Government of the People's Republic of Bangladesh
Office of the project Director
"Strengthening Meteorological Information Services and Early Warning Systems (Component A) under Bangladesh Weather and Climate Services Regional Project (1st Revised)"
Bangladesh Meteorological Department (BMD)
Abhawa Bhaban, E-24, Agargaon, Dhaka-1207, Bangladesh.

No: 23.09.0000.090.07.038.21.৪২৪ Date: 27 April 2022

Minutes of Pre-Proposal Conference

Name of Procurement Package: *Develop and implement automated integrated system software in the form of a website, mobile applications and APIs for real-time dissemination of weather and climate products to the key stakeholders (app and website for public users and APIs for institutional users), including options to receive feedback from users*

Package No.: BMD-C-12
Ref No. 23.09.0000.090.07.038.21.647, Dated: 03 April 2022
Date and Time: 18 April 2022 at 11:30 AM
Venue: Project Office, 5th Floor, BMD Headquarter, Agargaon, Dhaka-1207.

A pre-proposal conference was held on 18 April 2022 under the Chairmanship of Md. Asadur Rahman, Deputy Director (Current Charge), BMD. The Chairman welcomed all participants on behalf of BMD and the Project, and requested the participants to introduce themselves. At the outset Chairman briefed the consultancy service **Develop and implement automated integrated system software in the form of a website, mobile applications and APIs for real-time dissemination of weather and climate products to the key stakeholders (app and website for public users and APIs for institutional users), including options to receive feedback from users**.

Then the Chairman requested Mr. Md. Rashaduzzaman, Meteorologist & DPD (Program), BMD accompanied with Mr. Md. Sarwar Murshid, Senior Project Technical Coordinator, BWCSRP (Component-A) to describe and discuss RFP with the representatives of the shortlisted consulting firms.

The Chairman also requested the representatives of the firms to raise their queries and BMD members to clarify these queries.

The representatives of the firms submitted their queries in written for discussions and clarifications. During discussion, there were some changes and corrections addressed. During

conference, some amendments and clarifications were made and compiled in the following Annexes.

Annex-I: Amendment 02

Annex-II: Clarification 01

Annex-III: Attendance Sheet of the Participants

At the end, the Chairman expressed thanks to the participants and wishes them all the best.

27.4.22

Ahmed Arif Rashid
Project Director

Annex-I: Amendment 02

Name of Procurement Package: Develop and implement automated integrated system software in the form of a website, mobile applications and APIs for real-time dissemination of weather and climate products to the key stakeholders (app and website for public users and APIs for institutional users), including options to receive feedback from users

Package No.: BMD-C-12

S.N.	Page/ Clause/ Section of RFP/ ToR	As Mentioned in the Bidding Document	As Amended
1	ToR Section 9, #1 Server, Item 3 Processor	2 Intel Xeon e5 267 v3 12 Core 2.6 GHz, 35 Mb Cache, QPI, Turbo, HT, 12C/28T, (145) or equivalent	Min 2x Intel Xeon Gold 6300 Processor / Intel® Xeon® Silver 4310 Processor, Min 12 Core, Min 2.6 GHz, Min 18 Mb Cache, QPI, Turbo, HT, 12C/28T or 16C/32T or equivalent or higher
2	ToR Section 9, #1 Server, Item 4 Memory (RAM)	128GB (RDIMM 2933 MT/s, double range	Min 128GB (RDIMM 2933 MT/s, double range or Higher)
3	ToR Section 9, #1 Server, Item 5 Hard Disk	2x650 GB SSD Hot plug SAS 12gbit/s 512n 2.5 for system mixed mode	Min 2x650 GB SSD Hot plug SAS 12GB/s 512n 2.5 for system mixed mode
4	ToR Section 9, #1 Server, Item 7 Network	4 port 10GbE network, 4 port 40/100 GBs network	Min 4 Port 10/25 GbE Network
5	ToR Section 9, #1 Server, Item 11 Warranty	Manufacturer's warranty part number should be mentioned, minimum 12 months warranty, after acceptance of goods/services, for OEM technical solution support, Patch & New Software Upgrade.	Manufacturer's warranty part number should be mentioned, minimum 36 months warranty, after acceptance of goods/ services, for OEM technical solution support, Patch & New Software Upgrade.
6	ToR Section 9, #2 Load Balancer, Item 3 Intelligent Traffic Processing	L4 HTTP requests per second: Min 3.5M Throughput: 30 Gbps/15 Gbps L4/L7	L4 HTTP requests per second: Min 3M Throughput: 30 Gbps/15 Gbps L4/L7, 26 Gbps/20 Gbps or 40Gbps/30Gbps or equivalent or higher

S.N.	Page/ Clause/ Section of RFP/ ToR	As Mentioned in the Bidding Document	As Amended
7	ToR Section 9, #2 Load Balancer, Item 10 Hard Drive	Min 1 TB (5000s) 400 GB solid state drive (5050s)	Min 240 GB SSD
8	ToR Section 9, #2 Load Balancer, Item 15 Typical Consumption	Max 165W	Max 320W
9	ToR Section 9, #2 Load Balancer, Item 17 Typical Heat Output	Max 580 BTU/hour	Max 856 BTU/hour
10	ToR Section 9, #2 Load Balancer		Network Interface: Min 4x RJ45 GE port, 8x SFP GE port, 8x SFP+ 10G Ports
11	ToR Section 9, #3 Firewall, Item 3 Firewall General Features	1 or 2U Rack Unit form factor WAN: 1 x GbE copper port DMZ: 1 x GbE copper/1x GbE fiber Included transceiver LAN Switch: 16x GbE copper ports Console: 1x RJ-45 USB: 1 x USB LAN Ports: minimum 16 configured as a LAN switch	1 or 2U Rack Unit form factor Min 2x 10 GE SFP+, 18x GE RJ45, 4x Shared Port Pairs 8x GE SFP Console: 1x RJ-45 USB: 1 x USB
12	ToR Section 9, #3 Firewall, Item 5 Performance	Ideal Testing Conditions 10 Gbps of UDP 1518 byte packet firewall throughput 2 Gbps Mbps IPS 6 Gbps of AES-128 VPN throughput 40,000 connections per second, 64 byte response 1,000,000 concurrent connections Real-World Testing Conditions	Ideal Testing Conditions Min 20 / 18 / 10 Gbps of UDP 1518/512/64 byte packet firewall throughput Min 2 Gbps Mbps IPS Min 6 Gbps of AES-128 VPN throughput 40,000 connections per second, 64 byte response Min 1,000,000 concurrent connections

S.N.	Page/ Clause/ Section of RFP/ ToR	As Mentioned in the Bidding Document	As Amended
		1 Gbps of firewall throughput 1 Gbps Next Generation Firewall 900 Mbps of Threat Prevention 1 performance measured with a real-world SMB HTTP traffic blend, a typical rule-base, NAT, logging and the most secure threat prevention	Real-World Testing Conditions 1 Gbps of firewall throughput Min 1 Gbps Next Generation Firewall Min 900 Mbps of Threat Prevention/ Protection 1 performance measured with a real-world SMB HTTP traffic blend, a typical rule-base, NAT, logging and the most secure threat prevention
13	ToR Section 9, #3 Firewall, Item 6 Power Input	Main power Supply: AC 230 (± 10%) V, 50 Hz Power consumption max: 60W Maximum thermal output: 187.7 BTU/hr	Main power Supply: AC 230 (± 10%) V, 50 Hz Power consumption max: 60W Maximum thermal output: 405.70 BTU/hour
14	ToR Section 9, #4 Router, Item 4 IP and IP ser ices	Enhanced Interior Gateway Routing Protocol (ElGRP)	Removed
15	ToR Section 9, #5 Laptop, Item 3 Processor	11th Generation Intel Core i7 (Minimum 4 Core, Minimum 8M Cache, base 1.8 GHs, up to 4.9 GHz)	11th Generation Intel Core i7 (Minimum 4 Core, Minimum 8M Cache, base 1.8 GHs, up to 4.8 GHz or higher)
16	ToR Section 9, #5 Laptop, Item 4 Graphics	Minimum 2GB Intel® UHD Graphics	Minimum 2GB Intel® UHD Graphics (Integrated)
17	E. Data Sheet, ITC Clause Reference 17.7 and 17.9	The Proposals must be submitted no later than: Date: 10 May 2022 Time: 14:30 PM Local Time	The Proposals must be submitted no later than: Date: 23 May 2022 Time: 14:30 PM Local Time
		The Proposal submission address is: Office of Project Director, BWCSRP (Component-A), 5th Floor, BMD	The Proposal submission address is: Office of Project Director, BWCSRP (Component-A), 5th Floor, BMD

S.N.	Page/ Clause/ Section of RFP/ ToR	As Mentioned in the Bidding Document	As Amended
		Headquarter, Abhawa Bhaban, E-24, Agargaon, Dhaka-1207, Bangladesh	Headquarter, Abhawa Bhaban, E-24, Agargaon, Dhaka-1207, Bangladesh
18	E. Data Sheet, ITC Clause Reference 19.1	An online option of the opening of the Technical Proposals is offered: Yes ____or No____√____ The opening shall take place at: same as the Proposal submission address Date: same as the submission deadline indicated in 17.7. Time: 15:00 PM Local Time	An online option of the opening of the Technical Proposals is offered: Yes ____or No____√____ The opening shall take place at: same as the Proposal submission address Date: 23 May 2022 Time: 15:00 PM Local Time

27-4-22

Ahmed Arif Rashid
Project Director

Annex-II: Clarification 01

Name of Procurement Package: Develop and implement automated integrated system software in the form of a website, mobile applications and APIs for real-time dissemination of weather and climate products to the key stakeholders (app and website for public users and APIs for institutional users), including options to receive feedback from users

Package No.: BMD-C-12

S.N.	Page/ Clause/ Section of RFP/ ToR	Queries	Clarification
1	E. Data Sheet, ITC Clause Reference 21.1 (for FTP) Criteria, sub-criteria, and point system for the evaluation of the Full Technical Proposals:	Details of Key Experts' qualifications and competence for the Assignment	Key Experts' qualifications and competence are described in Section 5 of ToR (Page 33).
2	Section 4. Financial Proposal - Standard Forms - Form FIN-4 Breakdown of Reimbursable Expenses (B. Reimbursable Expenses)	Clear about N° 19 Cost of Data Connectivity Setup with TeleTalk, Grameenphone, Banglalink, Robi & Airtel; Clear about N° 20 Monthly Connectivity Charge for TeleTalk, Grameenphone, Banglalink, Robi & Airtel	These costs are for same service, i.e. Data Connectivity service. The Consulting Firm must quote the Cost of Data Connectivity Setup as onetime cost to comply with N° 19. The Consulting Firm must quote Monthly Connectivity Charge for 12 months to comply with N° 20.
3	E. Data Sheet, ITC Clause Reference 16.1, S.N. 2, 3, 4 and 5	Should we consider reports production cost and such other costs as reimbursable expense?	The Consulting Firm must quote only the printing costs for these reports, no need to consider reports production cost and such other costs.

S.N.	Page/ Clause/ Section of RFP/ ToR	Queries	Clarification
4	ToR Section 9, #1 Server	Server: Provided processor model is too old which does not exist. Our suggestion will be to use Intel® Xeon® Silver 4310 Processor. This processor model is upgraded and will provide high performance than previous.	Ref. to Amendment
5	ToR Section 9, #2 Load Balancer	Load balancer: Throughput, SSL TPS, Interface as per the requirement of the TOR don't exist right now. As per our suggestion better specification will be as follows o L4/L7 Throughput: 40Gbps/30Gbps o Hardware SSL: Min 35K TPS o Network Interface: Min 8x RJ45 GE port, 8x SFP GE port, 8x SFP+ 10G Ports	Ref. to Amendment Hardware SSL: Min 10K TPS is given in ToR, so 35K TPS will comply Network Interface: Min 4 is given in ToR, so 8x will comply
6	ToR Section 9, #3 Firewall	Firewall: Throughput and Interface as per the requirement of the TOR are very low which do not exist. As per our suggestion better specification will be as follows o Firewall Throughput (1518/512/64 byte UDP): Min 20 / 18 / 10 Gbps o IPsec VPN Throughput (512 byte): Min 11.5Gbps o IPS Throughput (Enterprise Mix): Min 2.6 Gbps o NGFW Throughput (Enterprise Mix): 1.6Gbps o Threat Protection Throughput: 1Gbps	Ref. to Amendment

S.N.	Page/ Clause/ Section of RFP/ ToR	Queries	Clarification
		o Concurrent Sessions: Min 1.5 Million o SSL VPN Throughput: Min 1Gbps o Concurrent SSL VPN Users: Min 500 o Interfaces: Min 2x 10 GE SFP+, 18x GE RJ45, 4x Shared Port Pairs, 8x GE SFP	
7	ToR/ Section 12 (Page 49 – 51) Qualification/Experience of the Consulting Firm and Shortlisting Procedure	We have already provided the required documents of this section in EOI Phase. Do we have to provide the documents again in the RFP Phase?	The Consulting Firm is responsible to submit Consultant's Organization and Experience as stated in Form Tech-2 (Page 37) of RFP. Only relevant documents in support of Organization and Experience must be provided with the Technical Proposal. For relevant experience, WO/Contract Agreement, Project/ Assignment Description and Completion Letter from Client must be provided.
8	ToR/ Section 16 Annex-03 (Page 59) Key Users of BMD's Information/ Data	Please provide details of existing Information/data type/format and number of data volume. ▪ Is there any data entry required? Please provide us the availability of data (assuming that data is already collected and sorted for entry, if not please specify how you will provide us data for entry)	The Consulting Firm is responsible to conduct the analysis of necessary existing information/ data type/ format and number of data volume etc. during Assessment of Existing Process stage as stated in Sections 4.1 and 4.1.1, and also tasks 05 to 12 of ToR. However, existing products and information are mentioned in Section 17 Annex-04 of ToR. Existing products are also published in BMD Website (under menus Forecast, Warning, Marine Meteorology etc.).

S.N.	Page/ Clause/ Section of RFP/ ToR	Queries	Clarification
			There is no operational data entry required under the scope of the assignment. But, Master Data/ Setup/ Configuration/ User Management data are to be entered and covered under the scope that will be identified in Assessment and Requirement Analysis stage.
9		Please specify time of support & maintenance period. Also let us know the type of support required during the maintenance period.	There is no support and maintenance period/ service included under the scope of the assignment. Under the scope of the assignment, the Consulting Firm is responsible to identify the type of support required during the maintenance period. As per deliverables #25 stated in page 38 of ToR, the Consulting Firm is responsible to deliver Maintenance and Support Plan including type of support. However, the type of support may include Technical Support and Operational Support in broader scale.
10		Is there any sort of Data Migration Required? If yes, please provide detail requirements related to data migration such as data volume, current format of data, current data structure etc.	There is no Data Migration required under the scope of the assignment.

S.N.	Page/ Clause/ Section of RFP/ ToR	Queries	Clarification
11		Any applicable Insurance and Performance Security?	As mentioned in the REOI notice, it is to be noted that the consulting firm must pay Professional Liability Insurance and submit Performance Security of 5% of Contract Value before contract signing.

Ahmed Arif Rashid

Project Director