

CORRIGENDUM-7

KIAL/IT/TDR/2018-19/2

22 April 2019

Name of work: Procurement, Design, Development, Testing, Implementation, Integration and Operation & Maintenance of an Enterprise Software and to function as Master Integrator for Kannur International Airport Limited.

Tender No: KIAL/IT/TDR/2018-19/2

Tender ID: 2019_KIAL_270105_1

Please note the elaboration of some of the items in the scope of work as follows:

I. Gate Operating System:

Gate Operating System or SafeControl Apron Management System uses integration and real-time intelligence to optimize the use of resources and improve the predictability of events on the apron. With a focus on streamlining the aircraft turnaround and pre-departure sequencing processes, airport and airline performance is enhanced through faster gate turns, reduced delays and congestion and increased productivity and cost-efficiency. System should be able to link VDGS with AODB.

Features & Functions:

- Enable fully-automated docking
- Configure adjacent gate rules to ensure compatibility
- Know the precise status of connected gate equipment
- Receive alerts to potential issues before an aircraft arrives
- Update flight database with the latest gate/flight information
- Automatically send actual block IN & OUT times to flight database
- Share flight information with ground and flight crews through RIDS capability
- Warn operators of weather events
- Track and report use of ground support systems
- Track position of in/outbound aircraft within range of VDGS
- Flexibility to expand and integrate with other systems

2. Ground Handling System

Ground Handling System is used mainly for tracking the performance of GH Agency. The system should be able to track the kind of services given by GH team to each aircraft along with tracking the resources allocated to each aircraft. Ultimate of aim of this system is to do an effective and optimal utilization of the GH Resources. By tracking the services provided to the aircraft, the system should be able to supply the required data to Commercial team for generating invoice.

ANNEXURE-14

Sl.No	Description of Items	Quantity
1	NETWORKING - DATA , VOICE, FIDS, GIDS, BIDS, COMMERCIAL TV, ACCESS CONTROL, BMS, SMATV (PASSIVE), DATA-CAT6 Backbone Sub System - Fiber Cabling Rack mount Fiber enclosure LIU Rack, Cabinet & Accessories	
2	Data Networking System Active Equipment: Stackable Edge switches	
2.1	48 Port - Stackable switch 10/100/1000Base-TX ports with 2 x 10G SFP+ ports with all accessories	2
2.2	24 Port - Stackable switch 10/100/1000Base-TX ports with 2 x 10G SFP+ ports with all accessories	39
2.3	24 Port - Stackable switch 10/100/1000Base- PoE ports with 2 x 10G SFP+ ports with all accessories	22
2.4	SM 10G SFP+ Transceiver with all accessories	88
2.5	Core Switches - Type 1 with all accessories	2
2.6	Firewalls Cum router with all accessories	2
3	Wi-Fi	
3.1	Wireless LAN Controller with Min 4 X Gig (SFP) ports, min 4 X 1000 Base T ports integrated power supply and license for 40 AP with all accessories	2
3.2	WLAN AP(Access Point) with Dual radio 802.11a/b/g/n 2x2 MIMO (2SS), single 1000Base-T 802.3af PoE Ethernet port, 4 internal antennas. Including Ceiling mount bracket with all accessories required as per specification.	40
4	EPABX	
4.1	19" Rack type Duplex Communication Server CPU.) as per the detailed technical specification including following components: 480 Analog Extensions 2 ISDN PRI Line Interface(Total 60 Channels) 8 Analog trunk Line Interfaces 1 No IP Gateway Card with minimum 60 Channel	
	02 Nos. PC Based operator console with multiple queues over IP with busy lamp display and Head set for operator 20 Nos. License for SIP Extensions Soft phone license including Video Calling for 10 users PA System integration for local paging	1

4.2	Remote Gateway: 19" Rack type Survivable IP Based Media Gateway to communication server via the internal IP network infrastructure as per	1
	96 Analog Extensions	
	1 ISDN PRI Line Interface(Total 30 Channels) 8 Analog trunk Line Interfaces	
	01 No. PC Based operator console with multiple queues over IP with busy lamp display and Head set for operator	
	1 No. Central control module to support minimum 40 B-channels in the IP network	
	Media Gate way should Expandable up to minimum 200 Analog extensions with extra cost	
4.3	Standard IP Phones as per the technical specification with necessary Accessories .	7
4.4	Advanced IP Phone as per the technical specification with necessary Accessories	3
4.5	Lcensed voice mail software for all Analogue , IP and SIP extensions/users with 4 port auto attendant with necessary Accessories	1
4.6	Licensed Maintenance Software for the entire network and possible to diagnosis from anywhere in the LAN PC will be provided by end user) with necessary features,license etc.	1
4.7	ISDN PRI modem(Rad/Patton) with all accessories	1
4.8	Dial tone replacement unit with customized music	1
4.9	Licensed Call Billing Software including OEM license if any with Windows based, work in the LAN ; logging for extensions to to extension call, All outgoing call details. It should be possible to customize reports & downloadable into Excel spreadsheets as & when required	1
4.10	PC Intel core i7, 500 GB HDD, 4 GB RAM, key board, mouse,22" LED monitor	3
4.11	Headset for Operator Console	3
4.12	Telephone instrument as per specification	100
5	CCTV (ACTIVE, PASSIVE, DC,)	
	Structured Cabling	
	Horizontal Cabling	
	Switches	
5.1	Type I PoE Switch with all accessories.	28
5.2	Supply, installation testing and commissioning of Core Switches - Type II with all accessories as per specification.	2
5.3	SM IG SFP Transceiver with all accessories.	96
6	Camera and other items	

6.1	Video Management / Recording Server, licensed VMS Software ONVIF certified video management software with 400 Camera License and 15 Client License. VMS should have feature like E-map, surround camera view, alternate camera view, Alarm management, Log reports, snapshot, video export, instant playback. Prealarm recording, multiple monitor support in client, Digital Zoom, Rule Engine (to work as per the logic given) etc. Video Management/ Recording Server for 400 Cameras in 720p resolution @ 12 fps and with a storage	1
	support (Hard Disk drive) of 300 TB, should have RAID 5 feature. as per specification	
7	Display Panel for CCTV	
7.1	Supply, installation, testing and commissioning of core i7 Client PC as per specification with graphic cards	6
7.2	40" or higher back light LED panel with FULL HD (1920x1080) resolution 24x7 running as per specification	24
7.3	Licensed Video Controller software	1
8	CCTV control room Construction	
	ACCESS CONTROL SYSTEM (ACTIVE, PASSIVE)	
	Access control system complete with necessary hardware, Software, Accessories etc.	
	Software and PC	
8.1	Licensed Security management software integrated with CCTV, Time and Access management system.	1
8.2	Work Station (Core i7, 500 GB HDD, 4GB RAM, Separate Graphic Card, Windows 8) with 22" TFT Monitor. Keyboard, mouse etc.	1
9	CABLE AND CONDUITING	
	SMATV (IP TV) NETWORK	
	SMATV Network	
9.1	SMATV (IP TV) Head end system for 14 channels including all modulators , encoders , connectors with all necessary accessories.	1
9.2	Video encoder for 14 HD channels.	1
9.3	Dish antennas.	5
10	FLIGHT INFORMATION DISPLAY SYSTEM/ BAGGAGE INFORMATION DISPLAY	
	SYSTEM/GATE INFORMATION DISPLAY SYSTEM / DIGITAL SIGNAGES)	
10.1	40" or higher LED Display Monitors for Check in Counters (with In-built Intelligent controller) with floor / ceiling / wall mounting arrangement.	48

10.2	55" or higher LED Display, Intelligent controller with floor / ceiling / wall mounting arrangement	66
10.3	Supply, installation, testing and commissioning of Data Entry Terminal,	5
10.4	FIDS and IP TV servers work as Main & Standby with all accessories (2 FIDS+ IIPTV)	3
10.5	Interactive Voice Response System (IVRS) Server with OS & Database & Automatic Flight Announcement System (AFAS) Server OS & Database	1
10.6	Network Time Protocol (NTP) Server having accuracy of 50ns	1
10.7	42 RU Server rack with integrated 17" TFT with KVM switch, Keyboard, Mouse etc.	1
10.8	2 Nos. X 20 KVA Parallel redundant UPS Set with 30 minutes backup on full load	2
10.9	software for FIDS package with license for 114 LED Monitors & license for 10 Data Entry Terminals as per specification	1
10.10	Licensed software for IVRS package for 4 port IVRS & 1 port SMS as per specification	1
10.11	Licensed software as per requirement of the tender AFAS package with 8 Zone Selections as per specification	1
11	BUILDING MANAGEMENT SYSTEM	
11.1	EN-54 complaint Network Based Digital Integrated Public Address and Voice Alarm System with network redundancy. Digital Surveillance. Decentralized system capability. DSP for clear announcement and BGM. 16 audio bus and 5 simultaneous emergency broadcasting capability. 16 Audio Inputs, 32 audio outputs expandable up to 256, 56 Control Inputs and 56 Control Outputs expandable upto 1416, Sampling frequency: 48 kHz. LCD display, individual volume control with On/off button, built in monitor speaker upto 64 remote microphones. Automated message broadcast with minimum of 256 message capacity with recording facility	1
11.2	Remote Microphone with freely programmable 29 function keys expandable upto 55, Audio Output: 0dB, Frequency Response: 100 - 20Khz, SNR: 60dB or more, Unidirectional electret condenser microphone with AGC, Built in Chime, Monitor Speaker and indicator for Power, Failure, Function switch, Covered switch, Broadcast switch indicator, RJ45 Connector with necessary extension keypads As per the detailed technical specifications (1 (fireman's Mic) + 4(remote mic) + 1 (mic for car calling)	6
	Speakers and Mounting accessories	
	Car Calling System	
11.3	Computer (Core i7, 500 GB HDD, 4GB RAM, Separate Graphic Card, Windows 7) with 17" LED Monitor. Keyboard, mouse etc. as per specification.	1

12	VISITOR ACCESS CONTROL SYSTEM (VACS) - VISITOR MANAGEMENT SYSTEM	
12.1	Licensed Software for VACS,	1
12.2	Licensed client software for the normal pass issuing workstations.	3
12.3	Licensed client software for airport staff visitor pass issuing workstations.	2
12.4	Visitor Notification application software to be installed in airport staff's workstation	50
13	Desktops for office work - Core I5 and above with Windows 7 or Windows 10 as OS	65