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- BID DETAILS
- TECHNICAL EVALUATION
- FINANCIAL EVALUATION
- EVALUATION
- BID AWARDED

1. Bid Details

Bid Number: **GEM/2025/B/6044537** (</showbidDocument/7630585>)

Bid Status: Active	Bid Start Date / Time: 11-03-2025 18:10:10	Consignees / Reporting Officer / Delivery Location(S)
Quantity: 1	Bid End Date / Time: 25-04-2025 19:00:00	EMD: Required Track EMD (https://bidplus.gem.gov.in/Bidding/Track/Trackepbg/7)
Bid Validity (From End Date): 180 (Days)	Bid Opening Date / Time: 25-04-2025 19:30:00	Average Turn Over of Last 3 Years: 700 Lakh (s)
Competent Authority Document: View		Experience with Gov. Required: Year (s)

Buyer Details

Name: Rohitash Verma	Ministry: Ministry Of Earth Sciences	Organisation: Metnet : An E-Governance Intra-Imd Portal New Delhi
Address: Rohitash Verma,Rohitash.Verma@Imd.Gov.In,India Meteorological Department, Mausam Bhawan, Lodhi Road,SOUTH DELHI,DELHI,110003,India	Department: India Meteorological Department (Imd)	Office: Mausam Bhawan New Delhi

Corrigendum Details

Modified On: 2025-04-17 16:55:23

Bid extended to **2025-04-25 19:00:00**

Bid Opening Date : **2025-04-25 19:30:00**

Modified On: 2025-04-11 20:37:20

[Download \(/bidding/buyer/showcorrigendumpdf/3335771/7630585\)](/bidding/buyer/showcorrigendumpdf/3335771/7630585)

Hash Value (Algorithm - SHA256):
015d6a0cc26c99f5e20072d1a35403ebe0aba3c7e748cc80524802eb1533a127

Modified On: 2025-04-11 19:45:00

[Download \(/bidding/buyer/showcorrigendumpdf/3335732/7630585\)](/bidding/buyer/showcorrigendumpdf/3335732/7630585)

Hash Value (Algorithm - SHA256):
e52b2f8149a36764c6f17f79e3db4a7d03c1176541bcbc4dbe08126a7c692dee

Modified On: 2025-04-11 17:00:09 Bid extended to 2025-04-18 19:00:00

Bid Opening Date : 2025-04-18 19:30:00

Modified On: 2025-03-27 15:45:36 Bid extended to 2025-04-11 19:00:00

Bid Opening Date : 2025-04-11 19:30:00

Cancel Bid

Extend Bid

Edit Terms

Edit Pre Bid

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- Right to Information (<https://gem.gov.in/RTI>)
- Analytics (<https://sso.gem.gov.in/ARXSSO/oauth/login>)
- New on GeM (<https://gem.gov.in/new-categories>)

BRAND GeM (<https://gem.gov.in/brand-gem>)

RESOURCES

- GeM Handbook (https://assets-bg.gem.gov.in/resources/pdf/GeM_handbook.pdf)
- OM's/Circulars (https://gem.gov.in/support/government_oms_circulars)
- Terms and Conditions (https://gem.gov.in/support/terms_conditions)
- Policies/Manuals (<https://gem.gov.in/support/buyers>)
- Miscellaneous (<https://gem.gov.in/support/miscellaneous>)

MoUs (<https://gem.gov.in/mou>)

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- Video Guides (<https://gem.gov.in/training/videos/buyers>)
- Raise-a Ticket (<https://gem.gov.in/gemtickets/create>)
- Contact Us (<https://gem.gov.in/contactUs>)
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1. Bid Details

Bid Number: **GEM/2025/B/6044537** (</showbidDocument/7630585>)

Bid Status: Active	Bid Start Date / Time: 11-03-2025 18:10:10	Consignees / Reporting Officer / Delivery Location(S)
Quantity: 1	Bid End Date / Time: 18-04-2025 19:00:00	EMD: Required Track EMD (https://bidplus.gem.gov.in/bidding/Track/Trackepbg/7)
Bid Validity (From End Date): 180 (Days)	Bid Opening Date / Time: 18-04-2025 19:30:00	Average Turn Over of Last 3 Years: 700 Lakh (s)
Competent Authority Document: View		Experience with Gov. Required: Year (s)

Buyer Details

Name: Rohitash Verma	Ministry: Ministry Of Earth Sciences	Organisation: Metnet : An E-Governance Intra-Imd Portal New Delhi
Address: Rohitash Verma,Rohitash.Verma@Imd.Gov.In,India Meteorological Department, Mausam Bhawan, Lodhi Road,SOUTH DELHI,DELHI,110003,India	Department: India Meteorological Department (Imd)	Office: Mausam Bhawan New Delhi

Corrigendum Details

Modified On: 2025-04-11 17:00:09	Bid extended to 2025-04-18 19:00:00
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[marketplace-gem-?trk=biz-companies-cym](https://www.linkedin.com/company/government-e-marketplace-gem-?trk=biz-companies-cym))



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The India Meteorological Department (IMD) has invited bids vide Bid GEM/2025/B/6044537 dated 17.03.2025 for a turnkey solution of hardware infrastructure for IMD under Mission Mausam through GeM and the IMD website. Various queries related to the tender were received through GeM and email from CPU to the committee. The RFP committee has reviewed all the received representations and prepared responses to the queries. Below are the committee's responses.

REPRESENTATION THROUGH GEM

Bid Number: GEM/2025/B/6044537

GeM Query SNO	Bid/RA Section	Seller Query/Representation	Committee Response
1	Product/Service specification	As per page no : 171, clause no: 16 Please allow agnostic OS platform for Archive Manager and allow Archive Management Software system should be Linux/ Windows based operating system.	As per RFP only The Archive Management Software system should be Linux based operating system.
2		As per page no : 171, clause no: 17 Please allow CLI/ GUI user interface for Search, Archive Delete and Retrieval and allow all basic operations such as Search, Archive, delete and retrieve operations should be supported on the CLI / GUI interface.	Page No 171 clause no 17 will be read as "All basic operations such as Search, Archive, delete and retrieve operations should be supported on the GUI/CLI interface".

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3		As per page no: 171, clause no: 19 Request you to remove the clause, as this feature only applicable where Archive Manage or MAM is Handling Broadcast Video Formats. Its non-relevant to Binary Data Archiving and allows the Solution should have the option to create Custom Metadata considering the Archive Binary Files. Which should help users to search and download the relevant archive file for reuse.	The given representation is wrt to clause 18 at page no 171 and the same has been removed.
4		As per page no: 171, clause no: 20 Please allow CLI/ GUI user interface for Search, Archive Delete and Retrieval and allow Users should be able to define their custom search filters using AND / OR operations between multiple search criteria. The search criteria must support both embedded C custom metadata fields to search in CLI/GUI mode.	Page No 171 Clause No 20 will be read as " Users should be able to define their custom search filters using AND / OR operations between multiple search criteria. The search criteria must support both embedded and custom metadata fields to search on GUI/CLI mode."
5	Bid Eligibility Criteria	As per page no: 200 and point no : 2 kindly allow ≥ 10 and < 30 : 05 marks, ≥ 30 and < 50 : 08 marks.	As per RFP only
6	Product/Service specification	As per page no : 171, clause no: 16 Please allow agnostic OS platform for Archive Manager Request for change. Archive Management Software system should be Linux/ Windows based operating system	Refer to GeM Query SNO. 1

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7		As per page no : 171, clause no: 17 Please allow CLI/ GUI user interface for Search, Archive Delete and Retrieval. Request for change: All basic operations such as Search, Archive, delete and retrieve operations should be supported on the CLI / GUI interface.	Refer to GeM Query SNO.2
8		As per page no: 171, clause no: 19 Request you to remove the clause, as this feature only applicable where Archive Manage or MAM is Handling Broadcast Video Formats. Its non-relevant to Binary Data Archiving. Request for change: The Solution should have option to create Customer Metadata considering the Archive Binary Files. Which should help user to search and download the relevant archive file for reuse.	Refer to GeM Query SNO.3
9		As per page no: 171, clause no: 20 Please allow CLI/ GUI user interface for Search, Archive Delete and Retrieval. Request for change: Users should be able to define their custom search filters using AND / OR operations between multiple search criteria. The search criteria must support both embedded & custom metadata fields to search on CLI/GUI mode.	Refer to GeM Query SNO.4
10	Product/Service specification	As per page no. 171, clause no. 16 Please allow agnostic OS platform for Archive Manager Request for change. The archive Software system should be a Linux/Windows-based operating system.	Refer to GeM Query SNO.1

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11		As per page no. 171, clause no. 17 Please allow CLI/GUI user interface for Search, Archive Delete and Retrieval. Request for change: All basic operations, such as Search, Archive, delete and retrieve operations, should be supported on the CLI / GUI interface.	Refer to GeM Query SNO.2
12		As per page no. 171, clause no. 19 Request you to remove the clause, as this feature is only applicable where Archive Manage or MAM is Handling Broadcast Video Formats. Its non-relevant to Binary Data Archiving. Request for change: The Solution should have option to create Customer Metadata considering the Archive Binary Files. Which should help user to search and download the relevant archive file for reuse.	Refer to GeM Query SNO.3
13		As per page no: 171, clause no: 20 Please allow CLI/ GUI user interface for Search, Archive Delete and Retrieval. Request for change: Users should be able to define their custom search filters using AND / OR operations between multiple search criteria. The search criteria must support both embedded & custom metadata fields to search on CLI/GUI mode.	Refer to GeM Query SNO 4
14		As per page no. 200 and point no. 1 Criteria: Bidder should have experience in successfully supplying, installing, and commissioning of similar hardware work in PSU/government organizations, Pvt. organizations/ Pvt Ltd/ or ltd. in the last 5 years in India/Globally. Please include Bidder/OEM	As per RFP only

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15		As per page no: 200 and point no: 2 kindly allow ≥ 10 and < 15 : 05 marks, ≥ 20 and < 30 : 08 marks.	As per RFP only
16		As per page no: 200 and point no: 3 Kindly relax with Level 3+ marks, amend the clause as : ISO 27001 : 5 Marks, Level 3: 10 Marks	As per RFP only
17		As per page no: 201 and point no: 7 kindly allow the average annual financial turnover of 'The bidder' during the last three years, ending on '31st March, 2024, should be at least Rupees Five crore (Rs. 05 Crore) per annum	As per RFP only
18	Product/Service specification	Please refer to Item 1.4 Archive System 2000TB Redundant RAW Capacity with Data Management System (Quantity -1) at Page No. 181 at point No. 16, The Archive Management Software system should be Linux based operating system. It is requested to allow agnostic OS platform for Archive Manager and change this point as The Archive Management Software system should be Linux/ Windows based operating system.	Archive Management Software system should be Linux (As per RFP only)
19		at page No. 181 point No, 17 Clause Statement: All basic operations such as Search, Archive, delete and retrieve operations should be supported on the CLI interface. Remark - Please allow CLI/ GUI user interface for Search, Archive Delete and Retrieval Request to change : All basic operations such as Search, Archive, delete and retrieve operations should be supported on the CLI / GUI interface.	Refer to GeM Query SNO.2

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20		At page No. 182, point no. 20 Clause Statement: Users should be able to define their custom search filters using AND / OR operations between multiple search criteria. The search criteria must support both embedded & custom metadata fields to search on CLI mode. Remark - Please allow CLI/ GUI user interface for Search, Archive Delete and Retrieval Change request : Users should be able to define their custom search filters using AND / OR operations between multiple search criteria. The search criteria must support both embedded & custom metadata fields to search on CLI/GUI mode.	Refer to GeM Query SNO.4
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EMAIL FROM Orionix Systems Private Limited Dated Wed, 19 Mar 2025

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Section	Item No:	Page No	Product Description	Clause No.	Request	Committee Remark
Section VII: Technical Specifications and Quality Assurance	1.4	170- 172	Archive System 2000TB Redundant RAW Capacity with Data Management System			
	1.4	171	Clause Statement: The Archive Management Software system should be Linux based operating system.	16	Please allow agnostic OS platform for Archive Manager	As per RFP only The Archive Management Software system should be Linux based operating system.

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	1.4	171	<p>Clause Statement:</p> <p>All basic operations such as Search, Archive, delete and retrieve operations should be supported on the CLI interface.</p>	17	Please allow CLI/ GUI user interface for Search, Archive Delete and Retrieval	<p>Page No 171 clause no 17 will be read as “All basic operations such as Search, Archive, delete and retrieve operations should be supported on the GUI/CLI interface”.</p>
	1.4	171	<p>Clause Statement:</p> <p>The solution should permit the creation of Custom Metadata Fields with permission level assignments to categories by user groups.</p> <p>It should not limit the number of metadata fields which users can create. Users should be able to create Metadata at Category, Asset or Frame Level in an asset.</p> <p>Following types of fields are mandatory for each metadata level -</p> <ol style="list-style-type: none"> Text Integer Multi Select List List 	19	Request you to remove the clause, as this feature only applicable where Archive Manager or MAM is Handling Broadcast Video Formats. Its non- relevant to Binary Data Archiving	<p>The given representation is wrt to clause 18 at page no 171 and the same has been removed.</p>

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			<p>e. Date, Time</p> <p>Above fields must be user- definable from the Web GUI. Except data deletion, creation and retrieval should be through CLI and rest other operations could be through GUI.</p>			
	1.4	172	<p>Clause Statement:</p> <p>Users should be able to define their custom search filters using AND / OR operations between multiple search criteria. The search criteria must support both embedded & custom metadata fields to search on CLI mode.</p>	20	Please allow CLI/ GUI user interface for Search, Archive Delete and Retrieval	<p>Page No 171 Clause No 20 will be read as</p> <p>" Users should be able to define their custom search filters using AND / OR operations between multiple search criteria. The search criteria must support both embedded & custom metadata fields to search on GUI/CLI mode."</p>

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	1.1	161	The server should support at least 3 PCIe x16 and 2 PCIe x 8 of Version 4.0. Each server should have an RTX 48GB GDDR6 Graphic card.	7	RTX 48GB Card has been Declared End of Sale of Nvidia, Kindly remove the RTX	Page No 161 Clause No.7 will read as "The server should support at least 3 PCIe x16 and 2 PCIe x 8 of Version 4.0. Each server should have an 48GB GDDR6 Graphic card"
	1.1	162	Server System Monitoring features includes temperature of CPU, memory & system environment.	5	This is OEM Specific Clause, Kindly amend as requested	Page no 162 Clause no 15 sub clause no 5 will be read as "Server System Monitoring features include temperature, memory & system environment".

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	10.0	11	Performance Security: [Applicable @ 10% of Order value]		As per the GeM Bid Document Page No:2, mentioned ePBG Percentage 5% and as per the Tender Document Applicable PBG is 10%, both clauses are contradictory. We request to clarify the exact % of Performance Security. We request Please refer the latest amendment of GFR Clause No: 171(i) o.m. No.No.F.1/2/2023-PPD Dated: 01/01/2024 issued by Ministry of Finance	As per RFP only Performance Security will be 10%
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Section II: Instructions To Bidders (ITB)	(b) Comprehensive Annual Maintenance Contract (CAMC)	32	If so stipulated in TIS/ AITB, the Bidders shall quote post- warranty Comprehensive Annual Maintenance Contract (AMC) for five years after the expiry of the warranty period. They should mention the maintenance schedule under the CAMC, giving the charges for the CAMC maintenance schedule and other details of spares to be used in such preventive maintenance. The terms & conditions of CAMC must specify the maximum down time and maximum response time. The total of CAMC charges for five years and the cost of spares used in CAMC during these five years would be included in the F.O.R. destination price quoted for the equipment for comparative evaluation of offer. However, procuring entity shall retain his to enter or not enter into such an AMC contract with the successful bidder/ contractor.	Section II: Instructions To Bidders (ITB)	Post Warranty Five Years CAMC is not possible as OEM does not maintain the spares till 10 Yrs. As per the OEMs Standard life cycle of the IT Components is 7 Yrs. No OEM Provides the Bug Fixing, Security Patches upgrade upto 10 Yrs. Please also refer the Guidelines for Codemntation and disposal of IT Products issued by Meity. We request also clarify the OS, hypervisor, Redhat Support/ Subscription tenure post warranty of under CAMC.	As per RFP only Since the IMD is going to run a multi-hazard early warning system, having this infrastructure in place is essential to fulfilling the requirement.
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Section II: Instructions To Bidders (ITB)	(b) Comprehensive Annual Maintenance Contract (CAMC)	32	If so stipulated in TIS/ AITB, the Bidders shall quote post- warranty Comprehensive Annual Maintenance Contract (AMC) for five years after the expiry of the warranty period. They should mention the maintenance schedule under the CAMC, giving the charges for the CAMC maintenance schedule and other details of spares to be used in such preventive maintenance. The terms & conditions of CAMC must specify the maximum down time and maximum response time. The total of CAMC charges for five years and the cost of spares used in CAMC during these five years would be included in the F.O.R. destination price quoted for the equipment for comparative evaluation of offer. However, Procuring entity shall retain his to enter or not enter into such an AMC contract with the successful bidder/ contractor.	Section II: Instructions To Bidders (ITB)	Kindly clarify the Scope of Work (Preventive Maintenance)	As Per RFP only
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			CAMC		Please clarify the Quoted CAMC cost will be consider for Financial Evaluation or not.	Yes
Prices and Payments	Terms and Mode of payments	146 - 147	Twenty five percent (25%) of total contract value will be paid as advance payment against 110% Advance Bank Guarantee to be submitted by the firm after issuance of supply order to support the bidder in design and manufacturing of high-end engineering goods	GCC 10.3.1, 10.3.2	Please clarify the 110% Value of Bank Guarantee. 110% of the Total Contract Value or 110% will be the Advance Value of the Contract i.e.25%	An advance bank guarantee equivalent to 110% of the advance amount shall be submitted. The advance amount will be 25% of the total con tract value
GCC 10.3.4	Advance Payment	150	Twenty (25%) of total contract value will be paid as advance payment against 110% Advance Bank Guarantee to be submitted by the firm after issuance of supply order.	GCC 10.3.4	Kindly clarify that this is the mandatory Clause or the Optional Clause in case of Bidder wants to avail the Advance Payment	Mandatory as per RFP only

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Prices and Payments	Terms and Mode of payments	146 - 147	Twenty five percent (25%) of total contract value will be paid as advance payment against 110% Advance Bank Guarantee to be submitted by the firm after issuance of supply order to support the bidder in design and manufacturing of high-end engineering goods Seventy five percent (75%) payment toward stores will be made after after receipt of goods, successful installation, functional test, completion of training, commissioning and acceptance of systems at site.	GCC 10.3.1, 10.3.2	The mentioned payment terms is not as per the GFR Rules, IMD may refer the OM No. DPE-7(4)/2007-Fin issued by Department of Public Enterprise dated: 12/02/2020 or OM No. F.6/18/2019. PPD issued by Ministry of Finance (Procurement Policy Division) Dated: 23/01/2020	As per RFP only
Scope of Work					Kindly clarify the Scope of Work of the Complete RFP	As Per RFP only

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Kuldeep Srivastava

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D. Patraik

Through email From RV solution pvt ltd dated 26/03/2025

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S No	RFP Page	RFP Statement	Queries	Committee Remarks
1	37	Twenty five (25%) of the total contract value will be paid as advance payment against an equivalent amount of 110% Advance Bank Guarantee after issuance of supply order to support the bidder in design and manufacturing of high end engineering goods in India.	Dear Sir, We are unable to understand the Advance Bank Guarantee criteria, as this criteria is not mentioned in the GEM NIT document. We kindly request you to remove this clause and release the advance payment based on the submission of an e-PBG for 5% of the contract value. Additionally, we would appreciate it if you could provide further clarification on the following:	As Per RFP only Twenty five (25%) of the total contract value will be paid as advance payment against an equivalent amount of 110% Advance Bank Guarantee after issuance of supply order to support the bidder in design and manufacturing of high end engineering goods in India.
	84	For advance payment, 110% Advance Bank Guarantee to be submitted by the contractor after issuance of supply order.		
	118	Twenty-Five percent (25%) of the total contract value will be paid as advance payment against an equivalent amount of 110% Advance Bank Guarantee after issuance of supply order to support the bidder in design and manufacturing of high end engineering goods in India.	<ul style="list-style-type: none"> The validity period of the PBG (how many months). The timeline for the release of the advance payment. 	

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	147	Twenty five percent (25%) of total contract value will be paid as advance payment against 110% Advance Bank Guarantee to be submitted by the firm after issuance of supply order to support the bidder in design and manufacturing of high-end engineering goods.		As per RFP only For advance payment, 110% Advance Bank Guarantee to be submitted by the contractor after issuance of supply order.
	149	Twenty five percent (25%) of total contract value will be paid as advance payment against 110% Advance Bank Guarantee to be submitted by the firm after issuance of supply order.		

	150	Twenty (25%) of total contract value will be paid as advance payment against 110% Advance Bank Guarantee to be submitted by the firm after issuance of supply order.		
2	11	Performance Security - [Applicable @ 10% of Order value]	Please clarify if the Performance Security, in the form of an e-PBG for 5% of the contract value as per the GEM NIT,	As Per RFP only

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				warranty period and the date of completion of all contractual obligations of CAMC by the contractor (TO BE SUBMITTED 30 DAYS BEFORE COMPLETION OF WARRANTY PERIOD).
4		GEM ePBG Detail: 62 Months ePBG Percentage: 5%	Please clarify if we are required to submit a 5% electronic Performance Bank Guarantee of the contract value for 62 months, covering the warranty period, which will be returned to the service provider upon submission of the CAMC PBG.	As Per RFP only Refer GCC 5.7 page no 139
5	187	The firm must have experience of supplying, installation and commissioning of a similar specification (at least four servers with minimum 100TB storage as TurnKey solution) during the last 3 years.	Please clarify if the bidder can showcase their own experience or the experience of their OEM to fulfill this experience criteria.	Page No 187 Under Experience and Past performance clause No ii will be read as "The bidder/OEM must have experience of supplying, installation and

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187	The bidder should have a minimum of 3 years of experience. In respect of the filter applied for experience criteria, the Bidder or its OEM [themselves		commissioning of a similar specification(at least four servers with minimum 100TB storage as TurnKey solution) during the last 3 years."
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	<p>or through reseller(s)] should have regularly, manufactured and supplied same or similar Category Products to any Central / State Govt Organization / PSU</p> <p>/ Private limited or limited Organisations for number of Financial years as indicated above in the bid document before the bid opening date. Copies of relevant contracts to be submitted along with bid in support of having supplied some quantity during each of the financial year. In case of bunch bids, the category of primary product having highest value should meet this criterion.</p>		
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6190	<p>The bidder should possess relevant certifications such as ISO 9001:2000, 14001, CMMI Level 3 or above.</p> <p>ISO 27001: 5 Marks</p> <p>Level 3: 05 Marks</p> <p>Level 3+: 10 Marks</p>	<p>Please clarify if a bidder with ISO 27001 and CMMI Level 3 certification will receive 10 marks. We assume that the CMMI certification will be verified only through the CMMI Institute website.</p>	<p>As By Standard Approving Authority only</p>
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Email from Aruba a Hewlett Packard Enterprises Company DATED 19/03/2025

Item 1.5 Network Switches (Quantity – 4 no's)			
S.No	Requirement Description	Changes required	Committee Remarks
8	Support for an address database size of at least 32K MAC addresses (48-bit MAC).	Support for an address database size of at least 32K MAC addresses and 32MB packet buffer	As per RFP only

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12	Support for 64 Link Aggregation Groups (LAGs) with up to 32 ports per group.	Support for 54 Link Aggregation Groups (LAGs) with up to 16 ports per group.	As per RFP only
13	Multi-Chassis Link Aggregation (MLAG) with 62 groups, each supporting up to 32 ports per group.	Multi-Chassis Link Aggregation (MLAG) with 54 groups, each supporting up to 16 ports per group.	As per RFP only
21	Advanced routing protocols, including: <ul style="list-style-type: none"> ● OSPF v2/v3, BGP4, PIM-SM/SSM, and VRRP (v2/v3). ● Policy-based routing and ECMP for load balancing. 	Advanced routing protocols, including: <ul style="list-style-type: none"> ● OSPF v2/v3, BGP4, PIM-SM/SSM, MSDP, VxLAN EVPN, DCBX, PFC, ETS and VRRP (v2/v3). ● Policy-based routing and ECMP for load balancing. 	As per RFP only
24	Protection against broadcast, multicast, and unicast storms.	Protection against broadcast, multicast, and unicast storms. Should have TPM Secure boot	As per RFP only
29	Telnet/SSH, TFTP/FTP/SCP/SFTP for configuration and software management.	Telnet/SSH, TFTP/FTP/SCP/SFTP for configuration and software management. Should have Advanced telemetry and automation provide the ability to easily identify and troubleshoot network, system, application, and	As per RFP only

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		security related issues easily	
30	Ansible support and ONIE in-band firmware upgrades for automated deployments.	Ansible and REST API support for Automation	As per RFP only
33	Port mirroring and Remote SPAN (RSPAN) for traffic analysis.	Port mirroring and Remote SPAN (RSPAN)/ERSPAN for traffic analysis.	As per RFP only

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Email from Hewlett Packard Enterprise India Pvt. Ltd email dated 17/03/2024

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	Specification	Request	Committee Remark
7	The server should support at least 3 PCIe x16 and 2 PCIe x 8 of Version 4.0. Each server should have an RTX 48GB GDDR6 Graphic card.	Please only mention the memory cache of 48Gb for GPU. Remove RTX, GDDR6	Page No 161 clause No 7 will be read as "The server should support at least 3 PCIe x16 and 2 PCIe x 8 of Version 4.0. Each server should have an 48GB GDDR6 Graphic card".
11	USB 3.1 Gen1, COM, 1x VGA D-Sub 15-pin port in each server.	Please remove D-Sub 15-pin port in each server as its not part of Current Industry Server config.	Page no 162 Clause No 11 will be read as "11 USB 3.1 Gen1, COM, 1x VGA port in each server."
15	3. Server should have storage space earmarked to be used as a repository for firmware, drivers and software components. The components can be organized into install sets and can be used to roll back/patch faulty firmware.	Please Change to ? Server should be able to roll back from faulty firmware.	Page no 162 S No 15 sub Clause no 3 will be read as "Server should have storage space earmarked to be used as a repository for firmware, drivers and software components. Server should be able to roll back/patch from faulty firmware".

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Email from COMnet Solutions Pvt Ltd. Dated 27/03/2025

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S/N	Page NO	Technical Evaluation Criteria	Relevant Document	Comments	Remarks
1	190	Criteria: Bidder should have experience in successfully supply, installation and commissioning of similar hardware work in PSU/Govt. organizations/ Pvt Ltd/ or ltd. in the last 5 years in India/Globally.	Work order/contract + completion certificate from client/undertaking of work in progress from bidder.	Kindly consider the PO for the last seven years. Also, consider the standalone/individual PO for the server and storage	As per RFP only
2	190	Criteria: Number of full-time Employee on its payroll in India, who are dealing in advisory /implementation/post- implementation support services for hardware solutions as on bid closing date.	Certificate from HR on the original letterhead as on date of submission of the bid.	Kindly request acceptance of only the HR certificate declaration for the availability of resources	As per RFP only

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3	191	Criteria: Bidder should have qualified experts in installation, virtualization, integration and configuration server and other peripherals as mentioned in technical requirement of the bid.	Supporting Documents/ Certificates	We can provide the HR letter confirming the availability of resources	As per RFP only
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Email From Quantum Corp Dated 28/03/2025

Request	Committee Remarks
With reference to the attached GEM bid (GEM/2025/B/6044537) for requirement with (1PB + 1PB) Archival at DC and same to be replicated at DR expandable with 600 slots. The technical specs published in the GEM RFP seem proprietary on specific OEM (ALTOIII) and may face queries on almost all the points.	IMD is looking for the adoption of a disk-based archival solution which is essential to ensuring high-performance, reliable, and readily accessible data storage, aligning with the operational and technical requirements of the project. Unlike tape-based or hybrid solutions, disk-based storage facilitates rapid data retrieval, enhanced durability, and seamless scalability to accommodate increasing data volumes. It eliminates the constraints of sequential access and manual intervention associated with tape systems, thereby improving operational efficiency and system responsiveness. Furthermore, while tape storage may offer lower initial costs, a

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disk-based solution provides greater long-term value by reducing maintenance requirements, retrieval delays, and risks of data degradation. Accordingly, the preference for a disk-based archival system is based solely on its technical and strategic advantages, ensuring the robustness and efficiency of the archival infrastructure without favouring any specific vendor

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Email FROM Targus Technologies Ltd. dated 28/03/2025

	Item 1.2 Type –I NVMe Storage (250 TB NVMe usable Capacity) Quantity-1		
S. No.	Detailed Requirement of the Feature	Suggested Changes	Committee Remarks
3	The storage system must deliver a minimum write throughput of 10 GBPS, ensuring efficient data handling in high-performance environments.	The storage system must deliver a minimum write throughput of 5 GBPS, ensuring efficient data handling in high-performance environments.	As Per RFP only 10GBPS is minimum requirement for 2000 core compute cluster.

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i	File-level: CIFS/SMB, NFS, AFP, SFTP,S3	File-level: CIFS/SMB, NFS,S3	As Per RFP only SFTP is the requirement to receive and send the data outside the department network and SFTP should be supported by the proposed system.
9	Each controller must be equipped with 512 DDR5 RAM, ensuring high-speed data processing and caching.	Each controller must be equipped with 128GB DRAM based cache, ensuring high-speed data processing and caching.	As per RFP only 512GB Cache per controller is the minimum requirement.
10	Front-End Ports: 8 x 25Gbps ,per controller for client and server connectivity.	Front-End Ports: 8 x 32Gbps ,8x25Gbps for client and server connectivity.	As Per RFP only The complete architecture asked is based on 25 Gbps only.

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11	Back-End Ports: 2 x 12G SAS ports for interconnectivity with additional drives or enclosures.	End to End NVME connectivity for seamless processing of data and linear performance	As per RFP only As expansion ports are asked and in nearby future multiple types of drives should be supported with AutoTiering feature.
12	The following features should be supported in the proposed storage		
i	Auto Tiering for managing hybrid disk environments efficiently.	Please remove	As Per RFP only As expansion ports are asked and in nearby future multiple types of drives should be supported with AutoTiering feature.
v	Local and Remote Replication for data redundancy	Synchronous and Asynchronous Data Replaication for File and Block Data	As per RFP only Minimum requirement for data replication and protection.

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vii	SSD Cache for performance acceleration.	Please remove	As per RFP only The feature should be supported in case within expansion enclosure SAS disk will asked then this feature would require.
x	Folder Encryption: AES-based encryption for data security.	Encryption support at SED level and D@RE support ,immutable snapshots	As per RFP only "Folder encryption is the minimum requirement and features better than this will be acceptable".
16	Cache Safe Technology to ensure data is safely written to storage during power outages.	Battery backed up NVMRAM /Cache Safe Technology to ensure data is safely written to storage during power outages.	As per RFP only "Cache should be protected from power outages is the minimum requirement".

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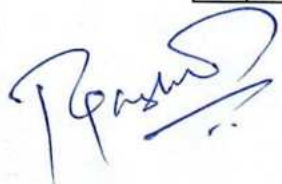
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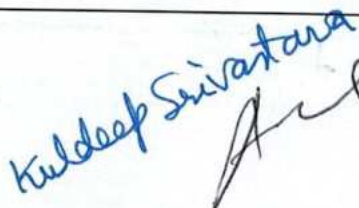
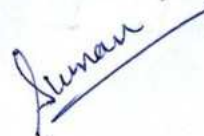
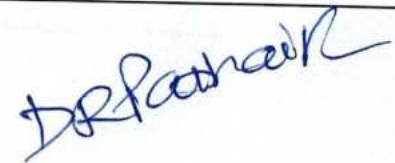
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18	Type – I NVMe Shared storage should follow the open drive policy and the compatibility matrix of drives should be submitted along with the bid documents.	NVME Drive Storage should be offered by the OEM and must be SEDs with support for internal as well as external key management	<p>As per RFP only</p> <p>Open drive policy must be followed. None of the OEM should restrict IMD to buy drives from open market.</p> <p>The compatibility matrix should be shared along with proposal.</p>
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	Item 1.3 Type – II Shared storage (2000 TB NL-SAS/SAS Usable Capacity) Quantity-1		
i	File-level: CIFS/SMB, NFS, S3, AFP, SFTP	File-level: CIFS/SMB, NFS, S3	SFTP is the requirement to receive and send the data outside the department network and SFTP should be supported by the proposed system.
9	Each controller must be equipped with 192GB DDR4 RAM or better, ensuring high- speed data processing and caching.	Each controller must be equipped with 256GB DRAM based cache , ensuring high-speed data processing and caching.	<p>As Per RFP only</p> <p>Each controller must be equipped with 192GB DDR4 RAM or better, ensuring high- speed data processing and caching.</p>
10	Front-End Ports: 4x 25Gbps per controller for client and server connectivity.	Front-End Ports: 8 x 32Gbps ,8x25Gbps for client and server connectivity.	<p>As Per RFP only</p> <p>The complete architecture is based on 25 Gbps</p>



			only.
12	The following features should be supported in the proposed storage		
i	Auto Tiering for managing hybrid disk environments efficiently.	The offered Storage must be able to tier the data to Object Storage Natively	As Per RFP only As expansion ports are asked and in nearby future multiple types of drives should be supported with AutoTiering with minimum feature and features better than this will be acceptable..
v	Local and Remote Replication for data redundancy.	Synchronous and Asynchronous Data Replaication for File and Block Data	As per RFP only The minimum requirement for data replication and protection and features better than this will be acceptable.
x	Folder Encryption: AES-based encryption for data security.	Encryption support at SED level and D@RE support ,immutable snapshots	As per RFP only Folder encryption is the minimum requirement and features better than this will be acceptable.

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16	Cache Safe Technology to ensure data is safely written to storage during power outages.	Battery backed up NVRAM /Cache Safe Technology to ensure data is safely written to storage during power outages.	As Per RFP only Cache should be protected from power outages is the minimum requirement.
18	Type – II Shared storage should follow the open drive policy and the compatibility matrix of drives should be submitted along with the bid documents.	Shared Storage should follow the Industry best practices , Drive Storage should be offered by the OEM and must be SEDs with support for internal as well as external key management	As Per RFP only Open drive policy must be followed. None of the OEM should restrict department to buy drives from open market. The compatibility matrix should be shared along with proposal.

	Switches Query	Committee Remarks
2	As per BoQ, it's mentioned 24 port 25G switch with 4 Qty, whereas technical specification specifies the 48 port 25G with 8 x 100 Gbps switch, 4Qty.	Please refer to Item No. 1.5 Network Switches modified as below (Page No 172 in Tender Document)

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3	No technical specification available of Network Switches 24 port 1Gbps. What type of ports required like Fiber or Copper ports.	Please refer to Item No. 1.5 Network Switches modified as below in this document (Page No 40)
4	In technical specification, Network Security Devices (Quantity – 2 nos configured in HA) is mentioned, whereas in BoQ, only single quantity is mentioned. Please confirm the quantity.	Please refer to Item No. 1.5 Network Switches modified as below in this document (Page No 40)

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Email from Felidae India Solutions Pvt. Ltd Dated 27/03/2025

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	Item 1.2 Type –I NVMe Storage (250 TB NVMe usable Capacity) Quantity-1		
S. No.	Detailed Requirement of the Feature	Suggested Changes	Committee Remarks
3	The storage system must deliver a minimum write throughput of 10 GBPS, ensuring efficient data handling in high-performance environments.	The storage system must deliver a minimum write throughput of 5 GBPS, ensuring efficient data handling in high-performance environments.	As Per RFP only 10 GBPS is minimum requirement for 2000 core compute cluster.
i	File-level: CIFS/SMB, NFS, AFP, SFTP,S3	File-level: CIFS/SMB, NFS,S3	As Per RFP only SFTP is the requirement to receive and send the data outside the department network and SFTP should be supported by the proposed system.

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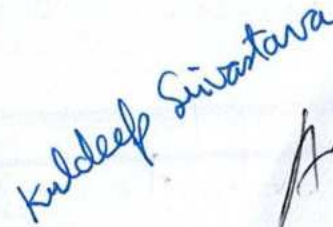
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9	Each controller must be equipped with 512 DDR5 RAM, ensuring high-speed data processing and caching.	Each controller must be equipped with 128GB DRAM based cache, ensuring high-speed data processing and caching.	As per RFP only 512 GB Cache per controller is the minimum requirement.
10	Front-End Ports: 8 x 25Gbps ,per controller for client and server connectivity.	Front-End Ports: 8 x 32Gbps ,8x25Gbps for client and server connectivity.	As Per RFP only The complete architecture asked is based on 25 Gbps only.
11	Back-End Ports: 2 x 12G SAS ports for interconnectivity with additional drives or enclosures.	End to End NVME connectivity for seamless processing of data and linear performance	As per RFP only As expansion ports are asked and in nearby future multiple types of drives should be supported with AutoTiering feature.






12	The following features should be supported in the proposed storage		
i	Auto Tiering for managing hybrid disk environments efficiently.	Please remove	<p>As Per RFP only</p> <p>As expansion ports are asked and in nearby future multiple types of drives should be supported with AutoTiering feature.</p>
v	Local and Remote Replication for data redundancy	Synchronous and Asynchronous Data Replaication for File and Block Data	<p>As per RFP only</p> <p>Minimum requirement for data replication and protection.</p>
vii	SSD Cache for performance acceleration.	Please remove	<p>As per RFP only</p> <p>The feature should be supported in case within expansion enclosure SAS disk will asked then this feature would require.</p>

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x	Folder Encryption: AES-based encryption for data security.	Encryption support at SED level and D@RE support ,immutable snapshots	As per RFP only "Folder encryption is the minimum requirement and features better than this will be acceptable".
16	Cache Safe Technology to ensure data is safely written to storage during power outages.	Battery backed up NVMRAM /Cache Safe Technology to ensure data is safely written to storage during power outages.	As per RFP only "Cache should be protected from power outages is the minimum requirement".
18	Type – I NVMe Shared storage should follow the open drive policy and the compatibility matrix of drives should be submitted along with the bid documents.	NVME Drive Storage should be offered by the OEM and must be SEDs with support for internal as well as external key management	As per RFP only Open drive policy must be followed. None of the OEM should restrict IMD to buy drives from open market. The compatibility matrix should be shared along with proposal.

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Dr. Patnaik

Item No. 1.5 Network Switches (Page No 172 in Tender Document) modified as below

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	Part A
1	The proposed switches must be Layer 3 (L3) managed switches with support for redundant, hot-swappable power supplies to ensure uninterrupted network operation.
2	The switches must be rack-mountable and include all necessary accessories, such as a rail kit, mounting kit, and cables for seamless integration into standard racks.
3	The switches must support a store-and-forward forwarding mode for efficient packet handling.
4	A minimum of 4 Nos. of 24 x 25 Gbps ports for high-speed access connections or A minimum of 2 Nos. of 48 x 25 Gbps ports for high-speed access connections.
5	A minimum of 4 x 100 Gbps uplink ports, enabling robust connections to core or distribution switches.
6	The switches must provide a switching/routing capacity of 4 Tbps to handle large volumes of data traffic effectively.
7	The minimum forwarding throughput should be 2 billion packets per second, ensuring high-speed data flow across the network.
8	Support for an address database size of at least 32K MAC addresses (48-bit MAC).
9	Minimum MTBF of 280,000 hours, indicating high reliability.
10	The switches must support 4,000 VLANs or more simultaneously, conforming to IEEE 802.1Q standards.
11	Support for: <ul style="list-style-type: none"> o 2,048 multicast groups (IPv4) o 8K ARP entries or more o 2.5K NDP entries or more
12	Support for 64 Link Aggregation Groups (LAGs) with up to 32 ports per group.
13	Multi-Chassis Link Aggregation (MLAG) with 62 groups, each supporting up to 32 ports per group.
14	Jumbo frame support with packet sizes up to 9K bytes.
15	Advanced traffic balancing features for unicast and multicast traffic across trunk ports.
16	IEEE 802.1Q Tagged VLAN
17	Private VLANs and QinQ
18	IGMP Snooping (v1/v2/v3) and MLD Snooping (v1/v2) for multicast traffic optimization.

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19	Broadcast and unknown multicast traffic suppression.
20	Support for 32K IPv4 unicast routes and 24K IPv6 unicast routes.
21	Advanced routing protocols, including: <ul style="list-style-type: none"> • OSPF v2/v3, BGP4, PIM-SM/SSM, and VRRP (v2/v3). • Policy-based routing and ECMP for load balancing.
22	Support for minimum 64 VRFs and 96 BFD sessions.
23	Static and dynamic MAC-based port security for securing access points.
24	Protection against broadcast, multicast, and unicast storms.
25	L2/L3/L4 ACLs for filtering based on MAC, IPv4, IPv6, TCP, and UDP.
26	IEEE 802.1x RADIUS-based port authentication.
27	Prevents ARP spoofing attacks for enhanced security.
28	Industry-standard CLI with support for filtering commands.
29	Telnet/SSH, TFTP/FTP/SCP/SFTP for configuration and software management.
30	Ansible support and ONIE in-band firmware upgrades for automated deployments.
31	Features like SNMP (v1/v2c/v3), RMON, ICMP Ping, Traceroute, and LLDP.
32	Event and error logging with email alerting.
33	Port mirroring and Remote SPAN (RSPAN) for traffic analysis.
34	Advanced SPAN with ACL filtering and VLAN-specific monitoring.
35	Indicate speed, link status, and activity for each port.
36	Indicators for power, system health, and status of PSU 1, PSU 2, and fans.
Part B	

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1	24 x 10/100/1000 Mbps RJ45 Ports: Standard Gigabit Ethernet connectivity.
2	48 Gbps Switching Capacity (Non-blocking): Ensures high-speed data transfer.
3	35.7 Mpps Forwarding Rate (Typical): Measures packet handling capability.
4	8K MAC Address Table: Stores device address information.
5	IEEE 802.3ab (Gigabit Ethernet) Compliance: Adheres to industry standards.
6	19-inch Rack-Mountable: Standard form factor for server racks.
7	Internal Power Supply (100-240V AC): Integrated power for easy setup.
8	Store-and-Forward Architecture: Reliable packet delivery.
8	Auto-MDI/MDIX: Automatic cable detection and correction.
10	Managed for network configuration.

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Email Received from CPU on 08th April 2025 Representation from Quantum Corp

Item 1.4 Archive System 2000TB Redundant RAW Capacity with Data Management System (Quantity -1)

S.NO	Detailed Requirement of the Feature	Suggested Points	Committee Remarks
1	The Archive shall have an initial storage capacity of 1000 TB redundant RAW capacity and shall be based on regular hard disk media but non-linear access to Archive & Retrieve the Contents. System should be configured with one 1000TB + 1000TB RAW Data replica with HDD redundancy and 2000 TB RAW non redundant replication factor in independent drives. Users should be able to buy the validated hard drives from the market as per the data growth without any Drive Size locking and without any capacity-based licensing. There should be a vault storage option to reclassify the storage capacity of Archive storage.	<p>Sizing the storage using RAW capacity is not a standard practice, usable capacity after RAID 6 will be more appropriate parameter to size the storage from a user standpoint on a usability. For Eg: 8 disk of 10 TB each can give 70 TB usable with RAID 5, while 60 TB usable with RAID 6. However, RAW capacity is still the same i.e. 80 TB.</p> <p>Disk base solution are more prone to failure as the life cycle for disk are 1/4 times the life span for Tape Storage, recommendation is to have hot data on disk for performance and tier the same data to tape library to keep it offline for protection purpose.</p> <p>Request you to kindly amend the clause as below:</p> <p>The Archive shall have a <u>total storage capacity at DC of 2 PB usable using a combination of FC based SAN storage and tape storage for longer durability for an initial storage capacity of 1000 TB 2 PB usable redundant RAW capacity and shall be based on FC SAN Storage regular hard disk media but non-linear access to Archive & Retrieve the Contents. And the same setup should be created at DR for the replica of the same which includes same SAN + tape storage.</u></p> <p>System should be configured with <u>min 15 TB SSD drive</u></p>	<p>As Per RFP only.</p> <p><i>IMD is looking for the adoption of a disk-based archival solution, which is essential to ensuring high-performance, reliable, and readily accessible data storage, aligning with both the operational and technical requirements of the project.</i></p> <p><i>Unlike tape-based or hybrid solutions, disk-based storage offers rapid data retrieval, enhanced durability, and seamless scalability to accommodate increasing data volumes. By leveraging disks, the</i></p>

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		<p><u>for usable capacity of 400 TB using RAID 6 and min. 2 PB usable on LTO-9 tape, scalable up to 10 PB and 20 qty FH LTO-9 drives. Tape library should include 3 qty of LTO-9 drives, each with 400 MBps native speed, reliability and durability. Offered solution should have built-in HSM component to archive the content from SAN storage to tape storage automatically.</u></p> <p>one 1000TB + 1000TB RAW 2PB storage usable capacity at DC and other at DR. Data replica with HDD redundancy and 2000 TB RAW non redundant replication factor in independent drives. Users should be able to buy the validated hard drives from the market as per the data growth without any Drive Size locking and without any capacity based licensing.</p> <p>User should be able to add any brands of SAN storage to expand the capacity in the same single global namespace & volume including tape library for archival. Offered solution should provide sharing of data for reading and writing between multiple users directly on the SAN storage regardless of the connectivity i.e. FC and ethernet. There should be a vault storage option to reclassify the storage capacity of Archive tape storage.</p>	<p><i>system eliminates the constraints of sequential access and manual intervention associated with tape systems, thereby improving operational efficiency and system responsiveness.</i></p>
4	The Archive should follow the open drive policy, and the compatibility matrix of drives should be submitted along with the bid documents.	Drive supportability is not important more the controller. Hence request you to include heterogeneous environment for SAN Storage controller's standpoint.	<p>As per RFP only</p> <p><i>Open drive policy must be followed for future-</i></p>

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		<p>Request you to kindly amend the clause as below:</p> <p>The Archive Solution should follow to support heterogeneous certified SAN storage brands to add on capacity expansion the open drive policy and the compatibility matrix of drives should be submitted along with the bid documents.</p>	<p><i>proofness of the archive storage. None of the OEM should restrict IMD to buy drives from open market. The compatibility matrix should be shared along with proposal.</i></p>
5	<p>The Archive must support mixed disks drive capacities within the same array. System should allow multiple HDD manufacturers in the same array and same chassis and mix & match Drive size, RPM compatibility in the same chassis and array.</p>	<p>Mixing different types of disks like SAS and SATA is not a recommended practice under the same RAID group, RAID provides protection on disk failure and improving the fault tolerance.</p> <p>Request you to kindly update the clause as below:</p> <p>The Archive Solution must support mixed disks drive capacities within the same array Solution. System It should allow multiple HDD storage manufacturers in the same array solution and same chassis and mix & match Drive size, RPM compatibility in the same chassis and array.</p>	<p><i>As per RFP only There is flexibility and cost efficiency are key priorities. To address these needs, the system should be designed to support mixed disk drive capacities, as well as disks from multiple manufacturers within the same array, chassis. The ability to mix and match drive sizes, RPM compatibility, and different disk types within the same system provides valuable flexibility, particularly for cost</i></p>

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			<i>optimization and scalability as storage needs evolve. This flexibility allows for an adaptable and efficient storage infrastructure that can grow with the changing requirements of the organization.</i>
6	The Archive shall support individually removable disk drives from all slots for shelf storage, and media transportation. Data shall be written as complete non- segmented files on the disks and replicated for protection against individual disk failure.	<p>Writing the data in non-segmented is not a recommended practice, or this is a feature supporting to a particular OEM. Storage industry works on striping mechanism using RAID controllers to meet the disk failure scenario.</p> <p>Request you to kindly update this clause as below:</p> <p>The Archive shall support individually removable disk drives from all slots for shelf storage, and media transportation. Data shall be written as complete non-segmented files on the disks and replicated for protection against individual disk failure. and should follow RAID 6 for dual disk failure protection.</p>	<i>As Per RFP only The feature of writing data as complete non-segmented files on the disks, with replication for protection against disk failure, is a valid design choice, especially when ease of media handling and transport is a priority.</i>
7	The security of the Archive shall be based on keeping at least two Replicas of every media file by default with the option to keep a third replica of strategically important content, or a	Creating replicas for the data is based on the protection layers configured, D2D2T is the best and recommended mechanism to have 3 copies of data first on Disks (production), second copy (backup storage) and third copy on (Tape Library).	<i>As per RFP only By focusing entirely on disk storage, the solution provides faster access, greater</i>



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	single replica where the storage is deemed to be a backup volume, on a user selectable basis.	<p>Request you to kindly amend the clause as below:</p> <p>The security of the Archive shall be based on keeping at least two Replicas of every media file by default with the option to keep a third replica of strategically important content, or a single replica where the storage is deemed to be a backup volume, on a user selectable basis.</p> <p>In the offered Solution each file needs to be archive with Instant Protection as low as within 5 minutes, and the offered solution should support the flexibility to create Multiple Copies by the HSM on Tape, Object Storage, Cloud and each copy may reside on a different storage destination.</p> <p>Truncation of the Data block shall leave the Data link points on the disk tier for future so that Data can be retrieved with a ease from Tape Archive.</p>	<i>flexibility, and better scalability, while maintaining the necessary data protection and redundancy. This disk-only approach eliminates the complexities and delays associated with tape, ensuring that data retrieval is quick and efficient.</i>
8	For disaster recovery purposes it shall be possible to remove any individual disk and recover media files using an external computer without special software licensing procurement.	<p>Data should be recovered or managed within the system, if data can be retrieved using external computer, then data security can be compromised easily, as any unauthorised person can take disk out and replicated the data to his/her system.</p> <p>Request you to kindly amend this clause as below:</p> <p>For disaster recovery purposes it shall be possible to remove any individual disk and recover media files using an external computer RAID controllers or tape</p>	<i>As per RFP only This approach also enhances data management, offering flexibility for performance optimization, auditing, and maintaining quality of service. It allows clients to use</i>

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		library without special software licensing procurement. Effective Data management to optimize Client Performance & Auditing along with Quality of Service.	<i>commonly available hardware for recovery, making the recovery process faster and more straightforward, thus minimizing operational downtime and complexity.</i>
9	Connectivity shall be based on 1GB Ethernet and Dual port 10GB Ethernet with SFP+ with GBIC slots.	Connectivity shall be based on 16/32 G FC for SAN storage, 8 GB FC for Tape Storage and 1Gb Ethernet for management and Dual port 10GB Ethernet with SFP+ with GBIC slots.	As Per RFP only The requirement is for a Hard Disk based archival storage. As Complete Architecture is on 25Gbps only
10	Archive Storage should be able to create and manage shelf / Vault workflow as a Copy of Last Resort for all, or strategically important static parts of the Archive by itself if required in the future. This feature should be embedded in the solution as an option.	Archive Storage should be able to create and manage shelf / Vault workflow within library as a Copy of Last Resort for all, or strategically important static parts of the Archive by itself if required in the future. This feature should be embedded in the solution as an option.	As Per RFP only The requirement for the shelf / vault workflow is to facilitate an offsite copy of data in the future as required.
11	Main Archive Storage unit should be expandable with 600 Slots as scale up and can be added multiple Main Archive Chassis to increase the required throughput and scale out capacity with multiple Storage Array.	HSM will help to manage the data copies along within the same namespace, also Truncation of the Data block shall leave the Data link points on the disk tier for future so that Data can be retrieved with a ease from Tape Archive.	As Per RFP only The requirement is for a Hard Disk based archival storage. IMD is not looking for TAPE based solution.

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		<p>Request you to kindly amend this clause as below:</p> <p>Main Archive Storage unit should be expandable with 600 800 Slots as scale up and can be added multiple Main Archive Chassis storage to increase the required throughput and scale out capacity with multiple Storage Array.</p> <p>Offered Storage solution should have built-in HSM to archive the Geo-Spatial Data/ Unstructured data to Full Height LTO-9 Drives, each with 400 MBps.</p>	
13	Archive Storage OEM should have ISO 27001:2022 Certification, ISO 14001:2015 and need to provide the Valid Certificate copy during the Bid.	Request you to remove this point as this does not bring any technical or solution approach to the solution.	As Per RFP only <i>These are standard Certifications for assessment</i>
14	The Storage Controller of Archive storage should be hosted in a separate physical node as per the throughput requirement.	<p>Upgradation of storage should not require any-downtime, it should support online expansion and retirement of storage capacity and disk array swap-outs without taking the file system offline.</p> <p>Request you to kindly amend this clause as below:</p> <p>The Storage Controller of Archive storage should offer with SSD drives be hosted in a separate physical node as per the throughput requirement.</p> <p>Data shall be truncated based on the threshold policy defined in the solution as low water marked of storage capacity and Data blocks shall be truncated from the Disk tier automatically to allow new data in the Disk Storage Pool for archival.</p>	As Per RFP only Minimum Requirement is The Storage Controller of Archive storage should be hosted in a separate physical node as per the throughput requirement better than is acceptable.

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		Shall allow online expansion and retirement of storage capacity and disk array swap-outs without taking the file system offline. This includes adding additional disks to existing storage arrays, adding incremental or new storage arrays, and/or the removal of older arrays in replacement of new storage subsystems	
18	<p>The solution should permit the creation of Custom Metadata Fields with permission level assignments to categories by user groups. It should not limit the number of metadata fields which users can create. Users should be able to create Metadata at Category, Asset or Frame Level in an asset. Following types of fields are mandatory for each metadata level –</p> <p>a. Text</p> <p>b. Integer</p> <p>c. List</p> <p>d. Multi Select List</p> <p>e. Date, Time</p> <p>Above fields must be user-definable from the Web GUI.</p> <p>Except data deletion, creation and retrieval should be through CLI and rest other operations could be through GUI.</p>	<p>Request you to kindly amend the clause as below:</p> <p>The offered solution should allow to integrate and permit the creation of Custom Metadata Fields with permission level assignments to categories by user groups using SAN storage architecture. It should not limit the number of metadata fields which users can create. Users should be able to create Metadata at Category, Asset or Frame Level in an asset. Following types of fields are mandatory for each metadata level –</p> <p>a. Text</p> <p>b. Integer</p> <p>c. List</p> <p>d. Multi Select List</p> <p>e. Date, Time</p> <p>Above fields must be user-definable from the Web GUI.</p> <p>Except data deletion, creation and retrieval should be through CLI and rest other operations could be through GUI.</p>	Page No 171 Clause No 18 consider as removed.

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20	Users should be able to define their custom search filters using AND / OR operations between multiple search criteria. The search criteria must support both embedded & custom metadata fields to search on CLI mode.	Request you to kindly amend the clause as below: Users should be able to define their custom search filters using AND / OR operations between multiple search criteria. The search criteria must support both embedded & custom metadata fields to search on CLI mode whichever is applicable with Linux platform.	Page No 171 Clause No 20 will be read "Users should be able to define their custom search filters using AND / OR operations between multiple search criteria. The search criteria must support both embedded & custom metadata fields to search on GUI/CLI mode."
22	Support of Externalized DISKS and keep track of the UUID of the disks externalized. The UI should show the content of the object is available in which UUID of disks and if the UUID Disk is externalized.	Request you to remove this clause seems to be a specific term from some vendor.	As per RFP only <i>This feature is required to keep the track of drives</i> <i>The externalised disks should be identifiable, and the identification system is to be part of the solution</i>

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