

भारतीय विमानपत्तन प्राधिकरण

AIRPORTS AUTHORITY OF INDIA

No. AAI/CIA/ENGG/ELECT/AMED-V/2024-25/A- 50

Date: 05.02.2025

M/s. Trisim Global Solutions Private Limited,
12th Floor, Tower II, Godrej Waterside Park,
Sector V, Kolkata - 700 091.

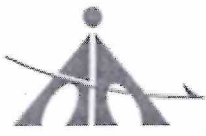
Name of Work : Upgradation of Fire Alarm System at T1, T4 & Utility Building at
Chennai Airport.

Reference : Tender ID: 2024_AAI_220171_1

Dear Sir(s),

1. Your e-tender for the above mentioned work has been accepted by the Competent Authority on behalf of the Chairman, Airports Authority of India, at the item rates quoted by you totaling to ₹ 2,01,48,421.00 (Rupees Two Crore One Lakh Forty Eight Thousand Four Hundred and Twenty One Only) excluding GST which is 16.07% (One Six Decimal Zero Seven Percent) below the Estimated cost of ₹ 2,40,06,468.00 excluding GST put to tender.
2. Deputy General Manager (Engg-Elect.), AAI, Chennai Airport, Chennai - 600 016 shall be the Engineer-in-Charge of the work. You are requested to attend to the Office of Deputy General Manager (Engg-Elect.), AAI, Chennai Airport by 14.02.2025 to sign and complete the contract agreement. The contract agreement shall be executed on a non-judicial stamp paper of value ₹ 100.00 (Rupees One Hundred only) and the cost of the stamp paper shall be borne by you.
3. Please deposit an amount of ₹ 20,14,842.00 (Rupees Twenty Lakhs Fourteen Thousand Eight Hundred and Forty Two Only) towards Security Deposit within 10 days from the date of issue of this letter, failing which, the same will be deducted as per Clause 1A of Contract Document. Earnest Money Deposit amount will be returned back to your account after deducting equal amount of EMD against Security Deposit from your bill.
4. You are requested to comply with the provision of Contract Labour (Regulation and Abolition) Act 1970 and Contract Labour (Regulation and Abolition) Central Rules 1971 and Minimum Wages Act and Rules there of Central and State Governments.
5. Please note that the time allowed for carrying out the work shall be 06 (Six Months) and the same shall be reckoned from 14.02.2025.
6. You are also directed to contact Senior Manager (Engg.-Elect.), Airport Maintenance Electrical Division-V, Airports Authority of India, Operational Offices, Chennai Airport immediately for the execution of the above mentioned work.

Contd...2/-



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:2:

7. Any further correspondence in connection with the contract should normally be addressed to the Engineer-in-Charge.

8. Please acknowledge the receipt and return the duplicate copy of this letter enclosed herewith after signing it to the undersigned as a token of acceptance.

Yours faithfully,



(B. Pradip Kumar)

Deputy General Manager (Engg.-Elect.),
For and on behalf of the Chairman,
Airports Authority of India.

Encl: Schedule of Work

Copy forwarded for information to:

External

1. The Commercial Tax Officer, Chennai - 600 006.
2. Income Tax Officer, Chennai - 600 034.

Internal

1. The General Manager (F&A), AAI, Chennai Airport with ref. to e-file: Computer No. 250953
Note 40 Dated 04.02.2025 vide FC/2024-25/ENGG(E)/342.
2. The Joint General Manager (Vigilance), AAI, Chennai Airport, Chennai.
3. The Assistant General Manager (Engg. Elect.), Planning, AAI, Chennai Airport, Chennai.
4. The Senior Manager (Engg. Elect.) -AMED-V, AAI, Chennai Airport, Chennai.
5. The Senior Manager EA to General Manager (Engg. Elect.), AAI, Chennai Airport, Chennai.
6. Agreement.



Deputy General Manager (Engg.-Elect.)

AIRPORTS AUTHORITY OF INDIA
CHENNAI AIRPORT :: CHENNAI - 600016

Name of Work: Upgradation of Fire Alarm System at T1, T4 & Utility Building at Chennai Airport.

SCHEDULE OF WORK

Sl.No	Description of Item	Qty	Unit	Rate	Amount
1	Supply, Installation, Testing & Commissioning of UL/EN listed (latest version) Modular Microprocessor based expandable intelligent Addressable Type Fire Alarm Control Panel with minimum 10 loops, 240 intelligent addressable detectors/ devices (In any combination) in one loop, minimum 320 character graphics / LCD display with keypad and minimum 4000 events history log in the non-volatile memory (EPROM), capable of taking Protocol Devices, LCD Display, panel shall work in degrade mode incase of CPU failure, suitable for operation on 230 volts, 50 Hz AC power supply, inbuilt/external automatic battery charger with the charging capacity of 200AH, 24 volts, sealed maintenance free batteries sufficient for 2 hours normal working and then be capable of operating the system for 30 minutes during an emergency/fault conditions. The panel shall be equipped with Digital voice control system for 2 ways communication Fire Fighters System capable of supervising all the speaker circuits with adequate zone control and accessories. Failure of Fire panel CPU shall not result in failure of FFT operation. The panel shall have facility for seamless integration with PA system (For giving trigger signal to Start Pre-recorded Digital Voice Evacuation from PA system in case of fire). The panel shall be inter connected with the existing Building Management System (Honeywell) with open protocol BACNET/MODBUS etc. or advanced software as per specification the programme software license & graphic card, CD, Dongle should be handed over to AAI, inclusion of devices and deletion of devices should be carried out till the life of Fire Alarm Panel i.e., is 5 years, antivirus software original version should be installed and updated till the-life time of the panel, battery stand may be provided for above batteries etc., Supply, Installation, Testing & Commissioning of Network Control Annunciator Card for Integration to view all panels of other Area etc. complete as required. List of Preferred makes for use in AAI works.				
a	Ground Floor	2	Each	5,63,186.00	11,26,372.00
2	Supply, Installation, Testing & Commissioning of UL/EN listed (latest version) Modular Microprocessor based expandable intelligent Addressable Type Fire Alarm Control Panel with min 10 loops , 240 intelligent addressable detectors/ devices (In any combination) in one loop, with minimum 320 character graphics / LCD display with keypad and minimum 4000 events history log in the non-volatile memory (EPROM) , capable of taking Protocol Devices, LCD Display, panel shall work in degrade mode incase of CPU failure, suitable for operation on 230 volts, 50 Hz AC power supply, inbuilt/external automatic battery charger with the charging capacity of 200AH, 24 volts, sealed maintenance free batteries sufficient for 2 hours normal working and then be capable of operating the system for 30 minutes during an emergency/fault conditions along with battery stand. as per relevant standard/specifications complete as required. Supply, Installation, Testing & Commissioning of Network Control Annunciator Card for Integration to view all panels of other Area etc. complete as required. List of Preferred makes for use in AAI works.				
a	Basement & Mezzanine Floor	4	Each	3,28,491.00	13,13,964.00
3	Supply, Installation, Testing & Commissioning of UL/EN listed (latest version) Modular Microprocessor based expandable intelligent Addressable Type Fire Alarm Control Panel with min 4 loops , 240 intelligent addressable detectors/ devices (In any combination) in one loop, with minimum 320 character graphics / LCD display with keypad and minimum 4000 events history log in the non-volatile memory (EPROM) , capable of taking Protocol Devices, LCD Display, panel shall work in degrade mode incase of CPU failure, suitable for operation on 230 volts, 50 Hz AC power supply, inbuilt/external automatic battery charger with the charging capacity of 200 AH, 24 volts, sealed maintenance free batteries sufficient for 2 hours normal working and then be capable of operating the system for 30 minutes during an emergency/fault conditions along with battery stand. as per relevant standard/specifications complete as required. Supply, Installation, Testing & Commissioning of Network Control Annunciator Card for Integration to view all panels of other Area etc. complete as required. List of Preferred makes for use in AAI works.				
a	Utility Building	1	Each	3,04,938.00	3,04,938.00

Sl.No	Description of Item	Qty	Unit	Rate	Amount
4	SITC of Open Protocol Modbus Interface Module for Graphics Integration etc. complete as required.	2	Each	0.00	0.00
5	Supply, Installation, Testing & Commissioning of UL / EN listed (latest version) Repeater Panel shall provide pin point location of the fault or fire event and should Provide complete control (shall not be dependent on the Fire Panel CPU operation) of system at remote location. The panel shall have a 320 character (graphics) / LCD display with touch screen or other keypad. Supply, Installation, Testing & Commissioning of Network Card for above panels & Annunciator Card etc. complete as required. List of Preferred makes for use in AAI works.	6	Each	1,96,519.00	11,79,114.00
6	Supply, Installation, Testing & commissioning of UL/EN listed (latest version) intelligent addressable Smoke detector with base and unique optical sensing chamber, visible LED etc. complete with plug into common separate base & housing constructed of LEXAN (or polycarbonate) or equivalent complete with connections etc. as required and to be installed below/above false ceiling roof and concrete space and as per enclosed specifications complete as required. (Cost of plug in common base shall deemed to be included in cost of detectors) List of Preferred makes for use in AAI works.	5000	Each	1,680.00	84,00,000.00
7	Supply, Installation, Testing and Commissioning of UL / EN listed (latest version) intelligent Addressable Type Heat Detector/Laser Dedector (Fixed cum-rate of rise type) with max. triggering temperature programmable as per UL/EN settings complete with all fixing accessories like base, base box, self-adhesive sticker indicating loop number and address etc. to be installed below / above false ceiling, roof and concealed space, etc. interconnecting to loop cable, etc. as per specification complete as required. List of Preferred makes for use in AAI works.	403	Each	1,670.00	6,73,010.00
8	Supply, Installation, Testing and Commissioning of UL / EN listed (latest version) Response Indicators for getting fire indications of detectors above false ceiling area interconnecting to loop cable etc. as per specification complete as required. List of Preferred makes for use in AAI works.	254	Each	202.00	51,308.00
9	Supply, Installation, Testing & Commissioning of UL/EN listed (latest version) Intelligent Addressable fault isolator module complete etc. required and as per specification. List of Preferred makes for use in AAI works.	253	Each	0.00	0.00
10	Supply, Installation, Testing & Commissioning of UL/EN listed (latest version) Intelligent Addressable Manual Call Station (Push & pull dual action type) with connection etc. complete as required and as per Specifications. List of Preferred makes for use in AAI works.	218	Each	3,851.00	8,39,518.00
11	Supply, Installation, Testing & Commissioning of UL/EN listed (latest version) Addressable Hooter-cum strobe with adjustable sound level in the range as per UL/EN described db with termination etc. complete as required and as per Specification. List of Preferred makes for use in AAI works.	197	Each	2,343.00	4,61,571.00
12	Supply, Installation, Testing and commissioning of UL/EN listed (latest version) Intelligent Addressable Control Module for Sounders/Strobes/Sounder cum strobes/Telephone with termination etc. complete as required and as per Specifications. List of Preferred makes for use in AAI works.	356	Each	3,214.00	11,44,184.00
13	Supply, Installation, Testing and Commissioning of UL/EN listed (latest version) Intelligent Addressable Relay Module (output module) for tripping of AHU & Ventilation /pressurisation fans/hooter with termination etc. complete as required and as per Specifications. List of Preferred makes for use in AAI works.	368	Each	3,214.00	11,82,752.00
14	Supply, Installation, Testing and Commissioning of UL/EN listed (latest version) of Fireman telephone jack with suitable module for two-way communication, complete etc. as required and as per Specifications.	105	Each	2,520.00	2,64,600.00
15	Supply, Erection, Testing and Commissioning of Fire Fighters Telephone Headset with enclosure for two-way communication between Remote Fire Fighter & Fire Command Centre Complete etc. as required.	12	Each	6,119.00	73,428.00
16	Providing, Installation, Testing & Commissioning of UL/EN listed (latest version) Monitor Module /input module etc. complete as per Specifications. List of Preferred makes for use in AAI works.	287	Each	2,569.00	7,37,303.00
17	Supplying & laying of 2 X 1.5 Sq.mm FRLS armoured cable, copper conductor in surface /false ceiling etc. as per applicable IS standard complete as required. (Shall be executed as per site requirement) List of Preferred makes for use in AAI works.	5800	Mtrs	104.00	6,03,200.00

Sl.No	Description of Item	Qty	Unit	Rate	Amount
18	Supply, Installation, Testing & Commissioning of UL/EN listed (latest version) 12V/24V 4.5 amps suitable SMPS etc. complete as required.	197	Each	647.00	1,27,459.00
19	Supply, Installation, Testing and Commissioning of UL/EN listed (latest version) of approved make Addressable Duct Smoke detector, the high sensitivity Duct Smoke Detectors, sensitivity with Smoke Probe/Tubes and Addressable detectors including the cost of mounting accessories complete as per Specification and as required. List of Preferred makes for use in AAI works.	67	Each	7,830.00	5,24,610.00
20	Supply, Installation, Testing & Commissioning of Graphic User Interface (GUI) / Operator work station with PC having Intel Pentium I7 Processor or latest version including serial ports (RS232) and USB ports and following accessories etc. complete with software all as specified: a. 4 Gigabytes of RAM memory b. 2 TB of hard disk space c. DVD ROM d. 21" LED colour monitor e. Mouse with Mouse Pad f. Standard Key Board g. Latest Windows Operating System h. Compatible Fire Alarm System Control Software i. Laser Printer colour A4- 1 No j. Software for Automatic Fire Detection and Alarm System k. Software for Aspiration Based Smoke Detection System l. UPS 800 VA or better	2	Job	5,45,670.00	10,91,340.00
21	Dismantling of existing Fire alarm control panels & associated components like Smoke, Heat detectors, MCP, Hooters etc. from ceiling/low ceiling areas and shifting to AAI stores etc. complete as required.	2	Job	24,875.00	49,750.00
				Total Rs.	2,01,48,421.00

(Rupees Two Crore One Lakh Forty Eight Thousand Four Hundred and Twenty One Only) (Excluding 18% GST)


05/02/2025

(B. Pradip Kumar)
Deputy General Manager (Engg-Elect)