

Corrigendum- III

Date: 25.09.2026

Subject: RFP for Appointment of a System Integrator (SI) for AI-Enabled Interoperable Utility Intelligence Platform for Network Planning, Grid Analytics and DER Integration

Existing Clause				Modified/Amended/Additions in the clauses				
Bid Submission Extensions Corrigendum-II: Extension of Bid Submission Deadline issued on 09 th Sept 2026				Bid Submission Extensions ISA has favourably considered the extension requests received from bidders. The new bid submission deadline is October 16, 2026 – 11:59 PM (Indian Standard Time)				
Minimum Eligibility Criteria (Pre-Requisite) page no 24 of the RFP				Minimum Eligibility Criteria (Pre-Requisite) page no 24 of the RFP				
Criteria	Requirements	Supporting Documents	Max Points	Criteria	Requirements	Supporting Documents	Max Points	
Technical Requirements				Technical Requirements				
Years of Operation	The Sole/ Lead Bidder must demonstrate prior experience in the technology or power sector. Points will be awarded based on the number of completed years of relevant operation as of the bid submission date.	Certificate of Incorporation, Company Profile	15	Years of Operation	No Change			
	Years of Operation							Marks
	up to ≤ 5 years							10

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	> 5 years	15			Relevant Project Experience	No Change		
Relevant Project Experience	The Sole Bidder/Lead Bidder/any Consortium Member should have successfully implemented Eligible Projects involving AI-enabled Digital Utility Platforms, Digital Twin solutions, network analysis, predictive models using AI/ML, utility IT/OT system integration, Large Language Model (LLM)-based applications, Agentic AI, AI copilots, multi-agent AI systems, utility-scale AI/ML solutions, interoperable utility data platforms for any Power Distribution/Generation/Transmission Company, Renewable Energy Utility, or other Critical Infrastructure Sector within the last three (3) years executed or under execution from the date of issuance of this RFP: Aggregate project value across eligible engagements		References along with requisite c ontract/ Purchase Order (PO)/ Work Order (WO). The references s should indicate client name, scope of work, Project start date.	20	Demonstrated Experience in Multi-Software Integration for Unified Dashboard	No Change		
	Aggregate Project Value (USD, excl. taxes)		Marks					

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	≤ \$100,000	7			Availability of COTS Software Solution	No Change		
	>\$100,000 and < \$500,000	13						
	>\$500,000	20						
	Each of the projects need to have signed contracts and work orders as on date of bid submission. In cases where a signed contract or work order is not available due to the pilot nature of the project, the bidder must submit a completion certificate along with evidence of the available funding. The implementation should have covered technical asset modeling and software integration of power grid systems.							
Demonstrated Experience in Multi-Software Integration for Unified Dashboard	Sole/ Lead Bidder/ any other Consortium Members must clearly indicate their level of relevant experience in the following categories (provide supporting evidence such as project descriptions, client references, or case studies): No prior experience in integrating multiple software systems into a common dashboard. → Not eligible / zero marks		BOM/BOQ	10				

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	• General experience in integrating multiple heterogeneous software applications / platforms into a single unified / common dashboard using APIs (REST/SOAP) 5 marks: • Sector-specific experience in the power / electricity / utility sector: Proven track record of successfully integrating multiple specialized power-sector software systems into a single operational / common dashboard via APIs, including at least two of the following systems: 10 marks • SCADA / EMS • GIS / network mapping tools • AMI / Meter Data Management (MDM) • OMS / ADMS / SMS • ERP / CIS / billing systems • Asset management / CMMS systems			Quality Certification	No Change		
				Financial Requirements			
				Financial Capacity of the SI	The Sole/ Lead Bidder must demonstrate financial capacity through audited financial statements showing a minimum annual turnover & Working capital in last two Financial Years	A certificate duly certified by the statutory auditor / Chartered Account of the 15 Agency mentioning the average annual turnover for last two audited financial years along with the audited financial statements. For Start-ups*, the value of	
< \$100,000	5						
≥ \$100,000 and ≤ \$500,000	10						
		> \$500,000	15				

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Availability of COTS Software Solution	Sole/ Lead Bidder/ any other Consortium Member - No demonstrated COTS-based AI-enabled solution for the Power Sector – 0 - Demonstrated COTS software solution with AI-enabled web-based applications for the Power Sector – 5 - Demonstrated COTS software solution with operational AI-enabled web applications for digitised and geotagged power utility asset management, monitoring, analytics, forecasting, or decision-support dashboards in the Power Sector – 10	Work Order / Completion Certificate / Client Certificate and citations	10		Work orders from international governmental non-profit organizations shall be considered valid for financial assessment.	financial backing received from a non-Venture Capitalist, Bank or recognised financial institution, duly certified by the statutory auditor/Chartered Accountant, shall be considered equivalent to the corresponding turnover for the purpose of awarding marks under this criterion.	
					Total		100

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Key Personnel	Professionals with qualifications in computer science, Solution Architect, AI/ML Expert ,Electrical, GIS Expert , Cybersecurity, Data Architect or related fields, and experience in building software applications, project management and other relevant areas.		CVs of Key Personnel	15		
	No. of Full-Time Professionals					Marks
	< 5					5
	≥ 5 and ≤ 10					10
	> 10					15
Quality Certification	1. The Sole/ Lead Bidder should have ISO 9001 certificate – 10 2. Valid ISO 9001 certification, along with additional relevant ISO certifications (e.g., ISO 27001 for information security, ISO 20000 for IT service management) - 15		ISO 9001 / ISO 27001 Certificate copies to be shared	15		
Financial Requirements						

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Financial Capacity of the SI	The Sole/ Lead Bidder must demonstrate financial capacity through audited financial statements showing a minimum annual turnover & Working capital in last two Financial Years		A certificate duly certified by the statutory auditor / Chartered Account of the Agency mentioning the average annual turnover for last two audited financial years along with the audited financial statements.	15									
	<table><tr><th>Turnover (USD)</th><th>Marks</th></tr><tr><td>< \$100,000</td><td>5</td></tr><tr><td>≥ \$100,000 and ≤ \$500,000</td><td>10</td></tr><tr><td>> \$500,000</td><td>15</td></tr></table>					Turnover (USD)	Marks	< \$100,000	5	≥ \$100,000 and ≤ \$500,000	10	> \$500,000	15
	Turnover (USD)	Marks											
	< \$100,000	5											
	≥ \$100,000 and ≤ \$500,000	10											
> \$500,000	15												
Work orders from international non-governmental non-profit organizations shall be considered valid for financial assessment.													
	Total			100									
Notes: page no 26 1. Eligible Projects, as referred in Technical Requirement, shall mean any project consisting of Geospatial and Technical data capture of power grid assets and a GIS-based web application to track digitised power grid assets:				Deleted									

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Note page no 26 Startups shall be governed in accordance with the applicable rules and guidelines issued under GFR and DPIIT, Government of India	*Startups shall be governed by the applicable provisions of the General Financial Rules (GFR), DPIIT guidelines. A Startup that has applied for DPIIT recognition, but whose DPIIT Recognition Certificate has not yet been issued may participate by submitting a self-declaration along with documentary proof of submission of its DPIIT recognition application. A Startup that is not having the DPIIT recognition, but holds a valid Powerthon or Government of India Hackathon Selection Certificate, may also participate by submitting the said certificate along with the bid. However, in both cases, if the bidder meets the minimum eligibility criteria and qualifies in the Technical Evaluation, it shall be required to submit a valid DPIIT Recognition Certificate prior to opening of its Financial Proposal. Failure to submit the valid DPIIT Recognition Certificate within the stipulated period shall render the bid liable for rejection.
Exit Management and Handover page no 113 of the RFP a. Exit Management & Handover: The System Integrator (SI) must execute a zero-cost Exit Management Plan upon contract expiry, termination, or if APEPDCL does not continue the subscription beyond the first year. The SI must hand over complete, editable documentation, source code, AI/ML models, schemas, and APIs to both APEPDCL and the ISA to enable independent operation.	Exit Management and Handover (Relevant to IP, Perpetual rights and source code) page no 113 of the RFP The SI shall retain ownership of its Background IP, including software, platforms, tools, algorithms, frameworks and other intellectual property developed independently of this engagement, provided that the SI furnishes appropriate IPR registrations, certificates or other documentary evidence establishing its ownership during the Design

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b. Perpetual Software Rights (Dual Ownership): The perpetual rights shall be jointly owned by ISA and APEPDCL as per details given below ISA's Rights (The Baseline Release): The ISA holds a perpetual, global, royalty-free, and sub-licensable license to the "Baseline Release" (all software, development, and configurations completed up to the end of the First Year Subscription). These rights apply even if the contract is terminated or not renewed after the first year. APEPDCL's Rights (Baseline + Future Enhancements): APEPDCL holds perpetual rights to the Baseline Release <i>plus</i> exclusive perpetual rights to all enhancements, modules, and developments made during any subsequent years they continue the platform. Post-Year 1 developments do not fall under the ISA's license without APEPDCL's written consent. c. Data Ownership (APEPDCL Exclusive): APEPDCL exclusively owns all project data, reports, and insights in perpetuity (this data is strictly excluded from the ISA's software license). Upon exit at any time, the SI must migrate all data to APEPDCL and provide written certification that all SI copies are permanently deleted. d. Licensing & Credentials: All third-party software, subscriptions, and certificates must be registered in APEPDCL's name. At exit, the SI must hand over all administrative rights, activation keys, credentials, and perpetual licenses so no component relies on the SI.	and Architecture Planning phase. Any ongoing or subsequent developments based on such Background IP that are incorporated into the solution and provide functional or operational benefits to APEPDCL shall be made available to APEPDCL for continued internal use, without transfer of ownership of the underlying Background IP. All bespoke/co-developed project-specific software, configurations, APIs, AI/ML models, documentation and other deliverables developed specifically under this engagement shall be made available to APEPDCL with perpetual rights for internal operation, maintenance and further development. Transferable third-party licences procured specifically for the project shall, wherever feasible, be registered in APEPDCL's name and handed over at Exit Management along with the necessary source code, documentation, credentials and other artefacts required for independent operation. ISA shall have appropriate rights to use the solution and project learnings for case studies, education, knowledge sharing and capacity building with ISA Member Countries, without acquiring ownership of the SI's Background IP or APEPDCL's project data. An Exit Management Committee comprising representatives of ISA, APEPDCL and the SI shall be constituted to oversee and facilitate IP, knowledge, documentation, licence, data and system handover at Exit.
Platform & Software Standards Page no 98 of the RFP	Platform & Software Standards Page no 98 of the RFP

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The proposed solution shall be delivered as an open, extensible, secure, vendor-neutral, and interoperable Digital Utility Platform that serves as the foundational layer for hosting, managing, and operating current and future utility applications. The platform shall enable the Utility to continuously enhance its capabilities by deploying independently developed applications, plugins, AI models, analytical engines, workflows, and digital services without requiring modification of the core platform, thereby preventing vendor lock-in and ensuring long-term sustainability. The platform shall support the installation and operation of third-party applications and plugins developed by external vendors, technology partners, startups, research institutions, or the Utility itself, subject to the review, approval, authorization, and governance of the DISCOM. The platform shall provide secure mechanisms for application certification, onboarding, deployment, access control, and lifecycle management to ensure that only DISCOM-approved applications and plugins are installed and granted access to platform resources, data, and services. a. Open Platform Architecture - The Ai Platform shall function as an application hosting platform (Platform-as-a-Service) providing a common runtime environment for deploying, executing and managing applications developed by the System Integrator, Utility, OEMs, startups, academia and other third-party developers. - The platform shall support a plug-and-play application framework, enabling applications, plugins, AI services, dashboards, workflows and analytical modules to be installed, upgraded, replaced or removed independently without impacting the operation of the core platform. - The platform shall provide well-documented Open APIs, SDKs, developer tools	The proposed AI/Digital Twin Solution shall be onboarded, deployed and integrated within the existing APEPDCL IT/Digital Platform and enterprise technology ecosystem. The proposed solution shall not create, establish or operate as a separate standalone Digital Utility Platform, parallel enterprise platform, or independent enterprise technology ecosystem The application shall support the continuous enhancement of Utility capabilities through integration with independently developed applications, plugins, AI models, analytical engines, workflows and digital services, without requiring changes to the core application for each such integration. Such integration shall be enabled through standardised integration mechanisms and protocols, including IES, thereby promoting interoperability, reducing dependency on any particular technology or vendor, and supporting long-term sustainability. The application shall support the seamless integration of third-party applications, plugins, AI services and other digital components developed by external vendors, technology partners, startups, research institutions or the Utility, subject to the review, approval, authorisation and governance mechanisms prescribed by the DISCOM. The application shall provide secure mechanisms for validation, certification, onboarding, integration, access control, monitoring and lifecycle management of such applications and components, ensuring that only DISCOM-approved applications and components are

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and event-driven interfaces to enable rapid development and seamless integration of new applications. iv. Applications hosted on the platform may be developed using industry-standard programming languages and frameworks, provided they comply with the published APIs, SDKs and interoperability requirements. b. Common Data & Analytics Platform i. The platform shall provide a shared enterprise data layer based on a common information model to ensure that all hosted applications access a single source of truth rather than maintaining independent databases. ii. Applications shall securely share and reuse non exhaustive to Asset and network data, GIS layers and spatial information, Time-series operational data, SCADA/IoT measurements, Consumer and DER information, Simulation outputs, Forecasts and optimization results, Events, alarms and notifications iii. Analytics, simulations and recommendations generated by one hosted application shall be reusable by other authorized applications through standard APIs without requiring duplicate data storage or processing. The platform shall support centralized metadata management, data lineage, version control and governance to ensure data consistency and traceability. c. Application Ecosystem & Marketplace i. The platform shall support an extensible ecosystem where new utility applications can be deployed throughout the platform lifecycle without	permitted to access the application's resources, data, interfaces and services. a. Open Architecture i. The AI solution shall be capable of being deployed and integrated within the existing and proposed APEPDCL IT environment, with appropriate runtime, development, integration, security, monitoring and lifecycle-management capabilities. The solution shall support integration with applications and digital services developed by the System Integrator, Utility, OEMs, startups, academia and other authorised third-party developers. ii. The solution shall support a modular and extensible architecture for integration of applications, plugins, AI services, dashboards, workflows and analytical modules. Such components shall be capable of being independently integrated, configured, upgraded, replaced or decommissioned, without adversely affecting the core functionality, stability or availability of the solution. iii. The solution shall provide well-documented and standards-based Open APIs, SDKs, developer tools and event-driven interfaces to facilitate application development, integration and interoperability, and to enable the rapid incorporation of new applications and digital services. iv. Applications and digital services integrated with the solution may be developed using industry-standard programming languages, frameworks and technologies, subject to compliance with the published APIs, SDKs, security standards, interoperability

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modification of the core platform. ii. The platform shall provide a centralized Application Repository/App Marketplace for secure installation, upgrade, configuration, licensing, monitoring and removal of applications and plugins. iii. The platform shall support application version management, dependency management and backward compatibility. iv. Applications shall declare their required permissions and authorized data access before installation. v. Installation, upgrade or removal of applications shall not require shutdown of the core platform. vi. The SI shall ensure that upgrades to the core platform do not adversely impact DISCOM-approved third-party applications, plugins, APIs or integrations. Where interface changes are unavoidable, the SI shall maintain backward compatibility or provide migration tools, documentation and technical support to ensure uninterrupted operation of approved applications. d. Open Standards & Interoperability i. The platform shall comply with internationally accepted open standards to support the Open Digital Twin objective and enable interoperability across utility systems. ii. The platform shall support industry standards including, where applicable IEC 61968/61970 (CIM), IEC 61850, IEC 60870-5-104, DNP3, OGC Standards (WMS/WFS), REST APIs, GraphQL, MQTT, OPC-UA iii. ISO/ANSI compliant interfaces, POSIX/X/Open compliant operating environments (where applicable) iv. The platform shall seamlessly integrate non exhaustive but with GIS, SCADA,	requirements and applicable governance mechanisms prescribed by APEPDCL. b. Common Data & Analytics Platform i. The applications shall provide a enterprise data layer based on a common information model to ensure that all integrated applications access a single source of truth rather than maintaining independent databases. ii. Applications shall securely share and reuse non-exhaustive asset and network data, GIS layers and spatial information, Time-series operational data, SCADA/IoT measurements, Consumer and DER information, Simulation outputs, Forecasts and optimisation results, Events, alarms and notifications iii. Analytics, simulations and recommendations generated by one hosted application shall be reusable by other authorised applications through standard APIs without requiring duplicate data storage or processing. c. Application Ecosystem & Marketplace i. The application shall support an extensible ecosystem where new utility applications can be integrated throughout the application lifecycle without modification of the core architecture. ii. The application shall have a capability for securely integrated applications and plugins, with appropriate controls for version management, access, licensing, security and lifecycle

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ADMS, OMS, EMS, MDMS, AMI, ERP, CIS, Billing Systems, Asset Management Systems, DERMS, Renewable Energy Platforms, EV Charging Management Systems IoT platforms and future enterprise applications. The platform shall remain hardware-, operating system-, database- and cloud-agnostic. The platform shall support industry-standard relational databases including Oracle, PostgreSQL/PostGIS, Microsoft SQL Server, MySQL or equivalent databases. e. Security, Isolation & System Hardening i. The operating system shall be hardened in accordance with internationally recognized cybersecurity best practices and applicable Government of India cybersecurity guidelines. ii. Hosted applications shall execute within isolated runtime environments (containers or equivalent sandboxing mechanisms) to prevent interference between applications. iii. Application binaries, configuration files, logs and operational databases shall be logically or physically segregated. iv. Wherever applicable, application software, operating system files and Digital Twin operational data shall reside on separate storage volumes or disk partitions to minimize the risk of cross-contamination during cybersecurity incidents and facilitate secure recovery. v. All APIs shall implement secure authentication, authorization, encryption, audit logging and role-based access control. f. Platform Evolution, Upgrades & Technology Refresh i. The SI shall ensure that the Digital Utility Platform remains technologically	- management iii. The application shall support version control, dependency management and backward compatibility. iv. Applications shall declare their required permissions and authorised data access before integration. v. The SI shall ensure that upgrades to the application do not adversely impact DISCOM-approved third-party applications, plugins, APIs or integrations. Where interface changes are unavoidable, the SI shall maintain backward compatibility or provide migration tools, documentation and technical support to ensure uninterrupted operation of approved applications. d. Open Standards & Interoperability i. The application shall comply with internationally accepted open standards to support the Open Digital Twin objective and enable interoperability across utility systems. ii. The application shall support industry standards including, where applicable IEC 61968/61970 (CIM), IEC 61850, IEC 60870-5-104, DNP3, OGC Standards (WMS/WFS), REST APIs, GraphQL, MQTT, OPC-UA iii. ISO/ANSI compliant interfaces, POSIX/X/Open compliant operating environments (where applicable) iv. The application shall seamlessly integrate, but not be limited to, GIS, SCADA, ADMS, OMS, EMS, MDMS, AMI, ERP, CIS, Billing Systems, Asset Management Systems, DERMS, Renewable

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current throughout the Contract Period by providing periodic upgrades to the platform software, middleware, APIs, SDKs, databases, application frameworks and supporting components. ii. The SI shall periodically upgrade AI/ML models, analytical engines, Digital Twin capabilities and optimization algorithms to leverage advancements in technology and improve prediction accuracy, simulation capability and operational efficiency. iii. The SI shall provide all security patches, vulnerability remediation, dependency updates, operating system hardening, encryption upgrades and cybersecurity enhancements necessary to address newly discovered threats and vulnerabilities. iv. The platform shall remain compatible with new releases of operating systems, databases, browsers, cloud platforms, mobile operating systems and integrated enterprise applications. v. The SI shall support adoption of emerging utility standards, communication protocols and interoperability frameworks released during the contract period. vi. All upgrades shall preserve backward compatibility with existing applications, integrations, plugins and historical data unless otherwise approved by the DISCOM. vii. Major upgrades shall be tested, documented and deployed only after approval from the DISCOM, with appropriate rollback procedures to ensure business continuity. g. Vendor-Neutral Extensibility i. The Utility shall have unrestricted rights to deploy, operate, replace and integrate	Energy Platforms, EV Charging Management Systems, IoT platforms and future enterprise applications. The application shall remain hardware-, operating system-, database-, and cloud-agnostic. The application shall support industry-standard relational databases, including Oracle, PostgreSQL/PostGIS, Microsoft SQL Server, MySQL or equivalent databases. e. Security, Isolation & System Hardening i. The operating system shall be hardened in accordance with internationally recognized cybersecurity best practices and applicable Government of India cybersecurity guidelines. ii. Hosted applications shall execute within isolated runtime environments (containers or equivalent sandboxing mechanisms) to prevent interference between applications. iii. Application binaries, configuration files, logs and operational databases shall be logically or physically segregated. iv. Wherever applicable, application software, operating system files and Digital Twin operational data shall reside on separate storage volumes or disk partitions to minimize the risk of cross-contamination during cybersecurity incidents and facilitate secure recovery. v. All APIs shall implement secure authentication, authorization, encryption, audit logging and role-based access control. f. Application Evolution, Upgrades & Technology Refresh

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applications developed by any vendor throughout the platform lifecycle. ii. Future AI models, optimization engines, analytics modules and business application shall be deployable without requiring redevelopment of the core platform. iii. The platform architecture shall support hybrid cloud, private cloud, public cloud and on-premises deployments without functional limitations. h. Data Portability & No Vendor Lock-in i. The Utility shall retain complete ownership of all data, metadata, configurations, Digital Twin models, AI models, simulation outputs, dashboards and analytical results generated during the project. ii. All data and application interfaces shall be based on open, documented and non-proprietary standards to ensure unrestricted export, migration and reuse. iii. The Utility shall be able to migrate applications, data and analytical assets to another platform or System Integrator without dependency on proprietary technologies. iv. No proprietary licensing mechanism shall prevent the Utility from deploying future third-party applications on the platform.	i. The SI shall ensure that the Digital Utility application remains technologically current throughout the Contract Period by providing periodic upgrades to the application software, middleware, APIs, SDKs, databases, application frameworks and supporting components. ii. The SI shall periodically upgrade AI/ML models, analytical engines, Digital Twin capabilities and optimization algorithms to leverage advancements in technology and improve prediction accuracy, simulation capability and operational efficiency. iii. The SI shall provide all security patches, vulnerability remediation, dependency updates, operating system hardening, encryption upgrades and cybersecurity enhancements necessary to address newly discovered threats and vulnerabilities. iv. The application shall remain compatible with new releases of operating systems, databases, browsers, cloud platforms, mobile operating systems and integrated enterprise applications. v. The SI shall support adoption of emerging utility standards, communication protocols and interoperability frameworks released during the contract period. vi. All upgrades shall preserve backward compatibility with existing applications, integrations, plugins and historical data unless otherwise approved by the DISCOM.

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	vii. Major upgrades shall be tested, documented and deployed only after approval from the DISCOM, with appropriate rollback procedures to ensure business continuity. g. Vendor-Neutral Extensibility i. The Utility shall have unrestricted rights to deploy, operate, replace and integrate applications developed by any vendor throughout the platform lifecycle. ii. Future AI models, optimization engines, analytics modules and business applications shall be deployable without requiring redevelopment of the core platform. iii. The application architecture shall support the integration of all the applications hosted on hybrid cloud, private cloud, public cloud and on-premises without functional limitations. h. Data Portability & No Vendor Lock-in i. The Utility shall retain complete ownership of all data, metadata, configurations, Digital Twin models, AI models, simulation outputs, dashboards and analytical results generated during the project. ii. All data and application interfaces shall be based on open, documented and non-proprietary standards to ensure unrestricted export, migration and reuse. iii. The Utility shall be able to migrate applications, data and analytical assets to another platform or System Integrator

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	without dependency on proprietary technologies. iv. No proprietary licensing mechanism shall prevent the Utility from and integrating future third-party applications.
Integration with Discoms Data Systems (Added) page no 75 of the RFP	Integration with Discoms Data Systems (Added) page no 75 of the RFP All integrations shall comply with the IES specifications available at: https://ies.recindia.org.in/docs

Annexure: 2 Server CAPACITY SIZING page no 139 of the RFP

Bidders shall mandatorily provide the server sizing details in the format specified below for each implementation. Bidders may add additional line items, if required, to justify their proposed sizing. The server sizing requirements have been designed considering the expected quantity of data available from smart meters, DERs, and other integrated systems during each implementation.

The bidders shall refer to the smart meter deployment and data availability details provided in the RFP for APEPDCL. It is anticipated that smart meter penetration at both the consumer and feeder levels, along with other DER integrations, will increase significantly in the coming years. Therefore, the proposed infrastructure shall be scalable and capable of supporting future expansion without requiring major architectural changes.

Accordingly, the server sizing and capacity planning have been structured on a basis to ensure optimal resource utilisation, cost-effectiveness, and seamless scalability throughout the project lifecycle.

Submission of the server sizing details in the prescribed format is mandatory.

Failure to furnish the required information, or submission of incomplete or non-compliant details, shall render the bid non-responsive and liable for rejection.

SN	Items Description	vCPU/GPU Nos	RAM – In GB	Storage (SSD) – In GB	Justifications for sizing
1	Application Servers				
2	DB Servers				
3	Primary Storage: SSD Drive Storage (SAN/NAS/ Local)				
4	Archive Storage: SSD Drive Storage (SAN/NAS/ Local)				
5	GPU: NVIDIA A100 (40/80GB)				

Annexure: 2 Server CAPACITY SIZING page no 139 of the RFP

Annexure 2: Server CAPACITY SIZING. Bidders shall mandatorily provide the server sizing details in the format specified below (S.No. 1 to 4) for each implementation. Bidders may add additional line items, if required, to justify their proposed sizing. Whereas, for S.No. 5 & 6, the line items list the maximum resources the utility can provision. If the Bidder assumes these resources are insufficient to meet the application's workload, the Bidder must provision additional resources at its own cost. The server sizing requirements are to be designed based on the expected quantity of data available from smart meters, DERs, and other integrated systems during each implementation. The bidders shall refer to the smart meter deployment and data availability details provided in the RFP for APEPDCL. Smart meter penetration at both the consumer and feeder levels, along with other DER integrations, is expected to increase significantly in the coming years. Therefore, the proposed infrastructure shall be scalable and capable of supporting future expansion without requiring major architectural changes.

Accordingly, the server sizing and capacity planning have been structured on a basis to ensure optimal resource utilisation, cost-effectiveness, and seamless scalability throughout the project lifecycle. Submission of the server sizing details in the prescribed format is mandatory. Failure to furnish the required information, or submission of incomplete or non-compliant details, shall render the bid non-responsive and liable for rejection.

SN	Items Description	vCPU/GPU Nos	RAM – In GB	Storage (SSD) – In GB	Justifications for sizing
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Existing Clause						Modified/Amended/Additions in the clauses					
Bid Submission Extensions Corrigendum-II: Extension of Bid Submission Deadline issued on 09 th Sept 2026						Bid Submission Extensions ISA has favourably considered the extension requests received from bidders. The new bid submission deadline is October 16, 2026 – 11:59 PM (Indian Standard Time)					
6	Associated compute for GPU: Server					1	Application Servers				
						2	DB Servers				
Based on the RFP deliverables and SLA, the component-wise sizing of servers In addition to the overall server sizing specified above, bidders shall provide a detailed server sizing assessment for each major AI-enabled functionality, analytical module, and processing task covered under the Scope of Work of this RFP. While estimating requirements, bidders may make reasonable assumptions about the expected workload, including the number of concurrent users, role-based access patterns, and the simultaneous execution of AI models. All such assumptions shall be clearly justified. The cumulative resource requirements derived from these individual functional assessments shall be consistent with and adequately justify the overall server sizing proposed in the summary table above. This format allows bidders to fill in the sizing based on their architecture and assumptions. Bidders may remove or add any line item with proper justifications.						3	Primary Storage: SSD Drive Storage (SAN/NAS/ Local)				
						4	Archive Storage: SSD Drive Storage (SAN/NAS/ Local)				
						5	GPU: NVIDIA	APEPDCL will provide an aggregate GPU memory capacity of approximately 960 GB, distributed across multiple GPU servers, to support AI/ML workloads			
						6	Associated compute for GPU: Server				

Existing Clause					Modified/Amended/Additions in the clauses
Bid Submission Extensions Corrigendum-II: Extension of Bid Submission Deadline issued on 09 th Sept 2026					Bid Submission Extensions ISA has favourably considered the extension requests received from bidders. The new bid submission deadline is October 16, 2026 – 11:59 PM (Indian Standard Time)
Workload Pool	vCPU/GPU No's	RAM – In GB	Storage (SSD) – In GB	Workload Pool Basis / Activities Covered	In the event that any additional deployments, processing capacity, storage, memory, networking or other computing resources are required beyond the specified configuration for successful implementation and operation of the proposed solution, such additional resources shall be arranged and provided by the bidder at its own cost, including through cloud infrastructure or other suitable infrastructure, as applicable. For the remaining line items, the bidders shall propose the appropriate supporting infrastructure configurations based on the technical architecture, sizing and resource requirements of their proposed solution. Such configurations shall be treated as indicative recommendations to APEPDCL for planning and sourcing/procurement of the required infrastructure and shall not form part of the technical or financial evaluation of the bids. The bidder shall remain responsible for ensuring that the proposed solution performs in accordance with all requirements of the RFP, irrespective of the indicative infrastructure configuration recommended. During the demonstration of the proposed solution, the Bidder shall justify and substantiate the server sizing recommended in Annexure-2, including the basis and assumptions considered for arriving at the proposed configuration. Based on the RFP deliverables and SLA, the component-wise sizing of servers, in addition to the overall server sizing specified above, bidders shall provide a detailed server sizing assessment for each
Ingestion & Stream Processing				Smart meter data ingestion, SCADA telemetry, IoT/DER data ingestion, event streaming, message queue processing, ETL pipelines and real-time data acquisition.	
Application / API Tier				Web application services, REST APIs, user authentication, business logic, workflow management, dashboards, report generation and user session management.	
GIS / Map & Tile Server				GIS map rendering, vector/raster tile services, spatial visualisation, network maps, feeder/DT/consumer asset visualisation and map-based analytics.	
Analytics (OLAP / Time-Series Store)				Time-series analytics, KPI dashboards, historical data analysis, forecasting, trend analysis, BI reporting and analytical query execution.	
Network Analysis / Load Flow Engine				Load flow analysis, power system studies, hosting capacity analysis, contingency analysis, voltage profile analysis and network optimisation.	
What-if / Simulation Pool				Digital twin simulations, scenario analysis, DER integration studies, outage simulations, AI-assisted planning and predictive operational simulations.	
OLTP Database (PostgreSQL/PostGIS)				Transaction database, GIS database, asset registry, consumer records, workflow database, metadata repository and operational data management.	
Integration / ESB / API Gateway				Integration with GIS, SCADA, ADMS, OMS, MDMS, AMI, CIS, Billing, ERP, Asset Management, third-party APIs and enterprise middleware.	
Cache / Session Tier (Redis)				Session management, query caching, dashboard caching, map tile caching, application acceleration and temporary data storage.	
AI Serving Host (CPU Side of GPU Nodes)				LLM serving, Retrieval Augmented Generation (RAG), vector search, AI agent orchestration, prompt processing, model inference coordination and tool execution.	

Existing Clause	Modified/Amended/Additions in the clauses
Bid Submission Extensions Corrigendum-II: Extension of Bid Submission Deadline issued on 09 th Sept 2026	Bid Submission Extensions ISA has favourably considered the extension requests received from bidders. The new bid submission deadline is October 16, 2026 – 11:59 PM (Indian Standard Time)
	major AI-enabled functionality, analytical module, and processing task covered under the Scope of Work of this RFP. While estimating requirements, bidders may make reasonable assumptions about the expected workload, including the number of concurrent users, role-based access patterns, and the simultaneous execution of AI models. All such assumptions shall be clearly justified. The cumulative resource requirements derived from these individual functional assessments shall be consistent with and adequately justify the overall server sizing proposed in the summary table above. This format allows bidders to fill in the sizing based on their architecture and assumptions. Bidders may remove or add any line item with proper justifications. This format allows bidders to fill in the sizing based on their architecture and assumptions. Bidders may remove or add any line item with proper justifications.

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Bid Submission Extensions Corrigendum-II: Extension of Bid Submission Deadline issued on 09 th Sept 2026	Bid Submission Extensions ISA has favourably considered the extension requests received from bidders. The new bid submission deadline is October 16, 2026 – 11:59 PM (Indian Standard Time)				
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