

भारतीय विमानपत्तन प्राधिकरण
AIRPORTS AUTHORITY OF INDIA

सं०: भा.वि.प्रा./डी.ए.टी.एस./अभि-वि/एएमसी-एचवीएसी/2022-23/W.O.-01//55 दिनांक: 11.04.2022
No.: AAI/DATS/E-E/AMC-HVAC/2022-23/W.O.-01/ Date: 11.04.2022

सेवा में / To,

मैसर्स आर्कटिक इंजीनियरिंग सर्विसिस,
301, वर्धमान चैंबर-2, प्लॉट #21,
जी ब्लॉक सामुदायिक केंद्र,
विकास पुरी नई दिल्ली - 110018

M/s Arctic Engineering Services,
301, Vardhman Chamber-2, Plot # 21,
G Block Community Centre,
Vikas Puri New Delhi - 110018

कार्य का नाम: दो साल (2022-23 & 2023-24) के लिए डीएटीएस कॉम्प्लेक्स, आईजीआई हवाई अड्डे, नई दिल्ली में स्थापित अन्य सहायक उपकरण सहित एचवीएसी प्रणाली का वार्षिक संचालन और निवारक रखरखाव अनुबंध।

Name of work: Annual Operation & Preventive Maintenance Contract of HVAC system including other accessories installed at DATS Complex, IGI Airport, New Delhi for two years (2022-23 & 2023-24).

संदर्भ /Ref:-

1) आपकी निविदा (Tender ID: 2022_AAI_105001_1) जोकि दिनांक 28.03.2022 को खोली गई 1
Your e-tender (Tender ID: 2022_AAI_105001_1) for the above said work opened on
Dated, 28.03.2022.

महोदय/Dear Sir,

1. उपर उल्लेखित कार्य हेतु आपकी निविदा अध्यक्ष, भारतीय विमानपत्तन प्राधिकरण की ओर से स्वीकृत की जाती है आपके द्वारा बताए गये मद पर आपकी राशि कुल ₹1,38,26,900/- (रुपये एक करोड़ अड़तीस लाख छब्बीस हजार नौ सौ मात्र) जी० एस० टी० रहित है जोकि निविदा की न्यायोचित राशि ₹1,79,61,733/- से 23.02% कम है।

Your tender for the work mentioned above is here by accepted on behalf of the Chairman, Airports Authority of India at the item rates quoted for a sum totaling to Rs. 1,38,26,900/- (Rupees One Crore Thirty Eight Lakhs Twenty Six Thousand Nine Hundred Only) exclusive of G.S.T. which is 23.02% below the Justified Cost of Rs. 1,79,61,733/-.

2. संयुक्त महाप्रबंधक (अभि०-वि०), भा.वि.प्रा., क्षेत्र मुख्यालय, उत्तरी क्षेत्र, रंगपुरी, नई दिल्ली कार्य के प्रभारी अभियंता होंगे। आपसे निवेदन है कि आप आपकी ओर से एक विश्वसनीय प्रतिनिधि प्रतिनियुक्त करें जो करारनामे पर हस्ताक्षर करने के लिए अधिकृत हो तथा वह दिनांक 25.04.2022 तक संयुक्त महाप्रबंधक (अभि०-वि०), भा.वि.प्रा., क्षेत्र मुख्यालय, उत्तरी क्षेत्र, रंगपुरी, नई दिल्ली के कार्यालय में उपस्थित हो तथा करारनामे को पूरा करें। ठेके का करारनामा ₹० 100 के नोनज्युडिशियल स्टैम्प पेपर पर निष्पादित किया जाएगा तथा पेपर का खर्च आपके द्वारा उठाया जायगा।

Contd....

Jt. Gen. Manager (Engg-E), AAI, RHQ-NR, Rangpuri, New Delhi shall be Engineer in Charge of the work. You are requested to depute your accredited representative, empowered to sign the contract agreement on your behalf and attend the office of the **Jt. Gen. Manager (Engg-E), AAI, RHQ-NR, Rangpuri, New Delhi** by **dt. 25.04.2022** to sign and complete the agreement. The contract agreement shall be executed on a non **judicial stamp paper of value Rs.100/-** and the cost of stamp paper shall be borne by you.

3. आपके टेण्डर के साथ प्राप्त हुई बयाना राशि **₹3,59,235 /-** (रुपये तीन लाख उनसठ हजार दो सौ पैंतीस मात्र) को टेण्डर के नियम एवं शर्तों के अनुसार जमानत राशि में परिवर्तित किया जायेगा कृपया इस पत्र के जारी होने की तिथि से 10 दिनों के अंदर जमानत राशि कि बकाया राशि **₹10,23,455/-** (रुपये दस लाख तेईस हजार चार सौ पचपन मात्र) जमा करें वरना ठेके के दस्तावेज के अनुसार आपके रनिंग बिल से काट ली जायेगी।

The Earnest Money amount of **Rs.3,59,235/- (Rupees Three Lakhs Fifty Nine Thousand Two Hundred Thirty Five Only)** received along with your tender will be treated and converted as part of Security Deposit as per condition of contract document. Please deposit balance **Rs. 10,23,455/- (Rupees Ten Lakhs Twenty Three Thousand Four Hundred Fifty Five Only)** towards security deposit within 10 days from the date of issue of this letter, failing which the same will be deducted from your running bill.

4. आपसे निवेदन है कि केन्द्रीय और राज्य सरकारों के 1970 के अधिनियम अनुबंध श्रम नियम तथा 1971 के केन्द्रीय नियम अनुबंध श्रम नियम (नियमन तथा उनमुल्य) एवं केन्द्र तथा राज्य सरकार के न्यूनतम वेतन अधिनियम और नियमों के प्रावधानों का अनुपालन करें।

You are requested to comply with the provision of Contract Labour (Regulation & Abolition) Act of 1970 and Contract Labour (Regulation & Abolition) Central rules 1971 and Minimum wages Act & Rules of Central and State Government with upto date amendments.

5. आपको निर्देश दिया जाता है आप तुरंत वरिष्ठ प्रबंधक (अभि०-विद्युत), डी.ए.टी.एस. कॉम्प्लेक्स से मिलें वह आपको कार्य स्थल सौंपने की व्यवस्था करेंगे। कृपया ध्यान दें कि इस कार्य के लिए समय अवधि दो (02) वर्ष की होगी जोकि 21.04.2022 गिनी जाएगी।

You are also directed to contact the **Senior Manager (Engg-E), AAI, DATS Complex,** immediately to take over the site. Please note that time period for this work shall be **Two (02) Years** and shall be reckoned from 21.04.2022.



6. इस ठेके के सम्बन्ध में आगे का कोई भी पत्राचार सयुक्त महाप्रबंधक (अभि०-वि०), भा.वि.प्रा., क्षेत्र मुख्यालय, उत्तरी क्षेत्र, रंगपुरी, नई दिल्ली के पते पर किया जाए।

Any further correspondence with contract should normally be addressed to the **Jt. Gen. Manager (Engg-E), AAI, RHQ-NR, Rangpuri, New Delhi.**

7. उपरोक्त कार्य हेतु त्रुटि दायित्व अवधि छह (06) महीने जोकि इस कार्य की समाप्ति की दिनांक से गिना जाएगा।

The defect liability period will be **Six (06) Months** after the date of completion of this work.

8. कृपया पावती भेजे।

Please acknowledge the receipt.

धन्यवाद/ Thanking you

संलग्न - (अ) मात्रा की अनुसूची /

Encl:- (a) Schedule of Quantities

भवदीय/ Yours sincerely


वरिष्ठ प्रबंधक (अभि०-वि०) / **Sr. Manager (Engg-E),**
भारतीय विमानपत्तन प्राधिकरण/**Airports Authority of India**
डी.ए.टी.स., ई. गां. अ. हवाई अड्डा/**DATS Complex, IGI Airport**
नई दिल्ली- 110037 / **New Delhi-110037**
कृते एवं अध्यक्ष भा. वि. प्रा की और से / **On behalf of Chairman, A.A.I.**

SCHEDULE OPF QUANTITY

Name of Work: Annual Operation & Preventive Maintenance Contract of HVAC system including other accessories installed at DATS Complex, IGI Airport, New Delhi for two years (2022-23 & 2023-24). (Tender ID: 2022_AAI_105001_1)

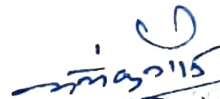
S. No.	Description of Item	Unit	Qty.	Rate in Rs. (Ex. GST)	Amount in Rs. (Ex. GST)
	<u>SH-I (Operation)</u>				
1	Annual Operation and Preventive Maintenance contract of HVAC system (as per scope of work) comprising operation of Chiller Plants, O&M of Air handling units along with heating system of various capacity, Fan coil units (FCU), Ceiling suspended units (CSU), Variable Frequency drives (VFD), Fire/Volume control damper, In line fan, Exhaust fan, Floor mounted presurization fan, Staircase & lift pressurization fan, Valves, supply, return and fresh air Ducts, Chilled/condenser water pipeline, drain pipe, cooling towers, Primary and Secondary Chilled water pump, condensor pumps, water make up pumps, heat exchangers, Supply and return air grills, along with maintenance (as per special conditions of contract) of associated Electrical equipment like starter panels / control panels etc. by providing specified man power as mentioned in Special Conditions of Contract. Note:- It also includes Carry out minor repair works like change of defective siphon, pressure gauges, LED indication lamps in HVAC LT panels, replacement of burn out thimbles, selector switches, Ammeter, voltmeter, replays, contactors etc. to make the equipment serviceable all the time amounting up to Rs. 30,000/- in total per year which shall be included in the scope of work and nothing shall be paid extra.	Month	24	525320.00	12607680.00
	Total of SH-I=				12607680.00
	<u>SH-II</u>				
2	Execution of works as per CPWD schedule of rates and specification for amount of Rs. 5,00,000/- as and when required during contract period. Rates for the items under DSR shall be taken as under: Item rate as per DSR-2018 = X Basic rate (on which percentage above or below to be quoted) = Y $Y = X / 1.1405$ (ex. GST) Example: if rate of an item as per DSR-2018 = 114.05 Basic rate (on which percentage above or below to be quoted) = $114.05 / 1.1405 = 100$ If contractor is quoting Rs. 4,00,000/- against Rs. 5,00,000 i.e. 20 % below it means Rs. 80.00 (ex GST) shall be paid for that item against Rs. 114.05 (as per DSR-2018)	Job	1	265000.00	265000.00
	Total of SH-II=				265000.00

S. No.	Description of Item	Unit	Qty.	Rate in Rs. (Ex. GST)	Amount in Rs. (Ex. GST)
	SH-III(Replacement of Spares)				
3	Replacement of the following AHU filter including all accessories such as gaskets, nuts, bolts, washer etc., if any complete as all required and as per direction of Engineer In Charge. Make - Puromatic or approved equivalent.				
3.1	AHU Pre filter flange type of size (610x610x50)mm, Cassette size 550x550mm, Capacity CFM-2000 EU3/G3 Series: X, η:90% @20μ.	Nos.	8	300.00	2400.00
3.2	AHU Pre filter flange type of size (305x610x50)mm, cassette size (245x550)mm, capacity CFM -1000 EU3/G3, Series: X, η:90% @20μ.	Nos.	4	300.00	1200.00
3.3	AHU Bag filter flange type of size (610x610x305)mm, casing - Aluminium, F7, Series: N, η:99% @3μ.	Nos.	32	300.00	9600.00
3.4	AHU Bag filter flange type of size (305x610x305)mm, casing - Aluminium, EU7, Series: N, η:99% @3μ.	Nos.	16	300.00	4800.00
3.5	AHU Pre filter flange type of size (610x610x50)mm, casing - Aluminium, EU-04/G4, η:90% @10μ.	Nos.	15	300.00	4500.00
3.6	AHU Pre filter flange type of size (610x305x50)mm, casing - Aluminium, EU-04/G4, η:90% @10μ.	Nos.	10	300.00	3000.00
3.7	AHU Pre filter flange type of size (500x500x50)mm, casing - Aluminium, EU-04/G4, η:90% @10μ.	Nos.	10	300.00	3000.00
3.8	AHU Pre filter flange type of size (500x250x50)mm, casing - Aluminium, EU-04/G4, η:90% @10μ.	Nos.	6	300.00	1800.00
4.00	Replacement of following V belt of different size for AHU/CSU/Exhaust, ISI marked complete all as required.				
4.01	A27	Nos	12	160.00	1920.00
4.02	A28	Nos	4	160.00	640.00
4.03	A33	Nos	8	160.00	1280.00
4.04	A35	Nos	4	160.00	640.00
4.05	A36	Nos	4	160.00	640.00
4.06	A37	Nos	4	160.00	640.00
4.07	A38	Nos	8	160.00	1280.00
4.08	A52	Nos	8	160.00	1280.00
4.09	A60	Nos	8	160.00	1280.00
4.10	A61	Nos	8	160.00	1280.00
4.11	A68	Nos	12	160.00	1920.00
4.12	B61	Nos	4	160.00	640.00
4.13	B62	Nos	12	160.00	1920.00
4.14	B65	Nos	8	160.00	1280.00
4.15	B69	Nos	8	160.00	1280.00
4.16	B70	Nos	12	160.00	1920.00
4.17	B80	Nos	8	160.00	1280.00
4.18	B85	Nos	12	160.00	1920.00
4.19	B84	Nos	4	160.00	640.00
4.20	1140 SPZ	Nos	6	160.00	960.00
4.21	1250 SPZ	Nos	2	160.00	320.00
4.22	1420 SPZ	Nos	2	160.00	320.00
4.23	1470 SPZ	Nos	4	160.00	640.00
4.24	A42	Nos	4	160.00	640.00

S. No.	Description of Item	Unit	Qty.	Rate in Rs. (Ex. GST)	Amount in Rs. (Ex. GST)
5	Replacement of the following rating bearings suitable for motors for AHU/Cooling Tower/MakeupTank/CSU/Primary & Secondary motors of condenser and chiller lines complete all as required.				
5.01	6206 ZZ C3	Nos	6	220.00	1320.00
5.02	6208 ZZ	Nos	4	220.00	880.00
5.03	6309 ZZ	Nos	11	220.00	2420.00
5.04	6309 ZZ C3	Nos	3	220.00	660.00
5.05	6311 C3	Nos	3	220.00	660.00
5.06	6312 C3	Nos	3	220.00	660.00
5.07	UK210	Nos	3	220.00	660.00
5.08	UK211	Nos	4	550.00	2200.00
5.09	UK212	Nos	3	550.00	1650.00
5.10	UK213	Nos	4	550.00	2200.00
	Total of SH-III=				70170.00
	SH IV				
6	Rewinding and repairing of following motor ratings of AHU/cooling towers fans /CSU/ Exhaust / Condenser/Primary motors/Secondary motors/Makeup Motors including overhauling/ servicing , varnishing, baking, applying moisture proof varnish, assembling, testing ,decoupling and coupling, loading / unloading and transportation to and from the site complete (all as required) .(Old defective winding shall be retained by Agency).				
6.1	3 phase induction motor of capacity more than 0.5 HP & upto 5 HP	Each	12	500.00	6000.00
6.2	3 phase induction motor of capacity more than 5 HP and upto 10 HP	Each	5	1000.00	5000.00
6.3	3 phase induction motor of capacity more than 10 HP & upto 15 HP	Each	5	2500.00	12500.00
6.4	3 phase induction motor of capacity 20 HP	Each	2	3500.00	7000.00
6.5	3 phase induction motor of capacity 30 HP	Each	1	6500.00	6500.00
6.6	3 phase induction motor of capacity 40 HP	Each	1	10250.00	10250.00
	Total of SH-IV=				47250.00
	SH V				
7	Repairing/Replacement of cards & Programming of VFDs (Make:- Danfoss) of different capacities from the OEMs/authorized dealers of Danfoss including dismantling of VFD from the panel, cartage charges (to and fro) and installing back of VFD after repairing/replacement complete as required.				
7.1	VFD of rating 3 KW	Job	3	2000.00	6000.00
7.2	VFD of rating 5.5 KW	Job	6	2500.00	15000.00
7.3	VFD of rating 11 KW	Job	8	3000.00	24000.00
7.4	VFD of rating 15 KW	Job	2	3000.00	6000.00
7.5	VFD of rating 30 KW	Job	2	4500.00	9000.00
	Total of SH V=				60000.00
	SH VI				
8	Comprehensive maintenance of following split type Air-conditioning unit comprising of compressor, condensing coil unit, cooling coil unit etc. complete as required :-				
8.1	1.5 TR - 04 Nos.	Month	24	250.00	6000.00
	Total of SH VI=				6000.00

S. No.	Description of Item	Unit	Qty.	Rate in Rs. (Ex. GST)	Amount in Rs. (Ex. GST)
	<u>SH VII</u>				
	<u>ACC Terrace Cooling Towers</u>				
9	Replacement of PVC Fills complete as required (300 mm X 600 mm X 150 mm) - 1800 Nos. approx., Drift Eliminators D-15 of specifications 5 ft X 2 ft - 81 Nos. approx & GI support pipe of suitable size - 165 mtrs. approx, Splash cups - 1530 approx., End Caps 63 mm - 250 nos. approx, End Caps 200 mm - 02 nos. approx, Float Valves - 03 Nos. and other consumable items like resin, putty powder, accelerataor, nuts, bolts, screws, washers etc. as required for installation of new PVC fills inside the existing 3 X 500 TR Cooling Towers (Make:- Bell) including making necessary modifications, testing and commissioning of the system etc. as required or as per the direction of EIC i/c dismantling of existing damaged items as specified for the above mentioned cooling towers installed at DATS Complex, IGIA, New Delhi.	Job	1	488500.00	488500.00
	<u>TBB Terrace Cooling Towers</u>				
10	Replacement of PVC Fills complete as required (300 mm X 600 mm X 150 mm) - 360 Nos. approx., Drift Eliminators D-15 of specifications 4 ft X 2 ft - 42 Nos. approx & GI support pipe of suitable size - 120 mtrs. approx, Splash cups - 750 approx., End Caps 63 mm - 136 nos. approx, End Caps 200 mm - 02 nos. approx, Float Valves - 02 Nos. and other consumable items like resin, putty powder, accelerataor, nuts, bolts, screws, washers etc. as required for installation of new PVC fills inside the existing 2 X 300 TR Cooling Towers (Make:- Bell) including making necessary modifications, testing and commissioning of the system etc. as required or as per the direction of EIC i/c dismantling of existing damaged items as specified for the above mentioned cooling towers installed at DATS Complex, IGIA, New Delhi.	Job	1	132800.00	132800.00
	<u>ATC-Tower Cooling Towers</u>				
11	Replacement of PVC Fills complete as required (300 mm X 600 mm X 150 mm) - 192 Nos. approx., Drift Eliminators D-15 of specifications 3 ft X 2 ft - 12 Nos. approx & GI support pipes of various sizes i.e. 63 mm dia - 1.5 m approx & 40 mm dia - 5.7 m approx, Splash cups - 200 approx., End Caps 63 mm - 32 nos. approx, Float Valves - 02 Nos. and other consumable items like resin, putty powder, accelerataor, nuts, bolts, screws, washers etc. as required for installation of new PVC fills inside the existing 2 X 80 TR Cooling Towers (Make:- Bell) including making necessary modifications, testing and commissioning of the system etc. as required or as per the direction of EIC i/c dismantling of existing damaged items as specified for the above mentioned cooling towers installed at DATS Complex, IGIA, New Delhi.	Job	1	86500.00	86500.00
	Total of SH VII=				707800.00

S. No.	Description of Item	Unit	Qty.	Rate in Rs. (Ex. GST)	Amount in Rs. (Ex. GST)
	SH VIII				
12	Painting of GI sheets of ducts and the condenser water pipeline associated with HVAC system at DATS, IGIA.				
12.1	Painting with aluminium paint of approved brand and manufacture to give an even shade on GI sheets of various ducts associated with HVAC as directed by the EIC.	Sqm.	600	75.00	37500.00
12.2	Painting with synthetic enamel paint of approved make and manufacture of required colour on the condenser water line to give an even shade after one coat of Red Oxide & 2 coats of Synthetic enamel paint.	Sqm.	300	85.00	25500.00
	Total of SH VIII				63000.00
				Total (Rs.)=	13826900.00
				Say (Rs.)=	13826900.00


 (Mayank Gaur)
 Sr. Manager (Engg.-E)
 AAI, DATS Complex
 IGI Airport, New Delhi