



भारतीय विमानपत्तन प्राधिकरण
AIRPORTS AUTHORITY OF INDIA
मदुरै हवाई अड्डा, मदुरै - 625 022.
MADURAI AIRPORT, MADURAI - 625 022.
(ISO 9001 - 2015 & 14001 - 2015 प्रमाणित / CERTIFIED)

भा.भा.वि.प्रा./मदुरै/इ(वि)/MDU-359/22-23

Ref: AAI/MDU/E-E/MDU-359/22-23

दि:/Date: 10.02.2023

सेवा में /To,

M/s. CAC Engineers Pvt. Ltd.,
New No.16, Old No.193,
Thiruvassagam Street,
Gandhinagar Main Road,
Ekkattuthangal, Chennai - 600 032.
Email Id: cacengineers@yahoo.in

विषय/Sub : Provision of VRF AC Units for FIDS server Room at NITB and Electrical Works for Additional Equipment Room including Replacing of Existing VRF units and AC Units at Madurai Airport Reg.

संदर्भ/Ref:Your e-tender (Financial bid-2023 AAI 142539 1) Opened on 06.02.23

महोदय/Dear sir(s),

- 1) Your e-tender for the work mentioned above is hereby accepted on behalf of Chairman, Airports Authority of India, at the item rates quoted by you totaling to **Rs. 19,73,765.00** (Rupees Nineteen Lakhs Seventy Three Thousand Seven Hundred and Sixty Five Only) plus applicable GST which is 22.50% below the estimated cost put to tender of Rs. 25,46,657.00 plus applicable GST.
- 2) Jt. General Manager (Engg-Elect.), Airports Authority of India, Madurai Airport, Madurai- 625 022, shall be the Engineer-in-charge of the work.
- 3) You are requested to attend the office of the Asst. General Manager (Engg-Elect.), AAI, Madurai Airport by **24.02.2023** to sign and complete the contract agreement. The contract Agreement shall be executed on a non-judicial stamp paper of value Rs. 100/- (Rupees One Hundred only). The tender document shall be down loaded and signed in each page which shall form part of the agreement. The entire cost towards stamp paper, down loading and printing tender document shall be borne by the contractor.
- 4) As per relevant clause of GCC-2017, which is a part of the contract agreement, security deposit @ 10% (Ten Percent) of gross amount of each running bill will be deducted from your bill which shall be released after successful completion of Defects Liability Period which shall be **One Year** from the certified date of completion.

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- 5) You are requested to comply with the provisions of Contract Labour (Regulation and abolition) Act of 1970 and Contract Labour (Regulation and Abolition) Central Rules 1971, Child Labour (Prohibition and Regulation) and Act 1986, Construction workers (Regulation of employment and conditions of service) Act 1996, Building and other construction workers welfare cess Act 1996 as specified in Clause-19 on Page No.50 of GCC of tender and rules of Central and State Governments.
- 6) You are also directed to contact Manager (Engg-Elect)-I, AAI, Madurai Airport immediately who will arrange to hand over the site to you. Please note that the time allowed for carrying out the work shall be **03 Months** and the same shall be reckoned from **24.02.2023**.
- 7) Any further correspondence in connection with the contract should normally be addressed to the Jt. General Manager (Engg.-Elect.), AAI, Madurai.
- 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.
- 9) This work order is allotted the number **MDU-359** which shall be quoted by you future correspondence in connection with this work Contract.
- 10) All other terms & Condition shall be as per Tender Document.

Yours faithfully,

Encl: Schedule of Work

Asst. General Manager (E-E)
For and on behalf of the Chairman
Airports Authority of India
बोजू के.जी. / B. J. K. G.
नहायक महाप्रबंधक / Assistant General Manager
इंजीनियरिंग (विद्युत) / Engineering [Electrical]
भारतीय विमानपत्तन प्राधिकरण / AIRPORTS AUTHORITY OF INDIA
मदुरै हवाई अड्डा / MADURAI AIRPORT

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Tender Inviting Authority: AIRPORTS AUTHORITY OF INDIA

Name of Work: Provision of VRF AC Units for FIDS server Room at NITB and Electrical Works for Additional Equipment Room including Replacing of Existing VRF units and AC Units at Madurai Airport

Contract No: 2023_AAI_142539_1

Name of the Bidder/
Bidding Firm /
Company : CAC ENGINEERS PVT LTD**PRICE SCHEDULE**

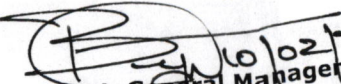
Sl. No.	Item Description	Quantity	Units	BASIC RATE Rs. P	TOTAL AMOUNT Without Taxes in Rs. P	TOTAL AMOUNT In Words
1	Supply, Installations, testing and commissioning of following capacity modular type outdoor units equipped with highly efficient DC twin rotary / inverter scroll compressors, special acrylic pre coated heat exchanger, low noise condenser fan, auto check function for connection error, auto address setting, with multiple outdoor units, including providing initial gas charging, pressure testing, leak testing, leak arresting, complete including cartage etc. as required. Refrigerant shall be R 410 A and all compressors shall be of inverter type only for better efficiency. The COP should be minimum 5.40 at 50% part load under normal operating conditions. System Should Run at 400 V +/-10% Outdoor Unit (ODU) of 14HP cooling capacity (fully inverter type) with suitable electrical & refrigerant line interconnections, With Minimum 1 Inverter Compressors and 1 condensing fan for better efficiency initial charge of refrigerant R 410 A	2	Nos	287000.00	574000.00	INR Five Lakh Seventy Four Thousand Only
2	Supply, Installations, testing and commissioning of following capacity modular type outdoor units equipped with highly efficient DC twin rotary / inverter scroll compressors, special acrylic pre coated heat exchanger, low noise condenser fan, auto check function for connection error, auto address setting, with multiple outdoor units, including providing initial gas charging, pressure testing, leak testing, leak arresting, complete including cartage etc. as required. Refrigerant shall be R 410 A and all compressors shall be of inverter type only for better efficiency. The COP should be minimum 5.40 at 50% part load under normal operating conditions. System Should Run at 400 V +/-10% Outdoor Unit (ODU) of 18HP cooling capacity (fully inverter type) with suitable electrical & refrigerant line interconnections ,With 2 Inverter Compressors and 1 condensing fan for better efficiency initial charge of refrigerant R 410 A	1	Nos	371000.00	371000.00	INR Three Lakh Seventy One Thousand Only
3	Supply, installation, testing and commissioning of Ceiling Mounted 4 Way, Cassette type, Indoor Unit with panel, compact cooling coil, electronic expansion valve, Multi speed fan motors, dynamically balanced blowers, provision for Fresh Air Intake, drain pump suitable lift drain upto 1000mm from the bottom of the unit, synthetic washable media filter including insulation and suitable for operation on single phase AC supply & remote control operation including Wireless Remote Control. System should run at 230V +/-10% a) Capacity 3 TR Ceiling Type cassette unit with 4-way air flow	3	Nos	31540.00	94620.00	INR Ninety Four Thousand Six Hundred & Twenty Only

4	Supply, installation, testing and commissioning of following capacity high wall mounted Indoor unit with panel, compact cooling coil, electronic expansion valve, Multi speed fan motors, dynamically balanced blowers, provision for Fresh Air Intake and provision for adding drain pump suitable lift drain upto 1000mm from the bottom of the unit, synthetic washable media filter including insulation and suitable for operation on single phase AC supply & remote control operation including Wireless Remote Control. System should run at 230V +/-10% a) Capacity 1.5 TR VRF Hi- wall split AC	7	Nos	20000.00	140000.00	INR One Lakh Forty Thousand Only
5	Supply, installation, testing and commissioning of following capacity high wall mounted Indoor unit with panel, compact cooling coil, electronic expansion valve, Multi speed fan motors, dynamically balanced blowers, provision for Fresh Air Intake and provision for adding drain pump suitable lift drain upto 1000mm from the bottom of the unit, synthetic washable media filter including insulation and suitable for operation on single phase AC supply & remote control operation including Wireless Remote Control. System should run at 230V +/-10% b) Capacity 2.0 TR VRF Hi- wall split AC	6	Nos	21000.00	126000.00	INR One Lakh Twenty Six Thousand Only
6	Providing, fixing, testing and commissioning of Variable refrigerant flow distribution REFNETS in the suction & Liquid lines for various sizes of copper refrigerant piping including insulation etc.as required.	20	Each	2000.00	40000.00	INR Forty Thousand Only
7	Supply and fixing of following sizes of refrigerant pipe made out of hard drawn copper including accessories, jointing/brazing etc duly insulated with nitrile tubular rubber sections to prevent condensation with suitable adjustable ring type hanger supports etc. complete as required (The correct size of pipe has to be worked out by the vendor and the number of circuits shall match the vendors equipment) Vendor should Use only Long Bend to Avoid Pressure drop a) 1 3/8 inch (34.92 mm) with 19 mm thick insulation	65	Mtr.	1515.00	98475.00	INR Ninety Eight Thousand Four Hundred & Seventy Five Only
8	Supply and fixing of following sizes of refrigerant pipe made out of hard drawn copper including accessories, jointing/brazing etc duly insulated with nitrile tubular rubber sections to prevent condensation with suitable adjustable ring type hanger supports etc. complete as required (The correct size of pipe has to be worked out by the vendor and the number of circuits shall match the vendors equipment) Vendor should Use only Long Bend to Avoid Pressure drop b) 1 1/8 inch (28.58 mm) with 19 mm thick insulation	115	Mtr.	1000.00	115000.00	INR One Lakh Fifteen Thousand Only
9	Supply and fixing of following sizes of refrigerant pipe made out of hard drawn copper including accessories, jointing/brazing etc duly insulated with nitrile tubular rubber sections to prevent condensation with suitable adjustable ring type hanger supports etc. complete as required (The correct size of pipe has to be worked out by the vendor and the number of circuits shall match the vendors equipment) Vendor should Use only Long Bend to Avoid Pressure drop c) 7/8 inch (22.22 mm) with 19 mm thick insulation	100	Mtr.	684.00	68400.00	INR Sixty Eight Thousand Four Hundred Only
10	Supply and fixing of following sizes of refrigerant pipe made out of hard drawn copper including accessories, jointing/brazing etc duly insulated with nitrile tubular rubber sections to prevent condensation with suitable adjustable ring type hanger supports etc. complete as required (The correct size of pipe has to be worked out by the vendor and the number of circuits shall match the vendors equipment) Vendor should Use only Long Bend to Avoid Pressure drop d) 3/4 inch (19.05 mm) with 19 mm thick insulation	60	Mtr.	497.00	29820.00	INR Twenty Nine Thousand Eight Hundred & Twenty Only

11	Supply and fixing of following sizes of refrigerant pipe made out of hard drawn copper including accessories, jointing/brazing etc duly insulated with nitrile tubular rubber sections to prevent condensation with suitable adjustable ring type hanger supports etc. complete as required (The correct size of pipe has to be worked out by the vendor and the number of circuits shall match the vendors equipment) Vendor should Use only Long Bend to Avoid Pressure drop e) 5/8 inch (15.88 mm) with 19 mm thick insulation	250	Mtr.	500.00	125000.00	INR One Lakh Twenty Five Thousand Only
12	Supply and fixing of following sizes of refrigerant pipe made out of hard drawn copper including accessories, jointing/brazing etc duly insulated with nitrile tubular rubber sections to prevent condensation with suitable adjustable ring type hanger supports etc. complete as required (The correct size of pipe has to be worked out by the vendor and the number of circuits shall match the vendors equipment) Vendor should Use only Long Bend to Avoid Pressure drop f) 1/2 inch (12.70 mm) with 19 mm thick insulation	150	Mtr.	340.00	51000.00	INR Fifty One Thousand Only
13	Supply and fixing of following sizes of refrigerant pipe made out of hard drawn copper including accessories, jointing/brazing etc duly insulated with nitrile tubular rubber sections to prevent condensation with suitable adjustable ring type hanger supports etc. complete as required (The correct size of pipe has to be worked out by the vendor and the number of circuits shall match the vendors equipment) Vendor should Use only Long Bend to Avoid Pressure drop g) 3/8 inch (9.54 mm) with 13 mm thick insulation	230	Mtr.	240.00	55200.00	INR Fifty Five Thousand Two Hundred Only
14	Supply and fixing of following sizes of refrigerant pipe made out of hard drawn copper including accessories, jointing/brazing etc duly insulated with nitrile tubular rubber sections to prevent condensation with suitable adjustable ring type hanger supports etc. complete as required (The correct size of pipe has to be worked out by the vendor and the number of circuits shall match the vendors equipment) Vendor should Use only Long Bend to Avoid Pressure drop h) 1/4 inch (6.40 mm) with 13 mm thick insulation	45	Mtr.	150.00	6750.00	INR Six Thousand Seven Hundred & Fifty Only
15	Providing and fixing following sizes of rigid / flexible PVC pipe with all required accessories and suitable clamps etc for drain pipe i/c connections to the indoor units etc., as required. a) 50 mm dia rigid PVC pipe (10swg Heavy duty)	210	Mtr.	150.00	31500.00	INR Thirty One Thousand Five Hundred Only
16	Providing and fixing following sizes of rigid / flexible PVC pipe with all required accessories and suitable clamps etc for drain pipe i/c connections to the indoor units etc., as required. b) 32 mm dia rigid PVC pipe (15swg Heavy duty)	190	Mtr	100.00	19000.00	INR Nineteen Thousand Only
17	Supply and laying following sizes of FRLS PVC insulated flexible copper conductor cable of 650 Volts grade for Control / Communication i/c providing and laying of 20 mm ISI marked medium class pvc conduit on surface / recess, cutting the wall and making good the same so as to match with the original finish, where ever required etc. as required (Between Indoor & Outdoor Units and for remote control units) a) 2C X 1.0 sq. mm shielded unarmored communication cable	200	Mtr	90.00	18000.00	INR Eighteen Thousand Only

18	Supply and laying following sizes of FRLS PVC insulated flexible copper conductor cable of 650 Volts grade for Control / Communication i/c providing and laying of 20 mm ISI marked medium class pvc conduit on surface / recess, cutting the wall and making good the same so as to match with the original finish, where ever required etc. as required (Between Indoor & Outdoor Units and for remote control units) b) 3C X 1.5 sq. mm power cable for IDUs	100	Mtr	95.00	9500.00	INR Nine Thousand Five Hundred Only
19	Dismantling of existing VRF indoor and out door AC units i/c its accessories and associated items like stabilizers, copper refrigerant pipes/power and control cables / trays / supports etc. i/c shifting and hand over to AAI Store as required	1	Job	500.00	500.00	INR Five Hundred Only
	Total in Figures				1973765.00	INR Nineteen Lakh Seventy Three Thousand Seven Hundred & Sixty Five Only

Say Rs. 1973765.00 (Rupees Nineteen Lakhs Seventy Three Thousand Seven Hundred and Sixty Five Only) plus applicable GST as per Government norms.


Asst. General Manager (E-E)
AAI, Madurai Airport

बीजू के.जी. / BIJU K.G.
तहासक महाप्रबंधक / Assistant General Manger
इंजीनियरिंग (विद्युत) / Engineering [Electrical]
भारतीय विमानपत्तन प्राधिकरण / AIRPORTS AUTHORITY OF INDIA
मदुरै हवाई अड्डा / MADURAI AIRPORT