



JAIPUR METRO

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F.7 (C-188) JMRC/S&T-1B/JS21-Part-III/2016/1772

Date: - 23.01.2019

ADDENDUM - A1

Sub:- Addendum no. A1 to ICB No. JP/JS21: (Design Manufacture, Supply, Installation, Testing and Commissioning of Automatic Fare Collection Systems JMRC Phase- 1B).

With reference to the subject cited above, the addendum details are as follow:-

SN	BID Document	Page No.	Clause No./ Item No.	Addendum/ Corrigendum	Remarks
1.	Section 4	Page No. 60 & 61	Annexures	Annexure numbering Updated	Page No. 60 & 61 is replaced with Page No. 60R & 61R
2.	Section 8	Page No. 30	Clause-29	Clause Updated	Page No. 30 is replaced with Page no. 30R
3.	Section 8	Page No. 64	Annexure-III, Item VII	Clause Modified	Page No. 64 is replaced with Page No. 64R
4.	Section 6	Page No. 5	Chapter 2 Clause 2.1.2	Clause Updated	Page No. 5 is replaced with Page No. 5R
5.	Section 6	PS Appendix 2.3	Appendix 2.3	Spare Quantity Detailed	Appendix 2.3 is updated
6.	Section 6	15	Clause 4.1.23 (v)	Clause Updated	Page No. 15 is replaced with Page No. 15R
7.	Section 6	50	Clause 5.5.2 (5)	Clause Updated	Page No. 50 is replaced with Page No. 50R
8.	Section 6	4 of 5	GS Clause 4.3.5.4	Clause Updated	Page No. 4 of 5 is replaced with Page No. 4R of 5
9.	Section 6	18	Clause 4.1.35(18)	Clause Updated	Page No. 18 is replaced with Page No. 18R
10.	Section 6	43	Clause 5.3.3(7a)	Clause Updated	Page No. 43 is replaced with Page No. 43R
11.	Section 6	42	Clause 5.3.2 (e)	Clause Deleted	Page No. 42 is replaced with Page No. 42R
12.	Section 6	47	Clause 5.3.4 (29)	Clause Deleted	Page No. 47 is replaced with Page No. 47R
13.	Section 6	102	Clause 12.6	Clause Deleted	Page No. 102 is replaced with Page No. 102R

(Ashok Maurya)
GM/S&T/JMRC



ANNEXURE C-B

A1

SECTION EW-B -- CHOTI CHOUPER TO BADI CHOUPER& OCC

COST CENTRE A – PRELIMINARIES AND GENERAL REQUIREMENTS

Cost Centres	Description of Cost Centres	Foreign Currency (1)	Local Currency		
			(2) ^a	GST (3)	Total (4)=(2)+(3)
A	Preliminaries and General Requirements				
B	Detailed Design				
C	Manufacture and Delivery				
D	Installation and Site Testing				
E	System Acceptance Tests, Integrated Testing and Commissioning				
SECTION TOTAL CARRIED TO TENDER TOTAL					

Annexure-D

A1

SECTION MS – MISCELLANEOUS

Cost Centres	Description of Cost Centres	Foreign Currency (1)	Local Currency		
			(2) ^a	GST (3)	Total (4)=(2)+(3)
A	Training				
B	Spares, Special Tools, Supervision of Maintenance & Defect Liability Period				
SECTION TOTAL CARRIED TO BID TOTAL					



ANNEXURE C
SECTION EW-B - CHOTI CHOUPER TO BADI CHOUPER& OCC
COST CENTRE A- PRELIMINARIES AND GENERAL REQUIREMENTS

This Cost Centre comprises all those obligations and ongoing activities throughout the Contract not associated directly with any other Cost Centre.

This Cost Centre includes but is not limited to :

- Works Program for JP/JS21(1B) Contract.
- Setting up to Site Offices & Related Activities
- Submission of Plans for JP/JS21(1B) Contract and their review by Employer's Representative with "No Objection" or as "No Objection Subject To" such as:
 - Preliminary System Assurance Plans
 - EMC Management Plans.
 - RAMS Plans
 - Software Quality Assurance Plans.
 - Quality Plans
 - Site Safety Plans.
 - Site Environmental Plans.
- Submission of Interface Management Plan mutually agreed and signed with Designated Contractors.
- Submission of Preliminary System Design for JP/JS21(1B) Contract and its review by Employer's Representative with "No Objection" or as "No Objection Subject To"
- Submission of System Verification and Validation Documents for complete JP/JS21(1B) Contract and its review by Employer's Representative with "No Objection" or as "No Objection Subject To"
- Submission of Specifications for station equipments of EW-B section & OCC for Complete JP/JS21(1B) Contract and their review by Employer's Representative with "No Objection" or as "No Objection Subject To".
- Submission of Interface Management Plan with requirement of power, space and mounting details for EW-B Section& OCC
- Any other item(s) considered necessary to comply with the Scope of Work



		<p>If the Contractor fails to remedy any defect or damage within such time as the Employer / Engineer may deem to be reasonable, the Employer or the Engineer may fix a date on or by which to remedy the defect or damage, and give the Contractor reasonable notice of such date. If the Contractor fails to remedy the defect or damage by such date and the necessity for such work is due to a cause stated below :-</p> <ul style="list-style-type: none"> • the design of the Works; • Plant, Systems, Materials or workmanship not being in accordance with the Contract; or • failure by the Contractor to comply with any of his other obligations <p>If in the opinion of the Engineer, such necessity is due to any other cause, he shall determine an adjustment to the Contract Price, with the approval of the Employer, and shall notify the Contractor accordingly.</p> <p>The Employer may (at his sole discretion):</p> <ol style="list-style-type: none"> 1. carry out the work himself or by others, in a reasonable manner and at the Contractor's risk and cost, but the Contractor shall have no responsibility for such work: the costs incurred by the Employer in remedying the defect or damage shall be recoverable from the Contractor by the Employer; 2. require the Engineer to determine and certify a reasonable reduction in the Contract Price; or 3. if the defect or damage is such that the Employer has been deprived of substantially the whole of the benefit of the Works or parts of the Works, terminate the Contract in respect of such parts of the Works as cannot be put to the intended use, the Employer shall then be entitled to recover all sums paid for such parts of the Works together with the cost of dismantling the same, clearing the Site and returning Plant, Rolling Stock and Materials to the Contractor
		<p>Supervision of Maintenance</p> <p>The Contractor shall provide experts for Supervision of Maintenance. The deployment of these Experts may not be continuous and they may be required to supervise the maintenance in short periods at a time. The number of man-months of Experts shall be <u>Four Two</u>.</p> <p>These Experts shall work under the administrative control of the Employer. These Experts shall ensure that the Client's maintenance staff acquire necessary skills and follow correct procedures and practices in the maintenance, overhaul and repairs of equipment and components for <u>Telecom AFC</u></p>

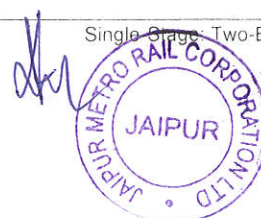
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Annexure-IIIREQUIREMENTS UNDER GCC/SCC

S.N	DESCRIPTION	Clause Ref.	REQUIREMENT
i	Amount of Performance Security	Clause 11 of the SCC	10% of the Contract Price in types and proportions of currencies in which the contract price is payable. In the event of variations during the execution of the contract which result in payments to the Contractor over and above the contract price, the Performance Security shall be suitably adjusted.
ii	Latest 'date for commencement' of the Works	Clause 4 of the SCC	As per the referred clauses of SCC
iii	'Time for completion' of the work from the date of commencement of the work	Clause 8.2 of the GCC	As per key dates in Appendix-4, Section 9 of Contract.
iv	Liquidated Damages	Clause 28 of the SCC	i) 0.05% of the fixed Lump Sum price per day of delay for the Key Dates related to the Taking-Over of a Section, and the Taking-Over of the whole of the Works. ii) 0.005% of the fixed Lump Sum price per day of delayed other than the ones relating to the Taking-Over of a Section. iii) The maximum limit shall be 10% of the contract price.
v	'Defects Liability Period' for the whole of the Works	Clause 29 of the SCC	As per clause 29 of SCC from the date of ROD for the equipments and systems employer starts using and accepted by employer for DLP.
vi	Amount of advance payment	Clause 10 of the SCC	As per the referred clauses of SCC
vii	Amount of Professional Indemnity Insurance (PII). (for the contracts having Design in	Clause 52 50 of SCC	Rs 6.6 million

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CHAPTER-2

SCOPE OF WORKS

2.1 SCOPE

2.1.1 The scope of the works includes:

- a. Design, manufacture and supply of AFC equipments for 2 stations of Phase-1B. This also includes supply of local items, installation, testing and commissioning of AFC equipments for 2 stations of Phase-1B.
- b. It includes expansion of existing AFC system of JMRTS by adding two new stations, either directly or through any other acceptable technical solution e.g. via a separate central server(CC2). The contractor shall interface with Phase-1A central computer for seamless integration between Phase-1B & Phase-1A AFC system. The proposed solution shall work in synchronization with existing AFC system of Phase 1-A of JMRC.
- c. Station wise list of equipments are given in Appendix '2.1, 2.2, 2.3 & 2.4'. The delivery includes all the items which have not been included in this list but are a part of proposed solution and are required for implementation at all levels: Central level, Station or Equipment level.
- d. Necessary upgradation of station level equipments of Phase 1A section to accommodate expansion of 2 station of Phase 1B for seamless travel of passengers.

2.1.2 If applicable:

The AFC system design shall meet the Jaipur Metro requirement for handling at least 2 stations (expandable further beyond 30 but not to be limited by any configuration parameter). The Central system should be scalable and integrable for Jaipur Metro future extensions (for data handling capacity as well as number of lines / stations / equipments and smart cards by addition of extra hardware/upgradation of existing hardware).

- 2.1.3 The system shall support inter-operability for smart card with different operators using the same smart card, to the extent applicable.
- 2.1.4 The system shall integrate with the existing merchant bank. The contractor shall interface with the banker for ensuring provision of all banking services as being used in Phase 1A to be applicable for Phase 1B.
- 2.1.5 The Contractor shall follow the schedules of works and supply and shall complete the sections of the works by the key dates set out in the bid document. Schedule of key dates and access dates are at Appendix '15.1 & 15.2' of PS.
- 2.1.6 Phase 1B AFC system shall meet existing JMRC business rule placed at Appendix 12.1 and shall be designed keeping in view further business tools expansion/modification requirements.



Appendix 2.3

List of Spares for Automatic Fare Collection for Jaipur Metro Phase 1B

S.No.	Item	Quantity
1.	Gate Cabinets a. <u>SMa = 2</u> b. <u>SHWa = 1</u> c. <u>SMb = 2</u> d. <u>SMc = 1</u> e. <u>SE = 2</u>	8
2.	AVM cum TR	1
3.	TOM/EFO	1
4.	CSC R/W	5
5.	Station Computer	1
6.	TVM	2
7.	Data Switch	2
8.	Station Router	2
9.	Switch/router rack with patch panel, connector etc. complete	2
10.	Electrical Cabinet (C)	2
11.	Electrical Cabinet (B)	2
12.	Electrical Cabinet (A)	2
13.	Swing Barrier	2
14.	CPU Racks	2
15.	Emergency Switch	2
16.	Spares Parts installed quantity as per Appendix2.4	LS

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- iv) For TOM – “machine out of service”, “not on LAN” and fault status.
- v) For AVM- “ ~~Bank note Cash Box nearly full~~”, “ ~~Bank note cash Box full~~”, “not on LAN”, “~~Bank note Jam~~”, “ machine out of service”.
- vi) The SC shall include facilities to permit detailed interrogation of station AFC equipment status. As a minimum, the following additional detailed status information shall be made available at the SC, in order to optimise the efficiency of station operations:
 - a) For TVM – “current fill level of coin cash box”, “current fill level of bank note cash box”, “current fill level of change hoppers” and “current fill level of CST container”; and
 - b) For exit AG - “current fill level of CST capture bins”.

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4.1.24 Loss of communication with any connected AFC device shall be immediately and clearly displayed on the status screen of the SC terminal in the SCR.

4.1.25 Selected status information and fault alarms shall be transmitted to the CC1 or CC2, if applicable, in real time.

SC Reports

4.1.26 The SC shall be capable of processing data to print selected reports at the station for use by station operations and revenue staff.

4.1.27 TOM operator end of shift reports shall be available within ten minutes of the end of shift to enable station supervisors to reconcile cash box contents with the TOM operators before these operators leave the station.

4.1.28 NOT USED.

4.1.29 Historical reports shall be processed at the end of the operating day and shall be available to be viewed or printed not later than the start of revenue service on the next operating day.

4.1.30 Historical reports shall include but not be limited to:

- i) Daily Station Summary Report, summary totals of passengers in and out, tickets vended, cash received or refunded, booking office transactions.
- ii) Entry/Exit Gate passenger flow, totals in, totals out. Each CSC transaction date and time recorded.
- iii) CST and CSC sold and refunded from ticket offices by class of CSC;
- iv) CSC add value transaction summary by class of CSC including stored value, trip and period pass fare products;
- v) Traffic report showing passengers in and passengers out per 15 minutes period throughout the operating day with sub-totals for each hour and grand total for the day.



5.5 **TICKET VENDING MACHINE (TVM)**

5.5.1 **Functionalities**

The TVM shall have all required functionalities such as:

- 1). User friendly robust design and ergonomics catering to disabled people also. Housed in a suitable tamper-proof stainless steel casing with all security features incorporated at hardware and software level to make it vandal-proof. Unauthorized access prevention. Smart card / PIN based access. Mechanical assembly of door lock for TVM should be robust.
- 2). Process contactless smart media for ticket issuance (CST), add-value (CSC), cancel etc. Ticket issued at TVM should be refundable at TOM.

5.5.2 **Features**

- 1). Cabinet- Approximate Dimension: 1800mm (H) x 950mm (W) x 800mm(D), Thickness : 2mm, Material: stainless steel, Front maintenance access.(Exact dimensions shall be finalized during design stage. The degree of protection provided by the enclosure against dust, splashing, intrusion of foreign objects shall be to the standard IP54. (IP-33 for inlets).
- 2). **Printer** - for receipts for all transactions and end-of shift report. Receipt can be printed in both Hindi and English. Size of paper roll should be minimum 2000 receipt /roll.
- 3). Interactive touch screen (TFT, 17 inch) display with single touch feature (not cursor based) for interactive transaction processing. Route map for destination station selection.
- 4). **Passenger Display** - For patron guidance multi-lingual instructions (English / Hindi) with passenger enabled selection. Audible alarms and events.
- 5). **Coin / Currency note Recycler& sorter mechanism** - The system shall have the facility of recycling of deposited notes for providing balance amount to the passenger. The banknote recycler mechanism shall be high performance, extremely reliable, proven and must be procured from a reputed manufacturer such as MEI, Bill to Bill or any other similarly renowned source which shall also meet Reserve Bank of India (RBI) guidelines. The banknote recycler unit shall also be equipped with banknote loader mechanism. The Bank Note Loader shall have a capacity to hold minimum ~~1000~~ 300 notes of two types each. TVM shall be capable of returning change with best combination of coins and Bank Notes. Coin change shall be provided in two denominations which may be configurable to any two out of Re1, Rs2, Rs5 or Rs 10 coins. Two Coin Containers shall be provided. Coin Container Capacity should be 1000 for each type of coin.
- 6). TVM shall have atleast one token box and also one error token box. Capacity of Error token box shall be 300 tokens at least. Exact token quantities to be maintained. This stock data shall be sent to CC2/SC on container replacement automatically.
- 7). Handle currency notes in denominations of Rs. 5, 10, 50 100, 200, 500 & 2000currency be made & any other new currency as introduced by government till finalization of design whichshall be configurable. It shall reject torn / counterfeit/invalid notes or any other foreign object. Four way insertions of Notes shall be possible.

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Contractor's responsible engineer in the format shown in Appendix 3 of this Specification, to confirm that, in the opinion of the Contractor, the submission:

- (1) complies with all relevant requirements of the Specification;
- (2) conforms to all interface requirements;
- (3) contains, or is based on auditable and proven or verified calculations or design criteria;
- (4) has been properly reviewed by the Contractor, according to the Contractor's QA system, to confirm its completeness, accuracy, adequacy and validity; and
- (5) has taken account of all requirements for approval by statutory bodies or similar organisations, and that where required, such approvals have been granted.

4.3.5.4 The Employer's Representative's response to the submission will normally be made within 30 calendar days of receipt of the submission, provided that the submission is made no later than the date shown on the Submissions Programme described in clause 2.5 above. The Employer's Representative may extend the review period depending on the amount of documentation accompanying the submission.

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4.3.5.5 Throughout the design period, the Contractor shall attend monthly design review meetings with the Employer's Representative. At these Employer's Representative's review meetings, the Contractor shall present information, drawings and other documents to the Employer's Representative in respect of all submissions programmed to occur during the following five week period. The Contractor's presentations shall be in sufficient depth to enable the Employer's Representative to obtain a clear understanding of the Contractor's proposals and to discuss the methodology and process used in reaching the proposed design solutions. Unless directed otherwise by the Employer's Representative, all meetings shall be convened in Jaipur.

4.3.5.6 The Contractor shall record all of the Employer's Representative's observations and any agreed actions resulting from the Employer's Representative's review meeting and shall address each of these fully before submission of the respective documents for formal review.

4.3.5.7 If, in the Employer's Representative's opinion, following receipt of a submission there is benefit to be gained from a meeting with the Contractor to clarify or discuss any of the contents of the submission, he will notify the Contractor accordingly with not less than 5 days advance notice, and the Contractor shall attend at the time and place appointed by the Employer's Representative.

4.3.5.8 No submission may be made by the Contractor in respect of the Works or any sub-system, part or Section thereof unless a notice of no objection has been received for the previous stage of the same Works or any sub-system, part or Section thereof.

4.3.6 Employer's Representative's Response

4.3.6.1 The Employer's Representative will respond in one of the following three ways:

- (1) "Reviewed without Objection"
- (2) "Reviewed without Objection, Subject to"
- (3) "Rejected"

4.3.6.2 If the Employer's Representative, having reviewed the submission, has not discovered any non-compliance with the Contract, the SRR will be returned endorsed with the Employer's Representative's signature and the words "Reviewed without Objection". Receipt of such notice of no objection does not in any way imply the Employer's Representative's approval of the submission, nor does it remove any responsibility from the Contractor for complying with the Contract.



5	PCI Slots	Six total expansion slots: One PCI-Express x16 Gen2 (x8 speed); One PCI-Express x8 Gen2 (x8 speed); Four PCI-Express x8 Gen2 (x4 speed)
6	Network	Integrated Dual Port Gigabit NIC
7		Support for 10/100/1000 networks
8	Disk Drives	3*72GB 15K SAS Drives
9	Storage	Onboard controller capable of support RAID levels
10		Minimum 6 numbers of drives, scalable upto 5 TB or more
11	RAID Controller	Hardware based RAID Controller with 256MB battery-backed write cache (RAID 0/1/5)
12	Optical Drives	Half-Height SATA DVD RW Optical Driv
13	Interfaces	Parallel-Optional parallel port available Serial-1 (optional 2nd serial port available) Pointing Device (Mouse)-1 Graphics-1, Keyboard-1, Network RJ-45 3 (1 dedicated for iLO 2), USB 2.0 Ports 6 (2 front, 2 rear, 2 internal)
14	Graphics	Integrated ATI RN50, 64MB video standard
15	Power Supply & Fan	Redundant power supply
16	Server Setup and Systems Management Software	System Management Software and configuration utilities for server setup, changes in configuration, update of drivers should all be included with the offer.
		The cost of server setup, configuration, installation of operating system, creation of volumes and file systems for all the servers should be all included in the cost of the offer.
		All the servers should support Standard baseboard management controller with IPMI 2.0 support
17	Remote Server Management Utility	The servers should be capable of being remotely managed, including starting, stopping and installation of software's.
		Hardware/ Software for Server/ Client, if any, required for this functionality should be included as a part of the offer
18	Operating system	The server should support industry-leading Operating System platforms including: Windows Server 2000 <u>or Latest</u>
19	Industry Standard compliance	Supports industry standard compliance including Support for ACPI V2.0, PCI-Express Gen2, PXE support, WOL Support, USB 2.0
20	Benchmarks	Model should have a certified TPC-c Benchmark

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4.1.36 The SC to ensure an orderly shutdown (in event of abrupt power failure) of the AFC system and shall as a minimum ensure that all transactions in progress are completed, all volatile data is recorded to non-volatile storage media.

4.1.37 The SC shall include facilities for automatic restart when power is restored after shutdown of the AFC system.

4.1.38 All SC equipment shall be suitably rated to enable 24hour X 7 days operation of the AFC system.



- c). The electronic module shall incorporate an electronic and physical ID number unique to each module. This number shall be transferred to the SC.

4). Passage logic controller

This module in gates shall be used for logic and control operation. The use of Electro-magnetic components shall be reduced to minimum.

5). Gate Non Resettable Registers

- a). The contents of the non-resettable registers shall be transmitted to the SC. The registers shall include, but not be limited to the following information:
- Number of passenger for different ticket type entered / exited.
 - Value charged to different ticket types.
 - Number of tokens processed.
 - Individual register on the number of transactions failed (entry mismatch, exit mismatch, excess time, overstep etc.)
 - Number of times out of service
 - Number of times in maintenance mode
 - Number of times gate forced open.
 - Number of times tailgating.
- b). There shall be at least 25% spare registers available for future use.

6). Ticket capture

- a). Tokens after completion of journey shall be captured at exit. Should there be any positive remaining value on a token after the completion of the journey, the exit gate shall encode the remaining value to zero and capture these tickets regardless of the unused remaining value.
- b). Gates shall give alarm / warning to station computer when its bin is 75% full (which should be configurable). If the collecting bin is full, the gate shall go into 'out of service' mode.
- c). The Contractor shall propose user friendly and efficient methodology for capture of tokens in gates. Exit gates shall validate and capture tokens in single presentation. In case ticket is not valid, the gate shall reject it at token acceptor shutter or return it to the passenger and a corresponding error message should be displayed on the PID. After the token is collected by the passenger, the gate should activate the card reader and wait for another ticket.
- d). Token captured at exit gate shall be counted and recorded by audit register. Token count accuracy by Gate should be more than 99.8% in normal operation.

7). Gate Passenger Information Display

- a). The Passenger Information Display (PID) shall be LCD/LED screen type (approx 6.5 inch), located on top of the gate flush with the top panel. The display shall be a programmable capable of displaying information in English and Hindi. It shall be capable of displaying pictograms.
- b). The display shall also be capable of displaying 4 rows of 30 alphanumeric characters, 12 mm high and include some special characters such as direction arrow and no entry symbol. At validation of ticket, the ticket type and amount shall

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	presenting a ticket on a "first-come-first-served" basis i.e simultaneously it serves both directions.
d). Wide Gate for Disabled / Luggage	Wide Disabled Gate shall be provided normally adjacent to the Excess Fare office, will allow those passengers in wheel chairs to validate their ticket and gain access to, or exit from the paid area. This can also be used as luggage gate.
e). QR code compatibility	Automatic Gates having QR code compatibility shall be provided in numbers as per required in entry/exit arrays as per BOQ. These gates shall fulfill all requirements as stated in this contract but shall additionally have QR code decoding compatibility. The employer intends to have QR code functionality in fixed no. of entry/exit gates at Phase 1-A and Phase 1-B with its own server. The contractor shall assist employer in implementing QR code functionality in QR compatible gates at Phase 1-B stations.

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5.3.3 Common Design features for Automatic Gates

1). General Requirement:

- a). The design and construction of the Entry Gate and Exit Gate and Reversible Gates shall have common Components and subsystems. It shall be possible to convert an Entry Gate or Exit Gate to Reversible gate and vice versa by changing configuration and adding/removing modules.
- b). The Entry and Exit And Reversible Gates shall read, check and verify data on the fare media re-encode with new data and allow passage by releasing a barrier only if the fare media is valid. If the fare media is not valid the barrier shall remain closed. A display shall instruct the passenger accordingly.
- c). The reversible gate shall have the same overall dimensions as the Entry and Exit gates and combine the functions and features of both.

2). Dimensions and Spacing

- a). Maximum outside dimensions of the gate cabinet shall be generally based on following criteria :

Length	1900mm
Width	300mm
Height	1110mm

- b). The positioning of the readers and collection slot for tokens has to be designed in such a way to ensure passengers to proceed without stopping through the gate.
- c). Above parameters shall be finalized during design stage and prototype approval.

3). Electronics Module

- a). The gates processor shall control and process data from the readers, PLC, PSU and other modules.
- b). The electronics module shall include activated non-resettable electronic registers which shall retain their reading when power is removed. They shall not be easily removed without the requirement for an audit trail.



	Unique alarms for intrusion, fraud, tailgating, container-full / nearly empty, invalid ticket, internal UPS failure, access-door open, over-heating.
20). Environment	<p><u>Operation</u></p> <ul style="list-style-type: none"> 0° to +65°C external RH (Equivalent test 95% at 35°C) <p><u>Storage</u></p> <ul style="list-style-type: none"> -20° to +70°C external 95% (without condensation)
21). Cables	Standard cables to be used for internal wiring. Precise / orderly routing, lacing and labeling.
22). Gate modules & accessories	Standard, easily available All modules should be arranged in a manner so as to facilitate quick / easy replacement in case of failure.
23). Power Failure	In the event of power failure to the gates, the gates shall open to allow unrestricted passenger access.
24). Gate Modes of Operation	<ul style="list-style-type: none"> Normally open / close In Service / Out of Service Other modes as defined in Chapter 2,3 of PS <p>Above modes can be set from CC / SC / Gate</p> <ul style="list-style-type: none"> Emergency mode set from Gate / Changeover switch at EFO
25). Throughput	45 passengers per minute (PPM) for SJT.
26). Performance	
a). General	Capable to process upto 35,000 passages per day.
b). MCBF	40,000 cycles
c). MCBJ	100,000 transactions
d). MTTR	30 minutes
28). Entry/Exit within same station	Following provision at gate level is required: Gate should not allow the exits from the same station within user defined time limit after entry from same station.
29). QR-Code reader	Designated no. of gates as per BOQ shall have QR code readers to enable decoding of QR codes.

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5.3.5 Gate Installation

- The stanchion frame shall be secured to the floor by at least four stainless steel bolts of minimum diameter 15mm.
- Cables shall be terminated within the gate no less than 300 mm above the finished floor surface. Cable entry from the under floor ducting shall be sealed from the cable duct.



- 5) The Contractor's staff shall be available on site for maintenance support within one hour upon receiving the call-out request from the Employer and shall proceed to perform corrective actions to restore the system to normal full operation.
- 6) The Contractor shall take every precaution to protect existing equipment from damage, and make good any damage caused.
- 7) Should any abnormal system behaviour like intermittent faults, interference, frequent repeated faults, etc, or the performance be found to deviate from the specified tolerances, the Contractor shall conduct investigation and report the findings to the Employer together with the recommendation and proceed after the recommendation has been reviewed without objection by the Employer.

4) **Monthly Maintenance Meeting**

The Contractor shall attend the Monthly Maintenance Meeting with the Employer to discuss the maintenance matters during the Defects Liability Period. The dates and agenda of the meeting shall be agreed with the Employer.

~~12.6~~ AMC SERVICES

~~The Contractor shall provide AMC services as per the terms and conditions listed in Appendix 12.1.~~

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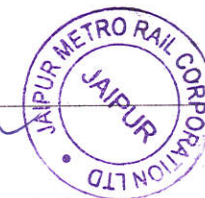




JAIPUR METRO

JAIPUR METRO RAIL CORPORATION LIMITED3rd Floor, RAJSICO Building, Udhayog Bhawan,
Tilak Marg, C-Scheme, Jaipur-302005**Annexure - A****JP/JS 21 (1B) Pre-Bid Queries Reply**

Sr. No.	Section	Clause No.	Clause	Bidder's Query	JMRC's Reply
1.	Section 3	2.4.2.	Design, Manufacturing, Supply, Installation, Testing and Commissioning of AFC system in Metro Rail / other transit system / Railways across countries given in Section 5 for least one work of type & nature given below* :- 1.) AFC System network for minimum two stations/ locations including Central Server/ Computer. OR 2.) Expansion/ up gradation of existing AFC system of third party to integrate Minimum two additional stations 2. Expansion/ up gradation of existing AFC system of third party to integrate Minimum two additional stations.	Please clarify that the term <u>manufacturing</u> here also <u>include AFC software</u> . This is because many AFC bidders have their AFC software platform as the main solution and they procure other AFC hardware from reputed partners for every project.	All components of AFC system are included.
2.	Section 3	2.4.2	Design, Manufacturing, Supply, Installation, Testing and Commissioning of AFC system in Metro Rail / other transit system / Railways across countries given in Section 5 for least one work of type & nature given below* :-	Please confirm that the other transit systems mentioned here includes the AFC solution implemented in a Gated station environment transit system covering Light Rail Transport (LRT)/ Mono Rail Transport (MRT) and Bus Rapid Transit System (CARTS) projects.	Yes.

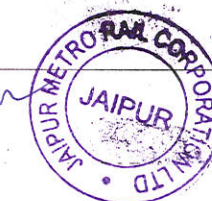




JAIPUR METRO

JAIPUR METRO RAIL CORPORATION LIMITED3rd Floor, RAJSICO Building, Udhyog Bhawan,
Tilak Marg, C-Scheme, Jaipur-302005**Annexure – A**

Sr. No.	Section	Clause No.	Clause	Bidder's Query	JMRC's Reply
			1.) AFC System network for minimum two stations/ locations including Central Server/ Computer. OR 2.) Expansion/ up gradation of existing AFC system of third party to integrate Minimum two additional stations.		
3.	Section 3	2.4.2	Note :- Activities specified in clause 2.5, section-3 can be sub-contracted subject to the ceiling limit that not more than 50% of total value of works of whole contract are sub-contracted, For all activities to be sub-contracted, contractor to submit form EXP-3 & Item No.8-Proposed Subcontractors for Major items of Plant and Services, Technical Proposal, Section 4. The ceiling limit shall be determined from Item No.8-Proposed Subcontractors for Major Items of Plant and Services, Technical Proposal, Section 4.	Request clarity on the 50% limit on subcontracted work. This is because, many AFC bidders are suppliers of proprietary AFC software only, while the rest of the AFC hardware is procured from reputed partners (sub-contractors) and thus sub-contracted price (comprising of AFC and other hardware) will exceed the 50% limit mandated for sub-contractors, though the hardware performance guarantee is given by the bidder. It is thus requested to remove the cap of 50% limit on the sub-contracted work.	COTS items purchase from OEM/Vendors shall not be considered as Sub contracted work
4.	Section 4	Price Schedules	Price Schedules	1) Please confirm if the bidder is supposed to provide only the spares for the contract term or is the bidders also supposed to undertake the annual maintenance over the term of the	1) Contract spares to be provided. Refer appendix 2.3 & Appendix 2.4





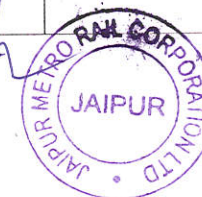
JAIPUR METRO

JAIPUR METRO RAIL CORPORATION LIMITED

3rd Floor, RAJSICO Building, Udhog Bhawan,
Tilak Marg, C-Scheme, Jaipur-302005

**Annexure - A**

Sr. No.	Section	Clause No.	Clause	Bidder's Query	JMRC's Reply
				contract. 2) In case the bidder is to also take care of the Annual Maintenance (AMC) over the contract period, please confirm the Price Schedule to be used for quoting the Annual Maintenance Operating Expenditure (AMC) over the contract term, after the ROD. Thus, please specify the Price Schedule to be used for quoting the AMC cost also, if needed.	2) AMC is not under scope of the work in this bid.
5.	Section 4	Annexure-B	It Mentions requirement of User Acceptance certificate and Performance data for the equipments supplied experience.	Please confirm that a self certification alongwith the client details and client reference letter are valid proof for user acceptance and performance data for the equipment supplied	As per the bid conditions.
6.	Section 4	Annexure-B	Annexure A is followed by Annexure C.	Annexure B is missing. Please Confirm.	Updated. Please refer Addendum-A1.
7.	Section 5	Eligible Countries	Eligible Countries	This is to request for an increase in the list of eligible countries over and above the current one, as there are quite a few European countries which do not find a name in the list. There are a few countries not in the list which have good established AFC solution providers who are keen to participate and thus the request.	As per bid conditions.
8.	Section 8	Sub Clause 12.1	Terms of Payment	Please clarify the payment plan with Milestones, for payments.	Please refer form MIS Section4, Bidding forms, for clarity.





JAIPUR METRO

JAIPUR METRO RAIL CORPORATION LIMITED3rd Floor, RAJSICO Building, Udhog Bhawan,
Tilak Marg, C-Scheme, Jaipur-302005**Annexure - A**

Sr. No.	Section	Clause No.	Clause	Bidder's Query	JMRC's Reply
9.	Section 4	Form PER-1	Form PER - 1: Proposed Personnel	Please provide the list of minimum personnel to be deployed along with the eligibility criteria as no list has been found in section-VI Employers requirement as per tender document.	This is to be proposed by the bidder.
10.	Section 4 & Section 8	PART-I BIDDING PROCEDURE Section 4-bidding Forms (Schedule No.3 Item No.10) & PART-III COC & COF Section 8- SCC (Clause No. 29)	Supervision of Maintenance	As per Bidding Form Schedule No.3, Item No.10 Quantity of Maintenance Supervisor is Mentioned -2 Man months But under Sec-8 SCC_ Clause No.29 (Sub-Clause Supervision of Maintenance) at Pg.no.30, the number of man-months of experts shall be Four (04) . Please clarify quantity of man month.	Quantity of man-month shall be Two. Refer Addendum-A1.
11.	Section 8	PART-III COC & COF Section 8- SCC (Clause No. 29)	Supervision of Maintenance	These Experts shall of equipment and components for Telecom Systems as well as for the maintenance of the related software. It seems it should be "AFC System" in place of "Telecom System" Please clarify?	Updated. Please refer Addendum-A1.
12.	Section 8	PART-III COC & COF Section 8- SCC (Clouse No. 50, Annexure-III S. No. vii & Appendix-3)	Professional Indemnity Insurance	As per Annexure-III, requirement of Professional Indemnity Insurance is Rs.6.6 million as per Clause Ref. "Clause 52 of SCC" . However requirement of Professional Indemnity Insurance is mentioned at clause no.50 of SCC. Please modify/clarify the same. The same correction also required at Appendix-3 (Insurance Requirement).	Updated. Please refer Addendum-A1.





JAIPUR METRO

JAIPUR METRO RAIL CORPORATION LIMITED3rd Floor, RAJSICO Building, Udhog Bhawan,
Tilak Marg, C-Scheme, Jaipur-302005**Annexure – A**

Sr. No.	Section	Clause No.	Clause	Bidder's Query	JMRC's Reply
13.		PART-III COC & COF Section 7-GCC (Clause No. 34.1, Annexure-III S. No. viii & Appendix-3)	Insurance Requirements	As per Annexure-III S. No.-viii, Insurance cover for Contractor's a All Risk (CAR) should be 100% of the Total contract Price. But in GCC Clause 34.1 and Appendix-3 Contractor's All Risk (CAR) Policy is not mentioned. Please clarify/modify as required?	Contractor's All risk policy to be provided as per Annexure-III, Section-8 SCC.
14.		PART-III COC & COF Section 9-Appendix-3)	Insurance Requirements	All tables are blank. No any figure written. Please clarify requirement??	Insurance are as per GCC/SCC.
15.	Section 3	2.4.1	One similar substantially completed work costing not less than the amount equal to INR 6.55* Crores of the estimated cost.	Operating a Metro AFC under a BOT model where in contract payments against the investments are made as a "%" of the ticketing revenues earned over the contract term, meeting this eligibility may not be possible, as calculating the size of the project may not possible and thus request you to drop the size of the project in value terms. Request if the same can be only in terms of a number of stations.	As per bid conditions.
16.	Section 6	Chapter-2 2.1.1-d	Necessary upgradation of station level equipment's of Phase 1A section to accommodate expansion of 2 station of Phase 1B for seamless travel of passengers.	Kindly elaborate the requirement for upgradation of Phase 1A station Level equipment to accommodate the Phase 1B Fare Media. As per Phase 1B- System should accept Tokens, Smart Cards & QR Codes, kindly provide the fare media been accepted for Phase 1A Does JMRC expect Contractor to Retrofit the Station Level equipment to accept Phase 1B Fare Media e.g. QR Code Readers?	Upgradation of Phase-1A Station level equipment includes updating interface of TOM, TVM, TR, Station Computer etc. to add two new stations. Refer PS Clause 3.2(1) also.





JAIPUR METRO

JAIPUR METRO RAIL CORPORATION LIMITED3rd Floor, RAJSICO Building, Udhayog Bhawan,
Tilak Marg, C-Scheme, Jaipur-302005**Annexure - A**

Sr. No.	Section	Clause No.	Clause	Bidder's Query	JMRC's Reply
17.	Section 6	1.6 SYSTEM DESCRIPTION, Point 6	JP/JS21 (1B) contractor shall be provided access to the documents as listed in appendix 1.2 and source code of existing AFC system by the employer to aid in integration with CC1. Any other requisites required for integration shall be arranged by the contractor. The bidders are advised to visit & examine the site and obtain the necessary information before bid submission.	In case of any particular changes required to be done at Existing AFC Software for acceptance of Phase 1B AFC, does Existing AFC Contractor will do the necessary changes in the System? Please clarify	Refer reply no. 16 & Appendix 1.2 for clarity.
18.	Section 6	Chapter-2 2.1.1- b	It includes expansion of existing AFC system of JMRTS by adding two new stations, either directly or through any other acceptable technical solution e.g. via a separate central server (CC2). The contractor shall interface with Phase-1A central computer for seamless integration between Phase-1B & Phase-1A AFC system. The proposed solution shall work in synchronization with existing AFC system of Phase 1-A of JMRC.	How the Evaluation will happen in case one Bidder proposed to implement solution based on expanding existing AFC System for Phase 1B and another Bidder proposed to provide new AFC System for Phase 1B and integrate it with Phase 1A AFC System through CC2 Can we quote for Both the Options separately?	As per the bid conditions. No.
19.	Section 6	Chapter-2 2.1.1- b	It includes expansion of existing AFC system of JMRTS by adding two new stations, either directly or through any other acceptable technical solution e.g. via a	If Bidder choose to Expand Existing Phase 1A AFC System, how it will impact on SLA for Phase 1B Equipment for e.g. Phase 1B equipment are affected due to failure of Phase 1A AFC System	As per the bid conditions.





JAIPUR METRO

JAIPUR METRO RAIL CORPORATION LIMITED3rd Floor, RAJSICO Building, Udhog Bhawan,
Tilak Marg, C-Scheme, Jaipur-302005**Annexure - A**

Sr. No.	Section	Clause No.	Clause	Bidder's Query	JMRC's Reply
			separate central server (CC2). The contractor shall interface with Phase-1A central computer for seamless integration between Phase-1B & Phase-1A AFC system. The proposed solution shall work in synchronization with existing AFC system of Phase 1-A of JMRC.		
20.	Section 8	Clause 29- Sub clause 27.2	The Defect Liability Period of a section shall start from the date of opening of the section for revenue services and shall continue until 24 months	We request to accept the DLP from Successful Commissioning of Hardware Equipment instead of ROD	As per the bid conditions.
21.	Section 3	1.3.5 Work, Services, Facilities, etc., to be provided by the Employer	JP/JS/21(1B) contractor shall be provided with space/released warehouse of approximately 600 SQM for ware house/storage/ office purpose at Mansarovar Depot for construction Phase and equivalent space elsewhere within municipal limits of Jaipur for the DLP period.	Kindly consider to provide Warehouse Only, Contractor will not be responsible to construct the Warehouse if JMRC provide Open Space for the Warehouse / Storage / Office Purpose	Released warehouse at Mansarovar Depot shall be provided. Necessary repairs/ requirements if any to set-up office/ warehouse shall be required to be undertaken by the bidder.
22.	Section 6	2.2 GENERAL REQUIREMENT S. Point 4	The system needs to be flexible and configurable designed to allow future adaptation in a multi-operator environment and government policies	This is very generic statement, request JMRC to kindly elaborate the Multi-Operator Environment	Refer item 4.3 of Appendix 4.2 & item 4.4 of Appendix 4.3.
23.	Section 6	5.3 AUTOMATIC GATE, Point 3	Automatic Top Up shall be possible on presenting the card on the Gate whenever the Card value	We recommend not to consider Auto Top Up at Gate Validator as it will adversely affect on Passenger Throughput	As per the bid conditions.

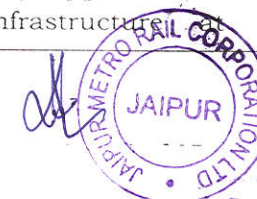




JAIPUR METRO

JAIPUR METRO RAIL CORPORATION LIMITED3rd Floor, RAJSICO Building, Udhog Bhawan,
Tilak Marg, C-Scheme, Jaipur-302005**Annexure - A**

Sr. No.	Section	Clause No.	Clause	Bidder's Query	JMRC's Reply
			reaches a minimum threshold level predefined by the user. CC2 equipment shall query CC1 (directly or via CC2) for auto top-up information and will add value as required. The complete process and Interface will be as per CC1-CC2 Interface specifications to be developed by the contractor.		
24.	Section 6	5.3.2, e	Automatic Gates having QR code compatibility shall be provided in numbers as per required in entry/ exit arrays as per BOQ. These gates shall fulfill all requirements as stated in this contract but shall additionally have QR code decoding compatibility. The employer intends to have QR code functionality in fixed no. of entry/exit gates at Phase 1-A and Phase 1-B with its own server. The contractor shall assist employer in implementing QR code functionality in QR compatible gates at Phase 1-B stations.	As per BOQ, the QR Code Reader quantity is limited for Phase 1B only. To upgrade the existing AFC System for QR Code issuance & Validation is out of scope of Phase 1B Project deliverable, Please confirm the understanding	QR code functionality is not in scope of works. Refer addendum A1 Refer Clause 6.1.1 of chapter-6 of PS.
25.	Section 6	6.1.2	Central Level	We understand that the LAN setup at Station level for Phase 1B is contractor's responsibility, any upgrade at the existing Network infra at CC1 Level due to the envisaged Transaction Load is out	Refer Clause 6.1.1, Ch-6, PS. Any upgrades to network infrastructure at OCC





JAIPUR METRO

JAIPUR METRO RAIL CORPORATION LIMITED3rd Floor, RAJSICO Building, Udhog Bhawan,
Tilak Marg, C-Scheme, Jaipur-302005**Annexure - A**

Sr. No.	Section	Clause No.	Clause	Bidder's Query	JMRC's Reply
				of Phase 1B Project deliverable, Please confirm	shall be under scope of JP/JS21 (1B) contractor.
26.	Section 6	12.6	Scope of Work for IT Infra & AFC Maintenance / Support	We understand that the maintenance and support for the existing AFC Setup (for Phase 1A) is not part of Phase 1B Project deliverable, Please confirm	Confirmed. Refer Addendum A1.
27.	Section 6	Chapter 11 Clause 11.1 12. E Page 87	E) CC INTERFACE TEST.	Can exist SDC setup be used for testing and training purpose for Phase 1B?	Yes, this shall be as per the design proposal.
28.	Section 6	Appendix 2.3 & 2.4	List of Spares	Kindly confirm if Appendix 2.3 is Buffer Stock & Appendix 2.4 is contract spares? Also upon delivery, these Spares will be stored at JMRCL designated Warehouse? Please confirm	Appendix 2.3 & 2.4 are related to Contractual spares. Spares shall be stored in JMRC warehouse after being taken over from the bidder.
29.	Section 6	2.2, 3-b	Inter-operability - To ensure that Phase 1-B equipment will be able to participate in other transit systems subject to commercial rights agreements between parties utilizing Clearing house or other relevant models.	CCHS is out of scope of Phase 1B Project, Please confirm	Confirmed.
30.	Section 6	Appendix 1.2	Any other documents/ specifications /software required to complete the scope of works of Phase 1B shall be the Bidder's obligation	Any Information/ data pertaining to Phase 1A AFC System, which is deemed necessary for implementation/ integration of Phase 1B will be provided / Facilitated by the Employer.	As per the Bid Conditions.



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JAIPUR METRO

JAIPUR METRO RAIL CORPORATION LIMITED3rd Floor, RAJSICO Building, Udhog Bhawan,
Tilak Marg, C-Scheme, Jaipur-302005**Annexure – A**

Sr. No.	Section	Clause No.	Clause	Bidder's Query	JMRC's Reply
				Contractor shall not get in to any contractual obligation with Phase 1A AFC Contractor	
31.	Section 6	2.1.3	The system shall support inter-operability for smart card with different operators using the same smart card, to the extent applicable.	It is understood that the Same smart card being used at existing Phase 1A will be used by other PTOs. In case of acceptance of other cards, the necessary Software and Hardware changes at Phase 1A & Phase 1B is out of the Scope. Implementation of Open Loop Card System is not in the Scope for Phase 1B AFC	Implementation of Open Loop Card System is not in the Scope for this bid.
32.	Section 6	Appendix 1.2	List of items to which the contractor shall have access during execution*: a) AFC system interface specification b) CRW API Interface Specification c) Ticket Key Layout d) Bank Interface Specification e) Key Management Specification f) source Codes	1. Who has the title (Intellectual Property rights) to all the software/ interface/ source codes (collectively called as 'Software') as mentioned in Appendix 1.2 of Section 6 P5.	The employer shall provide access to successful bidder to the details as in Appendix-1.2 based on the review of the design submitted by the bidder during design stage as per requirement.
				2. What rights will the bidder/ successful bidder/ Contractor get for Software?	
				3. Has the Employer communicated with the title owner of the software for this modification/ reverse engineering to be done by bidder/ successful bidder / Contractor?	
				4. If title does not belong to Employer then, We request Employer to bring confirmations in writing from the title holder of the Software to allow the bidder/ successful bidder to carryout modifications/ reverse engineering in the Software.	This will be dealt with during contract execution stage.
				5. Who retains the title to the modified/ customized software?	The title to the modified/customized

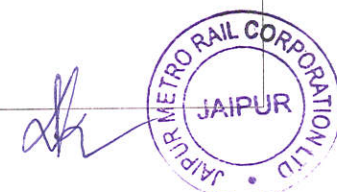




JAIPUR METRO

JAIPUR METRO RAIL CORPORATION LIMITED3rd Floor, RAJSICO Building, Udhog Bhawan,
Tilak Marg, C-Scheme, Jaipur-302005**Annexure – A**

Sr. No.	Section	Clause No.	Clause	Bidder's Query	JMRC's Reply
					software shall remain with employer i.e. JMRC.
				6. Employer to defend and indemnify the bidder/ successful bidder in case any claim (monetary/ non — monetary) is made by the title owner of the Software.	This will be dealt with during contract execution stage.
33.	Section 6	Appendix 1.2	List of items to which the contractor shall have access during execution*: f)source Codes	Please confirm that, the Source code will be completely in English" Language	The source code is in standard computer programming language.
34.	Section 6	Appendix 1.2	List of items to which the contractor shall have access during execution*: a) AFC system interface specification	We assume that the AFC System Interface includes but not limited to Following 1). TOM/EFO, TVM, Recharge Terminal /Ticket Reader, SC, Fire Alarm System & CCTV System 2). Client Executable for TOM, EFO & TVM will be provided by Employer to Contractor, please confirm	1. SLE interfaces shall be provided as defined in referred interface document based on the review of the design submitted by the bidder. 2. Yes for the scope of works under this bid.
35.	Section 6	Appendix 1.2	List of items to which the contractor shall have access during execution*: e) Key Management Specification	It is assumed that, if required, existing key Management Module & Associated hardware e.g. HSM will be allowed for necessary SAM, Please confirm	Please refer PS. Appendix-4.3, Clause 4.3.66.
36.	Section 3	2.1.1 Nationality	Nationality in accordance with ITB Sub clause 4.2.	4.2 A Bidder, and all partners constituting the Bidder, shall have the nationality of an eligible country, in accordance with Section 5 (Eligible Countries). A Bidder shall be deemed to have the nationality of a country if the Bidder is a citizen or is constituted,	As per bid conditions.





JAIPUR METRO

JAIPUR METRO RAIL CORPORATION LIMITED

3rd Floor, RAJSICO Building, Udhog Bhawan,
Tilak Marg, C-Scheme, Jaipur-302005

**Annexure - A**

Sr. No.	Section	Clause No.	Clause	Bidder's Query	JMRC's Reply
				incorporated, or registered, and operates in conformity with the provisions of the laws of that country. This criterion shall also apply to the determination of the nationality of proposed subcontractors or suppliers for any part of the Contract including related services. - We are in discussion with potential partner from the Czech Republic to form JV / consortium for this bid. Can we participate for this bid ?	
37.	Section 3	2.1.1 Nationality	Nationality in accordance with ITB Sub clause 4.2.	Can JMRC remove / relax the country eligibility condition as allowed under ADB rules to include Czech Republic.	As per bid conditions.
38.	Section 3	2.4.1 Contracts of Similar Size and Nature	One similar substantially completed work costing not less than the amount equal to INR 6.55 Crores of the estimated cost.	What is the estimated cost of work for this bid.	Please refer IFB published on SPPP Portal.
39.	Section 9	1.5.	STAGE 5 – Key Date 5 (KD5):	Who will provide integration data for integration of the system to third party system? Who will provide card structure?	JMRC's scope shall be limited to provide details as per Appendix 1.2. Any other requirements to fulfill the scope of the work shall be bidder's responsibility.
40.	Section 9	1.3.	STAGE 3 – Key Date 3 (KD3):	Delivery of the equipment is shipment to Contractors premises or to JMRC warehouse?	Clause is self-explanatory.
41.	Section 1	39.2 II (a) - Evaluation of	The Employer's evaluation of a Bid will exclude and not take into	For items imported from abroad, Do we have to include the Customs duty into	Refer instructions in footnote to Schedule-1 for





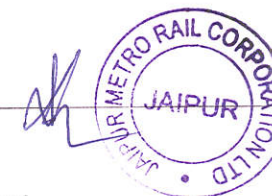
JAIPUR METRO

JAIPUR METRO RAIL CORPORATION LIMITED

3rd Floor, RAJSICO Building, Udhog Bhawan,
Tilak Marg, C-Scheme, Jaipur-302005

**Annexure - A**

Sr. No.	Section	Clause No.	Clause	Bidder's Query	JMRC's Reply
		Price Bids	account, (a) In the case of Plant and Mandatory Spare Parts (Schedule No. 1) supplied from abroad, all taxes and duties, applicable in the Employer's country and payable on the Plant and Mandatory Spare Parts if the Contract is awarded to the Bidder; and	the price while filling Schedule - 1. There is no separate column for filling in Customs duty in Schedule 1. Please clarify	clarity.
42.	Section 1	39.2 II (b) - Evaluation of Price Bids	The Employer's evaluation of a Bid will exclude and not take into account, (b) in the case of Plant and Mandatory Spare Parts (Schedule No. 2) supplied from within the Employer's country, sales and other taxes, applicable in the Employer's country and payable on the Plant and Mandatory Spare Parts if the Contract is awarded to the Bidder.	What about the schedule 3 & 4, Design Services & Installation and Other services - will the GST applicable on these services be included in the evaluation? Please clarify.	Evaluation of price bid shall be as per BDS subclause 39.2.II
43.	Section 4	FORM MIS: Milestones	6. The amount apportioned to Section MS shall not be more than 10% of Fixed Lump Sum Price. Please refer to Clause 9 below. 7. The sum of the amounts apportioned to Cost Centres 'A' and 'B' of a Section except Section	We understand & agree with the set limits for the cost centers and Sections from the cash flow point of view. However in case the Section MS which will have services as its Major portion, fitting Supply elements under services will have taxation implications. We think shifting cost of goods into	As per bid conditions.



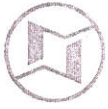


JAIPUR METRO

JAIPUR METRO RAIL CORPORATION LIMITED3rd Floor, RAJSICO Building, Udhog Bhawan,
Tilak Marg, C-Scheme, Jaipur-302005**Annexure - A**

Sr. No.	Section	Clause No.	Clause	Bidder's Query	JMRC's Reply
			<p>MS shall not exceed 5% and 10% respectively of the apportioned amount for that Section.</p> <p>8. The sum of the amounts apportioned to Cost Centres 'D' and 'E' of a Section except Section MS shall not be less than 15% and 5% respectively of the apportioned amount for that Section.</p> <p>9. The Contractor shall note that the apportionment of a Section Total into Cost Centres and then in to milestones should have relation to the Content of work involved. The Total Price of a Section shall not be apportioned more than 5% and 10% against Cost Centre A and B respectively. Also Total Price against a Section shall not be apportioned less than 15% and 5% against Cost Centre D and E respectively.</p>	<p>services to meet the prescribed limits artificially is violation of GST guidelines. Hence it is suggested that the ratios that are mentioned will be applicable only for releasing the payments but taxes and duties will be as actual ratio of goods and services supplied without any cost shifting.</p> <p>Please clarify if this is acceptable.</p>	
44.	Section 4	Schedule No. 1: Plant and Mandatory Spare Parts Supplied from Abroad	20) Up gradation of existing central computer CC1 (including web server, bank server etc.) at OCC level for integrated with 2 new stations	If Contractor decides to reuse existing CC1 and connect Phase I-B SC directly to Phase I-A CC1 then why CC1 Hardware needs to upgraded? If yes specific technical reasons.	This depends on design proposed by bidder which may include the necessary hardware.





JAIPUR METRO

JAIPUR METRO RAIL CORPORATION LIMITED3rd Floor, RAJSICO Building, Udhog Bhawan,
Tilak Marg, C-Scheme, Jaipur-302005**Annexure – A**

Sr. No.	Section	Clause No.	Clause	Bidder's Query	JMRC's Reply
45.	Section 5	Section 5 - Eligible Countries	Name of Czech republic is missing	Companies from Czech Republic have been supplying systems in India. Request you to include Czech Republic as well.	As per bid conditions.
46.	Section 6	2.1.2 Scope of Work	The AFC system design shall meet the Jaipur Metro requirement for handling at least 2 stations. The Central system should be scalable and integrable for Jaipur Metro future extensions (for data handling capacity as well as number of lines/stations/equipments and smart cards by addition of extra hardware/ upgradation of existing hardware).	Please clarify the maximum no. of stations which may connect to the new cc in future so that we could propose the system which shall meet the scalability requirement.	Clause amended. Refer Addendum A1.
47.	Section 6	2.1.3	The system shall support inter-operability for smart card with different operators using the same smart card, to the extent applicable.	Please clarify whether the existing card layout / structure is designed to support the inter-operability or not.	The existing system CSC are ISO 14443A/18092 compliant.
48.	Section 6	3.3.2 (6)	Prepaid Card: Date of validity will start from the date of first use of card on the AFC Gate.	Please elaborate the functionality of the Prepaid Card. Whether this card is a ticket type in smart card or it is a EMV Card.	It is a type of CSC.
49.	Section 6	3.3.2 (7)	Weekly/Monthly Pass: Unlimited Journey during validity.	Please clarify whether the said ticket product is same as Tourist Ticket....	Clause is self-explanatory.
50.	Section 6	3.3.2 (9)	Promotional Ticket: may be issued during festival times. This may have option to give more discounts/free trip etc.	This product is a sub product of CSC or CST. Please clarify	It is a type of CSC.

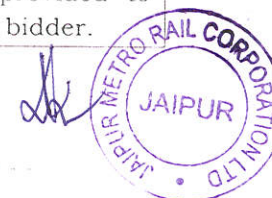




JAIPUR METRO

JAIPUR METRO RAIL CORPORATION LIMITED3rd Floor, RAJSICO Building, Udhog Bhawan,
Tilak Marg, C-Scheme, Jaipur-302005**Annexure - A**

Sr. No.	Section	Clause No.	Clause	Bidder's Query	JMRC's Reply
51.	Section 6	3.6 (8 -b)	System shall have provision to support minimum 16 fare zones and 256 stations (configurable) as available in Ph 1-A system.	Fare zones should be same as no. of stations as multiple stations having same fare zones may affect future fare changes... Please clarify.	As per bid conditions.
52.	Section 6, Volume II	1.6 (4) - System Description	JP/JS21(1B) contractor shall be provided access to the documents as listed in appendix 1.2 and source code of existing AFC system by the employer to aid in integration with CC1. Any other requisites required for integration shall be arranged by the contractor. The bidders are advised to visit & examine the site and obtain the necessary information before bid submission.	The scope of work required for the two approaches mentioned will be very different. Evaluating and comparing the different approaches chosen & proposed by different bidders will require a methodology. Request JMRC to detail out the methodology for comparing proposals submitted with two different approaches.	Please refer relevant clause of ITB 39.2, 40 & 42, BDS Clause ITB 13.1 & 39.2 II, SCC 7, Section-3 Clause 1.3 and other relevant clauses for clarity.
53.	Section 1	ITB 7.2	Site visit	Has JMRC decided about any fixed date for the visit by the bidders? If not can the bidder request a date on which his team can visit JMRC?	The bidder can request a date.
54.	Section 6	Appendix 1.2	List of items	We are assuming that the Device and Systems Source Code as mentioned in the Appendix 1.2 builds and the build environment will be part of the source code provided. Please confirm.	Build environments/ compilation or any other tools are to be arranged by the bidder.
55.	Section 6, Volume II	1.6/3	It is envisaged that the existing AFC system consisting of CC1 and 9 stations shall be expanded to	Can you please provide the interface of existing CC. Also please describe the technology stack of Phase 1.	Details as per Appendix 1.2 shall be provided to the successful bidder.

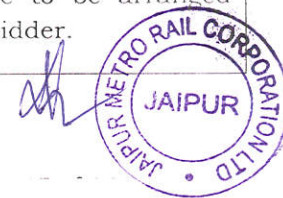




JAIPUR METRO

JAIPUR METRO RAIL CORPORATION LIMITED3rd Floor, RAJSICO Building, Udhog Bhawan,
Tilak Marg, C-Scheme, Jaipur-302005**Annexure – A**

Sr. No.	Section	Clause No.	Clause	Bidder's Query	JMRC's Reply
			include stations of Phase 1 B. Station equipment of Phase 1 B will be integrated with CC1 either directly or indirectly		
56.	Section 6, Volume II	2.1.3	The system will support interoperability for smart card with different operators using the same smart card to the extent possible.	Can you elaborate the requirement and describe what is available and what has to be supported vis-à-vis interoperability?	The system, as a minimum, shall support media as per PS Clause 3.2(4), Ch-3. Also refer clause 4.4, Appendix-4.3, PS
57.	Section 6, Volume II	2.1.1 (c), Scope of Works, Scope	Station wise list of equipments are given in Appendix '2.1, 2.2, 2.3 & 2.4'. The delivery includes all the items which have not been included in this list but are a part of proposed solution and are required for implementation at all levels: Central level, Station or Equipment level.	For designing the AFC network we will require the current (Phase-1A) network layout. Request JMRC to provide relevant documents / drawings depicting the current network	Details shall be provided to the successful bidder.
58.	Section 6, Volume II	2.1.1 (d), Scope of Works, Scope	Necessary upgradation of station level equipments of Phase 1A section to accommodate expansion of 2 station of Phase 1B for seamless travel of passengers.	This will require modifications to the Phase 1A source code of Devices and systems (SC, CC etc.). Please confirm that 1. JMRC has access to the latest source code of all the devices & systems which is currently deployed in JMRC. 2. JMRC has complete build environment along with proprietary dll's & libraries, if any, used by Samsung SDS within the project & same will be provided to the successful bidder of Phase 1B RFP for use within JMRC project.	Source code (except COTS) shall be provided to the successful bidder based on the review & requirement of designs submitted by the bidder during design stage. Build environments/ compilation or any other tools are to be arranged by the bidder.





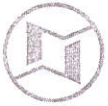
JAIPUR METRO

JAIPUR METRO RAIL CORPORATION LIMITED3rd Floor, RAJSICO Building, Udhayog Bhawan,
Tilak Marg, C-Scheme, Jaipur-302005**Annexure - A**

Sr. No.	Section	Clause No.	Clause	Bidder's Query	JMRC's Reply
59.	Section 6, Volume II	2.1.2, Scope of Works, Scope	If applicable: The AFC system design shall meet the Jaipur Metro requirement for handling at least 2 stations. The Central system should be scalable and integrable for Jaipur Metro future extensions (for data handling capacity as well as number of lines/stations/equipments and smart cards by addition of extra hardware/ upgradation of existing hardware).	Is this requirement mandatory or optional?	Applicable if CC-2 is proposed.
60.	Section 6, Volume II	2.1.2, Scope of Works, Scope	The system shall integrate with the existing merchant bank. The contractor shall interface with the banker for ensuring provision of all banking services as being used in Phase 1A to be applicable for Phase 1B.	Please provide details of bank & interface details of it. Does current TOM & TVM's deployed in Phase 1A process Credit & Debit cards?	Current banker is HDFC bank. Interface details will be provided to the successful bidder. The current TOM's in Phase 1A have provision of integrated POS with TOM and stand alone functionality and in TVM's deployed in Phase 1A the Credit & Debit cards facility are not operational.
61.	Section 6, Volume II	2.3.1 (2), SYSTEM AND EQUIPMENTS	NFC cards for testing purposes (5 no.)	Does this means NFC Secure Elements (SE)? Or Smartcard? Please clarify	NFC module on a card is to be provided for demonstrating NFC functionality.

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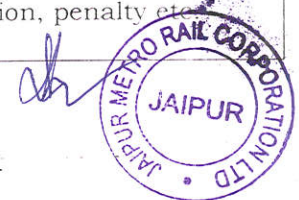




JAIPUR METRO

JAIPUR METRO RAIL CORPORATION LIMITED3rd Floor, RAJSICO Building, Udhog Bhawan,
Tilak Marg, C-Scheme, Jaipur-302005**Annexure – A**

Sr. No.	Section	Clause No.	Clause	Bidder's Query	JMRC's Reply
62.	Section 6, Volume II	2.1 Scope	3).d. Necessary upgradation of station level equipments of Phase 1A section to accommodate expansion of 2 station of Phase 1B for seamless travel of passengers.	<p>Why station level Equipment of phase 1 will require changes? Scope is not clear. Which equipment and what changes are expected?</p> <p>Do you mean software and hardware upgrade to support interoperability & QR code?</p> <p>Please confirm if current card structure supports interoperability (interoperable e-Purse)</p> <p>This requires inspection on Station level equipments, access to Card reader specification and card structure specifications to evaluate the ability support interoperability</p>	<p>Phase 1-A SLE e.g. TOM, TVM, TR etc require interface updates for addition of new stations based on design proposal of the bidder.</p> <p>QR code functionality is not part of contract. Refer Addendum A1.</p> <p>The existing system CSC are ISO 14443A/18092 compliant.</p>
63.	Section 6, Volume II	2.1.3	2.1.3 The system shall support inter-operability for smart card with different operators using the same smart card, to the extent applicable.	<p>This depends on current card structure, what if current card structure does not support multiple operators? How settlement between operator will be done? Do JMRC have CCHS for settlement?</p> <p>Please confirm the Phase1-A CC1 supports export of AFC data to external CCHS for interoperability.</p>	<p>There is no requirement for CCHS integration. Also refer reply to Sr. No. 56 & 62.</p>
64.	Section 6, Volume II	2.1.6	2.1.6 Phase 1B AFC system shall meet existing JMRC business rule placed at Appendix 12.1 and shall be designed keeping in view further business tools expansion/modification requirements.	<p>Which further business tools expansion/modification requirements, are expected?</p> <p>Need clearly defined requirement</p>	<p>System shall cater to any future business rule changes like fare change, validity change, fare zone creation, penalty etc.</p>



19 of 27



JAIPUR METRO

JAIPUR METRO RAIL CORPORATION LIMITED3rd Floor, RAJSICO Building, Udhayog Bhawan,
Tilak Marg, C-Scheme, Jaipur-302005**Annexure - A**

Sr. No.	Section	Clause No.	Clause	Bidder's Query	JMRC's Reply
65.	Section 6, Volume II	2.2 General Requirements	b). Inter-operability - To ensure that Phase 1-B equipment will be able to participate in other transit systems subject to commercial rights agreements between parties utilizing Clearing house or other relevant models	Does Phase 1 system equipment support multiple operators, Card structure, SAM slots, CCHS?	Yes except CCHS. Also refer reply at Sr. No. 63.
66.	Section 6, Volume II	5.3.2, Types of Gates	Automatic Gates having QR code compatibility shall be provided in numbers as per required in entry/exit arrays as per BOQ. These gates shall fulfill all requirements as stated in this contract but shall additionally have QR code decoding compatibility. The employer intends to have QR code functionality in fixed no. of entry/exit gates at Phase 1-A and Phase 1-B with its own server. The contractor shall assist employer in implementing QR code functionality in QR compatible gates at Phase 1-B stations.	What do you mean by own server: Does Employer plans to employ another vendor providing QR code solution? If Yes please define the exact role of AFC contractor & QR code vendor in both phases 1-A & 1-B. As AFC contractor cannot assure any warranty void issues for phase 1-A & Phase 1-B.	QR code functionality is not in the scope of bid. Refer Addendum A1.
67.	Section 6, Volume II	5.2.3	TOM Functionality	Tom functionality doesn't consist QR code issuance functionality	QR code functionality is not in the scope of bid. Refer Addendum A1.
68.	Section 6, Volume II	5.5.1 (2)	TVM Functionality	TVM functionality doesn't consist QR code issuance functionality	QR code functionality is not in the scope of bid. Refer Addendum A1.



20/F 27



JAIPUR METRO

JAIPUR METRO RAIL CORPORATION LIMITED3rd Floor, RAJSICO Building, Udhog Bhawan,
Tilak Marg, C-Scheme, Jaipur-302005**Annexure – A**

Sr. No.	Section	Clause No.	Clause	Bidder's Query	JMRC's Reply
69.	Section 6, Volume II	5.5.1 (5)	Coin / Currency note Recyclers & sorter mechanism - The system shall have the facility of recycling of deposited notes for providing balance amount to the passenger. The banknote recycler mechanism shall be high performance, extremely reliable, proven and must be procured from a reputed manufacturer such as MEI, Bill to Bill or any other similarly renowned source which shall also meet Reserve Bank of India (RBI) guidelines. The banknote recycler unit shall also be equipped with banknote loader mechanism. The Bank Note Loader shall have a capacity to hold minimum 1000 notes of two types each. TVM shall be capable of returning change with best combination of coins and Bank Notes. Coin change shall be provided in two denominations which may be configurable to any two out of Re1, Rs2, Rs5 or Rs 10 coins. Two Coin Containers shall be provided. Coin Container Capacity should be 1000 for each type of coin.	Please clarify whether Returnable change in Coin / Notes is limited to CST or QR code ticket issuance or it is applicable for CSC add value as well. Please specify the limit of change to be dispensed.	It is applicable for both media types. Limit should be user configurable. Also refer reply at Sr. No. 66.





JAIPUR METRO

JAIPUR METRO RAIL CORPORATION LIMITED3rd Floor, RAJSICO Building, Udhog Bhawan,
Tilak Marg, C-Scheme, Jaipur-302005**Annexure – A**

Sr. No.	Section	Clause No.	Clause	Bidder's Query	JMRC's Reply
70.	Section 6, Volume II	6.1 (1)&(2)	<p>6.1. NETWORK MANAGEMENT</p> <p>6.1.1. General</p> <p>1) The contractor shall propose, finalize and interface for AFC WAN (2 Mbps) channels of plan with Jaipur Metro Telecom contractor as per requirement to meet transaction traffic of AFC for all stations.</p> <p>2) The contractor shall be responsible to ensure that CC1 or CC2 if applicable will be connected with the station AFC LAN through 2 Mbps link (shared on a group stations) provided by the Telecom contractor.</p>	The proposed 2 mbps line or e1 link does not suffice the requirement of AFC system if system is working in online mode with various interface such as POS, payment Gateway, website top-up, QR code validation.. It is recommended to provide dedicated 10Gig Ethernet ports with redundancy from Telecom GE network at station level and OCC level and also to connect CC1 & CC2.	As per bid conditions.
71.	Section 6, Volume II	Appendix 1.1 /Pare Media /Provision for integration with other service providers	<p>CSC Map will be designed in order to support the following function</p> <p>1. Common Area including card information and purse</p> <p>2. Metro Application for metro usage</p> <p>3. Bus Application, Retail Application, toll application and some reserved application.</p>	Can you elaborate the requirement and describe what is available and what has to be supported vis-à-vis interoperability?	Refer reply at Sr. No. 56.



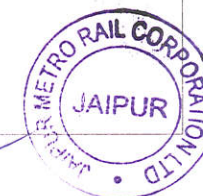
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JAIPUR METRO

JAIPUR METRO RAIL CORPORATION LIMITED3rd Floor, RAJSICO Building, Udhyog Bhawan,
Tilak Marg, C-Scheme, Jaipur-302005**Annexure - A**

Sr. No.	Section	Clause No.	Clause	Bidder's Query	JMRC's Reply
72.	Section 6, Volume II	5.4	TICKET READER cum Add Value Machine (TR cum AVM)	<p>b) Add value in the CSC after payment through website. Upon showing the card in front of Add Value Machines, the Add Value server will query CC1 directly or via CC2 for top-up information after checking the ticket and AVM will add pre-defined value to CSC. CC1 is interfaced to a bank via a bank server for web top-up functionality. The complete process and Interface for receipt of web top-up information from CC1 to CC2 will be as per CC1-CC2 Interface specifications to be developed by the contractor. The contractor shall also upgrade the bank/web server for additional bank interface.</p> <p>Query1: For CC1-CC2 Interface - if it would be need to extend CC1 to accept request from CC2. It is assumed that that the current CC1 would be extended to make compatible to the new interface. To do the extension existing CC1 source code would be provided to make the enhancement.</p> <p>Query2: CC1 contractor would prove the support for architecture and Code analysis.</p>	<p>Refer reply at Sr. No. 58.</p> <p>Support required, if any, from Phase-1A AFC contractor, shall be under scope of the bidder.</p>



23 OF 27



JAIPUR METRO

JAIPUR METRO RAIL CORPORATION LIMITED3rd Floor, RAJSICO Building, Udhog Bhawan,
Tilak Marg, C-Scheme, Jaipur-302005**Annexure – A**

Sr. No.	Section	Clause No.	Clause	Bidder's Query	JMRC's Reply
73.	Section 6, Volume II	Appendix 1.1	Overview of existing AFC System of Phase 1-A, JMRTS	It is assumed that existing KMS will be used and SAM will be initialized to be used in Phase 1B system. Please confirm.	Yes. However, SAM (hardware) is to be provided by the bidder.
74.	Section 6	Appendix 4.3	Central Computer (CC2)	It is assumed that the existing BIM/CPD will be used to initialize Cards and Tokens and those will have interface with CC1. Once card or token will be initialized, through stock transfer procedure, CC2 to will manage only stock transferred for Phase1B stations. Please confirm.	Yes. However, CC2 will send its stock data to CC1. Refer clause 4.3.66.15, Appendix 4.3,PS.
75.	Section 6	Appendix 4.3	Central Computer (CC2)	Stock and inventory management is out of scope from proposed CC2 expect the accepting of transferred stock for phase 1B and uses of stock in Phase 1B. Please confirm.	CC2 shall manage its stock and send stock data to CC1. Refer clause 4.3.66.15, Appendix 4.3,PS.
76.	Section 6	Appendix 4.3	Central Computer (CC2)	Device Monitoring System: It is assumed that CC1 has capability to add Phase1B devices including CC2 for monitoring purpose. CC2 will not monitor any Phase 1A devices. Please confirm.	Equipment managed by CC2 will be confirmed to CC1 via equipment updation data. See Clause 4.3.66.2, Appendix 4.3. PS for details.
77.	Section 6	Appendix 4.3	Central Computer (CC2)	As CC1 will become the master CC so CC1 will have Card master data and updated transaction. It is assumed that all reports will be	CC2 shall be capable to produce reports for its stations. See Clause 4.3.66.9, Appendix 4.3,

24 OF 27





JAIPUR METRO

JAIPUR METRO RAIL CORPORATION LIMITED3rd Floor, RAJSICO Building, Udhog Bhawan,
Tilak Marg, C-Scheme, Jaipur-302005**Annexure - A**

Sr. No.	Section	Clause No.	Clause	Bidder's Query	JMRC's Reply
				generated at CC1. There would not be provision for report at CC2. Please confirm.	PS for details.
78.	Section 6	Appendix 4.3	Central Computer (CC2)	In case of refund and replacement it it would be required to query CC to fetch the latest data for a card then it is assumed that the CC1 will have interface to provide the information. Please confirm.	Interface details shall be provided to the successful bidder.
79.	Section 6			What is the make and model of SAM in used ?	Samsung.
80.	Section 3	2.3.2	Requirement: Minimum average annual turnover INR 6.6 CR calculated as total certified by CA payments received for contracts in progress or completed, within the last 3 years.	Our India company revenue now reached to 9 CR for our successful completed works for stage-5 within 5 months, and stage-4 works-another 6 Cr in progress now. We are kindly requesting to change the terminology of this requirement to following: Minimum average annual turnover INR 6.6 CR calculated as total certified by CA payments received for contract in progress or completed, with in 1 year or 1-3 year or Minimum average annual turnover INR 6.6 CR calculated as total certified by CA payments received for contract in progress or completed.	As per bid conditions.
81.	Section 6	Appendix 2.3	Appendix 2.3	Please confirm quantity per gate type of spare gate cabinets (8 cabinets) in Appendix 2.3. (SE, SMc, SMb, SEb, SHWa, SEWc)	Appendix 2.3 updated. Refer Addendum-A1.



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JAIPUR METRO

JAIPUR METRO RAIL CORPORATION LIMITED3rd Floor, RAJSICO Building, Udhog Bhawan,
Tilak Marg, C-Scheme, Jaipur-302005**Annexure – A**

Sr. No.	Section	Clause No.	Clause	Bidder's Query	JMRC's Reply
82.	Section 6	Chapter 5	AFC Station Equipments	What kind of card scheme is it for EMV Level 2 of contactless reader/writer? (ex. Visa, Master, RuPay ...)	Closed loop cards system to be provided.
83.	Section 6	4.1.23 v)	For AVM- " Bank note Cash Box nearly full", " Bank note cash Box full", "not on LAN", "Bank note Jam", " machine out of service".	AVM will not have a bank note module. Therefore, AVM cannot send warning messages about the bank note module. Please confirm this.	Clause updated. Refer Addendum-A1.
84.	Section 6	5.2.1		Please confirm whether supplying of TOM/EFO is scope of work or not.	Bid clause is self explanatory.
85.	Section-6	5.5.2 (5)	The Bank Note Loader shall have a capacity to hold minimum 500 notes of two types each.	"Bank note loader mechanism : Bank note loader shall have a capacity to hold minimum 1000 notes of two types each". We think that it is not easy to find such a mechanism to accommodate minimum capacity 1000 notes. Please consider to change the capacity 300 instead of 1000.	Clause updated. Refer Addendum-A1.
86.	Section 8	Clause 8 — sub-clause 12.1	The payment for the next milestone will be done only after the complete payment of earlier milestone has been fully completed.	SCC — Clause 8 — sub-clause 12.1(page 7): a) The payment for the next milestone will be done only after the complete payment of earlier milestone has been fully completed. We request you to kindly modify this clause to release the payment as soon as the milestone has been completed.	As per the bid conditions.
87.	Section 9	Appendix 4	The KD is achieved when there is approval from JMRC on the documents.	Section 9 — Contract Forms — Appendix 4: The KD is achieved when there is approval from JMRC on the documents. We suggest that there should be time limit for the response / approval from JMRC	Refer Clause 4.3.5.4, GS in Addendum A1.





JAIPUR METRO

JAIPUR METRO RAIL CORPORATION LIMITED3rd Floor, RAJSICO Building, Udhog Bhawan,
Tilak Marg, C-Scheme, Jaipur-302005**Annexure - A**

Sr. No.	Section	Clause No.	Clause	Bidder's Query	JMRC's Reply
88.	Section 6	4.1.35 (18)	Windows 2000 Server	Section 6 PS — 4.1.35 item 18: Windows 2000 Server is end of life. We request you to kindly add Windows 2000 Server or latest	Clause updated. Refer Addendum A1.
89.	Section 6	5.3.3 (7a)	The LCD technology	Section 6 PS — 5.3.3 item 7a: The LCD technology has become out of life. Kindly update it with LED Type PID.	Clause updated. Refer Addendum A1.
90.	Section 6	5.5.2	The number of loader and recycler	Section 6 PS — 5.5.2 item 5: Please specify the number of loader and recycler required.	Minimum one loader & one recycler required.
91.	Section 6	5.5.2	The number of type of currency note	Section 6 PS — 5.5.2 item 5: Please specify the number of type of currency note which recycler needs to handle	This is to be proposed by the bidder during design stage.

