

Specifications

Template Title: A - ICT Software

Item Type: Services

Item Type: Local

Items	UOM	Frequency / Units of Measure	No. of Units Daily Measure	No. of Units Monthly Size	Quantity
	Specifications				
A-1-Certificate Security Digital	Activity unit	1			1
	A-1-1-Type SSL Certificate Licence				
	A-1-2-Quantity 1 unit				
	A-1-3-Brands and Models Submit n brands and models that will supplied				
	A-1-4-Authenticity Verifying that the software is genuine				
	A-1-5-License is valid throughout the project period				
	A-1-6-License period 3 years				
	A-1-7-Minimum Warranty Period 3 years				
	A-1-8-Scope of Work The bidder must carry out the works/activities procurement, installation, configuration, commissioning and others that related so that the license can be used perfectly as in Table 1: Scope of Work and Table 2: Technical Specifications.				
A-2-License Subscription Software TreeAge Pro	Activity unit	1			1
	A-2-1-Type of subscription license Time-li mited License				
	A-2-2-Number of Single-user users				
	A-2-3-Date of requirement Before 10-Jun-26				
	A-2-4-License validity period 3 years				
	A-2-4-Scope of Work The bidder must carry out the works/activities procurement, installation, configuration, commissioning and others that related so that the license can be used perfectly as in Table 1: Scope of Work and Table 2: Technical Specifications.				
A-3-License Subscription Software STATUS	Activity unit	1			1
	A-3-1-Type of subscription license Time-li mited License				
	A-3-2-Number of Single-user users				

	A-3-3-Date of requirement Before 19-Jun-26
	A-3-4-License validity period 3 years
	A-3-5-Scope of Work The bidder must carry out the procurement, installation, configuration, commissioning and other related works/activities so that the license can be used perfectly as in Table 1: Scope of Work and Table 2: Technical Specifications.

Template Title: B - Cloud Computing

Item Type: Services

Item Type: Local

Items	UOM	Frequency / Units Size	No. of Units Size One day	No. of Units Size One month	Quantity
	Specifications				
B - Subscription Services Computing Cloud	Activity unit	1			1
	B-1-Infrastructure as a Service (IaaS) Subscription Bidders must subscribe to the CSP/MSP Services under MyGovCloud@CFA as per Table 1: Scope of Work and Table 2: Technical Specifications for 33 months.				
	B-1-1-Bidders must subscribe to Infrastructure as a Service (IaaS) components that meet the specifications in Appendix 6: Minimum Components of Cloud Computing Services.				
	B-1-2-Bidders must state the BRAND and MODEL that meets the Cloud API Gateway service specifications.				
	B-1-3-Bidders must state the BRAND and MODEL that meets the Cloud Block Storage (CBS) service specifications.				
	B-1-4-Bidders must state the BRAND and MODEL that meets the Disaster Recovery Solution: Replication service specifications.				
	B-1-5-Bidders must state the BRAND and MODEL that meets the specifications of the Cloud Virtual Machine (CVM) service for the first to third years.				
	B-1-6-Bidders must state the BRAND and MODEL that meets the Cloud Load Balancer service specifications.				
	B-1-7-Bidders must state the BRAND and MODEL of the				

	meets the specifications of the Cloud Storage Intelligent Tiering service.
	B-1-8-Bidders must state the BRAND and MODEL that meets the Data Transfer Services specifications.
	B-1-9-Bidders must state the BRAND and MODEL that meets the specifications of the Cloud DNS Web service.
	B-1-10-Bidders must state the BRAND and MODEL that meets the Cloud Content Delivery Network service specifications.
	B-1-11-Bidders must state the BRAND and MODEL that meets the Cloud Web Application Firewall service specifications.
	B-2-Platform as a Service (PaaS) Subscription Bidders must subscribe to the CSP/ MSP Services under MyGovCloud@CFA as per Table 1: Scope of Work and Table 2: Technical Specifications for 33 months.
	B-2-1-Bidders must subscribe to Platform as a Service (PaaS) components that meet the specifications in Appendix 6: Minimum Components of Cloud Computing Services.
	B-2-2-Bidders must state the BRAND and MODEL that meets the MySQL RDBMS Cloud service specifications.
	B-2-3-Bidders must state the BRAND and MODEL that meets the specifications of the High-performance cache node instance for in-memory service.
	B-2-4-Bidders must state the BRAND and MODEL that meets the specifications of the Cloud - Containerization - Serverless Compute Engine service.
	B-2-5-Bidders must state the BRAND and MODEL that meets the specifications of the Cloud Monitoring and Observability service.
	B-2-6-Bidders must state the BRAND and MODEL that meets the Cloud Event Trail service specifications.
	B-2-7-Bidders must state the BRAND and MODEL that meets the Cloud Security Aggregation and Compliance Dashboard service specifications.
	B-2-8-Bidders must state the BRAND and MODEL that meets the Cloud Threat Detection service specifications.
	B-2-9-Bidders must state the BRAND and MODEL that meets the specifications of the Cloud-based Hardware Security Module (HSM) service.
	B-2-10-Bidders must state the BRAND and MODEL that meets the Cloud Configuration/Policy service specifications.

	B-2-11-Bidders must state the BRAND and MODEL that meets the Cloud Master Key service specifications.
	B-2-12-Bidders must state the BRAND and MODEL that meets the specifications of the Cloud Data Streams/Processing service.
	B-2-13-Bidders must state the BRAND and MODEL that meets the specifications of the Cloud Secret Manager/Vault service.
	B-2-14-Bidders must state the BRAND and MODEL that meets the specifications of the CI/CD service that is active for at least 10 units per month.
	B-2-15-Bidders must state the BRAND and MODEL that meets the Compute On-demand service specifications.
	B-2-16-Bidders must state the BRAND and MODEL that meets the specifications of the Cloud DDoS Protection service.
	B-2-17-Bidders must state the BRAND and MODEL that meets the specifications of the Cloud Serverless Data Integration service.
	B-2-18-Bidders must state the BRAND and MODEL that meets the specifications of the Cloud Managed Data Warehouse service.
	B-3-Software as a Service (SaaS) Subscription Bidders must subscribe to the CSP/ MSP Services under MyGovCloud@CFA as per Table 1: Scope of Work and Table 2: Technical Specifications for 33 months.
	B-3-1-Bidders must subscribe to Software as a Service (SaaS) components that meet the specifications in Appendix 6: Minimum Components of Cloud Computing Services.
	B-3-2-Bidders must state the BRAND and MODEL that meets the specifications of the Cloud-Based Business Analytics Software (Cloud-scale Business Intelligence)
	B-4-Subscription of Cloud Computing Professional Services Bidders must subscribe to the CSP/MSP Services under MyGovCloud@CFA as per Table 1: Scope of Work and Table 2: Technical Specifications for 33 months.
	B-4-1-Bidders must subscribe to Cloud Computing Professional Services that meet the specifications in Appendix 6: Minimum Components of Cloud Computing Services.
	B-5-Cloud Computing Management Service Subscription Bidders must subscribe to the CSP/MSP Service under MyGovCloud@CFA as per Table 1: Scope of Work and Table 2: Technical Specifications for 33 months.
	B-5-1-Bidders must subscribe to Management Services

Cloud Computing that meets the specifications in Appendix 6: Minimum Components of Cloud Computing Services.

Template Title: C - Systems Development

Item Type: Services

Item Type: Local

Items	UOM	Frequency /	No. of Units	No. of Units	Quantity
		Units Size	Size One day	Size One month	
Specifications					
C-1-Module Development Patient Data Management (Patient Data Management)	Activity unit	1			1
	C-1-1-Functional Specification Bidders must understand the functions and work processes of the modules as listed in Appendix 5: List of Modules and Submodules				
	C-1-2-Business Requirements Study (BRS), System Requirements Study (SRS), and System Design Study (SDS) Bidders must submit approved BRS, SRS and SDS reports to the agency as a reference for monitoring the development phase.				
	C-1-3-Development Period The development of the Patient Data Management Module is expected to take no more than 3 months.				
	C-1-4-Acceptance Testing The bidder must conduct UAT and PAT upon completion of module development work. UAT and PAT certificates must be issued when the test passes 100%.				
C-2-Module Development Case-Based Costing	Activity unit	1			1
	C-2-1-Functional Specification Bidders must understand the functions and work processes of the modules as listed in Appendix 5: List of Modules and Submodules				
	C-2-2-Business Requirements Study (BRS), System Requirements Study (SRS), and System Design Study (SDS) Bidders must submit approved BRS, SRS and SDS reports to the agency as a reference for monitoring the development phase.				

	C-2-3-Development Period The development of the Case Based Costing Module is expected to take no more than 3 months.			
	C-2-4-Acceptance Testing The Bidder must conduct UAT and PAT upon completion of the module development work. UAT and PAT certificates must be issued when the test passes 100%.			
C-3-Module Development DRG classification (DRG Grouper)	Activity unit	1		1
	C-3-1-Functional Specification The bidder must understand the functions and work processes of the modules as listed in Appendix 5: List of Modules and Submodules			
	C-3-2-Business Requirements Study (BRS), System Requirements Study (SRS), and System Design Study (SDS) Bidders must submit approved BRS, SRS and SDS reports to the agency as a reference for monitoring the development phase.			
	C-3-3-Development Period The development of the DRG Classification Module (DRG Grouper) is expected to take no more than 2 months.			
	C-3-4-Acceptance Testing The bidder must conduct UAT and PAT upon completion of module development work. UAT and PAT certificates must be issued when the test passes 100%.			
C-4-Module Development DRG Output (DRG Output)	Activity unit	1		1
	C-4-1-Functional Specification Bidders must understand the functions and work processes of the modules as listed in Appendix 5: List of Modules and Submodules			
	C-4-2-Business Requirements Study (BRS), System Requirements Study (SRS), and System Design Study (SDS) Bidders must submit approved BRS, SRS and SDS reports to the agency as a reference for monitoring the development phase.			
	C-4-3-Development Period The development of the DRG Output Module (DRG Output) is expected to take no more than 2 months.			
	C-4-4-Acceptance Testing The bidder must conduct UAT and PAT upon completion of module development work. UAT and PAT certificates must be issued when the test passes 100%.			

C-5-Module Development Artificial Intelligence and Executive Information System (Artificial Intelligence (AI) Executive Information System (EIS))	Activity unit	1			1
	C-5-1-Functional Specification Bidders must understand the functions and work processes of the modules as listed in Appendix 5: List of Modules and Submodules				
	C-5-2-Business Requirements Study (BRS), System Requirements Study (SRS), and System Design Study (SDS) Bidders must submit approved BRS, SRS and SDS reports to the agency as a reference for monitoring the development phase.				
	C-5-3-Module Development Period Artificial Intelligence and Executive Information Systems (Artificial Intelligent (AI) Executive Information System (EIS)) is expected to be no more than 2 months.				
	C-5-4-Acceptance Testing The Bidder must conduct UAT and PAT upon completion of the module development work. UAT and PAT certificates must be issued when the test passes 100%.				
C-6-Module Development Helpdesk	Activity unit	1			1
	C-6-1-Functional Specification Bidders must understand the functions and work processes of the modules as listed in Appendix 5: List of Modules and Submodules				
	C-6-2-Business Requirements Study (BRS), System Requirements Study (SRS), and System Design Study (SDS) Bidders must submit approved BRS, SRS and SDS reports to the agency as a reference for monitoring the development phase.				
	C-6-3-Development Period The development of the Helpdesk Module is expected to take no more than 2 months.				
	C-6-4-Acceptance Testing The Bidder must conduct UAT and PAT upon completion of the module development work. UAT and PAT certificates must be issued when the test passes 100%.				
C-7-Module Development System Administrator (System settings)	Activity unit	1			1
	C-7-1-Functional Specification The bidder must understand the functions and work processes of the modules as listed in Appendix 5: List of Modules and Submodules				
	C-7-2-Business Needs Study (BRS), Needs Study				

	System (SRS), and System Design Study (SDS) Bidders must submit approved BRS, SRS and SDS reports to the agency as a reference for monitoring the development phase.				
	C-7-3-Development Period The development of the System Administrator Module (System settings) is expected to take no more than 2 months.				
	C-7-4-Acceptance Testing The Bidder must conduct UAT and PAT upon completion of the module development work. UAT and PAT certificates must be issued when the test passes 100%.				
C-8-Acceptance Testing Last (FAT)	Activity unit	1			1
	C-8-1-Final Acceptance Testing (FAT) Bidders must conduct FAT after go-live. Final payment will only be made when FAT passes 100%.				

Template Title: D - ICT Services

Item Type: Services

Item Type: Local

Items	UOM	Frequency / Units Size	No. of Units Size One day	No. of Units Size One month	Quantity
	Specifications				
D-1-Management Project	Activity unit	1			1
	D-1-1-Development Phase The bidder's project entry must submit an organizational chart and the role of each member during this phase.				
	D-1-2-Guarantee Phase Bidder support personnel must be easily accessible in the event of an error in the system				
D-2-Service Data Migration	Activity unit	1			1
	D-2-1-Specifications Willing to carry out data migration from the MyCMX system to the National DRG system with the specifications in Table 2: Technical Specifications.				

D-3-Management Change	Activity unit	1			1
	D-3-1-Specifications Willing to carry out change management by complying with the specifications in Table 2: Technical Specifications.				
	D-3-2-Added value Suggest appropriate added value. ('appropriate' means relevant to the training objectives).				
D-4-Training Casemix	Activity unit	1			1
	D-4-1-Specifications Willing to conduct casemix training by complying with the specifications in Table 2: Technical Specifications.				
	D-4-2-Added value Suggest appropriate added value. ('appropriate' means relevant to the training objectives).				
D-5-Training User	Activity unit	1			1
	D-5-1-Specifications Willing to conduct User Training in compliance with the specifications in Table 2: Technical Specifications.				
	D-5-2-Added value Suggest appropriate added value. ('appropriate' means relevant to the training objectives).				
D-6-Training Transfer Technology/ Knowledge (Transfer of Technology/ Knowledge)	Activity unit	1			1
	D-6-1-Specifications Willing to conduct Technology/Knowledge Transfer Training by complying with the specifications in Table 2: Technical Specifications.				
	D-6-2-Added value Suggest appropriate added value. ('appropriate' means relevant to the training objectives).				
D-7 Security Posture Assessment (SPA)	Activity unit	1			1
	D-7-1-Third party company qualifications Ensure that the company has at least a professional certificate such as CISSP, CISM, CEH, OSCP or equivalent.				
	D-7-2-Third party company experience Ensure the company has more than 3 years of experience in system security assessment in cloud environments.				
	D-7-3-Compliance Ensure that the company complies with: (a) ISO/IEC 27001: Information Security Management Systems (ISMS). (b) NIST Cybersecurity Framework. (c) CIS Controls."				
	D-7-4-Location of assessment The assessment covers all components of the National DRG system, especially: a) Database				

	b) Integration c) Endpoint, firewall, load balancer and support security system."
	D-7-5-Assessment tools Use a combination of manual automated scanning tools recognized by the industry such as Nessus, OpenVAS, Qualys or equivalent.
	D-7-6-Assessment Components Conduct the assessment as follows: a) Configuration Review: Ensure server, database, API and cloud configuration is secure. b) Vulnerability Assessment: Identify weaknesses (security gaps) that can be exploited. c) Penetration Testing (Controlled): Conducting attack simulation tests to test system resilience. d) Access Control Audit: Assessing access control management, user rights and identity authentication (MFA). e) Compliance Check: Ensuring compliance with government security policies, DKICT KKM and international standards.
	D-7-7-Frequency At least once during the contract period
	D-7-8-Technical Report Produce technical reports (technical findings) which are not limited to: a) List of vulnerabilities and risk levels. b) Risk analysis of mitigation proposals. c) "Status of compliance with standards."