

Punjab Masstransit Authority			
Minutes of Meeting			
Subject:	Pre-Bid Conference On Tender For Provision, Commissioning, Installation, Calibration, Integration, Testing, and Execution of IT Systems (CCTV Surveillance, Connectivity And Video Wall) For Multan Metrobus System.		
Date:	October 03, 2015	Time:	11:00 am
Venue:	Committee Room, Punjab Masstransit Authority	Chair:	Mr. Muhammad Ozair Shah, General Manager Operations, PMA
Participants:	<p>List of Participants:</p> <ol style="list-style-type: none"> 1. General Manager Operations, PMA 2. Manager IT, PMA 3. IT Expert, PMA 4. Manager Operations Technical, Lahore, PMA 5. Financial Specialist, PMA <p>The list of prospective bidders who participated the Pre-Bid meeting is attached at Annex-A.</p>		
Question		Discussion/Decision	
1. M/s Inbox sought clarification regarding wireless in section 12.6 “Network”	1. The section is amended as <i>“It should include all fixed/ wired wireless fiber communication points”</i>		
2. M/s Interactive Convergence sought clarification regarding Data Center Location in section “12.6.3 Data Center”	2. The section is amended as: Co-locate IT System at a suitable place in Punjab/Islamabad (DC) of his own choice		
3. M/s Interactive Convergence sought clarification regarding clause 42 “Contract Price”.	3. The clause 42 “Contract Price” is amended as: <i>The Contractor shall not charge prices for the equipment and services provided and for other obligations discharged, under the Contract, varying from the prices quoted by the Contractor in the Financial Proposal (Form of Bid/Financial Proposal Submission Form) or not agreed by the Purchaser as per this Contract. The quoted price, in the financial bid, is inclusive of all applicable taxes, as per Laws of the Government of Pakistan, except Sales Tax on Services which shall be added by the Purchaser over</i>		

<p>4. Clarification regarding contrast and component video of Video Wall with Controller.</p> <p>5. M/s Vital seek clarification regarding number of input and output for each video wall Controller.</p> <p>6. Clarification regarding minor amendments in specifications.</p>	<p><i>and above the quoted amount, as applicable/required under the relevant Tax Laws, to arrive at the Contract Price. Accordingly, the Contract Price shall be subject to adjustments for change in rate of Sales Tax on Services as and when applicable <u>as well as subject to Clause 41.5.</u></i></p> <p>4. After due deliberations with prospective bidders following amendments to Video Wall with Controller specifications are made:</p> <p>a “Contrast” 1400:1 3500:1</p> <p>b. “Component video” 3xBNC 2xBNC</p> <p>5. It is clarified that 14 inputs and 24 outputs are required for each Video Wall Controller. Accordingly, Controller(s) for above screens with Control Software is amended as:</p> <p style="padding-left: 40px;"><i>---“Controller(s) for above screens with Control Software “ The controller should support the display of real-time IP Camera video sources through operator work stations <u>(14 inputs and 24 outputs).</u>”---</i></p> <p>6. After due deliberations with prospective bidders some amendments to specification’s are made on Page # 89, 100, 101 and 115.</p>
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ATTENDANCE SHEET

PRE-BID MEETING ON PROVISION, COMMISSIONING, INSTALLATION, CALIBRATION, INTEGRATION, TESTING AND EXECUTION OF IT-SYSTEMS (CCTV SURVEILLANCE, CONNECTIVITY AND VIDEO-WALL) FOR MULTAN METROBUS SYSTEM

ATTENDANCE SHEET

Place: Committee Room, PMA Office, 5th floor,
Arfa Software Technology Park, Lhr

Date: 03/11/2015

Time: 11:00 AM

Sr. No.	Name of Organization	Name of JV Partner (If any)	Representative's Name & Designation	Contact No.	Email Address	Signature
1	Vital International		Tahir Hameed (M. Selby)	0333-4242-649	tahir@vitalgroup.com.pk	
2	Vital International		SALMAN ANWAR	0321-4392949	Salman@vitalgroup.com.pk	
3	INBOX		HAFIZ M. TALAL	0321-2064611	HAFIZ.TALAL@INBOXBIZ.COM	
4	INBOX		ALI SHAHBAZ	0333-4466791	ALI.SHAHBAZ@INBOXBIZ.COM	
5	National Engineers		Ajlan Khan.	03084441114	ajlan.Rhan@ne.com.pk	
6	Imson Yaqub //		Imson Yaqub	0321-4074305	Imson.Yaqub@ne.com.pk	
7	//		WASIF ALI	0321-4292254	Eng. WASIF ali@vshoo	
8	Interactive Group		Sagib Saleem	03335142092	sagib.Sheikh@iacgrp.com	
9	" "		M. Asif Tareen	0333-3848154	asif.tareen@iacgrp.com	
10	// // "		Sami Farooq	03458552102	Sami.farooq@iacgrp.com	
11	" "		MURTAZA Hussain	0345-590032	MURTAZA.Hussain@iacgrp.com	
12	National Engineer		Adeel Tariq	0324-4126167	adeel.tariq@ne.com.pk	
13	"		Zulbab Ali		zulbab.ali@ne.com.pk	
14						
15						

Addendum No1 to Tender Document

**PROVISION, COMMISSIONING, INSTALLATION, CALIBRATION,
INTEGRATION, TESTING, AND EXECUTION OF IT SYSTEMS (CCTV
SURVEILLANCE, CONNECTIVITY AND VIDEO WALL) FOR MULTAN
METROBUS SYSTEM**



THE PUNJAB MASSTRANSIT AUTHORITY GOVERNMENT OF THE PUNJAB

5th Floor, Arfa Software Technology Park (ASTP)

346-B, Main Ferozpur Road, Lahore, Pakistan.

Phone: +92 42 99028000 Fax: +92 42 9923 2541

URL: www.pma.punjab.gov.pk



Addendum No.1 to the Tender Document

Due to some clarifications required in the RFP document, the following addendum is hereby issued; which shall form a part and parcel of the original document titled

"Provision, Commissioning, Installation, Calibration, Integration, Testing and Execution of It-Systems (CCTV Surveillance, Connectivity And Video-Wall) For Multan Metrobus System"

, issued and uploaded on October 27, 2015. The contents of this addendum shall supersede/replace pages 23, 24, 45, 89, 100, 101, 102 and 115 of the original RFP document, and shall be read as part of the RFP document uploaded on the following websites:

www.pma.punjab.gov.pk

www.ppra.punjab.gov.pk

12.6 It is expected that the bidders submit their response based on thorough study. Following is the list of items which should be taken in account by the bidders and appropriate response shall be given:

- Surveillance cameras: Cameras to be deployed on the station, corridor Includes fixed, PTZ cameras.
- Network: List of locations along with the required network type at each location. It should include all **fixed/ wired / fiber communication points**.
- Integration: Bidder is required to do all integration. These include stations, corridor and Command and Control Centre.
- Develop the surveillance layout for the identified area; recommend the risk mitigation strategy and a structured plan.
- Provide a detailed proposed system and network architecture for an integrated solution involving command and control elements, Data Centre equipment, communication, procedures and personnel.
- Design for the Integrated Communications Platform

Bidder is expected to provide end-to-end services of designing, procurement, installation and commissioning of the systems.

12.6.1. Video surveillance

a. Installation of cameras

- Cameras need to be deployed to monitor Stations and corridor.
- Bidder needs to install configure the type of the camera i.e. PTZ, fixed etc. based on the location.
- Any work related to installation of camera like, customization, cabling etc. would be part of bidder's scope of work.

b. Set up of Command and Control Centre

- Command and Control Center to be set up at the location near chungi No. 9.
- Furnish 24/7 Communication and Information services at the command & control center.
- Electrical and network design and cabling.

- Any work related to installation of screens, making of video wall, cabling, networking, installation of workstation is part of bidder's scope of work.

12.6.2. Public Address and IP Telephony System

- Solution incorporates a Public Address System and IP Telephony System which will allow PMA Staff, Operators to accomplish all their voice communications, broadcast voice messages at stations and command & control center.

12.6.3. Data center (DC)

a. Co-locate IT System at a suitable place in Punjab/Islamabad (DC) of his own choice, according to best practices to meet SLA requirements (preferably in Data center standards with Tier 3 compliance). Furthermore, DC has to be connected with Command & Control Center.

b. Including preferably:

- Dynamic and efficient precision cooling system should be available for DC
- Electrical and Mechanical actual load consumption shall be considered

c. Provisioning and installation of hardware including servers, storage, racks etc.

- Bidder will supply all the hardware required for the data center including servers, monitors, storage, racks etc. The proposed hardware must be scalable.
- Operating systems, Applications, Real time Network Monitoring System and all Licensing required for commissioning of the hardware shall also be provided by the bidder.
- Bidder shall also set up monitoring mechanism for the DC with the required hardware/software.
- Bidder shall also provide Anti-Virus, DMS, and VPN etc.

12.6. 4. Network

a. Providing fiber optic connectivity on GPON Network from Station, Corridor to DC; DC to Command and Control Center.

- The project includes provision of network for last mile connectivity, as well as final system design, documenting all system components, preparation of

extended till the number of months the 70% payment is made. However, for these 'ten' months no change shall be effected in determination of upper cap of penalties i.e 10% of the actual Monthly Service Charge (as per quoted bid value)

- 41.6** The Purchaser shall issue a Certificate of Payment, in the prescribed form, with a copy to the Contractor, verifying the amount due, within fifteen days of receipt of an Application for Payment. The Purchaser shall deduct the amount of penalties that may be levied in accordance with the SLA (Annexure-J), against the exclusive of Sales Tax amount mentioned in the Invoice and recalculate Sales Tax amount, while issuing the Certificate of Payment. The Client may withhold a Certificate of Payment on account of defect(s) / short coming(s) in the services provided. The Client may make any correction or modification in a Certificate of Payment that properly be made in respect of any previous certificate.
- 41.7** The Purchaser shall pay the amount verified in the Certificate of Payment within fifteen (15) days of receipt of a Certificate of Payment provided that the Contractor furnishes a sales tax invoice within such period. Payment shall not be made in advance. The Purchaser shall make payment for the Services provided, to the Contractor, as per payment schedule **through crossed cheque.**
- 41.8** Payments shall be made against successful delivery of services per each Phase of the Program
- 41.9** No advance payments will be made. Monthly payments will be made on a prorated basis by the Purchaser, taking into account the number of stations, Corridor and C&CC for which IT System has been successfully provisioned.
- 41.10** The Purchaser at its discretion may withhold the forth invoice after the commencement of Operations if the Contractor fails to obtain the User Acceptance Test (UAT) from the Purchaser.

42. Contract Price

The Contractor shall not charge prices for the equipment and services provided and for other obligations discharged, under the Contract, varying from the prices quoted by the Contractor in the Financial Proposal (Form of Bid/Financial Proposal Submission Form) or not agreed by the Purchaser as per this Contract. The quoted price, in the financial bid, is inclusive of all applicable taxes, as per Laws of the Government of Pakistan, except Sales Tax on Services which shall be added by the Purchaser over and above the quoted amount, as applicable/required under the relevant Tax Laws, to arrive at the Contract Price. Accordingly, the Contract Price shall be subject to adjustments for change in rate of Sales Tax on Services as and when applicable, **as well as subject to Clause 41.5.**

43. Contract Amendment

- 43.1** The Purchaser may, at any time, by written notice served on the Contractor, alter, amend, omit, increase, decrease quantity and scope, of all / any of the Services / the Works, in whole or in part.
- 43.2** The Contractor shall, within ten working days of receipt of such notice, submit a cost estimate and execution schedule of the proposed change (hereinafter referred to as the Change), to the Purchaser.
- 43.3** The Contractor shall not execute the Change until and unless the Purchaser has allowed the said Change, by written order served on the Contractor.
- 43.4** The Change, mutually agreed upon, shall constitute part of the obligations under this Contract, and the provisions of the Contract shall apply to the said Change.
- 43.5** No variation in or modification in the Contract shall be made, except by written amendment signed by both the Purchaser and the Contractor.

44. Assignment / Subcontract

- 44.1** The Contractor will not assign or sub-contract its obligations under the Contract, in whole or in part, except with the Purchaser's prior written consent.

2 Megapixel Outdoor IR PTZ Camera For Metrobus Corridor and Stations		Yes	No	Qty
Specification	Details			200
Image Sensor	1/2 2MP			
WDR	Dual Shutter upto 110 Db			
Num. of Effective Pixels	1920 x 1080 HxV			
Lens	30 X or higher Optical Zoom, 4.5 ~ 135mm F1.6			
Minimum Illumination	0.1 Lux, 0 lux (IR:ON)			
Shutter Time(Sec.)	1/3~1/15000 or 1/4~1/15000 Selectable			
Auto Iris	DC Drive			
S/N Ratio	More than 39 dB or above			
Video Compression	Motion JPEG, MPEG-4/H.264 High Profile			
H.264/MJPEG	30 FPS @ 1080p, 720p, SXGA, 1024x768, 800x600, D1, VGA, QVGA, QQVGA			
MPEG4	30fps @ 1080p, 720p, SXGA / 1024 x 768 / 800 x 600 / D1 / VGA / QVGA / QQVGA			
Video Streaming	Multiple Stream: Controllable Framerate and Bandwidth CBR/VBR			
Image Setting	Compression, Brightness, Contrast, Mirroring, Sharpness, AWB, AES, AGC, BLC, Day/Night Mode, WDR			
Audio Compression	G.711(u-law and a-law)/G.726/AAC			
Audio Input	Line In x 1			
Audio Output	Line Out x 1			
Security	Password Protection, IP Address Filtering, User Access Privilege			
Network Protocols	TCP/IP, UDP, DHCP, PPPoE, HTTP, HTTPS, DNS, DynDNS, NTP, FTP, SMTP, UDP, RTP, RTSP, RTCP, , UPnP, IPv4, SAMBA Client(NAS) or equivalent, IGMP, ICMP, ARP			
Intelligent Video	Video Motion Detection			
Alarm Trigger	Periodical Timer, Intelligent Video, Network Ping Loss, Network Disconnect			

Agreed with other terms & conditions:		
Signed & Stamped documents:		

NOTE :
1. Maximum down time for all components including replacement of the whole unit as per SLA.
2. Please mention the country of origin/manufacturing/assembly of the quoted brand/model.
3. Vendor/Assembler to provide verification of serial numbers of all products.

Video Wall with Controller

Sr. No	Item Description	QTY																																																																				
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	Active screen diagonal	55"			
	Bezel width	Ultra Narrow Bezel or higher (less than 5.7mm)			
	AC input Voltage	220 VAC, 50 Hz \pm 10%			
	VGA	Separate sync DSUB-15P in + (out (optional))			
	DVI	Single link DVI-D in + (out (optional)) with HDCP			
	Display port	Display port input + (out (optional))			
	HDMI	HDMI Type A with HDCP			
	CVBS	BNC in/out			
	S-video (Optional)	Mini-DIN S-terminal in/out			
	Control Manager	Server connected via RS232 chain, Remote client application: on/off, wall setup, source selection, status, brightness, contrast and color adjustments			
	Component video	2xBNC in/out			
	control signal	RS-232 DSUB9 PIN in/out			
	Operating humidity	20-80% non-condensing			
	Operational temperature	0-40°C			
	Item	Item Sub-Description	Yes	No	

	<p>Controller(s) for above screens with Control Software:</p>	<p>Should feature built-in integration of digital network video streams / IP Camera Streams and OR required hardware for conversion to analog streams or other data sources</p> <p>Should allow users to place windows of any size anywhere on the video wall, without any compromises on quality</p> <p>The controller shall provide independent color depth selection of video, RGB, and graphic window</p> <p>The controller should support the display of real-time IP Camera video sources through operator work stations (14 inputs and 24 outputs).</p> <p>The controller shall feature redundant, hot-swappable critical components for high overall system reliability including Redundant hot- swap power supplies, Redundant hot-swap RAID Level 1 or RAID Level-5 hard disk, Redundant Ethernet / Fiber Optic adapter</p> <p>The redundancy components shall be continuously monitored; audio and video alarms shall be triggered in case of failure</p> <p>The controller should support video outputs up to 1920 x 1082 pixels and Mega Pixels Format</p> <p>The controller should provide real-time source display</p> <p>The controller shall be equipped with latest processor technology.</p> <p>The controller should support Network and other inputs</p> <p>The controller should have Outputs for above screen matrix</p> <p>Inputs of for above LCD Real-time DVI/RGB inputs, image resolution 1920 x 1080 pixel and should display real-time input sources through operator work stations.</p>			
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4	<p>IP Telephony (IP PBX)</p>	<p>Minimum of 100 Extensions Ports Analog trunk with CLI,PRI Cards, Analog Extensions with CLI, IP Gate way Card of same manufacturer with built in 16 IP Trunks and 70 IP Extensions (Expandable to 128 IP Extensions) ,SIP Phone Licenses of the same manufacturer (Not Third Party) ,Music on Hold Feature, Documents Manual (CD), Local, Onsite Training of the same according to requirements, auto attendant 12 Ports simultaneous access (not 3rd party), Standalone operating system, Battery bank with Maintenance-free sealed Lead-Acid dry batteries with suspended electrolytes: leak proof Standard batteries backup with min. 2-hour batteries backup at full extension load in case of power failure.</p> <p>Call logging software with Telephone directory for All Extension and trunk status</p> <p>Same manufacturer with CLI, Recall and other standard function (exchange must be compatible for nonproprietary telephone sets)</p> <p>Digital Tele Phone Sets SIP/IP Phones of Same manufacturer MDF Box 20 line with surge protection for Trunk & Extensions.</p> <p>Rack Mounted PABX, Brochures & compliance sheets etc</p> <p>100 % Speech Path ,64 Different Class of services for different users</p> <p>The vendor must have PTA Approved Letter of quoted model and manufacturers authorization letter</p> <p>Support minimum one (01) PRI Line.</p>			01 Nos.
5	<p>Installation</p>	<p>Onsite installation/commissioning/cabling integration (FTP cabling at 24Nos stations & Command & Control and Data Center (from ticket booth to station cabinet to Command and Control Center /testing of the above system.</p>			1 Job

Offered Brand (Attachments):	Provide Name	Yes	No
Make / Brand Name:			
Model Name:			
Sub-Model (if any):			