Date: 20- Dec -2017

Request for Quotation (RFQ)

SITC of PAVA for west bus gate project
For BIAL

Name and address of entity seeking proposals:

Mr. Suresh K N
VP Contracts & Procurement
BIAL Project Office
Bangalore International Airport Limited.
Devanahalli, Bangalore-560 300, India

Person responsible for receipt of proposals and process:

Mr. Suresh K N
VP Contracts & Procurement
BIAL Project Office
Bangalore International Airport Limited.
Devanahalli, Bangalore-560 300, India
INTRODUCTION

Kempegowda International Airport, Bengaluru (KIAB) is witnessing good growth in terms of Passenger and Air Traffic Movement. To meet the increasing demand and to maintain good service criteria by ensuring a passenger friendly airport, Bengaluru International Airport Limited (BIAL) has decided to develop the second runway, T2 building & other associated developments. Interim Project works for west bus bay, BMA canopy, new dolly pathway and check in counter is being carried out to modify and refurbish parts of the Terminal for the capacity enhancement and to upgrade the interiors to match with the newly expanded portions of the terminal. This will also help in achieving a seamless passenger experience at the Terminal and facilitate efficient operations.

BIAL intends to build a flexible, reliable and high performance network infrastructure for the transmission of voice, data and video with maximum investment protection.

1 Scope of work

The vendor shall be responsible for the design, supply, and installation and commissioning of a Public Address system.

Software and Hardware License’s, and all other associated accessories under the scope of vendor.

Complete PA System should be software driven.

Warranty should be 3 years for all the supplied parts, software and panels.

All the supplied materials should be compatible with existing HARMAN PA system software’s.

All closed rooms, Emergency Exit stair cases and other area of should have speakers for emergency announcements.

The Contractor shall design the Acoustics complied PA system that is a state of the art system which shall all be used for Voice alarms.

The Contractor shall supply Block diagrams, data sheets, EASE plots and all Complied calculations required to substantiate and support the design to Employers representative for Approval before appointment of PA system integrator.
The design shall take into consideration that the system shall have to perform 24/7 and shall be used for life safety announcements and be highly reliable with little or no down time required for periodic maintenance. All critical components shall be monitored and where required redundancy shall be provided to ensure seamless operation in the case of a component failure.

The goal of this PA system designer should be to provide Bengaluru International airport with a state of the art PA system that is Audible, Clear and reliable. The design should ensure adequate functionality and capabilities as specified, offering a system that is both easy to use and cutting edge with future scalability so that it offers the users many years of service, without being out dated or replaced and it should be upgradable and interfaced with other building management systems. The entire system shall be a monitored system with the ability to detect and report speaker line, cables and report faults in any part of the system including microphones, controllers, amplifiers and speakers. Vendor to do site co-ordination works with all relevant stake holders to execute assigned installation and commissioning of completed Public Address system till handing over of this project to BIAL.

The PA vendor should do configurations, which shall include zoning, supervision, diagnostics, testing ANC adjustments, equalization and delay alignment along with Compression and limiter settings. The system shall be scalable with the ability to expand in the future. It shall comply have the ability to double its capacity if necessary with the addition of hardware, without the necessity to change any of the existing hardware. Failure of any individual component shall not affect the operation or complied Performance of more than 20% of the system.

All electrical, Speaker cabling shall be FRLS (Fire retardant Low smoke) and shall comply with Indian standards institute Specifications (ISI). The amplifiers shall be rack mounted with a redundancy of 25% as spare capacity and the amplifier system shall be connected to the speaker system though controllers that can automatically switch defective amplifier out of the system and reconnect the speakers to spare amplifiers.

All amplifiers faults and errors shall be logged and reported to the master control station automatically. Visual indication of all errors on the amplifier shall be a standard feature. All Zones shall be equipped with dual speaker circuits (A, B).

Permanent, non-audible supervision of the loudspeaker lines (ground leakage, short and open circuit), also during power saving mode, irrespective of activation of messages.

The warranty shall include the free supply of Spares, Labor and anything else that is required to restore or repair a faulty part of the PA system so that it is in
100% working condition and shall meet all Audio parameters set out in this tender after repairs are conducted.

During the warranty period the contractor shall provide a service wherein a fault in the system shall be attended to within 4 hours of the fault being reported by BIAL staff.

All offered system / solution furnished / offered shall the latest state-of-the-art and it should be UL listed, products of a single manufacturer engaged in the manufacturing of PA system for at least 5 years. The authorized representative of the manufacturer must approve the design prior to the deployment and certify the installation of the complete system in compliance with the manufacturer's recommendations before handing over the system to BIAL. The bidder shall also clearly state whether support for the application supplied for this solution will be available directly from him or from an OEM with response time during the warranty period.

BIAL will issue a Provisional Acceptance Certificate (PAC) after successful execution of User Acceptance Test (UAT). Final Acceptance Certificate (FAC) will be issued after the deployed solution is functional, operational and stable for a period of 3 months. During this period a trained certified engineer shall be stationed at site by the bidders for post-production support.

Compliance with all applicable Codes, Standards and local Regulations, and obtaining approval by governing, regulatory and local authorities, if applicable.

Entire system and accessories must be UL listed and comply with specifications laid by NBC standards.
After commissioning, services and maintenance as per contract. This shall include all firmware upgrades and updates for next 3 years from the date of commissioning without any additional cost to BIAL.

Carrying out necessary maintenance activities post warranty, if entered in to agreement with BIAL for the same.

Bidder shall provide the services of a factory trained and authorized technician to perform all system modifications, upgrades or changes.
Bidder to provide the OEM Certified Authorized Engineer to perform Installation, Testing & commissioning works.
Bidder shall provide all hardware, software, programming tools and documentation necessary to modify the PA system on site without any additional cost to BIAL.
All software licenses along with Original media shall be supplied as part of the contract. Renewable & subscription license shall not be acceptable by BIAL. All licenses shall be in the name of BIAL.

In case of bidder(s) inability to continue in the contract, either during execution, post execution, warranty or post warranty period, the respective OEM stands guarantee to further continue with the terms of contract with no additional cost to BIAL. In this case, the OEM can propose a new bidder(s), authorized to handle their system and the vendor has to be approved by BIAL for carrying the job further. All other terms and conditions of the contract will apply to the new bidder(s) as well.

Any “exclusion” from the scope in the offer of the Bidders have to be clearly indicated, in case not explicitly mentioned, the Bidders shall be responsible for providing the required hardware / equipment to make the system complete in all respects to meet the requirement of the basis of design.

In general, the work to be performed under this contract shall consist of:-

a. The Vendor Shall Supply, Install, Commission and handover of the proposed PA system to BIAL in a fully operational condition.
b. Shall organize Operational & Maintenance Training for BIAL team at the site.
c. Installing & checking of all wiring for ensuring trouble free operation while maintaining the Standard.
d. Proper Operation & scheduled maintenance activity plans for the installed system.
e. Any statutory approvals required for clearance of the installation from the necessary authorities.
f. Supply of necessary critical spares to be maintained at site for Quick restoration of the system.

38) Besides the above, the general scope of work shall also include the following: -

a. Supply of all drawings produced using latest edition of CAD software during the offer and “As Built” drawings post installation.
b. Submission of Maintenance Schedule.
c. Complete Operation & Maintenance Manual for all the systems installed.
d. Training of Customer representatives for smooth operation.
e. After commissioning, services and maintenance as per contract.
f. Carrying out necessary

39) Installation:

Installation of the system has to be as per laid down international and local standards. The installation should be in such a way that it should optimise the usage of each device (s) and should be installed in to give the best possible output.

a. OEM has to recommend their authorized Bidders for the bidding.
b. OEM has to vet & certify the design for installation before the execution of the project.

Applicable Standards & Specifications:

The specifications and standards listed above form a part of this specification. The system shall fully comply with the latest issue of UL standards. The system, solutions and equipment/devices must comply to latest standards/guidelines/specifications/requirements laid down by NBC and Karnataka Fire Dept. BCAS, DGCA, ICAO and other associated authorities.

2 Eligibility Criteria

1) Bidder should be a company registered under the Companies Act, 1956 since last 5 years.

2) The bidder should have experience in PAVA system, and integration in large organizations like Airports, Railways and Metros and should provide the letter for the successful implementations from the customer.

3) The bidder should have successfully completed one work in large buildings not less than Rs.40.00 Lakhs average for the preceding three years. PO/Completion certificate to be enclosed.

3 Bid Submission:

The offer must be submitted in two parts sealed separately as Part-I (Technical Bid) and Part-II (Price Bid) in separate sealed envelopes.

Part - I (Technical Bid) shall contain:

- Covering Letter.
- Detailed Bill of material without commercials.
- Support organization, Problem escalation process, Response & Resolution time.
- PO reference copy for similar projects executed.
- Documents to prove the clauses in Eligibility criteria
- Documents to prove the turnover for last three years.

Part -II (Commercial Bid) shall contain:
• Covering Letter
• Detailed Bill of Material with tax structure for each line item
• GST
• Company escalation matrix.
• Project deployment schedule.
• PO copies/Certificates.
• Documents to prove the turnover for last three years.

Note: Commercial bid will be opened after the contractor qualifies the conditions in technical bid.

4 Commercial response Template

Bidder to submit commercial bid using the following template.

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Description</th>
<th>Unit</th>
<th>Qty</th>
<th>SUPPLY</th>
<th>INSTALLATION</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Rate (Rs.)</td>
<td>Amount (Rs.)</td>
</tr>
<tr>
<td>1</td>
<td>PA SYSTEM</td>
<td></td>
<td></td>
<td>1.00</td>
<td>24.00</td>
</tr>
<tr>
<td></td>
<td>Supply, installation, testing &amp; commissioning of 6 watt Ceiling Speakers (including cutting making good) complete in all respect</td>
<td>NOS</td>
<td>24.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.00</td>
<td>Supply, installation, testing &amp; commissioning of Noise sensing microphone for auto volume control</td>
<td>NOS</td>
<td>5.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3.00</td>
<td>Supply, installation, testing &amp; commissioning of Desk mounted paging microphone.</td>
<td>NOS</td>
<td>3.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4.00</td>
<td>Supply, installation, testing &amp; commissioning of Horn speaker.</td>
<td>NOS</td>
<td>40.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5.00</td>
<td>Allow for new public address system to connect with existing with complete accessories.</td>
<td>LS</td>
<td>1.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6.00</td>
<td>Supply, laying, testing &amp; commissioning of Speaker Cable 2CX2.5 sqmm, complete in all respect (LOOP-1)</td>
<td>MTRS</td>
<td>550.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7.00</td>
<td>Supply, laying, testing &amp; commissioning of Speaker Cable 2CX2.5 sqmm, complete in all respect. (LOOP-2)</td>
<td>MTRS</td>
<td>550.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8.00</td>
<td>Microphone cable</td>
<td>MTRS</td>
<td>500.00</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Sub TOTAL
GST @ 28% FOR SUPPLY
GST @ 18% FOR SUPPLY
GST @ 18% FOR SERVICES
TOTAL Inclusive of all Duties and Taxes

Note: All products needs to be considered is Harman.
5  Payment Schedule:

The payment phases would be as follows.

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Description</th>
<th>Payment release %</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Supply of PAVA equipment’s</td>
<td>90%</td>
</tr>
<tr>
<td>2</td>
<td>Installation and commissioning</td>
<td>10%</td>
</tr>
<tr>
<td></td>
<td>5% Retention amount to be released after 36 months from date of acceptance</td>
<td></td>
</tr>
<tr>
<td></td>
<td>5% PBG valid till 12 months</td>
<td></td>
</tr>
</tbody>
</table>

6  RFQ Time Schedule

The following timetable indicates the BIAL’s intended schedule:

<table>
<thead>
<tr>
<th>Description</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>RFQ Release</td>
<td>21-Dec-2017</td>
</tr>
<tr>
<td>Receipt of Bid</td>
<td>27-Dec-2017</td>
</tr>
</tbody>
</table>

For any clarification, kindly mail to vijayaraghavan@bialairport.com

7  Disclaimer

This Request for Quote (RFQ) is issued by Bangalore International Airport Limited (“BIAL”).

The information contained in this RFQ document or subsequently provided to the interested applicants (“Bidders”), whether verbally or in documentary or any other form by or on behalf of BIAL or any of their employees or advisers, is provided to the Bidders on the terms and conditions set out in this RFQ and such other terms and conditions subject to which such information is provided.

This RFQ is neither an agreement nor an offer by BIAL to the prospective Bidders or any other person. The purpose of this RFQ is to provide interested parties with information that may be useful to them in the formulation of their proposals pursuant to this RFQ.

BIAL, its employees and advisers make no representation or warranty and shall have no liability to any person including any Bidder under any law, statute, rules or regulations or tort, principles of restitution or unjust enrichment or otherwise for any loss, damages, cost or expense.
The Bidder shall bear all its costs associated with or relating to the preparation and submission of its proposal including but not limited to preparation, copying, postage, delivery fees, expenses associated with any demonstrations or presentations which may be required by BIAL or any other costs incurred in connection with or relating to its proposal. All such costs and expenses will remain with the Bidder and BIAL shall not be liable in any manner whatsoever for the same or for any other costs or other expenses incurred by an Bidder in preparation for submission of the proposal, regardless of the conduct or outcome of the selection process.

The proposal should be signed on each page by the Bidder or his duly authorised representative. The proposal should be accompanied by a certified true copy of a power of Attorney or board resolution in favour of signatory to the documents.

The Bidder shall provide all the information as per this RFQ. BIAL reserves the right to evaluate only those Proposals that are received in the required format, complete in all respects and in line with the instructions contained in this RFQ.

BIAL may at any time by notice in writing summarily terminate the Bidders Agreement without compensation if the Bidder is declared bankrupt/insolvent and/or faces any action of bankruptcy, etc. In such an event, the Bidder will be bound to refund all amounts received from BIAL. In addition to that BIAL is also entitled to invoke the guarantee bonds executed in its favour by the bank on behalf of the Bidder.

The Bidder shall be a valid legal entity as per Indian laws.

The Technical and Commercial Bid separately should clearly mention the following details: BID for SITC of PAVA for west bus gate project For BIAL

To
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