



भारतीय विमानपत्तन प्राधिकरण

AIRPORTS AUTHORITY OF INDIA

No: AAM/ENGG-ELECT/AMED-VIII/ARC/2023-24/W.O-01/A-16/246

Date: 25.08.2023

By Speed Post/ e-mail

WORK ORDER

To,
M/s. Gemini Cooling Systems Projects Pvt. Ltd.,
No.90, Kutcheri Road, Mylapore,
Chennai-600004.

Name of Work: Facility Management of HVAC Installations at Terminal buildings at CIA for the year 2023-24. SH: Rate contract for HVAC Installations at Terminal buildings at Chennai International Airport.

Ref: 1) Your e-tender 2023_AAI_159245_1 price bid opened on 08.08.2023.

Dear Sirs,

1. Your e tender for the work mentioned above is hereby accepted on behalf of Chairman, Airports Authority of India, at the items rates quoted by you totaling to **Rs.78,47,390.00 (Rupees Seventy-Eight Lakhs Forty-Seven Thousand Three Hundred and Ninety Only) Excluding GST**, which is 1.28 % above the justified cost of Rs.77,48,072.00 (Excluding GST).
2. Jt. General Manager (Engg-Elect)- III, AMED, AAI, Chennai Airport, is the Engineer-In-Charge of the work and Asst. General Manager (Engg-Elect), AMED-VIII will be his authorized representative. You are requested to depute your accredited representative empowered to sign the contract agreement on your behalf to attend the office of the Jt. General Manager (Engg-Elect)-III, AMED, AAI, Chennai Airport by 04.09.2023 to sign and complete the contract agreement. The contract agreement shall be executed on a non-judicial stamp paper of value of Rs.100/- (Rupees One Hundred Only) and the cost of the stamp paper shall be borne by you.
3. Please deposit an amount of Rs.7,84,739.00 (Rupees Seven Lakhs Eighty-Four Thousand Seven Hundred and Thirty-Nine Only) towards Security deposit within 10 days from the date of issue of this letter failing which the same will be deducted as per conditions of Clause IA of page 16 of 132 of GCC of the e-tender document.
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 thereof Central and State Governments.
5. You are also requested to contact the Asst. General Manager (Engg-Elect), AMED-VIII immediately who will arrange to handover the site.

[Handwritten signature]
25/8/23
Jt. Genl. Mgr. AMED-VIII

Contd...2/-

फैक्स: 044 - 2256 0008 ई पी ए बी एक्स: 2256 0551, चेन्नई हवाई अड्डे, चेन्नई - 600 027.

Fax: 044 - 2256 0008 EPABX: 2256 0551, Chennai Airport, Chennai - 600 027.



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6. Please note that the time allowed for carrying out the work shall be **01 (One) Year with effect from 01.09.2023.**
7. Any further correspondence in connection with the contract should normally be addressed to the Engineer-in charge.
8. Please acknowledge the receipt of the same by sending return mail to the undersigned as a token of acceptance.
9. All other terms and conditions shall be as per agreement.

Encl: Schedule of Quantity (03 pages).

Yours faithfully,

M. Krishnamoorthy
25/08/23

(M. Krishnamoorthy)

Jt. General Manager (Engg. -Elect.)-III,
AAI, Chennai Airport.

AIRPORTS AUTHORITY OF INDIA

CHENNAI AIRPORT::CHENNAI-16

Schedule of Quantity

Name of work : Facility Management of HVAC installations at Terminal buildings at CIA for the year 2023-24. SH: Rate contract for HVAC Installations at Terminal buildings at Chennai International airport .

Item No.	Description of item	Qty	Unit	Rate	Amount
1	Replacement of existing damaged M S Class 'C' / MS ERW, insulated chilled water pipe lines of following sizes (nominal Dia) along with all necessary accessories such as vibration isolators bends, reducers, tees, supports, flow indicators and fixing clamps of suitable size and thermally insulated with specified insulation materials etc., inside the Terminal building / masonry ducts including dismantling of damaged pipe lines and replacing with new insulated pipe lines, testing and commissioning etc., as per technical specification complete as required				
1.1	100 mm dia	30	RM	4,800.00	1,44,000.00
1.2	65 mm dia	10	RM	3,800.00	38,000.00
1.3	50 mm dia	10	RM	3,440.00	34,400.00
2	Replacement of existing damaged M S Class 'C' / MS ERW, condenser water pipe lines of following sizes (nominal Dia) with necessary clamps, vibration isolators bends, reducers, tees, supports, flow indicators etc as per specification including dismantling of damaged pipe lines and replacing with new pipe lines, testing and commissioning etc., as per technical specification complete as required				
2.1	350 mm dia	10	RM	9,800.00	98,000.00
2.2	150 mm dia	15	RM	6,790.00	1,01,850.00
2.3	100 mm dia	100	RM	4,800.00	4,80,000.00
2.4	65 mm dia	50	RM	3,800.00	1,90,000.00
3	Replacement of faulty / damaged butterfly valves of Motorized type 350mm size complete with cast iron body, cast bronze/ stainless steel disc, companion flanges, new bolt nuts, new gaskets, including dismantling of faulty / damaged butterfly valves and replacing with new one, testing and commissioning etc. as per technical specification complete as required.	2	Jobs	2,16,520.00	4,33,040.00
4	Replacement of existing damaged G.S.S square / rectangular ducting of following thickness, to be fabricated at site complete with gaskets, elbows, splitters, vanes, supports including dismantling of damaged duct and replacing with new one, etc as per technical specification complete as required.				
4.1	18 gauge	100	sqm	1,880.00	1,88,000.00
4.2	20 gauge	100	sqm	1,650.00	1,65,000.00
4.3	22 gauge	100	Sqm	1,500.00	1,50,000.00
4.4	24 gauge	50	sqm	1,250.00	62,500.00
5	Replacement of existing damaged Thermal insulation, aluminium foil faced resin bonded fibre glass insulation of following thickness (on duct) of density 24kg/cu.m after applying two coats of cold setting adhesive (CPRX compound) sealing all joints with self adhesive aluminium tape, covered with G.I. wire mesh netting on the outside, including dismantling of damaged insulation and replacing with new insulation, complete etc. as per technical specification as required.				
5.1	25 mm thick	100	Sqm	750.00	75,000.00
5.2	50 mm thick	100	Sqm	1,400.00	1,40,000.00
6	Replacement of existing damaged XLPE insulation of following thickness (on duct) of density 24 kg/cu.m, Class'O' after applying suitable adhesive sealing all joints with self adhesive aluminium tape, including dismantling of damaged insulation, necessary cleaning of duct surface and replacing with new insulation, complete etc. as per technical specification complete as required				
6.1	13 mm thick	100	Sqm	450.00	45,000.00
6.2	25 mm thick	150	Sqm	850.00	1,27,500.00
7	Replacement of existing damaged Nitrile rubber insulation of following thickness (on duct) of density 24 kg/cu.m, Class'O' after applying suitable adhesive, sealing all joints with self adhesive aluminium tape, including dismantling of damaged insulation, necessary cleaning of duct surface and replacing with new insulation, complete etc. as per technical specification complete as required				
7.1	13 mm thick	100	Sqm	500.00	50,000.00
7.2	25 mm thick	150	Sqm	880.00	1,32,000.00

Handwritten signature and date:
25/1/20
JTBm EFD

Item No.	Description of item	Qty	Unit	Rate	Amount
8	Replacement of existing blocked / damaged AHU Cooling coils of the following specifications i/c necessary modification of Chilled water pipe connection, insulation, including dismantling of blocked/ damaged cooling coil and replacing with new cooling coil, testing, commissioning etc., as per technical specification complete as reqd.				
	No. of Rows = 6, Size of Copper Header = Minimum 2 inch dia Size of Copper pipe = 1/2 inch dia Thickness of copper pipe = 0.42mm Thickness of Aluminium fin = 0.15mm No. of Fins = 4.7 Nos/cm	30	Sqm	64,800.00	19,44,000.00
9	Replacement of following size existing rusted Volume control dampers made of 16 SWG thick GI sheet, box type, low leakage, opposed blades, suitable links, levers and quadrants as required for their proper operation, control or setting devices, position indicating device, including dismantling of rusted Volume Control dampers and replaced with new one, testing and balancing, etc. as per technical specification complete as required				
9.1	Upto 0.50 Sqm	5	Jobs	12,000.00	60,000.00
9.2	From 0.51 to 1.00 Sqm	3	Jobs	12,500.00	37,500.00
9.3	From 1.01 to 1.50 Sqm	3	Jobs	13,000.00	39,000.00
9.4	From 1.51 to 2.25 Sqm	3	Jobs	13,000.00	39,000.00
10	Buffing / Polishing for the column diffusers made of perforated stainless steel having approximate surface area of 11 Square meter, installed in Check-in & Security hold area at Domestic & International terminal buildings using suitable buffing compound as per technical specification complete as required.	10	Jobs	14,800.00	1,48,000.00
11	Dismantling, Rewinding & Refixing of 3 Ph, 5 Hp capacity motors of Smoke extractor fans installed at roof of terminal buildings i/c replacement of old bearings with new bearings, Painting of motor and as per technical specification complete as required.	10	Jobs	18,450.00	1,84,500.00
12	Replacement of existing worn out bearings of 3 Phase, 5 HP capacity Motors of Smoke Extractor fans installed at roof of terminal buildings i/c necessary cleaning, lubricating, alignment, including dismatling the worn out bearing and replace with new one, etc. as per technical specification complete as required.	10	Jobs	20,660.00	2,06,600.00
13	Fabrication, Supply and fixing of MS supports, frames for chilled water pipelines, Condenser water pipelines, Cooling towers and ducts from floor and ceiling with 'L' angle, 'C' section, 'I' section, MS Plates, threaded rod, etc as required including necessary welding, anchor fastener (wherever required), one coat of primer painting & two coat of enamel painting of approved color etc, as per specifications.	1000	Kg	210.00	2,10,000.00
14	Painting of Angles, frames of chilled water pipelines, Condenser water pipelines, Cooling towers and ducts from floor and ceiling with 'L' angle, 'C' section, 'I' section, MS Plates, threaded rod, etc with one coat of primer painting and two coat of enamel paint of approved colour etc as required .	400	Sqmt	1,200.00	4,80,000.00
15	ITC of of existing dismantled Aircurtains of following size at Entry, Exit and Trolley gates of Terminal building including necessary drilling, tapping,suitable fixing arrangements, clamps, bolt nuts, screws, electric power supply cable with plug top etc., required.				
15.1	3 Feet Aircurtain	5	Jobs	72,000.00	3,60,000.00
15.2	6 Feet Aircurtain	5	Jobs	95,400.00	4,77,000.00
16	Provision of fiberglass re-inforced (FRP) lining on existing/New MS/GI pipe line/supports/platform external surface with two layers of (Each layer 1mm thick) fibre glass chopped standard mat on the surface bonded with isophthalic based polyester resin and finally smooth finishing the surface with 0.5mm FRP sheet and adhesive paint; including cleaning, wrapping, fixing with binding components & pigment compound layer as per technical specification complete etc as required.	300	Sqm	700.00	2,10,000.00
17	Painting of HVAC rectangular grills, square aluminium grills, jet nozzles and any other AC vents/outlets etc. including removing & re-refixing (if required) with one coat of primer painting and two coat of enamel paint of approved colour and make etc as required .	500	Sqm	1,200.00	6,00,000.00
18	Supplying, laying, fixing, testing and commissioning of following thickness closed cell elastometric nitrile rubber of class 'O' on existing chilled water pipelines applied by suitable adhesive, as per specifications and as required complete in all respect.				
18.1	32mm	50	sqm	1,050.00	52,500.00

25/8/23
JGm(FD-2)

Item No.	Description of item	Qty	Unit	Rate	Amount
18.2	19mm	50	sqm	500.00	25,000.00
19	Dismantling of rectangular supply/return air grills from the existing false ceiling including Measuring, Marking & Cutting required size in the false ceiling, Fixing of the same rectangular supply air grill in the false ceiling by providing reapers as per site requirement, fixing the grill to the duct using screws, etc. as complete as required i/c Scaffolding.	20	sqm	6,000.00	1,20,000.00
Total (excluding GST)					Rs. 78,47,390.00


25/08/23

M. KRISHNAMOORTHY
Jt. General Manager (Engg-Elect)-III
AAI, Chennai Airport