Request for proposal (RFP)

Design, Development, Implementation, Maintenance and Management of Automatic Fare Collection System (AFCS) for Bus Rapid Transit System (BRTS), Amritsar

Addendum 1 - Part 1 and 2

June 17, 2016

Please Note: Incase of any difference/variation in the provisons of the RFP / Addendum(s) from the clarifications issued to the Pre-Bid Queries, the Provisions of the RFP / Addendum(s) shall prevail. The Reply to Pre-bid queries shall in no way change the Provision of the RFP / Addendum(s).

Issuing Authority: Punjab Bus Metro Society (PBMS)

Sr No	Clause no	Page No.			RFP Reference					To be read as		
1	Tender Notice	4	•Last [Last Date of Uploading the RFP: till 1500 Hrs on 23.06.2016.				•Last Date of Uploading the bid: till 1500 Hrs on 05.07.2016.				
2	Tender Notice			Technical Bid Opening: 1530 Hrs on 23.06.2016. Financial Bid Opening: 1530 Hrs on 08.07.2016.					 Physical Bid Submission: 1500 Hrs 07.07.2016. Technical Bid Opening: 1530 Hrs 07.07.2016. Financial Bid Opening: (To be intimated later on) 			
3	Appendix 5	82	Opera	Operators to operate the system					Operators to operate the Central Control Room System			
4.				CAPEX PAYMENT MILESTONES (CAPEX SHALL NOT EXCEED 60% OF TOTAL CONTRACT PRICE)				CA		MILESTONES (CAPEX SHALL OF TOTAL CONTRACT PRICE)	NOT EXCEED 60%	
			S. No.	Payment Milestone	Payment Amount and Time line 10% of the value of	Submission and Approval required for the Payment Submission of Invoice		S. No.	Payment Milestone	Payment Amount and Time line	Submission and Approval required for Payment	
				Advance	Request Order within 15 days from the date of issuance of Request			1	Mobilization Advance	10% of the value of Request Order within 15 days from the date of	Submission of Invoice & BG of equivalent	

2	Delivery and Installation of Hardware and Software. Successful	Order and submission of Invoice 40% of the value of Request Order within 30 days from the delivery and installation of Hardware and Software specified in Request Order. 30% of the value of	Submission of required documents (Such as Challan etc) and Invoice by the Service Provider on Pro Rata Basis. Issuance of Project	2	Delivery and Installation of Hardware.	issuance of Request Order and on submission of Invoice & BG of equivalent amount 30% of the value of Request Order within 30 days from the delivery and installation of	amount as given in Annexure-1. Submission of required documents (such as Challan etc.)
	Commissio ning	Request Order shall be disbursed as following: 10% of the value of Request order on commissioning of equipment mention in	Acceptance / Go Live Certificate and Invoice	3	Successful Commissioni	Hardware as specified in Request Order. 40% of the value of Request Order shall be	and Invoice by Service Provider on PRO RATA BASIS. Issuance of issue of Project
		the request order 10% of the value of Request order on commissioning of respective BRTS Corridor 10% of the value of			ng including	disbursed as following: • 10% of the value of Request order on commissioning of equipment mention in	Acceptance/ go Live Certificate.
4	Three months of	Request order on Syncing completion with Control Room System. 10% of the value of Request Order within 30	Submission of Invoice			the request order 10% of the value of Request order on commissioning of respective BRTS Corridor 10% of the value of	
5	successful operation and Maintenance Six months of successful	days from the end of three months of successful Operation and Maintenance 10% of the value of Reguest Order within 30	Submission of Invoice			Request order on Syncing completion with Control Room System. 10% of the value of	
	operation and Maintenance	days from the end of three months of successful Operation and Maintenance		4	Three months of	Request order on Delivery and Installation of Software Application 10% of the value of Request Order within 30	Submission of Invoice and upon
					successful operation and Maintenance	days from the end of three (3) months of successful Operation and Maintenance	satisfaction of Authority of successful Operation and Maintenance

					Six months of successful operation and Maintenance	10% of the value of Request Order within 30 days from the end of six (6) months of successful Operation and Maintenance	Submission of Invoice and upon satisfaction of Representative of the Authority of successful Operation and Maintenance
				ii	in given in Annex (6) months from the control of th	Advance Payment, the Bank cure -1. Validity of Bank Guthe date of submission. For does not avail mobilization bilization Advance shall be very and Installation of Hard ays the handover of that stallead time mentioned in the tion of material supplied as	n advance, then the released along with ware. ation, for more than e Request order, on bidder shall be paid
5	20 (d)	114	In case where pre-existing software or hardware are customized/modified for PBMS use by the Service Provider, the IPR for the same shall rest with the Service Provider only. However Service Provider agrees to provide PBMS the rights to use such product beyond the Contract Period of this agreement. PBMS may at its sole discretion demand evidence of pre-existing of any such product.	the onl right this	tomized/modifi IPR for the sam y. However Serv nts to use such p s agreement at r	existing software or hand ed for PBMS use by the e shall rest with the Se vice Provider agrees to product beyond the Core no additional cost to PB lemand evidence of pre	e Service Provider, rvice Provider provide PBMS the ntract Period of BMS. PBMS may at
6	2.1	137	Consortium The parties do hereby irrecoverably constitute a consortium (the 'Consortium') for the purpose of jointly participating in the bidding process for the project. The parties agree that the number of members in the Consortium shall not exceed Two(2) members.	Cor Th cor par par	nsortium e parties do her esortium (the 'Co ticipating in the ties agree that t	eby irrecoverably const onsortium') for the pur bidding process for the the number of member ot exceed Three (3) me	pose of jointly e project. The rs in the

7	6.1	138	The Parties agree that the proportion of shareholding among the Parties in the Consortium shall be as follows: (i) The Lead Member: shall hold the beneficial stake of at least 51% (Fifty one per cent) in the Consortium at all times till the completion of the scope of work under the Service Provider Agreement. (ii) Other Member: [to be inserted]	The Parties agree that the proportion of shareholding among the Parties in the Consortium shall be as follows: (i) The Lead Member: shall hold the beneficial stake of at least 51% (Fifty one per cent) in the Consortium at all times till the completion of the scope of work under the Service Provider Agreement. (ii) Second Member: Whose qualification criteria to be used shall not be less than 26 % [to be inserted] (iii) Third Member: [to be inserted]
	<u>'</u>		Part 2	
8	2.1.1	7	2.1.1 Level 1: AFCS Media Media shall have the information in encrypted format and enable the passenger to access the services o Smart Cards o RFID Single Journey Coins/ tokens	2.1.1 Level 1: AFCS Media Media shall have the information in encrypted format and enable the passenger to access the services o Smart Cards o RFID Single Journey Coins/ tokens o Paper Tickets with Barcode (to be used in case of emergency / station AFCS not working / to be issued via ETM / POS machines)
9	3.1	11		2) Conceptual, preliminary, and final software design reviews with the PBMS, including but not limited to: the software requirements specification, software architecture, logic flow diagrams, and verification and test approach. System should be designed to ensure no revenue leakage at any point from the system and should discourage manual intervention.

10	3.2.1	11	1. Shall support scalability both vertically (scale-up) and horizontally (scale-out) across Architecture tiers. 2. Shall ensure well-balanced load distribution on the various hardware and software component to ensure that no congestion in any of the solution hardware components occurring with the growing load on environment. 3. Shall propose suitable multi-processor servers capable of handling the calculated loads. Multi-processing must be natively supported by the hardware serves and operating system to support scalability. In case of cloud solution Service provider shall ensure the scalability and load balancing	 Shall support scalability both vertically (scale-up) and horizontally (scale-out) across Architecture tiers. Shall ensure well-balanced load distribution on the various hardware and software component to ensure that no congestion in any of the solution hardware components occurring with the growing load on environment. Shall propose suitable multi-processor servers capable of handling the calculated loads. Multi-processing must be natively supported by the hardware serves and operating system to support scalability. In case of cloud solution Service provider shall ensure the scalability and load balancing. System as a whole should be able to cater a scalability of atleast 5 times of existing system requirements.
11	3.4.2 B I.	23-24	Function Gate arrays shall be the normal-means of controlling entry to and exit from the paid areas. Control shall be by means of actuating a physical barrier on recognition of a valid token or card by the gate.	Function Gate arrays shall be the normal-means of controlling entry to and exit from the paid areas. Control shall be by means of actuating a physical barrier on recognition of a valid token or card or paper ticket by the gate
12	3.4.2 B III.	24-25	Other Media acceptable: RFID Tokens	Other Media acceptable: RFID Tokens, Paper tickets with Barcode
13	3.4.2 B V.	25	Recognition system, card readers and Card Validators can hide in the cabinet	•Recognition system, card readers , Barcode reader and Card Validators can hide in the cabinet
14	3.4.2 B VI.	26	● IP : 54	• IP: 32

15	3.4.5 A.	30	Handheld Terminals for Ticket Inspection/issue of tickets	Handheld Terminals for Ticket Inspection/issue of tickets
			The service provider shall provide handheld terminals	The service provider shall provide handheld terminals along
			capable of reading contact less smartcard / token for spot	with its necessary software application capable of reading
			checking purposes. The handheld device shall be able to	contact less smartcard / token for spot checking /
			issue tickets and validate smart card in case of power failure	emergency ticketing purposes. The handheld device shall be
			or any other emergency cases. The handheld shall read	able to issue tickets and validate smart card in case of
			smartcard/token and display card information including last	power failure or any other emergency cases. The handheld
			transaction details in-order to ascertain travel details from	shall read smartcard and token and display information
			compliance perspective.	including last transaction details (for cards) in-order to
				ascertain travel details from compliance perspective.
				Handheld terminal Unit shall be able to issue paper tickets
				with barcode print of the transaction data, which shall be
				read at the exit station by the HTU or by the Flap Barrier. To
				make it clear, In case exit station AFCS is not working one
				HTU shall be placed at each station for operation hours, to
				read paper tickets (with barcode) issued from any other
				station. Data of these transactions shall be sent real time to
				Central location for reconciliation. At the end of shift,
				report of barcode transactions from HTU shall be generated
				for reconciliation. In case the system on exit station is
				working barcode ticket shall be read on the Flap gate.
				Barcode reader is also required on the Flap barrier for same
				purpose.
16	3.4.5 A. i)	31		
			The HTU should have capability of GPRS interface. The HTU	The HTU should have capability of GPRS interface. As an
			shall have an 802.11b/g compatible Wi-Fi module connected	option to GPRS, HTU can have 802.11b/g compatible Wi-Fi
			to an external antenna for data transfer and communication	module connected to an external antenna for data transfer
			of high volume of data and application down loads to the	and communication of high volume of data and application
			depot system.	down loads to the depot system. In case of Wi-fi the
				necessary communication equipment to be supplied by the
				bidder under the same cost.

17	3.4.5 A. iv)	33	Interface Local Wireless: ZigBee / Bluetooth	Interface Local Wireless: ZigBee / Bluetooth/ GPRS/ Wi-Fi.
18	3.5	34	Call Centre Management Service provider shall be required to implement a call management system which shall enable people to communicate internally and externally. Call centre system shall act as a communication carrier mechanism and shall help different stakeholders within the system to respond to desired activities in a pre-determined systematic manner for resolution. This system shall include call management system including PC's, Call handling equipment and EPABX	Call Centre Management Though the Call Centre shall be operated by a separate operator, which presently is in the scope of a separate tender of ITMS, but the AFCS vendor is expected to provide coordination in the call centre for use of feed AFCS system for MIS, decision making, reporting and other functions as may be required for operation of BRT system.

Note: Bidders are requested to visit regularly https://etender.punjabgovt.gov.in and www.pidb.org for future corrigendum's, clarifications, addendums, if any.

BANK GUARANTEE FOR ADVANCE PAYMENT

BG No dated
(Name and address of the Client)

We further agree that no change or addition to or other modification of the terms of the Contract or of Works to be performed there under or of any of the Contract documents which may be made between[name of the Client] and the service provider, shall in any way release us from any liability under this guarantee, and we hereby waive notice of any such change, addition or modification.

This guarantee shall remain valid and in full effect for months [insert period of bank guarantee] from the date issue of this bank guarantee against advance payment under the Contract until [name of the Client] receives full repayment of the same amount from the service provider. The validity of the Guarantee may be extended for such period, as may be required, by the Bank at its sole discretion and written request of the service provider.

Any demand for payment or notice if it is sent by post or delivered by hand should be received at the counter of the bank. This guarantee shall be governed by the laws of India and shall be subject to the jurisdiction of courts and tribunals at[insert place of issuing bank branch address]

	Notwithstanding anything contained herein above: -
l.	Our liability under this Bank Guarantee shall not exceed its INR
II.	This Bank Guarantee shall be valid up to and
	We are liable to pay the guaranteed amount or any part thereof under this Bank
	Guarantee only and only if you serve upon us a written claim or demand at [Bank's
	Name and Address of Issuing Branch or Office] on or before[insert expiry
	date of bank gurantee]
	Bank Limited
	(Signature of the Authorized Official)
	(Name & Designation with Bank Stamp)