly elaborate the requirement regarding the additional technical staff.	Please refer amended RFP.
48	10	Virtualization & Container	With virtualization, an actual computer (its OS, software, files) becomes a virtual machine that can be ran across different physical servers, and servers can run several virtual machines	Please update who will provide Server and storage for the solution RISL or Bidder.	As per RFP.  RISL will provide storage and servers for the solution implementation.
49	83	Annexure: 13, Sr. No. 10	The proposed container platform solution shall support adding Microsoft Windows nodes for running Windows containers and .NET framework applications. It should also be possible to run .NET Core / .NET v5+ framework application containers with and without Windows nodes. OEM shall provide supported .NET Core and .NET v5+ framework base images as part of the platform	The proposed container platform solution shall support adding Microsoft Windows nodes for running Windows containers and .NET framework applications. It should also be possible to run .NET Core / .NET v5+ framework application containers with and without Windows nodes.	Refer SN. 17
50	89	Annexure: 13, Sr. No. 100	The solution should provide support for Windows Server Failover Cluster (WSFC) technology through a single solution.	The solution should provide support for SAN based disk for cluster support in Windows applications through a single solution.	Refer SN 29
51	86	Annexure 13, Sr. No. 55	The proposed container platform solution should support integration with enterprise single sign-on (SSO) solutions	The proposed container platform solution should support integration with single sign-on (SSO) solutions.	Please refer amended RFP.



52	86	Annexure 13, Sr. No. 51	The proposed container platform solution should support multi-cluster management for efficient administration of multiple clusters	The proposed container platform solution should support multi-cluster management for efficient administration of multiple clusters and also should provide remote console for the cluster form the sme interface.	Please refer amended RFP.
53	85	Annexure 13, Sr. No. 49	The proposed container platform solution should have built-in backup and disaster recovery capabilities for data and applications	The proposed container platform solution should have built-in backup and should support disaster recovery capabilities for data and applications via inbuilt solution or using any enterprise solution.	Refer SR. 23
54	84	Annexure 13, Sr. No. 27	The proposed container platform solution should have been tested against the following architecture: x86_64 s390x	The proposed container platform solution should have been tested against any of the following architecture: x86_64 s390x/ARM ( As s390x is already discontinued)	Refer SR. 21
55	15	Details of work (SoW)	The container management Platform shall be able to run efficiently on the bare metal servers and not be dependent on engineered machine to meet the hardware infrastructure requirements and performance.	The container management platform should be capable of running efficiently on both bare metal servers and the existing virtualization solution, without relying on engineered machines to fulfill hardware infrastructure requirements and performance standards .	Refer SR. 1
56	82	Annexure 13, Sr. No. 6	The suggested solution should be capable of running on bare metal commodity hardware, in order to efficiently utilize the available bare metal resources	The suggested solution should be capable of running on bare metal commodity hardware & existing virtualization solution, in order to efficiently utilize the available bare metal & existing virtualization solution resources.	Refer SN. 16
57		Additional Point	Additional point under Detail Under Annexure 13	This is the indicative technical specification however the bidder may proposed integrated container management platform solution meet all the functionality as mentioned Annexure 13 and the SLA.	As per RFP
58	82 to 91	Annexure 13 Sr. No. 1 to 131	Functional and Technical Specification	This is specific to one OEM we request you to make it more generic so that more competitor come for bidding and RISL will get competitive pricing	As per RFP

59	12	4. Technical Capability	<p>(1) The bidder must have successfully supplied and executed one similar project of Kubernetes based platform for Government/PSU/ Bank of value not less than of Rs. 10 Crores in India from 01/04/2019 to the last date of bid submission.</p> <p>OR</p> <p>(2) The bidder must have successfully supplied and executed two similar projects of Kubernetes based platform for Government/PSU/ Bank of value not less than of Rs. 7 Crores per project in India from 01/04/2019 to the last date of bid submission.</p>	<p>Please change clause as</p> <p>(1) The bidder must have successfully supplied and executed one similar project of Kubernetes based platform / Virtualization/Private Cloud for Government/PSU/ Bank of value not less than of Rs. 10 Crores in India from 01/04/2019 to the last date of bid submission.</p> <p>OR</p> <p>(2) The bidder must have successfully supplied and executed two similar projects of Kubernetes based platform / Virtualization/Private cloud for Government/PSU/ Bank of value not less than of Rs. 7 Crores per project in India from 01/04/2019 to the last date of bid submission.</p>	As per RFP.
60	12	<b>3 Eligibility Criteria</b>  3.2 Financial	As per published audited balance sheets, the Average Annual Turnover of the bidder from IT/ ITeS for last Five financial years i.e., 2018-19 to 2022-23 should be at least Rs. 50 Crores.	Estimate project value is 25 crores, so bidder should have turnover of minimum 5-6 times of project value so that he can commercially capable of executing project on timely basis. Same has been followed in other RFP as well, so we Request Please amend the clause as the Average Annual Turnover of the bidder from IT/ ITeS for last Five financial years i.e., 2018-19 to 2022-23 should be at least Rs. 150 Crores.	As per RFP
61	Additional	Additional	ISO Certification	<p>Kindly add this point in the eligibility criteria</p> <p>Bidder should be having minimum accreditations of ISO 9001:2015, ISO 20001:2018 and ISO 27001:2022</p>	As per RFP.

62	Additional	Additional	CMMI	<p>Kindly add this point in the eligibility criteria This is turnkey project for DOITC/RISL, where all Govt of Rajasthan application will be host so bidder should have technical competence to run such project, therefore we request you to please add "Bidder should have CMMI certificate at level of 5"</p> <p>RISL has asked CMMI level 5 in all similar kind of projects so request you to please add same in this RFP</p>	As per RFP.
63	59	Payment Terms	<p>100% of the cost of Container Management Platform licenses with 3 years of support (Sr.No. 1 of the financial bid) to be paid in 12 equal quarterly instalments at the end of the quarter.</p>	<p>Request you to kindly amend the clause as: This is capex project for Bidder where we will have to pay to OEM in advance for 3 years warranty so we request you to please amend this clause as:</p> <p>90% of the payment at the time of installation.</p> <p>10% of the payment against additional 10% bank guarantee (In addition to performance bank guarantee)</p>	As per RFP.
64	12	3. QUALIFICATION/ ELIGIBILITY CRITERIA	<p>(1) The bidder must have successfully supplied and executed one similar project of Kubernetes based platform for Government/PSU/ Bank of value not less than of Rs. 10 Crores in India from 01/04/2019 to the last date of bid submission.</p> <p>OR</p> <p>(2) The bidder must have successfully supplied and executed two similar projects of Kubernetes based platform for Government/PSU/ Bank of value not less than of Rs. 7 Crores per project in India from 01/04/2019 to the last date of bid submission.</p>	<p>Please amend the clause as under:</p> <p>(1) The bidder/OEM must have successfully supplied and executed one similar project of Kubernetes based platform for Government/PSU/ Bank of value not less than of Rs. 10 Crores in India from 01/04/2019 to the last date of bid submission.</p> <p>OR</p> <p>(2) The bidder/OEM must have successfully supplied and executed two similar projects of Kubernetes based platform for Government/PSU/ Bank of value not less than of Rs. 7 Crores per project in India from 01/04/2019 to the last date of bid submission.</p>	As per RFP

65	59	7. SPECIAL TERMS AND CONDITIONS OF TENDER & CONTRACT	100% of the cost of Container Management Platform licenses with 3 years of support (Sr.No. 1 of the financial bid) to be paid in 12 equal quarterly instalments at the end of the quarter.	<p>The payment terms are very stringent; hence we request you to amend the clause as follows:</p> <p>85% of the cost of Container Management Platform licenses with 3 years of support (Sr.No. 1 of the financial bid) to be paid upon supply of licenses.</p> <p>15% of the cost of Container Management Platform licenses with 3 years of support (Sr.No. 1 of the financial bid) to be paid upon submission of a BG of equivalent amount after supply of licenses.</p>	Refer SR.63
66	5	1. INVITATION FOR BID (IFB)& NOTICE INVITING BID (NIB)	Estimated Procurement Cost - Rs. 25 crores (Rupees Twenty Five Crores only) (Incl. all taxes and levies)	The estimated budget is low compared to the scope requirements. Kindly review the budget.	As per RFP
67	50	29) Extention in Delivery period Liquidated Damages (LD)	If tendering authority is in need of the good and/or service rendered after expiry of the stipulated delivery period, it may accept the services and issue a letter of extension in delivery period with usual liquidated damages and denial clauses to regularize the transaction.	We understand that if the department requires any support after the expiry of the support contract, the support will be provided only if the required extension of the support contract has been granted.	As per RFP
68		General	CMMI Level 5 and Other ISO Certifications	As the scope of the RFP seems to be for a turnkey project, we request that CMMI Level 5 Certification be added to the pre-qualification criteria to ensure better quality bidders. Additionally, we noticed that no ISO certifications like ISO 9001, ISO 14001, ISO 27001 & ISO 20000-1 have been requested. We kindly ask that these also be included in the pre-qualification criteria.	As per RFP

69	82	ANNEXURE-13: FUNCTIONAL AND TECHNICAL SPECIFICATIONS	The proposed container platform solution should be 100% Certified by the CNCF(Cloud Native Computing Foundation) and should be deployable on Physical servers, Virtual, public/private cloud infrastructure	<p>Certified by the Cloud Native Computing Foundation (CNCf) for container orchestration: This ensures the platform adheres to industry standards and fosters portability across different tools and environments.</p> <p>Deployable across various infrastructure options: The platform should be flexible to accommodate your needs, whether on:</p> <ul style="list-style-type: none"> <li>Physical servers</li> <li>Virtual machines</li> <li>Public cloud environments</li> <li>Private cloud infrastructure</li> </ul>	Refer SN. 12
70	82	ANNEXURE-13: FUNCTIONAL AND TECHNICAL SPECIFICATIONS	The comprehensive solution, along with all its relevant technology modules and software, must be delivered as containers and should consist of Enterprise Open Source Software.	The entire solution, including all its functionalities and supporting software, should be delivered as containerized microservices. These microservices should leverage established Enterprise Open Source Software (EOSS) components whenever possible.	Refer SN. 13
71	82	ANNEXURE-13: FUNCTIONAL AND TECHNICAL SPECIFICATIONS	The proposed container platform Platform should provide a base operating system image with software collections to build custom containers and should provide updates on base image for software collection updates and vulnerabilities	Specific vendor provides Universal Base Images (UBIs). UBIs are certified, AKS does not support the base OS. Requesting department to kindly alter this.	Refer S.N. 14
72	82	ANNEXURE-13: FUNCTIONAL AND TECHNICAL SPECIFICATIONS	The proposed container platform Platform should support Service Mesh for microservices visibility, traffic control, security etc	Requesting department to kindly alter to The container orchestration platform should enable the integration of a Service Mesh solution for enhanced visibility, traffic management, and security of microservices.	Please refer amended RFP.
73	82	ANNEXURE-13: FUNCTIONAL AND TECHNICAL SPECIFICATIONS	The proposed container platform Platform should have automated application build capability – from source code to a runnable container image	The specs are aligned to specific vendor. AKS rely on another service CI/CD. Requesting department to kindly alter this	Refer SN. 15
74	82	ANNEXURE-13: FUNCTIONAL AND TECHNICAL SPECIFICATIONS	The suggested solution should be capable of running on bare metal commodity hardware, in order to efficiently utilize the available bare metal resources.	Requesting department to kindly alter to "The container platform solution should offer deployment flexibility, including the ability to run on bare-metal server infrastructure for efficient resource utilization."	Refer SN. 16

75	82	ANNEXURE-13: FUNCTIONAL AND TECHNICAL SPECIFICATIONS	The proposed container platform Platform shall provide auto pod scaling capabilities basis on real-time compute utilization reported by pre-integrated out of the box fully (OEM) supported monitoring solution without any dependency on external components	<p>The current statement leans slightly towards OpenShift due to the mention of a "pre-integrated out of the box fully (OEM) supported monitoring solution." While AKS offers auto-pod scaling with integration options for various monitoring tools, it doesn't come with a single pre-integrated solution.</p> <p>Here's a vendor-neutral rewording:</p> <p>The container platform should offer automated pod scaling functionality based on real-time resource utilization metrics collected by a fully supported monitoring solution. This monitoring solution should integrate seamlessly with the platform for efficient resource management, and ideally not require additional external components for basic functionality.</p>	Please refer amended RFP.
76	82	ANNEXURE-13: FUNCTIONAL AND TECHNICAL SPECIFICATIONS	The proposed container platform Platform shall include OEM tested and supported container base images for application instance deployments. There shall be no license restriction on porting and running these application images on any other container platform without any prior notifications to OEM	<p>This statement leans slightly towards OpenShift due to the mention of "OEM tested and supported container base images." While both AKS and OpenShift offer container image repositories, the focus on OEM specifically aligns more with OpenShift's strategy of offering pre-configured and supported solutions.</p> <p>Here's a vendor-neutral rewording:</p> <p>The container platform should support the deployment of applications using container images. These images should be built upon a well-established and widely adopted container base image registry, ensuring portability and flexibility. Ideally, there should be no licensing restrictions on using these application images on other container platforms, fostering vendor independence.</p>	Please refer amended RFP.
77	83	ANNEXURE-13: FUNCTIONAL AND TECHNICAL SPECIFICATIONS	The proposed solution should possess the ability to offer both a cluster-specific private image registry and a shared private image registry.	The specs are alligned to specific vendor. Requesting department to kindly alter to	Please refer amended RFP.

78	83	ANNEXURE-13: FUNCTIONAL AND TECHNICAL SPECIFICATIONS	<p>The proposed container platform solution cluster upgrade should ensure the workload high availability during the Day2 upgrade with availability of the Kubernetes API, the etcd database, and cluster ingress and routing during the master node upgrade. Worker nodes should be upgradable in a rolling upgrade fashion, keeping the entire workload available during the updates / upgrades of the Container platform version</p>	<p>there's a minor bias towards OpenShift with the mention of "etcd database." While etcd is a common backend storage used by Kubernetes (and thus potentially used by both AKS and OpenShift), some AKS deployments might utilize a different storage solution.</p> <p>Requesting department to kindly alter to:</p> <p>The container platform solution should prioritize high availability of workloads during cluster upgrades (Day 2 operations). This includes maintaining access to the Kubernetes API, the distributed key-value store (like etcd), and the cluster ingress and routing functionality throughout the master node upgrade process. Additionally, worker node upgrades should be performed in a rolling fashion to ensure continuous availability of applications during the container platform version updates.</p>	Please refer amended RFP.
79	83	ANNEXURE-13: FUNCTIONAL AND TECHNICAL SPECIFICATIONS	The proposed container platform solution should have Helm chart etc. support for dependency management and container package installation	The specs are alligned to specific vendor. Requesting to kindly make it neutral	As per RFP
80	83	ANNEXURE-13: FUNCTIONAL AND TECHNICAL SPECIFICATIONS	The suggested container platform should deliver an integrated and enterprise-supported OOB logging stack, with enterprise support from the same OEM that provides the platform.	Specific vendor provides an integrated logging stack out of the box (OOB) through the Logging component. AKS leverages other services to achieve this.	Refer S.N. 42

81	84	ANNEXURE-13: FUNCTIONAL AND TECHNICAL SPECIFICATIONS	<p>The proposed container platform solution should support the following Container Network Interface (CNI) Plugins for cluster networking:</p> <p>Multus Kuryr SR-IOV Host Device Bridge IP Vlan Static DHCP macvlan route-override whereabouts etc.</p>	<p>there's a slight bias towards OpenShift due to the inclusion of "Multus" and "Kuryr." While these plugins can be used with AKS in some configurations, they are more commonly associated with OpenShift due to their deeper integration with the platform's networking model.</p> <p>Here's a vendor-neutral rephrased version:</p> <p>The container platform solution should offer support for a wide range of Container Network Interface (CNI) plugins to provide flexibility in cluster networking configurations. This should include commonly used plugins for functionalities such as network policy enforcement, SR-IOV network attachment, VLAN creation, static IP assignment, MACVLAN networking, and route manipulation.</p>	Refer S.N. 20
82	84	ANNEXURE-13: FUNCTIONAL AND TECHNICAL SPECIFICATIONS	<p>The proposed container platform solution should have been tested against the following architecture: x86_64 s390x</p>	<p>it can be improved for neutrality. Here's why:</p> <p>Functionality: While AKS and OpenShift primarily target x86_64 architectures, they might offer limited support for other architectures through specific configurations or partner solutions.</p> <p>Here's a vendor-neutral rephrase:</p> <p>The container platform solution should be demonstrably compatible with a range of supported processor architectures, including, but not limited to, x86_64.</p> <p>This revision achieves neutrality by:</p> <p>Replacing "s390x" with "a range of supported processor architectures" to acknowledge potential limitations or alternative supported architectures.</p> <p>Using "including, but not limited to, x86_64" to clarify x86_64 as the primary focus while acknowledging potential broader compatibility.</p>	Refer SR.21



83	87	ANNEXURE-13: FUNCTIONAL AND TECHNICAL SPECIFICATIONS	The proposed container platform solution must include an integrated virtualization solution based on Kubevirt which provides VM to be running alongside containers & and this functionality should be delivered through the same container platform offered by the OEM, complete with an Enterprise support. The VM & Container lifecycle management must be done from the same management console of offered solution	Requesting department to kindly alter to "The solution should offer integrated virtual machine capabilities alongside container management."	Refer SN 27
84	87	ANNEXURE-13: FUNCTIONAL AND TECHNICAL SPECIFICATIONS	The proposed Integration solution must support the following Web Services Security and Profile standards; SOAP, Message Transformation Optimization (MTOM), WSDL, WS-Policy, WS-Security, WS-Security X.509 Token Profile, WS-Trust, WS-Reliable Messaging, SAAJ, SOAP with attachments API for Java, JSR 67.	Web Services Security standards: Listing specific standards like WS-Security X.509 Token Profile might favor certain integration solutions. Kindly Consider:  "The solution should support industry-standard web service security protocols."	Refer SN 36
85	89	ANNEXURE-13: FUNCTIONAL AND TECHNICAL SPECIFICATIONS	The solution should include out-of-the-box monitoring and troubleshooting for Packaged applications with options such as Open Telemetry etc. and application performance management tool OOB integrated with solutions such as AppDynamics, Datadog, Dynatrace, New Relic etc.	Requesting department to kindly alter to:  "The solution should integrate with out-of-the-box monitoring tools and offer options for vendor-agnostic monitoring solutions."	Please refer amended RFP.

86	3	12	3.2	<p>As per published audited balance sheets, the Average Annual Turnover of the bidder from IT/ ITeS for last Five financial years i.e., 2018-19 to 2022- 23 should be at least Rs. 50 Crores.</p> <p>Sir As in RFP it is asked for AAT of last five financial years of Value 50 Cr, We request you to kindly reduce this to 30 Cr. As two financial years were badly impacted by Covid. This will also give opportunity to maximum SI to participate and Deptt will get a better chance of getting most reasonable prices.</p>	As per RFP
87	4	12& 13	3.4	<p>(1) The bidder must have successfully supplied and executed one similar project of Kubernetes based platform for Government/PSU/ Bank of value not less than of Rs. 10 Crores in India from 01/04/2019 to the last date of bid submission.</p> <p>OR</p> <p>(2) The bidder must have successfully supplied and executed two similar projects of Kubernetes based platform for Government/PSU/ Bank of value not less than of Rs. 7 Crores per project in India from 01/04/2019 to the last date of bid submission.</p> <p>Sir You Have demanded AAT from 2018-19 to 2022-23 hence we request you to consider work orders from 2018-19 instead of 2019-20.</p> <p>Request you to kindly ask for a single PO of Rs4 Cr for Software Product or server License insted of Product Specific PO. You have demanded here Single PO of 10Cr for Kubernetes based platform, Insted of this request you to ask for single PO of 4 Cr for any software/Server OS or data Base or database services.</p> <p>Also request you to kindly ask for combination of 3 PO or RC Po for total value of 7 Cr for softwares from 2018-19 to 2022-23. These Options will allow maximum SI to participate in the bid.</p>	As per RFP

88	5	59	7.1	<p><input type="checkbox"/> Delivery of Container Management Platform licenses with 3 Years of support</p> <p><input type="checkbox"/> Installation and Configuration of the Container Management Platform licenses</p> <p>It is Mentioned as: 100% of the cost of Container Management Platform licenses with 3 years of support (Sr.No. 1 of the financial bid) to be paid in 12 equal quarterly instalments at the end of the quarter.</p> <p>Change Request: Request you to kindly change this to 85 % of Payment at the time of supply and remaining 5% at the end of the completion every year. As this needs to be buy from OEM in single time and complete 100% payment needs to be submit at that time. 12 Instalments will increase the financial cost of bidding and hence same will be a high cost for department as well.</p>	Refer SR.63
89	6	NA	NA	<p>Suggestion</p> <p>We also suggest that Department ask at least 5 Projects done by OEM in similar nature as its a very crucial platform for state government</p>	As per RFP
90	Page 15	Section 4	The proposed OEM shall be positioned in latest published Gartner Magic quadrant report for Container Management.	<p>The proposed OEM shall be positioned as leader in latest published Gartner Magic quadrant report for Container Management. In most of the tenders the customers ask for OEM/products which appear in the "Leader Quadrant" in Gartner Magic Quadrant . In this tender the OEM/Product quoted by the bidder should be in the Leader's Qudarant of the Gartner Magic Quadrant for Container management platform.</p> <p>This will ensure that technically the state of art products are proposed by bidders ensuring Premium quality Products .We therefore request this suggestion to be considered because mission critical applications of the State will be deployed on this platform.</p>	As per RFP

91	Page 12/13	Section 3,	OEM Qualification Criteria, Technical Capabilty- Exisiting RFP has only Bidder Criteria mentioned & not the Product (OEM) Criteria	<p>The Product (Container Management Platform) should have been deployed for Minimum 3/4 Customers in Indian Government/PSU of Value not less than INR 10 cr each.</p> <p>Since the state will be running mission critical workloads on the Container management platform hence it is recommneded to Add a criteria for the OEM qualification. This will ensure Enterprise Grade Product &amp; experienced Delivery</p>	As per RFP
92	Page 12/13	Section 3	Qualification/Eligibility Criteria - Add India References	<p>(1) The bidder must have successfully supplied and executed one similiar project of the proposed container management platform for Indian Government/PSU/ Bank of value not less than of Rs. 10 Crores in India from 01/04/2019 to the last date of bid submission.</p> <p>OR</p> <p>(2) The bidder must have successfully supplied and executed two similiar projects of the proposed container management platform for Indian Government/PSU/ Bank of value not less than of Rs. 7 Crores per project in India from 01/04/2019 to the last date of bid submission.</p> <p>Having an Indian government reference establishes credibility, demonstrates respect for intellectual property, and encourages transparency in information dissemination. Additionally, it helps build trust and ensures fairness in service delivery, especially considering the diverse and large-scale nature of government interactions.</p>	As per RFP

93	New Addition	NA	Technical Evaluation, Proof of Concept	<p>It is recommended that a Proof of concept is demonstrated in accordance with the Annexure 13 &amp; functionalities mentioned should be showcased by Bidders/OEM before Placement of the Work Order</p> <p>The customer can assess the bidder's technical capabilities and adherence to specifications through a Proof of Concept (PoC) before placing the work order, reducing project risks and ensuring quality.</p>	As per RFP
94	Page 82	Annexure 13	Functional & Technical Specifications	<p>The proposed container platform should be 100% Certified by the CNCF and truly based on open source and open standards which spurs innovation without any complex proprietary layers and should be deployable on x86 Physical/bare metal servers and Virtual and public/private cloud infrastructure.</p> <p>RISL should have a choice &amp; flexibility of deploying container management platform either on x86 bare metal servers or virtual infrastructure as different OICs/project can demand the choice of underlying infrastructure. Having a capability of deploying container management platform directly on x86 bare metal servers will help in optimum utilization of the compute resources of the servers as no compute resources would be consumed by the hypervisor/virtualization layer</p>	Refer SN. 12
95	New Addition	Annexure 13	Functional & Technical Specifications	<p>The proposed solution should be a complete integrated cloud native application platform and not just the Kubernetes management platform with requirements of manual services integration.</p> <p>An integrated cloud-native platform enhances efficiency by reducing manual integration and ensures scalability, adapting to the customer's needs.</p>	As per RFP

96	New Addition	Annexure 13	Functional & Technical Specifications	<p>The proposed container platform should comply to CIS benchmark</p> <p>Compliance with the CIS benchmark ensures the customer's container platform is secure and adheres to industry best practices, reducing potential vulnerabilities.</p>	As per RFP
97	New Addition	Annexure 13	Functional & Technical Specifications	<p>The container platform should be compatible and certified across MEITY empanelled cloud platforms. It must also provide a single vendor cloud native platform support if and when need be.</p> <p>Compatibility across MEITY empanelled cloud platforms ensures seamless operations, while single vendor support provides the customer with reliable assistance when needed.</p>	As per RFP
98	New Addition	Annexure 13	Functional & Technical Specifications	<p>The container platform should be one that provides a developer portal, plugins, supports running middleware and has an inbuilt enterprise supported integrated IDE for developers to easily work on the same container platform to bring consistency and faster application lifecycle.</p> <p>A container platform with these features streamlines development, promotes consistency, and accelerates the application lifecycle, enhancing productivity and efficiency for the customer.</p>	As per RFP
99	New Addition	Annexure 13	Functional & Technical Specifications	<p>The platform shall provide out of the box pre-integrated cloud-native development capabilities using a multi tenant hosted integrated development environment (IDE) tool. This shall enable developers to develop (write code), test and deploy application code using just a secure browser with zero dependencies on local machines.</p> <p>A platform with pre-integrated cloud-native development capabilities and a multi-tenant hosted IDE allows developers to code, test, and deploy applications efficiently and securely, eliminating local machine dependencies.</p>	As per RFP

100	New Addition	Annexure 13	Functional & Technical Specifications	<p>Container platform should provide a fully containerized web-IDE to provide IDE-as-a-service</p> <p>A containerized web-IDE provides IDE-as-a-service, enabling seamless, platform-independent development environments that enhance productivity and collaboration for the customer.</p>	As per RFP
101	New Addition	Annexure 13	Functional & Technical Specifications	<p>The proposed solution should have enterprise supported browser-based development environment along with enterprise supported workspaces defined as code running inside container platform.</p> <p>An enterprise-supported browser-based development environment with workspaces defined as code enhances development efficiency and ensures consistent, reliable performance in the container platform.</p>	As per RFP
102	New Addition	Annexure 13	Functional & Technical Specifications	<p>The solution should provide insights for managing container platform. It should identify potential problems and provide directions on how to resolve them.</p> <p>The solution enhances operational efficiency by providing valuable insights for container platform management, and its proactive problem identification and resolution guidance ensures uninterrupted service.</p>	As per RFP
103	New Addition	Annexure 13	Functional & Technical Specifications	<p>The solution should include a feature that collects anonymized aggregated information about the health, usage, and size of clusters. It should analyze the cluster for potential issues and offer specific remediation steps.</p> <p>The solution's feature of collecting and analyzing anonymized cluster data ensures optimal health and usage, while its proactive issue detection and remediation steps enhance system reliability and performance.</p>	As per RFP

104	New Addition	Annexure 13	Functional & Technical Specifications	<p>The proposed container platform must provide default network traffic flow monitoring dashboards showcasing network communication flow &amp; amount of traffic filtered at multiple resources in the cluster. These dashboards must be natively integrated with the GUI of the container platform solution</p> <p>The platform's integrated dashboards for monitoring network traffic flow provide customers with real-time visibility into their cluster's communication and resource usage, enhancing their ability to manage network performance effectively.</p>	As per RFP
105	New Addition	Annexure 13	Functional & Technical Specifications	<p>The suggested container platform should come equipped with a comprehensive observability stack. This includes monitoring for both platform infrastructure and network, application monitoring, a logging stack, distributed tracing, and tracking of energy consumption for workloads deployed on the platform. Importantly, this entire observability suite should be backed by enterprise-level support and seamlessly integrated into the container management platform.</p> <p>The comprehensive observability stack in the proposed container platform provides customers with a holistic view of their system's performance, enabling efficient troubleshooting and optimization. The enterprise-level support ensures reliable operations, enhancing the overall user experience.</p>	As per RFP
106	New Addition	Annexure 13	Functional & Technical Specifications	<p>The components of the suggested solution should have valid certifications for the proposed OEM container management platform, and these certifications should be publicly accessible on the OEM's website.</p> <p>Having certified components for the proposed OEM container management platform ensures reliability and compatibility, while their listing on the OEM's website provides transparency and easy verification for customers.</p>	As per RFP



107	New Addition	Annexure 13	Functional & Technical Specifications	<p>In the event where it's not possible to update or upgrade the container management platform, the application workloads deployed on the proposed platform should continue to operate as usual with the unsupported platform solution.</p> <p>Ensuring that application workloads continue to operate as usual, even when updates or upgrades to the container management platform are not possible or the subscription expires, provides customers with uninterrupted service and operational continuity.</p>	As per RFP
108	New Addition	Annexure 13	Functional & Technical Specifications	<p>The proposed container platform should also provide SSO product providing single sign on services for authentication requirements of RISL</p> <p>Implementing Single Sign-On (SSO) in a container platform offers improved user experience by streamlining login processes and increased security through centralized authentication. It simplifies user management and enhances compliance while ensuring a seamless experience for end users. An off-the-shelf SSO product offers faster implementation, broader compatibility, and ongoing support.</p>	As per RFP

Signature valid

Digitally signed by DEVENDRA SHARMA  
Date: 2024.09.12 18:23:14 IST  
Location: Rajasthan-RJ

