

BOQ Summary Details

**Tender Title: Construction of Sub-Station and Ancillary Works for New ASR Collocated MSSR at RHQ SR, Chennai Airport.
SH Provision of Automatic Gaseous Fire Suppression System and its Associated Works including AICMC for 05 Years after
02 Years DLP**

Sheet Name	Sl.No	Bidder Name	Amount	Bid Rank
BoQ1	1	Kalpataru Industries (BID ID -865027)	9528688.50	L1
	2	advent electric technologies pvt. ltd. (BID ID -868831)	9997979.00	L2
	3	PYROGUARD ENGINEERS PRIVATE LIMITED (BID ID -869943)	10983215.00	L3
	4	Vasu Infosec Pvt Ltd (BID ID -870392)	11185089.98	L4
	5	Nexus Fire And Security Systems (BID ID -869161)	11777551.00	L5

Government eProcurement System

Created By: A NARASIMHA PRASAD

Created Date/Time: 15-Jul-2025 11:45 AM

Tender Title: Construction of Sub-Station and Ancillary Works for New ASR Collocated MSSR at RHQ SR, Chennai Airport. SH Provision of Automatic Gaseous Fire Suppression System and its Associated Works including AICMC for 05 Years after 02 Years DLP

Tender ID: 2025_AAI_236103_1

Tender Inviting Authority: SENIOR MANAGER (ENGG-ELECTRICAL), AAI, RHQ-SR, CHENNAI - 600016

Name of Work: Construction of Sub-Station and Ancillary Works for New ASR Collocated MSSR at RHQ-SR, Chennai Airport. SH: Provision

Contract No: 2025_AAI_236103_1

SCHEDULE OF WORK / ITEM(S)

Sl.No	Description of Work / Item(s)	No.of Qty	Units	Estimated Rate	advent electric technologies pvt. ltd. (GSTN-07AAJCA2055K1ZN) BID ID -868831		Nexus Fire And Security Systems (GSTN-07AAKFN7125K1ZY) BID ID -869161		PYROGUARD ENGINEERS PRIVATE LIMITED (GSTN-07AACCP9466E1Z7) BID ID -869943		Vasu Infosec Pvt Ltd (GSTN-27AABCV6080D1ZE) BID ID -870392		Kalpataru Industries (GSTN-NA) BID ID -865027	
					Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount
1.00	SH-I: DSITC of Fire Suppression System and Fire Alarm System													
1.01	Design, Supply, Installation, Testing & Commissioning of Clean Agent Gas Flooding System for following areas, complete using Gas Agent as per NFPA 2001. Supply of Cylinder UL listed /FM/VDS/LPCB/CCOE(PESO) Approved, complete with valve assembly and arrangement for supervisory switch connection for monitoring cylinder pressure. A pressure gauge with a safety burst disc, electronic control head / Solenoid, pressure operated control, head, flexible hose, strap, NRV and safety cap. Gas - Quantity would be as per the design volume and as per the necessary codal specifications UL Certifications. Clean agent shall be of FK-5-1-12 Gas flooding System with all cylinders, gas, manifold, Master Cylinder Accessories for above including Electrical Control Head, Discharge Hose and Gas discharge Warning sign, Nozzles including providing, installing, testing and commissioning of Gas Release Panel complete with timer, battery back up, Gas Release/Gas Abort Switch etc complete system as required. item also includes Fire alarm system for cross zoning and supply & laying of Fire survival cable, detector & panels. Note: The Individual system will be provided in specified areas only. The contractor will design the system as per NFPA 2001. The contractor will get the design approved by AAI before execution. Statutory Approvals, if required, will be taken from concerned authorities. The piping design and pressure calculations using manufacturer design software for a given dimension of room duly approved by manufacturer/ distributors shall be submitted prior to starting of the works.													

L1 Amount	L1 Vendor
-----------	-----------

1.02	Supply, Installation, Testing and Commissioning of 140/120 litre capacity, seamless, high pressure, cylinder assembly, conforming to IS - 7285 (PT-2): 2004 or UL - 2166 etc. complete as required including valve, bracket assembly, pressure guage and 2 inch flexible discharge hose etc. complete as required. (FOR EQUIPMENT ROOM)	9.00	Each
1.03	Supply, Installation, Testing and Commissioning of 80//75/68 litre capacity, seamless, high pressure, cylinder assembly, conforming to IS - 7285 (PT-2): 2004 or UL - 2166 etc. complete as required including valve, bracket assembly, pressure guage and 2 inch flexible discharge hose etc. complete as required. (FOR EQUIPMENT ROOM)	6.00	Each
1.04	Supply, Installation, Testing and Commissioning of 40/34 litre capacity, seamless, high pressure, cylinder assembly, conforming to IS - 7285 (PT-2): 2004 or UL - 2166 etc. complete as required including valve, bracket assembly and 2 inch flexible discharge hose etc. complete as required. (FOR ELECTRICAL ROOM & UPS ROOM)	3.00	Each
1.05	Supply, Installation, Testing and Commissioning of 27/13 litre capacity, seamless, high pressure, cylinder assembly, conforming to IS - 7285 (PT-2): 2004 or UL - 2166 etc. complete as required including valve, bracket assembly and 2 inch flexible discharge hose etc. complete as required. (FOR RADAR MACHINE ROOM, ELECTRICAL & UPS ROOM)	4.00	Each
1.06	Supply and filling of clean, odourless, colour less, UL listed and suitable for fire class - A, B & C fire suppression agent (FK-5-1-12 Clean Agent) etc. complete as required.	1640.00	KG
1.07	Supply, Installation, Testing and Commissioning of 24 V DC, Electric Actuator and Local /manual pneumatic actuator for triggering the cylinder assembly etc. complete as required.	22.00	Each
1.08	Supplying, installation, testing and commissioning of Low pressure switch for the cylinder assembly etc. complete as required.	22.00	Each
1.09	Supplying, installation, testing and commissioning of Manual Gas Release Station etc. complete as required.	22.00	Each
1.10	Supplying, installation, testing and commissioning of Manual Gas Abort Station etc. complete as required.	22.00	Each
1.11	Suplying and fixing of suitable size (as per hydraulic flow calculation) nozzle with orfices etc. complete as required.	44.00	Each

107000.00	963000.00	89500.00	805500.00	179480.00	1615320.00	81000.00	729000.00	108750.00	978750.00
85000.00	510000.00	75500.00	453000.00	100480.00	602880.00	76000.00	456000.00	95250.00	571500.00
62167.00	186501.00	52400.00	157200.00	96340.00	289020.00	70000.00	210000.00	82750.00	248250.00
63000.00	252000.00	52400.00	209600.00	85400.00	341600.00	70000.00	280000.00	81250.00	325000.00
1400.00	2296000.00	1380.00	2263200.00	1430.00	2345200.00	1542.00	2528880.00	1475.00	2419000.00
18000.00	396000.00	35000.00	770000.00	14245.00	313390.00	20132.00	442904.00	26950.00	592900.00
6000.00	132000.00	7600.00	167200.00	100.00	2200.00	8567.00	188474.00	9000.00	198000.00
1000.00	22000.00	1300.00	28600.00	3180.00	69960.00	5300.00	116600.00	1300.00	28600.00
1000.00	22000.00	1300.00	28600.00	3180.00	69960.00	5300.00	116600.00	1300.00	28600.00
2800.00	123200.00	3690.00	162360.00	5500.00	242000.00	2313.00	101772.00	3650.00	160600.00

729000.00	Vasu Infosec Pvt Ltd
453000.00	Nexus Fire And Security Systems
157200.00	Nexus Fire And Security Systems
209600.00	Nexus Fire And Security Systems
2263200.00	Nexus Fire And Security Systems
313390.00	PYROGUARD ENGINEERS PRIVATE LIMITED
2200.00	PYROGUARD ENGINEERS PRIVATE LIMITED
22000.00	advent electric technologies pvt. ltd.
22000.00	advent electric technologies pvt. ltd.
101772.00	Vasu Infosec Pvt Ltd

1.12	Supply and laying of MS pipe (M.S. Seamless To ASTM A-106, SCH. 40) red painted with all fittings & supports, etc. on surface/ recess/ above false ceiling/ concealed space/ wall concealed complete as required as per site requirement. (Note: Job comprises of required length of suitable size MS pipe and associated pipe accessories like Bend, Tee, Elbow & Coupling etc. for each location)	6.00	Job
1.13	Supply, Installation, Testing & Commissioning of UL/LPCB/ EN listed (latest version) Modular Microprocessor based expandable Intelligent Addressable Type Fire Alarm Control Panel of two loops, with minimum 160 character graphics / LCD display with touch screen or other keypad and minimum 1000 events history log in the non volatile memory (EPROM), The panel should be equipped with loop capacity to take minimum 125 intelligent addressable detectors/ devices (In any combination) in one loop. Sufficient number of access levels, capable of taking Protocol Devices, Graphical Display, sufficient numbers of programmable relay controls, 230 volts, 50 Hz AC power supply, automatic battery charger, 24 volts sealed maintenance free lead acid 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 required. 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) and RS485 or RS232 Serial Communication ports. The panel shall be compatible for Building Management System with open protocol BACNET / MODBUS etc. as per specification, complete as required. The panel shall be capable of activating Gas Releasing Control Module on activation of Smoke+ Heat detectors for operating the Gas based Fire Suppression System.	8.00	Each
1.14	Supply, installation, testing and commissioning of UL listed (latest version), Approved Intelligent Addressable Gas Releasing Control Module/ Relay Module (output module) specifically designed for fire suppression releasing applications complete with termination etc. complete as required and as per enclosed specifications.	23.00	Each

128333.00	769998.00	200000.00	1200000.00	44000.00	264000.00	76333.33	457999.98	28500.00	171000.00
98000.00	784000.00	125000.00	1000000.00	75920.00	607360.00	109000.00	872000.00	83930.00	671440.00
14500.00	333500.00	25000.00	575000.00	2350.00	54050.00	35600.00	818800.00	3255.00	74865.00

171000.00	Kalpataru Industries
607360.00	PYROGUARD ENGINEERS PRIVATE LIMITED
54050.00	PYROGUARD ENGINEERS PRIVATE LIMITED

1.15	Supply, Installation, Testing & commissioning of UL / EN listed (latest version) intelligent addressable multi criteria detector {Smoke + heat } with inbuilt fault isolator / isolator base and with unique optical sensing chamber, visible LED, fully coated circuit board, superior RF / Transient protection suitable for 2 wires loop connection, complete with plug into common separate base & housing constructed of LEXAN (or polycarbonate) complete with connections etc. as required and to be installed below / above false ceiling roof and concealed space and as per enclosed specifications ,complete as required. (Cost of plug in common base shall deemed to be included in cost of detectors)	199.00	Each
1.16	Supply, installation, testing and commissioning of UL / EN listed (Latest Version) Response Indicators for getting fire indications of detectors i/c mounting boxes installed above false ceiling area interconnecting to loop cable etc. as per specification complete as required.	41.00	Each
1.17	Supply, Installation, Testing & commissioning of UL / EN listed (latest version) intelligent addressable Manual call station (Resetable pull / push type) suitable for semi flush mounting, IP 54 for indoor use & IP 65 for outdoor use with inbuilt fault isolator / isolator module with double gang outlet box, equipment for key operated test-reset lock, electronic or rotary switches for address setting. Manual pull station shall be connected with two wire to SLC loop of Fire Control Panel. Cover shall be made out of LEXAN (or poly carbonate equivalent) with clear operating instruction and the word Fire appearing on the front complete with connections etc. as required and as per enclosed specifications.	24.00	Each
1.18	Supply, installation, testing and commissioning of UL / EN listed (latest version) loop powered addressable Hooter-cum-strobe with inbuilt fault isolator / isolator module with adjustable sound level in the range of min. 90 db to Max. 120 db at 1M distance complete with termination etc. as required and as per enclosed specification.	23.00	Each
1.19	Supply, installation, testing and commissioning of auto dialer with landline dialer capability along with SIM Card recharged upto DLP compatible to addressable fire control panel , capable of delivering pre recorded voice to reset telephone no. in case of fire through mobile network etc. complete with all necessary accessories including connections etc. as required as per site requirement .	7.00	Each

1900.00	378100.00	2400.00	477600.00	2500.00	497500.00	2520.00	501480.00	1820.00	362180.00
120.00	4920.00	135.00	5535.00	1450.00	59450.00	210.00	8610.00	138.50	5678.50
2600.00	62400.00	2600.00	62400.00	8020.00	192480.00	2920.00	70080.00	3000.00	72000.00
3400.00	78200.00	4700.00	108100.00	5010.00	115230.00	5120.00	117760.00	6200.00	142600.00
3400.00	23800.00	12000.00	84000.00	14460.00	101220.00	4050.00	28350.00	6650.00	46550.00

362180.00	Kalpataru Industries
4920.00	advent electric technologies pvt. ltd.
62400.00	advent electric technologies pvt. ltd., Nexus Fire And Security Systems
78200.00	advent electric technologies pvt. ltd.
23800.00	advent electric technologies pvt. ltd.

1.20	Supply and laying of 2 core, 1.5 sq.mm. Fire Survival cable, armoured copper conductor of 600/1000V grade, insulated with specially formulated PVC, coated with special fire resistance materials and overall sheathed with special PVC, with special properties as Zero Halogen Low Smoke insulation, cable laying through conduits/ surface/ recess/ above false ceiling/ concealed space/ wall concealed, etc. for control cabling for Fire detection & alarm devices and interconnecting etc. Basic construction as per BS 7846-2009 & circuit integrity as per BS 6387 C.W.Z./BS EN 50200 as required.	4200.00	Mtr
2.00	SH: II -All Inclusive Comprehensive Maintenance Contract (AICMC) of Fire Suppression System and Fire Alarm System		
2.01	All Inclusive Comprehensive Maintenance (AICMC) of Automatic Gaseous Fire Suppression System along with Fire Alarm System for Item No. 1.01 to 1.20 of SH:I installed in different locations as per Annexure-'A' including replacement of all Mechanical, Electrical spares, clean Agent (released due to false alarm and leakage, if any) and consumables as and when required to keep the system 100% service condition, providing full support during breakdown & trouble shooting, programming, carrying out MONTHLY routine maintenance checks, preventive and breakdown maintenance etc. as required as per good engineering practices, recommendations of the respective Original Equipment Manufacturer (OEM) and instructions of Engineer-In-Charge for maintaining the systems. This includes keeping the system in acceptable functional and serviceable state etc. as specified including cost of all spare parts and submission of monthly maintenance service records and Reporting etc., as required.		
2.02	First Year after Completion of 02 (Two) year DLP (Considered 5% of SITC Cost of item No. 1.01 to 1.20)	1.00	Annum
2.03	Second Year after Completion of 02 (Two) year DLP (Considered Yearly 6% cumulative enhancement on 1st year AICMC Rate)	1.00	Annum
2.04	Third Year after Completion of 02 (Two) year DLP (Considered Yearly 6% cumulative enhancement on 2nd year AICMC Rate)	1.00	Annum
2.05	Fourth Year after Completion of 02 (Two) year DLP (Considered Yearly 6% cumulative enhancement on 3rd year AICMC Rate)	1.00	Annum
2.06	Fifth Year after Completion of 02 (Two) year DLP (Considered Yearly 6% cumulative enhancement on 4th year AICMC Rate)	1.00	Annum

110.00	462000.00	150.00	630000.00	187.00	785400.00	162.00	680400.00	80.00	336000.00
389981.00	389981.00	459395.00	459395.00	428411.00	428411.00	436285.00	436285.00	371676.00	371676.00
413380.00	413380.00	486959.00	486959.00	454116.00	454116.00	462462.00	462462.00	393977.00	393977.00
438183.00	438183.00	516177.00	516177.00	481363.00	481363.00	490210.00	490210.00	417616.00	417616.00
464474.00	464474.00	547148.00	547148.00	510245.00	510245.00	519623.00	519623.00	442673.00	442673.00
492342.00	492342.00	579977.00	579977.00	540860.00	540860.00	550800.00	550800.00	469233.00	469233.00

336000.00	Kalpataru Industries
-----------	----------------------

371676.00	Kalpataru Industries
393977.00	Kalpataru Industries
417616.00	Kalpataru Industries
442673.00	Kalpataru Industries
469233.00	Kalpataru Industries

Total in Figures

9997979.00

11777551.00

10983215.00

11185089.98

9528688.50

Lowest Amount Quoted BY: Kalpataru Industries(9528688.50)