No. APFBC/PMU/Phase-II/Cloud Services/2024/350/58   Dated Guwahati the 10th September, 2024

CORRIGENDUM

(Relating to IFB No. APFBC/PMU/Phase-II/Cloud Services/2024/350/7, dated the 10th August 2024)

With reference to IFB No. APFBC/PMU/Phase-II/Cloud Services/2024/350/7, dated 10th August 2024, issued for the 'Procurement of Cloud Hosting Services for the Assam Project on Forest and Biodiversity Conservation-Phase II,' the following amendment is hereby issued:

Section	Clause	Page no.	Original provision	Amendment
Section VII – Schedule of Requirements	1. Scope of Work, List of Services and Delivery Schedule-Scope of Work for Cloud Services Hosting Project	57	1. Infrastructure Provisioning & Setup: o Provision and configure scalable and secure cloud resources based on the technical specifications mentioned in Section VII to host FMIS, PMIS, GIS and related applications. o Ensure high availability, disaster recovery, and auto-scaling capabilities. o DR site failover testing. DR site with similar specifications would be hosted on premise or at state data centre by the department.	1. Infrastructure Provisioning & Setup: o Provision and configure scalable and secure cloud resources based on the technical specifications mentioned in Section VII to host FMIS, PMIS, GIS and related applications. o Ensure high availability, disaster recovery, and auto-scaling capabilities. o Deleted
-Do-	2. Technical Specifications for Cloud Services	61	4. Cloud Service Provider offers persistent block-level storage volumes for use with compute instances	Deleted
-Do-	2. Technical Specifications for Cloud Services	61	17. CSP has no objection in case the end user Dept. intends to do a review at their DC site where the proposed GIS workload has been hosted	Deleted
-Do-	5.Service Level Agreement and Penalties-5.3 SLA Table	68	8. Business Continuity: Storing backup in separate seismic zone- Performing two BCP drills on annual basis to validate backup based on the BCP drill. Temporary Production environment will be setup with desired capacity resources which can sustain production load and data backups will be restored to run Production Operations during BCP drill window. Tentatively 1-2 days will be invested to setup entire environment and same will be charged back as per usage of respective resources	8. Business Continuity: Storing backup in separate seismic zone- Performing **three** BCP drills on annual basis to validate backup based on the BCP drill. Temporary Production environment will be setup with desired capacity resources which can sustain production load and data backups will be restored to run Production Operations during BCP drill window. Tentatively 1-2 days will be invested to setup entire environment and same will be charged back as per usage of respective resources. **RPO would be 24hrs and RTO would be few minutes to 1 Hour**.
Section IX- Special Conditions of Contract	GCC 16.1	83	The payments shall be made monthly on actual pay per usage as per unit prices quoted by bidder and adjusted for penalties as per SLA document,	The payments shall be made on quarterly basis on actual pay per usage and adjusted for penalties as per SLA document, Section VII.

Section	Clause	Page no.	Original provision	Amendment
			Section VII	*Note: Here after in the tender document all references to periodic payments/bill/invoices would mean quarterly payments/bill/invoices instead of monthly payments/bill/invoices.*
Section IV – Bidding Forms	Price Schedule Forms	46-49	Price Schedule – Non-Consulting Services	As specified in Annexure-I, which is attached to this corrigendum.
Section VII – Schedule of Requirements	1. Scope of Work, List of Services and Delivery Schedule	59-60	List of Services and Delivery Schedule	As specified in Annexure-II, which is attached to this corrigendum.
Section II–Bid Data Sheet (BDS)	ITB 22.1	22	The deadline for Bid submission is: Date: 10th September 2024 Time: 14:00 Hours IST Bidders shall not have the option of submitting their Bids electronically.	The deadline for Bid submission is: Date: **1st October 2024** Time: **14:00 Hours IST** Bidders shall not have the option of submitting their Bids electronically.
-Do-	ITB 25.1	22	The Bid opening shall take place at: Address: Aranya Bhawan, Panjabari, Guwahati – 781037 (Assam) Date: 10th September 2024 Time: 14:15 Hours IST No minimum number of Bids is required in order to proceed to Bid opening.	The Bid opening shall take place at: Address: Aranya Bhawan, Panjabari, Guwahati – 781037 (Assam) **Date: 1st October 2024** **Time: 14:15 Hours IST** No minimum number of Bids is required in order to proceed to Bid opening.

Sd/-
(Sandeep Kumar, IFS)
Project Director, PMU, APFBCS

Annexure-I

						Minimum Specs Price			Maximum Specs Price		
1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**
Price Schedule – Non-Consulting Services											
Sr. No.	Description of Item(s)	Minimum Specs	Maximum Specs	Quantity and physical unit	Expected Duration of Delivery of Service after day of contract signing	Unit price (net of duties and applicable taxes)	Duties and other taxes payable per line item if Contract is awarded	Total price per service (net of duties and taxes for 1 year)	Unit price (net of duties and applicable taxes)	Duties and other taxes payable per line item if Contract is awarded	Total price per service (net of duties and taxes for 1 year)
1	**Web Server**	Physical Core (vCPU) =4 RAM =16 GB, OS Sizing =250GB	Physical Core (vCPU) =4 RAM =32 GB, OS Sizing =250GB	1 (Monthly)							
2	**GIS Enterprise Portal**	Physical Core (vCPU) =4 RAM =32 GB, OS Sizing =250GB	Physical Core (vCPU) =4, RAM=64 GB, OS Sizing: 500 GB	1 (Monthly)							
3	**GIS Image Server**	Physical Core (vCPU) =4,RAM (in GB)=32,GPU Memory=16,OS Sizing =250	Physical Core (vCPU) =4,RAM (in GB)=64,GPU Memory=16,OS Sizing =1000	1 (Monthly)							
4	**Data Science & Automation Server**	Physical Core (vCPU) =4,RAM (in GB)=64,GPU Memory=16,OS Sizing =250	Physical Core (vCPU) =4,RAM (in GB)=64,GPU Memory=16,OS Sizing =1000	1 (Monthly)							
5	**App. (FMIS/PMIS)**	Physical Core (vCPU) =4,RAM (in GB)=32,OS Sizing =250	Physical Core (vCPU) =4,RAM (in GB)=64,OS Sizing =1000	1 (Monthly)							
6	**App (GIS)**	[Physical Core (vCPU) =4,RAM (in GB)=32,OS Sizing =250	[Physical Core (vCPU) =4,RAM (in GB)=64,OS Sizing =250	1 (Monthly)							

Price Schedule – Non-Consulting Services											
1	2	3	4	5	6	7	8	9	10	11	12
						Minimum Specs Price			Maximum Specs Price		
Sr. No.	Description of Item(s)	Minimum Specs	Maximum Specs	Quantity and physical unit	Expected Duration of Delivery of Service after day of contract signing	Unit price (net of duties and applicable taxes)	Duties and other taxes payable per line item if Contract is awarded	Total price per service (net of duties and taxes for 1 year)	Unit price (net of duties and applicable taxes)	Duties and other taxes payable per line item if Contract is awarded	Total price per service (net of duties and taxes for 1 year)
7	SQL Server Standard 2022	Physical Core (vCPU) =4,RAM (in GB)=32,OS Sizing =250	Physical Core (vCPU) =4,RAM (in GB)=64,OS Sizing =500	1 (Monthly)							
8	Public IPv4 Address	2	2	2		N/A					
9	NAT Gateway	1	1	1							
10	Site - to - Site VPN	1	1	1							
11(a)	Data Transfer Out Data going in to the private IP network	1 (Minimum 100 GB Per Month)	1 (Maximum 350 GB Per Month)	1 (Monthly)							
11(b)	Data going out from the private IP network	1 (Minimum 50 GB Per Month)	1 (Maximum 150 GB Per Month)	1 (Monthly)							
12	Application Load Balancer	1	1	1		N/A					
13	Web Application Firewall	1	1	1							
14	Security Config	1	1	1					`		

						Minimum Specs Price			Maximum Specs Price		
1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**
Sr. No.	Description of Item(s)	Minimum Specs	Maximum Specs	Quantity and physical unit	Expected Duration of Delivery of Service after day of contract signing	Unit price (net of duties and applicable taxes)	Duties and other taxes payable per line item if Contract is awarded	Total price per service (net of duties and taxes for 1 year)	Unit price (net of duties and applicable taxes)	Duties and other taxes payable per line item if Contract is awarded	Total price per service (net of duties and taxes for 1 year)
15	**Cloud Monitoring software**	1	1	1		N/A					
16	**Email Gateway (SMTP)**	1 Lakh emails (per year)	5 Lakh emails (per year)	Lumpsum							
17	**SMS Gateway**	1 Lakh SMS (per year)	5 Lakh SMS (per year)	Lumpsum							
18	**Service Management**										
Total Price (INR)							**Taxes**	**Price**		**Taxes**	**Bid price**

Note:

1. *Please refer the revised table for minimum specification and maximum specification.*
2. *Minimum specifications are expected to be operational throughout the year and these are the services that the client is expected to invoice quarterly throughout the contract period.*
3. *Anything between minimum and maximum specifications may be utilized as per need basis and invoices shall be raised quarterly on pay as you go model.*
4. *The bidders need to quote for minimum and maximum specifications both. The tender will be evaluated based on the maximum specification.*
5. *Since there won't be a dedicated DR, hence Replication Tool for DC-DR synchronization is no longer required*
6. *Security Config. line item should include cost of Firewall and antivirus + HIPS*

List of Services and Delivery Schedule

[The bidder shall fill against these items the prices in the Price Schedule (Section IV). The services are to be provided for a time period of 1 year from the operational acceptance of the system by the APFBCS]

Server Sizing for Production Environment										
					Minimum Specs			Maximum Specs		
Sr. No	Name/Product/Solution	OS/Name	VM/ Quantity	Physical Core: vCPU (1:1)	RAM (in GB) per machine	GPU Memory	OS Sizing (Recommended) IN GB	RAM (in GB) per machine	GPU Memory	OS Sizing (Recommended) IN GB
1	Web Server	Windows Server 2022	1	4	16		250	32		500
2	GIS Enterprise Portal		1	4	32		250	64		500
3	GIS Image Server		1	4	32	16	250	64	16	1000
4	Data Science & Automation Server		1	4	64	16	250	64	16	1000
5	App. (FMIS/PMIS)		1	4	32		250	64		1000.
6	App (GIS)		1	4	32		250	64		250
7	SQL Server Standard 2022		1	4	32		250	64		500

Sr. No.	Name/Product/Solution	VM/ Quantity	Additional Storage (SSD) in GB	Minimum Specs	Maximum Specs
1	Public IPv4 Address	2			
2	NAT Gateway	1	100		
3	Site - to - Site VPN	1			
4	Data Transfer Out	1	200		
5	Application Load Balancer	1			
6	Web Application Firewall	1			
8	Security Config	1			
9	Cloud Monitoring software	1			
10	Email Gateway (SMTP)	1		1 Lakh emails (per year)	5 Lakh emails (per year)
11	SMS Gateway	1		1 Lakh SMS (per year)	5 Lakh SMS (per year)
12	Service Management	1			

*Note:
- *Bidder to provide delivery schedule of services from date of engagement (contract signing)*
- *The delivery schedule shall be in the form of a Gantt chart which shall form part of the technical bid.*

General Conditions applicable to Bidder:

1. The price of security config. line item in the above table should include Gateway Firewall and antivirus + HIPS security. WAF is required and should be mentioned in separate line item.
2. We would need native file storage for OS and data.
3. The bidder should provide access to a dashboard for monitoring server resource usage, RPO and RTO and ticket management software.
4. Dedicated DR is not required. DR drill will be performed on secondary region in India after restoring the backups taken from the Primary hosting site. This should be performed thrice a year to ensure back-up is in pristine state.
5. There should be encryption of data at rest (including media and backup files) and in transit.
6. The CSP production environment will be for 12 months from the date of operational acceptance of the system. However, after necessary approvals, APFBCS may extend the services for another 1 (One) year, as per mutually agreed terms and conditions, based on satisfactory performance of the bidder during the entire duration of the project.
7. The bidder will provide a Report on recommended sizing and architecture specification after analysing the usage trends (before completion of 5 months from date of launch) for desired specification for on-premise DC and DR. The price for this shall be included in Service Management line item.