



REQUEST FOR QUOTATION (RFQ)

Date: **Monday, 20 May 2024**

Project Title: Samoa Aviation & Roads Investment Project (SARIP)

Source of Funding (Grant no.): IDA-E0080

Contract Name: Supply and Installation of PA System at Faleolo International Airport

Contract Ref: SAA/GO/004

Dear Supplier,

1. You are invited to submit your price quotation(s) for the supply of the following items:
 - **Lot 1:** PA System for Forecourt, Check-In area & Bathrooms;
 - **Lot 2:** PA System for Departure, Security & Immigration Area on Level 1;
 - **Lot 3:** PA System for Gate 2, 3 and 4
 - **Lot 4:** PA System for Arrival, Baggage, Meeters & Greeters & VIP Area

Information on technical specifications and required quantities are attached.

2. You may quote for **any one or more lots** under this RFQ. Each lot shall be evaluated and contract awarded separately to the supplier(s) offering the lowest evaluated price for each lot, if substantially responsive to the technical specifications.
3. A pre-bid meeting will be held on **Monday 27th May at 2.00pm** at the Project Office, SAA and a site visit to follow shortly after.
4. Your price quotation in the forms attached (Annexes 1, 3 and 4) may be submitted by hand delivery, post or electronically at the following address:

Mr. Tumanuvao Fa'aofonuu Evile Falefatu
C/O: Rusetaneti Taaloga
Samoa Airport Authority
Faleolo International Airport
Main West Coast Road
Samoa

Phone: +685 7649114

Email address: rtaaloga@saa.ws

5. The deadline for receipt of your quotation(s) by the Purchaser at the address indicated in above Paragraph 3 is: **12.00pm on Tuesday 04 June, 2024.**

6. Your quotation in the English language, should be accompanied by adequate technical documentation and catalogue(s) and other printed material or pertinent information in English for each item quoted.
7. Your quotation should be submitted as per the following instructions and in accordance with the attached Contract. The attached Terms and Conditions of Supply is an integral part of the Contract.
8. PRICES¹
 - a) For Goods supplied domestically: The prices should be quoted in Samoan Tala for the total price of EX-WORKS (ex-factory, ex-warehouse, etc.) plus the price of delivery to the final destination: **Samoa Airport Authority Premises, Faleolo.**

9. EVALUATION OF QUOTATIONS

- a) For Goods supplied domestically: Offers determined to be substantially responsive to the technical specifications will be evaluated by comparison of the total price at the final destination in accordance with Paragraph 2 above.

In evaluating the quotations, the Purchaser will determine for each quotation the evaluated price by adjusting the price quotation by making any correction for any arithmetical errors as follows:

- i. where there is a discrepancy between amounts in figures and in words, the amount in words will govern;
 - ii. where there is a discrepancy between the unit rate and the line item total resulting from multiplying the unit rate by the quantity, the unit rate as quoted will govern;
 - iii. if a Supplier refuses to accept the correction, his quotation will be rejected.
10. AWARD OF CONTRACT: The award will be made to the bidder offering the lowest evaluated price and offering goods which are substantially responsive to the technical specifications². The successful bidder will sign a Contract as per attached form of contract and terms and conditions of supply.
 11. VALIDITY OF THE OFFER: Your quotation(s) should be valid for a period of forty five (45) days from the deadline for receipt of quotation(s) indicated in Paragraph 4 of this RFQ.

12. Further information can be obtained from:
Ms. Ausialemanaia Faapusa Semisi-Tovio
SARIP – SAA PIU Procurement Officer
Email: ftovio@saa.ws
Phone: +685 7101741

¹ The Purchaser can also select DDP price if no problem is expected for the potential bidders to handle custom duty and other clearance issues.

² If rated criteria (scoring system) is to be used in addition to price, this paragraph should be modified accordingly.

13. Please confirm by e-mail the receipt of this RFQ and whether or not you will submit the price quotation(s).

Sincerely,



Tumanuvao Fa'aofonu'u Evile Falefatu
GENERAL MANAGER
SAMOA AIRPORT AUTHORITY



NOTIFICATION OF AWARD

[date]

To: [name and address of the Supplier]

Project Title: Samoa Aviation & Roads Investment Project (SARIP)

Source of Funding (Grant no.): IDA-E0080

Contract Name: Supply and Installation of PA System at Faleolo International Airport

Contract Ref: SAA/GO/004

Notification of Award

This is to notify you that your Quotation dated [insert date] for supply of [insert name of the contract and identification number] is hereby accepted for the Contract Amount of [insert currency and amount in numbers and words], as corrected and modified in accordance with the Request for Quotation.

You are hereby required to counter-sign the attached Contract Agreement (including Annexes) and return it to the Purchaser within seven (7) days of receipt of this Notification.

Sincerely,

Tumanuvao Fa'aofonu'u Evile Falefatu
GENERAL MANAGER
SAMOA AIRPORT AUTHORITY

Attachment: Contract Agreement (with Annexes) completed and signed by Purchaser

FORM OF CONTRACT

Project Title: Samoa Aviation & Roads Investment Project (SARIP)

Source of Funding (Grant no.): IDA-E0080

Contract Name: Supply and Installation of PA System at Faleolo International Airport

Contract Ref: SAA/GO/004

THIS AGREEMENT number _____ made on __ (day) __, __ (month) __, __ (year) __ between _____ (hereinafter called “the Purchaser”) on the one part and _____ (hereinafter called “the Supplier”) on the other part.

WHEREAS the Purchaser has invited quotations for _____ (description of goods) to be supplied by Supplier, viz. Contract _____, (hereinafter called “the Contract”) and has accepted the quotation by the Supplier for the supply of goods under the Contract at the sum of _____ (_____) (hereinafter called “the Contract Price”).

NOW THIS AGREEMENT WITNESSES as follows:

1. The following documents shall be deemed to form and be read and construed as part of this agreement, viz:
 - a) This signed contract agreement;
 - b) Supplier’s Quotation (including signed Form of Quotation, Terms and Conditions of Supply, Technical Specifications, and signed Statement of Technical Compliance); and
 - c) Addendum (if applicable);
2. Taking into account payments to be made by the Purchaser to the Supplier as hereinafter mentioned, the Supplier hereby concludes an Agreement with the Purchaser to execute and complete the Contract and remedy any defects therein in conformity with the provisions of the Contract.
3. The Purchaser hereby covenants to pay in consideration of the Goods supply and acceptance in accordance with the Contract and remedying of defects therein, the Contract Price in accordance with Payment Conditions prescribed by the Contract.
4. Applicable Law. The Contract shall be interpreted in accordance with the laws of the Samoa.
5. Force-Majeure. The supplier shall not be liable for penalties or termination for default if and to the extent that its delay in performance or other failure to perform its obligations under the Contract is the result of an event of Force-Majeure.

For purposes of this clause, “Force-Majeure” means an event beyond the control of the Supplier and not involving the Supplier’s fault or negligence and not foreseeable. Such events may include, but are not restricted to, act of Purchaser in its sovereign capacity, wars or revolutions, fires, floods, epidemics, quarantine restrictions, and freight embargoes.

If a Force-Majeure situation arises, the Supplier shall promptly notify the purchaser in writing of such condition and the cause thereof. Unless otherwise directed by the

Purchaser in writing, the Supplier shall continue to perform its obligations under the Contract as far as is reasonably practical, and shall seek all reasonable alternative means for performance not prevented by Force-Majeure event.

6. Resolution of Disputes. The Purchaser and the Supplier shall make every effort to resolve amicably by direct informal negotiation any disagreement or dispute between them under or in connection with the Contract. In the case of a dispute between the Purchaser and the Supplier, the dispute shall be settled in accordance with the country procedures of the Purchaser's country. The dispute shall be referred to jurisdiction at the Courts of Samoa.
7. Failure to Perform. The Purchaser may cancel the Contract if the Supplier fails to deliver the Goods in accordance with this Contract with a 14-day notice given by the Purchaser, without incurring any liability to the Supplier.
8. Fraud and Corruption. If the Purchaser determines that the Supplier and/or any of its personnel, or its agents, or its Subcontractors, consultants, service providers, suppliers and/or their employees has engaged in corrupt, fraudulent, collusive, coercive or obstructive practices (as defined in the prevailing World Bank's sanctions procedures), in competing for or in executing the Contract, then the Purchaser may, after giving 14 days' notice to the Supplier, terminate the Contract.
9. Inspections and Audits

9.1 The Supplier shall carry out all instructions of the Purchaser which comply with the applicable laws where the destination is located.

9.2 The Supplier shall permit, and shall cause its Subcontractors and consultants to permit, the World Bank ("the Bank") and/or persons appointed by the Bank to inspect the Supplier's offices and all accounts and records relating to the performance of the Contract and the submission of the bid, and to have such accounts and records audited by auditors appointed by the Bank if requested by the Bank. The Supplier's and its Subcontractors and consultants' attention is drawn to Clause 8 Fraud and Corruption, which provides, inter alia, that acts intended to materially impede the exercise of the Bank's inspection and audit rights constitute a prohibited practice subject to contract termination (as well as to a determination of ineligibility pursuant to the Bank's prevailing sanctions procedures).

Signature and seal of the Purchaser:
FOR AND ON BEHALF OF

Signature and seal of the Supplier:
FOR AND ON BEHALF OF

Name of Authorized Representative
POSITION
COMPANY NAME

Tumanuvao Fa'aofonu'u Evile Falefatu
GENERAL MANAGER
SAMOA AIRPORT AUTHORITY

ANNEX 1: TERMS AND CONDITIONS OF SUPPLY

[To be completed, signed and submitted by the Supplier as an attachment to the signed Form of Quotation]

Project Title: Samoa Aviation & Roads Investment Project (SARIP)

Source of Funding (Grant no.): IDA-E0080

Contract Name: Supply and Installation of PA System at Faleolo International Airport

Contract Ref: SAA/GO/004

1. Prices and Schedules for Supply

(a) For domestically supplied Goods:

Lot No.	Item No	Description of Goods	Quantity	Unit Price	Total Price at final destination (includes all taxes, VAGST, customs duties, transportation and inland insurance)	Delivery Period (days) from Date of Notification of Award, to final destination
<i>Lot 1: Forecourt, Check-in area, Toilet</i>				<i>(to be filled by Bidder)</i>		
1	1.01	Loudspeaker Type 1 - 12"	10		-	30
1	1.02	4 Channel Class D Amplifier	1		-	30
1	1.03	dLive Remote Controller with Turn Rotary Encoder	3		-	30
1	1.04	Corresponding managed network switches	1		-	30
1	1.05	Corresponding accessories (brackets, cables, etc)	1		-	30
1	1.06	Audio expander with connectors	1		-	30
1	1.07	dLive General purpose interface for remote control	4		-	30
1	1.08	Audio Matrix Processor	1		-	30
1	1.09	System Equipment (Audio Interface Card, Microphone Desk Stand, Console Talkback Mic, etc)	1		-	30
1	1.10	Installation, Commissioning and Testing	1		-	75
1	1.11	Miscellaneous	1		-	30
1	1.12	Any other equipment required	1		-	30
				TOTAL	-	

Lot No.	Item No	Description of Goods	Quantity	Unit Price	Total Price at final destination (includes all taxes, VAGST, customs duties, transportation inland and insurance)	Delivery Period (days) from Date of Notification of Award, to final destination
<i>Lot 2: Departure, Security, Immigration, Level 1</i>				<i>(to be filled by Bidder)</i>		
2	2.01	Loudspeaker Type 1 - 12"	11		-	30
2	2.02	Loudspeaker Type 1 - 8"	4		-	30
2	2.03	Power Amplifier	1		-	30
2	2.04	8 Channel Class D Amplifier	2		-	30
2	2.05	dLive Remote Controller with Turn Rotary Encoder	5		-	30
2	2.06	Loudspeaker Type 2	24		-	30
2	2.07	Corresponding accessories (brackets, cables, etc)	1		-	30
2	2.08	System Equipment (Microphone Desk Stand, etc)	1		-	30
2	2.09	Installation, Commissioning and Testing	1		-	75
2	2.10	Miscellaneous	1		-	30
2	2.11	Any other equipment required	1		-	30
				TOTAL	-	

Lot No.	Item No	Description of Goods	Quantity	Unit Price	Total Price at final destination (includes all taxes, VAGST, customs duties, transportation inland and insurance)	Delivery Period (days) from Date of Notification of Award, to final destination
<i>Lot 3: Gate 2, 3 and 4</i>				<i>(to be filled by Bidder)</i>		
3	3.01	8 Channel Class D Amplifier	2		-	30
3	3.02	Loudspeaker Type 3	14		-	30
3	3.03	Corresponding accessories (brackets, cables, etc)	1		-	30
3	3.04	System Equipment (Microphone Desk Stand, etc)	1		-	30
3	3.05	Installation, Commissioning and Testing	1		-	75
3	3.06	Miscellaneous	1		-	30
3	3.07	Any other equipment required	1		-	30
				TOTAL	-	

Lot No.	Item No	Description of Goods	Quantity	Unit Price	Total Price at final destination (includes all taxes, VAGST, customs duties, transportation and inland insurance)	Delivery Period (days) from Date of Notification of Award, to final destination
<i>Lot 4: Arrival, Baggage, Meeters & Greeters, VIP</i>				<i>(to be filled by Bidder)</i>		
4	4.01	Loudspeaker Type 1 - 8"	26		-	30
4	4.02	8 Channel Class D Amplifier	2		-	30
4	4.03	Corresponding accessories (brackets, cables, etc)	1		-	30
4	4.04	Installation, Commissioning and Testing	1		-	75
4	4.05	Miscellaneous	1		-	30
4	4.06	Any other equipment required	1		-	30
				TOTAL	-	

2. **Fixed Price:** The prices indicated above are firm and fixed and not subject to any adjustment during contract performance.
3. The Purchaser reserves the right at the time of contract finalization to increase by up to 20% the quantity of goods and services originally specified for each item without any change in unit prices as well as other terms and conditions.
4. **Delivery Schedule:** The delivery should be completed as per above schedule. The final destination for delivery of the Goods is **Samoa Airport Authority Premises, Faleolo.**

Insurance: The supplier is responsible for all kinds of insurance until the goods are delivered and installed to the final destination and the Purchaser will not assume any responsibility until goods are delivered and installed. For Goods to be imported, the Goods supplied shall be fully insured in a freely convertible currency against loss of damage incidental to manufacture or acquisition, transportation, storage and delivery. The insurance shall be in an amount equal to 110 percent of the total value of the Goods from Warehouse to Warehouse on All-risks basis, including War Risks. The Supplier shall arrange and pay for cargo insurance, naming the Purchaser as the beneficiary.
5. **Packaging and Marking Instructions:** The Supplier shall provide standard packing of the Goods as required to prevent their damage or deterioration during transit to and unloading at the final/port of destination.
6. **N/A - Delivery and Documents (for goods to be imported).** Upon shipment, the Supplier shall notify the Purchaser and the Insurance Company by mail or fax the full details of shipment, including Contract number, description of goods, quantity, the vessel, the Shipping and Forwarding Receipt from freight Company showing full details, port of loading, date of shipment, port of discharge, etc. The Supplier shall mail the following documents to the Purchaser, with a copy to the Insurance Company:
 - (i) Copies of the Supplier's invoice showing goods' description, quantity, unit price, and total amount;

- (ii) Duplicate air/ship/truck transport document, and/or duplicate FCR (Forwarders Certificate of Receipt) in 1 Original and 2 Copies marked “freight prepaid”;
- (iii) Copies of the packing list identifying contents of each package;
- (iv) Manufacturer’s or supplier's warranty certificate;
- (v) Certificate of origin;
- (vi) Certificate of quality.

The above documents shall be received by the Purchaser at least one week before arrival of the goods at the final destination and, if not received, the Supplier shall be responsible for any consequent expenses.

7. Payment. Payment against the Contract will be made as follows:

(a) For domestically supplied Goods: Payment against the Supplier’s invoice will be made as follows:

- i. 100% against receipt of goods and issue of Acceptance Certificate by the Purchaser, for the respective delivery. Payment shall be made by bank transfer to the account of the supplier. In case of very small amounts and non-availability of bank facilities in remote areas, payment may be made in cash by the Purchaser against a receipt.

8. Warranty. Goods offered should be covered by a warranty as specified in Annex 2, Technical Specifications.

9. Packaging and Marking Instructions. The Supplier shall provide standard packing of the Goods as required to prevent their damage or deterioration during transit to their final destination, as indicated in the Contract.

10. Defects. All defects shall be corrected by the Supplier without any cost to the Purchaser within 30 days from the date of notice by Purchaser. Name and address of service facility of the Supplier by which the defects are to be corrected, within the warranty period:

Name and Address _____ *(to be filled by Supplier)*

11. The Supplier confirms compliance with the Technical Specifications provided in Annex 2, subject to the accepted deviations, if any, in Annex 4.

NAME OF SUPPLIER _____

Authorized Signature _____

Place:

Date:

ANNEX 2: TECHNICAL SPECIFICATIONS

Project Title: Samoa Aviation & Roads Investment Project (SARIP)

Source of Funding (Grant no.): IDA-E0080

Contract Name: Supply and Installation of PA System at Faleolo International Airport

Contract Ref: SAA/GO/004

1. REQUIREMENTS:

1.1 The requirements cover supply, installation, commissioning and testing of the Public Address (PA) System. The system may have centralised or distributed amplifiers

1.2 The system can be combined with other paging functions or piped music or any other announcements as specified.

1.3 The Supplier shall provide a rate for installation, commissioning and testing.

1.4 Delivery of all equipment shall be within 30 days from contract signing.

1.5 Installation of all systems must be completed within 30 days from equipment arriving.

1.6 Commissioning and testing of the system must be completed within 15 days of installation completion.

1.7 The system shall have a warranty period of 12 months from date of site acceptance of the system.

1.8 The Supplier shall provide after sales support for 12 months from date of site acceptance of the system.

2. **SYSTEM DESCRIPTION:** The main objective of the Public Address System is to convey clear and audible instructions to all the people on all floors / buildings in case of occurrence of fire / other emergency to reach a place of safety in the open, outside the buildings. The sound output should not be so loud that people nearest to the speakers feel uncomfortable, nor so weak that people away cannot discern what is being broadcast.

2.1 PA System shall cater to fire evacuation speakers for broadcasting alarm signals and evacuation messages in the event of an emergency. The same speakers shall be used for soft music for the selected area if asked for.

2.2 The PA System shall operate on 220VAC power and shall suitable for continuous duty, be of modular design and utilize component based on solid state technology.

3. CODES AND STANDARDS:

3.1 The design, manufacture and performance of equipment shall comply with all currently applicable statutes, regulations and safety codes. Nothing in this specification shall be construed to relieve Supplier of this responsibility. All the components should be designed and installed as per applicable regulations and safety codes.

3.2 The Public Address System shall be robust and the components such as speaker amplifier, tone generator, wiring circuits, uninterrupted power supplies.

3.3 System Requirements:

The system will comprise of a microphone suitable for voice communication / Announcements through speakers on various floors/buildings. The system shall consist of the following for each building/block. Cabling shall be carried out from local consoles to main console at Central Integrated Building Management System (IBMS) room and remote amp locations.

- a. System Matrix with Microphones
- b. Amplifiers
- c. Speaker
- d. Connecting cables and Racks for mounting above.

P.A. System shall be capable of generating both emergency and evacuation messages to 'ALL' or selected speaker zones located within the floor. It shall also be able to page passengers play music 'ALL' or selected speaker zone.

The system shall essentially consist of microprocessor (AHM) based central control equipment with zone selectable announcement. Normally background music shall be played, in selected zone only, using the central audio player source. When a particular zone is selected for making an announcement, the background music to that particular zone only shall be cut-off and the announcement relayed. Once the announcement is over, the music shall resume.

An emergency call shall include following:

- i) A special message or siren to (*be confirmed*).
- ii) PA pre-recorded message shall be broadcasted on completion of the (*be confirmed*) signal.
- iii) It shall be possible to repeat both of the above procedures to be repeated during the emergency period.
- iv) Provision for recording the message in the field shall be available.

4. SYSTEM SPECIFICATIONS:

- a. The system shall provide the Voice paging to individual, grouped or to all zones, from the controller's room via microphone or paging stations.
- b. Voice paging to individual or all zones, from the microphone shall override broadcast or recorded messages, in those selected zones. The paging zones are

to select via a keypad located at the microphone locations. Public Address System 2 of 5.

- c. The system shall be capable of being easily extended to accommodate (25% spare capacity) additional handsets, speakers, etc., in future. For this purpose, adequate spare capacity shall be provided in equipment. The public address system shall incorporate following operational features:
- d. A 'siren tone' oscillator and a siren switch shall be provided for emergency purposes. This shall be such that it can be actuated from the handset station only fitted on the main fire alarm control panel. The siren tone shall broadcast over all the loudspeakers.
- e. A 'Testing signal' tone oscillator and a test signal switch shall be provided for testing purposes. The test signal shall be broadcast over all the loudspeakers.
- f. The frequencies of the tones for 'call attention', 'emergency siren' and 'testing' shall be very much different from each other, so that the same could be differentiated clearly.
- g. The supplier shall specifically confirm that communication shall be clear and audible even in noisy areas. If any adjustments in amplifier system etc. required in this connection at site during and after commissioning the same shall be done.

5. POWER AMPLIFIERS:

The amplifier shall provide eight output channels of Class D amplification with 96kHz DSP (Digital Signal Processing) on all inputs and outputs. It shall have both analogue and AES3 digital inputs and shall incorporate capabilities for remote system control and monitoring via Ethernet. A front panel user interface with a backlit display shall provide local control.

It shall be equipped with four analogue input connectors, four analogue link connectors, a dual-channel AES3 input connector and a dual-channel AES3 link connector, as well as an Ethernet port. Dante™ digital audio network primary and secondary connectors shall also be provided for digital audio distribution and control. Four output connectors, shall be of the Neutrik Speakon™ NL4 type, with each connector carrying two output channels.

Analog inputs shall each have an input impedance of 20kΩ, electronically balanced to ground.

The amplifier shall be equipped with a switch mode power supply with auto-sensing global mains operation from 85 -240 V AC, 47 - 63Hz. Dual vari-speed fans with front-to-back airflow shall be employed for cooling and the amplifier shall incorporate comprehensive monitoring and protection functions to maintain safe operating conditions of both itself and the loudspeaker systems driven.

The output power shall be 8 x 1250W into 2 ohms with a crest factor of 4 (12dB), 8 x 1250W into 4 ohms with a crest factor of 2.8 (9dB) and 8 x 1250W into 8 ohms with a crest factor of 2 (6dB), all channels driven.

6. SYSTEM MATRIX

The system Matrix shall have the following specifications:

- 64x64 processing matrix
- 12x12 local analog I/O
- I/O Port for audio networking, up to 128x128
- Dante 96kHz 64x64 optional card (AES67 and DDM ready)
- 128x128 built-in SLink port for audio expansion
- 64 configurable processing outs – up to 64 mono/stereo zones
- 96kHz FPGA core with ultra-low latency
- Compatible with IP1, IP6, IP8 remote controllers
- 2x2 local GPIO plus networkable GPIO interfaceDC backup power supply
- System Manager software
- Custom Control app and editor
- 32 user profiles
- Integrated stereo / dual mono playback
- Event scheduler
- Sound management tools:
 - 8x Automatic Mic Mixers
 - AEC (Acoustic Echo Cancellation) – optional module
 - ANC (Ambient Noise Compensation)
 - Priority ducking
 - 8-band PEQ, dynamics and delay on every input and zone
 - Speaker processing with x-over filter, delay, limiter and PEQ

The system must be equipped with appropriate fully managed AV line switches, desk stand, interface card, mic console, remote controllers where appropriate, racks, cables, and any other equipment required for the system to be safely installed and functioning at an optimal level.

7. SPEAKER AND CABLES:

- 7.1 Each speaker (Ceiling / wall mounted) shall have a minimum two-hour fire rated cover back side and the cables shall be directly terminated to the box with proper cable gland. The assembly shall be secured in to cut-out, using two integral spring-loaded ceiling locking clamps.

Loudspeaker Type I:

The loudspeaker shall be a passive, two-way system utilising Coaxial Differential Dispersion technology. Its transducers shall consist of a reflex-loaded 8” low frequency driver and a coaxially-mounted 1” exit high frequency compression driver loaded by a static waveguide that merges with moving waveguides added to the cone of the low frequency driver to define the HF horn geometry.

The coaxial driver shall be user-rotatable to enable vertical or horizontal operation as required by the application. Horizontal dispersion shall vary from 110° to 80° and vertical dispersion shall be 60°. The on-axis frequency response

shall be 70Hz-20kHz +/- 3dB and the loudspeaker shall produce a maximum SPL of 123dB peak calculated at 1 metre. Power handling shall be 200W AES, 800W peak. Rated impedance shall be 8 ohms.

The input connector shall be a low-profile 13A push-lock type. Low and high frequency sections shall be integrated by an internal 2.3kHz passive network. For optimal the loudspeaker shall be operated in conjunction with a dedicated electronic controller.

The enclosure shall be made from rigid composite material and fitted with threaded inserts for wall and ceiling mounting. The drivers shall be protected by a perforated steel grille with scrim cloth backing.

Loudspeaker Type II:

The loudspeaker shall be a wide-dispersion, two-way, in-ceiling system consisting of a 5.25" low frequency transducer and a 0.75" dome high frequency transducer mounted in a ported enclosure. The enclosure shall comprise a pressed steel backcan with a UL94V-0 fire-rated moulded baffle. The transducers shall be protected by a quick-release perforated steel grille.

Input and loop through connections shall be made via a ceramic connector located behind a fire-retardant steel cover.

The loudspeaker shall include a steel support ring and tile rails. A safety ring on the backcan shall enable direct attachment to the building structure as a secondary support.

Dispersion shall be 150° conical up to 7kHz. The on-axis frequency response shall be 98Hz-20kHz +/- 3dB and the loudspeaker shall produce a maximum SPL of 113dB peak calculated at 1 metre. Power handling shall be 50W AES, 200W peak.

The loudspeaker shall be equipped with a transformer for 70V or 100V line operation, with taps selected by a rotary switch on the front baffle. The switch shall also provide for 16-ohm low impedance operation of the loudspeaker. Low and high frequency sections shall be integrated by an internal 3kHz passive network, with auto-resetting LF and HF fuses to protect the drivers from overload.

Loudspeaker Type III:

The loudspeaker shall be a passive two-way, micro line array module. The transducers shall consist of two 3.5" low frequency drivers and five closely-spaced 0.55" dome high frequency drivers coupled to a constant directivity horn. The low frequency transducers shall be sited in the horn walls and have cones with front surfaces that follow the wall contours.

The loudspeaker shall have 100° horizontal dispersion and 5° vertical dispersion. Vertical dispersion of the complete array shall be determined by a combination of the splay angles between adjacent enclosures and dedicated array control software. The on-axis frequency response shall be 85Hz-20kHz +/- 3dB and the loudspeaker shall produce a maximum SPL of 110dB peak at 1 metre.

Input connection shall be made via a 4-pole socket connector with link-out capability. Impedance of a single enclosure module shall be 16 ohms. Impedance of multiple modules shall depend on the specific series/parallel wiring configuration adopted for the installation.

The enclosure shall be constructed from ABS with drivers protected by a perforated steel grille. It shall incorporate an integral captive bracket to assemble an array of up to 24 modules for suspension from a dedicated flying bracket, or up to 16 modules for wall-mounting with a dedicated wall bracket.

8. FULL LIST OF EQUIPMENT BY LOTS:

Lot No.	Item No	Description of Goods	Quantity
<i>Lot 1: Forecourt, Check-in area, Toilet</i>			
1	1.01	Loudspeaker Type 1 - 12"	10
1	1.02	4 Channel Class D Amplifier	1
1	1.03	dLive Remote Controller with Turn Rotary Encoder	3
1	1.04	Corresponding managed network switches	1
1	1.05	Corresponding accessories (brackets, cables, etc)	1
1	1.06	Audio expander with connectors	1
1	1.07	dLive General purpose interface for remote control	4
1	1.08	Audio Matrix Processor	1
1	1.09	System Equipment (Audio Interface Card, Microphone Desk Stand, Console Talkback Mic, etc)	1
1	1.10	Installation, Commissioning and Testing	1
1	1.11	Miscellaneous	1
1	1.12	Any other equipment required	1

Lot No.	Item No	Description of Goods	Quantity
<i>Lot 2: Departure, Security, Immigration, Level 1</i>			
2	2.01	Loudspeaker Type 1 - 12"	11
2	2.02	Loudspeaker Type 1 - 8"	4
2	2.03	Power Amplifier	1
2	2.04	8 Channel Class D Amplifier	2
2	2.05	dLive Remote Controller with Turn Rotary Encoder	5
2	2.06	Loudspeaker Type 2	24
2	2.07	Corresponding accessories (brackets, cables, etc)	1
2	2.08	System Equipment (Microphone Desk Stand, etc)	1
2	2.09	Installation, Commissioning and Testing	1
2	2.10	Miscellaneous	1
2	2.11	Any other equipment required	1

Lot No.	Item No	Description of Goods	Quantity
<i>Lot 3: Gate 2, 3 and 4</i>			
3	3.01	8 Channel Class D Amplifier	2
3	3.02	Loudspeaker Type 3	14
3	3.03	Corresponding accessories (brackets, cables, etc)	1
3	3.04	System Equipment (Microphone Desk Stand, etc)	1
3	3.05	Installation, Commissioning and Testing	1
3	3.06	Miscellaneous	1
3	3.07	Any other equipment required	1

Lot No.	Item No	Description of Goods	Quantity
<i>Lot 4: Arrival, Baggage, Meeters & Greeters, VIP</i>			
4	4.01	Loudspeaker Type 1 - 8"	26
4	4.02	8 Channel Class D Amplifier	2
4	4.03	Corresponding accessories (brackets, cables, etc)	1
4	4.04	Installation, Commissioning and Testing	1
4	4.05	Miscellaneous	1
4	4.06	Any other equipment required	1

ANNEX 3: FORM OF QUOTATION

[To be completed, signed and submitted on Letterhead of Supplier]

_____ (Date)

To: _____ (Purchaser's Name)

_____ (Purchaser's Address)

Project Title: Samoa Aviation & Roads Investment Project (SARIP)

Source of Funding (Grant no.): IDA-E0080

Contract Name: Supply and Installation of PA System at Faleolo International Airport

Contract Ref: SAA/GO/004

We offer to execute the _____ (*Purchaser to fill name and number of Contract*) in accordance with the Form of Contract and Annexes accompanying your Request for Quotation (RFQ) for the Contract Price of _____ (amount in words and numbers) (_____) (name of currency). We propose to complete the delivery of Goods described in the Contract within a period of _____ calendar days from the Date of Notification of Award.

This Quotation and your written acceptance will constitute a binding Contract between us. We understand that you are not bound to accept the lowest or any Quotation you receive.

We hereby confirm that this Quotation complies with the Validity of the Quotation required by the RFQ.

Authorized Signature: _____

Name and Title of Signatory _____

Name of Supplier: _____

Address: _____

Phone Number _____

Fax Number, if any _____

e-mail address: -----

ANNEX 4: STATEMENT OF TECHNICAL COMPLIANCE

[To be completed, signed and submitted by the Supplier as an attachment to the signed Form of Quotation]

Project Title: Samoa Aviation & Roads Investment Project (SARIP)

Source of Funding (Grant no.): IDA-E0080

Contract Name: Supply and Installation of PA System at Faleolo International Airport

Contract Ref: SAA/GO/004

Date:

To: *(name of Purchaser)*

We, the undersigned, confirm that we shall supply the Goods listed in Annex 1 according to the standards and specifications described in Annex 2 except for those deviations listed below:

List all deviations of the proposed items of Goods:

or

nil

We confirm that the Goods proposed in our quotation substantially satisfy the requirements specified in the specifications. The main technical responses are as listed below:

List all the main technical characteristics of the proposed items of Goods:

Authorized Signature: _____

Name and Title of Signatory _____

Name of Supplier: _____

Address: _____
