



भारतीय विमानन अकादमी
राष्ट्रीय विमानन प्रबंधन केन्द्र एवं अनुसंधान समिति
Indian Aviation Academy
National Institute of Aviation Management & Research Society
A joint venture of AAI, BCAS & DGCA, Govt. of India



TRAINAIR
PLUS
FULL MEMBER

संदर्भ संख्या:- भा.वि. अका. /अभि. /विधुत/फायर सिस्टम/ए.एम.सी. /कार्य आदेश/2021-22

Ref. No: IAA/Engg. /Elect. /Fire System/AMC/W.O./2021-22/14584

दिनांक 07/01/2022

Dated: 07/01/2022

सेवा में,
मेसर्स एस आर एस इंजीनियर्स
164, सत्य निकेतन,
मोती बाग- II के पास,
नई दिल्ली-110021.
ईमेल:- srs164@yahoo.co.in

To,
M/S SRS Engineers
164, Satya Niketan, Near Moti Bagh-II,
New Delhi-110021
E-Mail: srs164@yahoo.co.in

विषय: भारतीय विमानन अकादमी और उसके छात्रावास ब्लॉक वसंत कुंज नई दिल्ली में फायर अलार्म फायर डिटेक्शन और फायर फाइटिंग सिस्टम का वार्षिक रखरखाव अनुबंध का कार्य आदेश ।

Sub: Work order of "Annual Maintenance Contract of Fire Alarm, Fire Detection & Fire Fighting system at Indian Aviation Academy & its hostel block, Vasant kunj, New Delhi".

Reference: - 1. Tender ID: - 2021_AAI_97265_1.
2. Financial Bid opened on 29.12.2021.

महोदय/Sir (s),

- उपरोक्त कार्य हेतु आपकी ई-निविदा निदेशक, भारतीय विमानन अकादमी की ओर से स्वीकृत की जाती है जोकि आपके द्वारा उद्धृत मद मूल्यों पर आपकी कुल राशि रुपये 31,52,772/- (रुपये इकतीस लाख बावन हजार सात सौ बहत्तर मात्र) है जो कि अनुमानित लागत रुपये 42,64,555/- से 26.07% कम है। (उद्धृत मूल्य में जीएसटी शामिल नहीं है)।

Your e-tender for the work mentioned above is hereby accepted on behalf of the Director, Indian Aviation Academy at the item rates totaling to **Rs.31,52,772/- (Rupees Thirty-One Lakhs Fifty-Two Thousand Seven Hundred Seventy-Two Only)** which is **26.07% below** the estimated cost of Rs. 42,64,555/- (The quoted rates are exclusive of GST).

- प्रबंधक (अभि-विधुत), भारतीय विमानन अकादमी, नई दिल्ली इस कार्य के प्रभारी अभियंता होंगे । आपसे निवेदन है कि आप अपनी ओर से एक विश्वसनीय प्रतिनिधि नियुक्त करें जो करारनामे पर हस्ताक्षर करने के लिए अधिकृत हो तथा वह दिनांक 17/01/2022 तक प्रबंधक (अभि-विधुत), भा.वि.अका.,नई दिल्ली के कार्यालय में उपस्थित हो तथा करारनामे को पूरा करें। ठेके का करारनामा रु 100/- के नोनज्युडिशियल स्टैम्प पेपर पर निष्पादित किया जाएगा तथा स्टैम्प पेपर का खर्च आपके द्वारा उठाया जाएगा।

Manager Engg. (E), Indian Aviation Academy, Vasant Kunj, New Delhi – 110070 will be Engineer-in-Charge of this work. You are requested to depute your accredited representative, empowered to sign the contract agreement on your behalf to attend the office of the Manager Engg. (E), IAA, to sign & complete the agreement on or before **17/01/2022**. The contract agreement shall be executed on a non-judicial stamp paper of value of **Rs.100/-** and the cost of the stamp paper shall be borne by you.

भारतीय विमानन अकादमी

कार्यपालक निदेशक कार्यालय

दिनांक: 07/01/2022

सं.: 4584 वसंत कुंज, नई दिल्ली 110070

फोन + : 91 11 26134313

ईमेल : edtraining.niamar@aai.aero

Vasant Kunj, New Delhi 110070

Phone: +91 11 26134313

Email: edtraining.niamar@aai.aero

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- 3) कृपया इस पत्र के जारी होने की तिथि से 10 दिनों के भीतर धरोहर राशि के लिए रुपये 3,15,277/- (रुपये तीन लाख पंद्रह हजार दो सौ सत्तर मात्र) जमा कर दें अन्यथा ठेके के करारनामे में दी गई शर्त के अनुसार इतनी ही राशि आपके रनिंग बिल से काट ली जाएगी।

Please deposit amount of **Rs.3,15,277/- (Rupees Three Lakh Fifteen Thousand Two Hundred Seventy-Seven Only)** towards Security Deposit within 10 days from the date of issue of this letter, failing which, the same shall be deducted from your running bills as per conditions of the contract document.

- 4) आपसे निवेदन है कि आप केंद्रीय और राज्य सरकारों के 1970 अधिनियम अनुबंध श्रम नियम तथा 1971 के केंद्रीय नियम (नियमन तथा उन्मूलन) एवं केन्द्र तथा राज्य सरकार के न्यूनतम वेतन अधिनियम और नियमों के प्रावधान का नवीनतम संशोधनों के साथ अनुपालन करें।

You are requested to comply with the Provisions of Contract Labour (Regulation and Abolition) Act of 1970 and Contract Labour (Regulation & Abolition) Central Rules 1971 & Minimum Wages Act & Rules there of Central & State Governments with latest amendments.

- 5) आपको निर्देश दिया जाता है कि तुरंत प्रबंधक (अभियान्त्रिकी-विद्युत), भा.वि.अका., नई दिल्ली-110070 से 10.01.2022 को मिले वह आपको साईट सौपने की व्यवस्था करेंगे। कृपया नोट कर ले कि कार्य करने का निर्धारित समय एक महीने मरम्मत हेतु जोकि आपके द्वारा अधिग्रहित स्थल की वास्तविक तिथि जो इस कार्य आदेश के जारी होने के 90 दिनों के भीतर होगी से गिना जाएगा एवं एएमसी का कार्य करने का निर्धारित समय चौबीस (24) महीने है जोकि मरम्मत कार्य खत्म होने की तिथि से गिना जाएगा।

You are directed to contact **Manager Engg. (E), Indian Aviation Academy, Vasant Kunj, New Delhi - 110070** on 10.01.2022 for taking over the site. Please note that the time allowed for carrying out the **Repairing work is One (01) Month** which shall be reckoned from the actual date of site taken over by you which will be within 10 days of issue of this work order and **AMC of Twenty-Four (24) Months** which shall be reckoned from date of completion of Repairing.

- 6) इस ठेके के सम्बंध में आगे का कोई भी पत्राचार प्रबंधक (अभि-विद्युत), भा.वि.अका., नई दिल्ली-110070 के पते पर किया जाए।

Any further correspondence in connection with this contract should normally be addressed to **Manager Engg. (E), Indian Aviation Academy, Vasant Kunj, New Delhi - 110070**.

- 7) उपरोक्त संदर्भित सभी पत्र इस ठेके का भाग होंगे।

All the letters referred above shall form part of contract.

- 8) ठेके की दोष दायित्व अवधि छह (06) महीने होगी जोकि कार्य समाप्ति की तिथि से गिना जाएगा।

The defect liability period shall be **Six (06) Months** which shall be reckoned from the date of completion of work.

रविंद्र दीपक
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- 9) कहीं भी हिंदी या अंग्रेजी संस्करण में अंतर या अस्पष्टता के मामले में, अंग्रेजी संस्करण मान्य होगा।
If there is any difference or ambiguity in Hindi or English version anywhere, the English version shall prevail.

- 10) कृपया इस कार्य आदेश की प्राप्ति को स्वीकार करें और स्वीकृति के टोकन के रूप में अधोहस्ताक्षरी को हस्ताक्षर करने के बाद इस पत्र की डुप्लिकेट कॉपी को संलग्न करें।

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

भवदीय/ Yours faithfully

प्रबंधक (अभि.-विधुत) / Manager (Engg.-E)

आई.ए.ए नई दिल्ली/ IAA, New Delhi

संलग्न/ Encl:- कार्य की अनुसूची (04 पृष्ठ)/Schedule of Work (04 Pages).

(INTERNAL) – For kind information please.

1. Director, IAA, Vasant Kunj, New Delhi.
2. DGM (Com.), IAA Vasant Kunj, New Delhi.
3. AGM (Fin.), IAA, Vasant Kunj, New Delhi.
4. Manager (E-C), IAA, Vasant Kunj, New Delhi.
5. Agreement.
6. Office copy.

(EXTERNAL)- Copy to:-

1. Labour Commissioner, Govt. of NCT of Delhi, 5 Sham Nath Marg, Prema Kunj, Civil Lines, New Delhi-110054.
2. Provident Fund (PF) Commissioner, Bhavishya Nidhi Bhawan, 8th Floor, 8 floor Community center, Wazirpur Industrial area, Delhi- 110052.
3. ESIC Panchdeep Bhawan, Comrade Inderjeet Gupta Marg, New Delhi- 110002.

प्रबंधक (अभि.-विधुत) / Manager (Engg.-E)

आई.ए.ए नई दिल्ली/ IAA, New Delhi

प्रभारी अभियंता / Engineer-In-Charge

विद्युत अभियांत्रिकी / (Engineering Electrical)

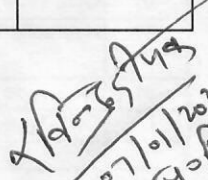
भारतीय विमानन अकादमी / Indian Aviation Academy

वसंत कुंज नई दिल्ली-110070 / Vasant Kunj, New Delhi-110070

SCHEDULE OF WORK

Name of Work: Annual Maintenance Contract of Fire Alarm, Fire Detection & Fire Fighting system at Indian Aviation Academy & its hostel block, Vasant kunj, New Delhi.

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
(A)	SH-I (Initial repairing of fire alarm system)				
1	Checking & rectifying the faults in all loops for proper functioning of fire alarm system in academy block (10 loops) & hostel block (2 loops) a) Diagonise and rectifying the ground/ earth /short / intermittent faults ,find the missing device/open circuit faults including servicing of all mcb's, hooters, modules & cleaning of dirty detectors etc., b) Replacing the required accessories/spares (supply cost not included) c) Making the system operational by doing all required rectification/ modification as per standard engineering practice.	12	Loop	3000.00	36000.00
2	Repairing of CPS-24e Power Supply Card	3	Job	10200.00	30600.00
3	Modifying the battery charging system in PA system upto the requirement & as per Standard engineering practice.	1	Job	4800.00	4800.00
4	Supply of following items of approved makes as per site requirement.				
a)	Supply of addressable smoke / Multisensor detector	50	Nos	2900.00	145000.00
b)	Supply of addressable heat detector	20	Nos	2800.00	56000.00
c)	Supply of FCM module (AHU)	7	Nos	2800.00	19600.00
d)	Supply of FRM module (MCP)	15	Nos	2500.00	37500.00
e)	Supply of MCP	20	Nos	2200.00	44000.00
f)	Supply of MCP glass	50	Nos	100.00	5000.00
g)	Supply of Hooter	10	Nos	2450.00	24500.00
h)	Supply of CPS-24e Power Supply Card	1	Nos	73500.00	73500.00
5	Reprogramming of following model fire alarm panels after rectifying all the faults				
a)	Notifier 10 Loop Panel Model No - 3030D	2	Job	30000.00	60000.00
b)	Notifier 2 Loop Panel Model No CPU 2-640e	2	Job	12200.00	24400.00
6	Servicing of Ahuja make amplifier & Interconnect it with existing P A system	1	Job	3000.00	3000.00
7	Complete Rectification of uncommissioned / partialy complete/ incomplete Notifier make PA System including. 1.Attending field faults after Tracing / Connecting all incoming cables with panel. 2.Checking the connections in all speakers. 3.Attending field faults to make system functional (Note : at present PA system is not commissioined & cables not connected)	1	Job	90000.00	90000.00
8	Commissioning of Notifier make PA system panel by making interconnection with Fire alarm panel	1	Job	26000.00	26000.00
9	Supply of Notifier DSDB Board for PA system panel.	1	Nos	180000.00	180000.00
	Other works as and when required				
10	Supply, fixing and welding etc., of heavy quality Mild Steel heavy class (C-class) quality pipes conforming to latest IS amendment, complete with necessary fitting like flanges, bends, tees and reducers etc. required including fixing the pipes on wall, in ground (with wrapping & coating) or above ground with MS Frame Support & suitable clamps and painting as per direction of Engineer In-charge as and when required.				
a)	150 mm	6	RMT	1000.00	6000.00
b)	100 mm	6	RMT	500.00	3000.00
c)	80 mm	6	RMT	400.00	2400.00
11	SITC of following PN 1.6, C I Butterfly Valves on the existing M S Pipes including flanges, gaskets, bolt, nut & washers etc., including dismantling the existing one as and when required.				


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SCHEDULE OF WORK

Name of Work: Annual Maintenance Contract of Fire Alarm, Fire Detection & Fire Fighting system at Indian Aviation Academy & its hostel block, Vasant kunj, New Delhi.

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
a)	200 mm	1	Nos	4000.00	4000.00
b)	150 mm	1	Nos	2000.00	2000.00
c)	100 mm	1	Nos	2000.00	2000.00
d)	80 mm	1	Nos	1500.00	1500.00
12	SITC of following PN 1.6, C I Reflex/NRV's on the existing M S Pipes including flanges, gaskets, bolt, nut & washers etc., including dismantling the existing one as and when required				
a)	200 mm	1	Nos	5000.00	5000.00
b)	150 mm	1	Nos	3000.00	3000.00
c)	100 mm	1	Nos	2000.00	2000.00
d)	80 mm	1	Nos	1300.00	1300.00
13	Hydro Testing Charges for 48 Hours i/c deputation of manpower.	2	Job	2000.00	4000.00
14	Finding leakage of underground pipe by excavation of all types of earth, attend the leakage and refill the earth 1 job means maximum length of two meter with required depth. If more length excavated as per site requirement no extra payment shall be made by IAA.	1	Job	2200.00	2200.00
15	To detect underground pipe leakage by putting Dead end flanges of required sizes in above ground where ever & whatever quantity possible using Heavy labours / Hydraulic or Manual mechanism.	1	Job	1500.00	1500.00
16	Attend the pipe leakage by doing Arc welding & cutting with required machine & man at one place. If more welding required at more places payment shall be made appropriately/ multiple.				
a)	Underground including wrapping & coating	2	Job	2000.00	4000.00
b)	Aboveground including Priming & painting	2	Job	1000.00	2000.00
17	SITC of 12 volt 12/7 AH maintenance free batteries for Fire Alarm with new terminals. This work includes the cost of dismantling the existing batteries & the cost of buyback of these dismantled batteries.	4	Nos	1220.00	4880.00
18	Comprehensive Servicing & Overhauling of Fire Engine of Kirloskar make along with AMF panels as per manufacturer recommendation. It includes Carrying out the Monthly B-Checks, changing of hoses, Minor repairs and adjustment as required for the engines. No extra payment shall be made for any items used in rectifying & maintaining the fire engine.	24	Month	833.00	19992.00
19	Painting of existing fire pipe lines with one or more coat as per requirement of following size as and when required.				
a)	25mm	10	RMT	15.00	150.00
b)	50mm	10	RMT	25.00	250.00
c)	80mm	10	RMT	50.00	500.00
d)	100mm	10	RMT	20.00	200.00
e)	150mm	10	RMT	40.00	400.00
f)	200mm	10	RMT	60.00	600.00
20	Refilling of Fire Extinguishers as and when required.				
a)	ABC Type 9.0 Kg	20	Nos	950.00	19000.00
b)	CO2 Type 4.5kg	20	Nos	450.00	9000.00
21	Hydraulic Testing of Fire Extinguisher as and when required.				
a)	ABC Type 9.0 Kg	20	Nos	325.00	6500.00
b)	CO2 Type 4.5kg	20	Nos	325.00	6500.00
Total SH-I =					973772.00

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SCHEDULE OF WORK

Name of Work: Annual Maintenance Contract of Fire Alarm, Fire Detection & Fire Fighting system at Indian Aviation Academy & its hostel block, Vasant kunj, New Delhi.

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
(B)	SH-II Operation & Maintenance (After Making the Fire Alarm system Operational)				
1	Annual Maintenance Contract Of Complete Fire alarm and PA System Of Academic Block And Hostel Block Of Indian Aviation Academy Including Log book maintenance, Daily & Weekly Inspection, Monthly Preventive Maintenance and Carrying Out Mock Drill As Per civic authorities Fire Standards by Deploying following manpower for all month i/c sunday and other holidays i) Fire Alarm Technician round the clock i/c reliver (Semi-Skilled - 3 Nos per day i.e. 1 nos per shifts comprises of 8 hrs. ii) Un-skilled Helper in General Shift i/c reliver(1 Nos i.e. 1 nos per day and duty comprises of 8 hrs per day . (Note : Extra Unskilled manpower should be provided as and when required for regular maintenance, Testing & Fire Drill etc., without any extra cost)	24	Month	70000.00	1680000.00
2	OEM Service Engineer / OEM Trained Service Engineer's Monthly minimum 2 Visits & multiple breakdown visit as and when required or as instructed by engineer incharge.	24	Month	5000.00	120000.00
	Total SH-II =				1800000.00
(C)	SH-III Operation & Maintenance (Fire Fighting system) w.e.f. 14/12/2022				
1	Annual Maintenance Contract Of Complete Fire Hydrant And Wet Riser System Of Academic Block And Hostel Block Of Indian Aviation Academy Including Weekly Inspection, Monthly Preventive Maintenance With The Following Manpower And Carrying Out Mock Drill As Per Fire Standards.(Hydrant:- 43 Nos., & Sprinklers. Diesel Pump: - 1 No., Main Pump: - 1 No., Jockey Pump: - 1 No. Booster Pump: -2Nos.) A. Weekly Inspection: One Senior Electrical Technician & One Mechanical Technician, One Helper B. Monthly Preventive Maintenance: - One Expert Engineer, One Senior Electrical Technician & One Mechanical Technician, Two Helpers	12	Month	11500.00	138000.00
	Total SH-III =				138000.00
(D)	SH - IV				
1	Supply, fixing and welding etc., of required length of 150 mm heavy quality Mild Steel heavy class C- Class quality pipes conforming to latest IS amendment, complete with necessary fitting like flanges, bends, tees and reducers etc., at ceiling of basement level required including fixing the pipes on wall with MS Frame Support & suitable clamps and painting	1	Job	5000.00	5000.00
2	Site visit of fire technician /fire engineer & other civic authority during the inspection by Fire officers as and when it is required for NOC (Legal Compliance with Delhi Fire Services) and routine Delhi Fire Services officials or other civic authorities official visit at IAA & Hostel block. This work includes follow up for fire NOC & get fire NOC as and when required.	2	Job	68000.00	136000.00
	Total SH-IV =				141000.00

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07/01/2022

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SCHEDULE OF WORK

Name of Work: Annual Maintenance Contract of Fire Alarm, Fire Detection & Fire Fighting system at Indian Aviation Academy & its hostel block, Vasant kunj, New Delhi.

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
(E)	SH-V DSR-2019 (For Wet Riser and Sprinkler System) as and when required.				
1	DSR-2019 (For Wet Riser and Sprinkler System) as and when required. and as directed by E-I-C complete as required for a fixed amount of Rs. 1.5 Lakhs. (Note: The contractor/agency has to quote an amount above or below the fixed amount of Rs. 1.5 Lakhs. The difference of the amount so quoted and Rs. 1.5 Lakhs shall be calculated for % age w.r.t the Rs. 1.5 Lakhs. The said work out +/- % age will be applied to the DSR' 2019 rate and the quoted amount shall be consider as payable rate of the bidder for each items without any esclation/cost index at any time during contract period.)	1	As per DSR'2019	100000.00	100000.00
	Total SH-V =				100000.00
	Total of SH-I+SH-II+SH-III+SH-IV =				3152772.00
	Say Rs.				3152772.00

2/12/2021
07/01/2022
Manager (E-E), IAA

प्रभारी अभियंता / Engineer-In-Charge
विद्युत अभियंतिकी / (Engineering Electrical)
भारतीय विमानन अकादमी / Indian Aviation Academy
वसंत कुंज नई दिल्ली-110070 / Vasant Kunj, New Delhi-110070