

The Punjab Masstransit Authority

Record of Meeting

Agenda: CLARIFICATION MEETING FOR THE CONTRACT OF "PROVISION, COMMISSIONING, INSTALLATION, CALIBRATION, INTEGRATION, TESTING, EXECUTION, OPERATION & MAINTENANCE OF IT SYSTEMS FOR PAKISTAN METROBUS SYSTEM (PMBS) IN RAWALPINDI-ISLAMABAD"

Date: 30-11-2021

Venue: Conference Room, 5th Floor,
PMA Head office, ASTP,
Lahore

Chair:

Mr. Ozair Shah
General Manager Operations,
PMA.

List of Participants:

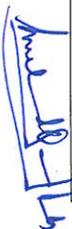
1. Mr. Ozair Shah, General Manager Operations, PMA (Chairperson)
2. Ms. Nabila Javed, Secretary/General Manager Finance, PMA (Member)
3. Ms. Shumaila Mohsin, Manager Operations (Technical), PMBS (Member)
4. Mr. Mian Mudassar, Deputy Manager (IT), PMBS (Member)
5. Mr. Shoukat Ali, Assistant Manager (Security), PMBS (Member)
6. Ms. Anna Mumtaz, Assistant Manager (Accounts), LMBS (Member)
7. Mr. Ali Ahmed, 4B Gentel (Participant)
8. Mr. Kashif Mushtaq, GCS Pvt. Ltd (Participant)
9. Mr. Naveed, SEMC (Participant)
10. Mr. Tahir, Supernet Limited (Participant)
11. Mr. Noshad, LMKT (Participant)
12. Mr. Fawad, CNS Engineering (Participant)
13. Mr. Adnan Khan, Huawei (Participant)
14. Mr. Faisal Khan, PTCL (Participant)

DECISIONS / DISCUSSIONS

The pre-bid meeting on the said agenda was held in conference room of PMA Head Office, ASTP, Lahore at 1130 hours. General Manager Operations, PMA chaired the meeting in which representatives of participating companies asked queries related to the contract. General Manager Operations, PMA has clarified their points. The detailed minutes of meeting is attached at **Annex-A** and the list of participants is attached at **Annex-B**. The meeting ended at 1230 Hours with a note of "Thanks".

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Sr. No.	QUERIES / COMMENTS	PMA's RESPONSE
A. GCS Pvt. Ltd.		
1	Clarify the location and equipment for Disaster Recovery (DR) site.	DR site shall be co-located in tier-III compliant Data Center in Lahore. Equipment required for DR site is already mentioned in the RPF.
2	Are dedicated resources required to manage the SLA.	Minimum one resource per shift (2 shifts) is required for Command and Control Center and minimum one per shift (3 shifts) for NOC of Data Center.
3	Whether the servers for IT systems will be used for AFC-BSS as well.	Servers required for IT Systems and AFC-BSS are separately mentioned in the RFP.
4	How will we work at stations in 120 days as there is a restriction to work during operation hours.	Service Provider can work in data cabin and at stations during operation hours keeping in view that the operation should not be disturbed. However, the corridor/track can be accessible after operation hours.
5	Please mention quantity of equipment for DC and MBS in future expansion.	The designed solution must facilitate the scalability.
6	Clarify the integration of equipment of other Service Providers with IT System.	Service Provider shall be responsible to integrate the equipment of other Service Providers.
B. Supper-net Pvt. Ltd.		
7	Whether the Purchaser need to revamp the existing solution or completely deploy a new one.	Completely new solution should be deployed.
8	Please provide the equipment details of GPON.	Optic Fiber, ODFs, ONTs, OLTs, Recifiers etc.
9	Please provide Data Center, CCC & Stations traffic volume (Mbps) to design the switch infrastructure.	Prices against Optic Fiber cable and GPON equipment shall be quoted separately. Bidders may calculate the traffic volume based on the requirements mentioned in the RFP.
C. LMKT		
10	What shall be the transition mechanism?	Refer response at para 4. Transition mechanism should be proposed in the concept plans.
11	Why bid security is required.	Bid security is mandatory as per the PPRA Rule 27.
12	How PMA handle situation like COVID in future.	Refer clause 41.5 of the RFP given below: <i>"It is clarified that if a station is closed by the Client, not because of the fault of</i>



Contractor but, due to riots, strikes, natural calamities or by the action of law or government etc. the Client shall make the prorated deductions in the invoice processing. Subsequently, the Contractor shall submit its separate invoice for incurred costs during such instance of closure and the Client shall evaluate the invoice and pay such agreed costs; however, the Client shall not pay any profits in such instances."

D. CNS Engineering

13	6 slots Firewall is required for data center while as per our understanding it is not required.	Data center Firewalls are the part of existing solution. However, bidder may propose its own design/solution.
14	Specifications of VPN firewall for stations are missing in RFP.	Specification of VPN firewall for stations are as follows: Firewall performance (max): 1 Gbps IPS performance: 900 Mbps MD5, SHA-1, SHA-128, SHA-256, SHA-384: 300 Mbps Maximum concurrent sessions: 64K New sessions/second (sustained, TCP, 3-way): 5000 RFP will be updated accordingly.
15	Is there any requirement of internet connection on Metrobus stations.	No
16	Whether the complete IP telephony solution shall be replaced or only extension.	Completely new IP telephony solution shall be deployed.
17	Can 2 chassis for 14 blade servers be proposed.	Yes. However, bidder can propose its own design/solution.
18	HBA available in 16G or 32 Gb Fc in blade server, 25Gb Fc cord not available in industry.	Bidder can provide HBA 32Gb Fiber Channel Expansion Card instead of 25GB. RFP will be updated accordingly.
19	What will be the percentage capacity of SAS and NL-SAS for 1000 TB SAN storage solution.	Current SAN storage solution is completely NL-SAS based. However, bidder may propose its own design/solution.
20	Do we propose 480GB instead of 500GB HD in blades and rackmount servers	Yes, 480GB SSD can be proposed.
21	Switching capacity of specified core switches in RFP is very high.	Bidder may propose its own design/solution.
22	Is there any need to install industrial grade switches for indoor.	There is no need to install Industrial Grade switches in DC, NOC, CCC, Stations and Corridor.


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RFP will be updated accordingly.

E. Huawei

23	How PMA will compare specific brands of equipment proposed by multiple vendors.	By comparing the technical specifications of the proposed equipment and the requirements.
24	Why firewalls are required for stations and data center.	Firewalls are the part of existing solution. However, bidder may propose its own design/solution.
25	Can we submit new technical proposal.	Yes
26	Clarify how much cores of fiber cable are in use.	34 cores out of 48 core optic fiber cable are in use.
27	What is brand of the GPON equipment installed at station.	Fiber Home

F. PTCL

28	Can we propose proprietary protocols with VRF equivalent.	Yes
29	UPS chassis suggested to be online modular and hot-swappable.	Yes
30	In RFP, 42U racks are required with two top fans while as per our understanding fans are not required. Please also suggest a brand.	The bidder can propose its own design/solution. Furthermore, the purchaser can't specify any brand as per PPRA rules.
31	Can we change switching capacity or should be same as mentioned in RFP.	Yes, bidder can propose its own design/solution.
32	What will be the UPS backup for data center.	Data center UPS must provide backup for minimum 30 minutes.

G. SEMC

33	How to complete the commissioning/deployment at stations in 120 days.	Refer response at para 4.
34	Specify the ownership of the equipment installed at DC and MBS.	Refer Sub-Clause 42 of the Clause 9 (Services Required) given below: <i>"The Service Provider shall transfer ownership of all hardware, software, and equipment forming the part of IT Systems except Cameras, Video Wall and UPS for Stations to PMA, upon contract completion. Moreover, all the infrastructure build for the IT systems i.e. camera bases/mounts, power & data cable, optic fiber etc. shall also remain the property of the Purchaser."</i>

Wade J. Go...
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