



भारतीय विमानपत्तन प्राधिकरण
AIRPORTS AUTHORITY OF INDIA

No. AAI/BG/Engg(E)/CW-01/2021-22/6500

Dated: 31.01.2022

To

✓ M/s. CAC Engineers Pvtite Limited
New No.16 (Old No.193),
Thiruvassagam Street,
Gandhi Nagar Main Road,
Ekkattuthangal,
Chennai-600 032

कार्य का नाम/Name of work: गगन, बँगलोर में वीआरटी टाइप एयर कंडीशनिंग सिस्टम का
प्रावधान/ Provision of VRF Type Air-Conditioning system at GAGAN, Bangalore
Ref: 1) Your Tender opened on : 06.01.2022

Dear Sir,

1. अध्यक्ष, भारतीय विमानपत्तन प्राधिकरण की ओर से उपरोक्त कार्य के लिए आपके द्वारा दी गई दरों पर रु 18,64,400/- प्लस जीएसटी की राशि के लिए आपकी निविदा स्वीकृत की गई है। स्वीकृत राशि निविदा की समर्थित लागत राशि 2340297/- से 20.33% प्रतिशत कम है !
Your Tender for the work mentioned above is hereby accepted on behalf of Chairman, Airports Authority of India, item rates quoted by you totaling to Rs. 18,64,400/- (Rupees Eighteen thousand sixty four thousand four hundred Only) which is 20.33% below the justified cost put to tender of Rs. 2340297/-
2. सहायक महाप्रबंधक (इंजीनियरि- विद्युत) इस कार्य के प्रभारी इंजीनियर होंगे। अनुरोध है कि आप दिनांक 15.02.2022 तक संविदा करार को पूरा करने एवं हस्ताक्षर करने के लिए सहायक महाप्रबंधक (इंजीनियरि- विद्युत), भाविप्रा, बँगलूर के कार्यालय में आएँ। संविदा करार सौ रुपये के गैर न्यायिक स्टैप पेपर पर निष्पादित किया जाएगा जिसकी लागत आपको वहन करनी होगी। AGM Engg-E, AAI, Bangalore-Airport, Bangalore-, shall be the Engineer-in-charge of the work. You are requested to attend the office of AGM Engg-E, AAI, Bangalore within 15.02.2022 to sign and complete the contract agreement. The Contract agreement shall be executed on a non-judicial stamp paper of value Rs. 100/- (Rupees- hundred only) and the cost of stamp paper shall be borne by you.

पि.वि. श्रीवास्तव
31-1-22



Tel: 25229861

सम.प्रबं (अभि-विद्युत) 19-1-22

Office of AGM(Engg-E)

3. कृपया इस पत्र की प्राप्ति के दस दिनों के अंदर प्रतिभूति के लिए रु 1,86,440/- जमा करें अन्यथा ये राशि संविदा दस्तावेज की शर्तों के अनुसार काट ली जाएगी। /Please deposit Rs.186440/ --(Rupees One lakh eighty six thousand four hundred and forty only) towards security deposit on or before 10 days from the date of issue of this letter, failing which, the same will be deducted as per conditions of tender.
4. अनुरोध है कि आप संविदा श्रमिक (विनियम एवं उन्मूलन) अधिनियम 1970 एवं संविदा श्रमिक (विनियम एवं उन्मूलन) अधिनियम 1971 एवं केंद्रीय एवं राज्य सरकारों के न्यूनतम मजदूरी अधिनियम एवं उनके अंतर्गत बनाए गए नियमों का अनुपालन करें। You are requested to comply with the provision of Contract Labour (Regulation and Abolition) Act 1970 and Contract Labour (Regulation and Abolition) Act 1971 and minimum wages act and rules thereof central and state governments.
5. आप प्रबंधक (इंजीनियर- विद्युत), भाविप्रा, बेंगलूर से तुरंत संपर्क करें जो आपको कार्यस्थल सौंपेंगे। कृपया ध्यान दें, इस कार्य को पूरा करने की अवधि चार महीने की होगी जिसकी गणना यह पत्र जारी करने के दस दिन की जायेगी। /You are also directed to contact Manager (E-E) AAI, Bangalore, immediately who will hand over the site to you. Please note that the time allowed for carrying out the work shall be **4 Months** and same shall be reckoned from 10th days of issue of this letter.
6. अनुबंध के संबंध में किसी भी प्रकार के अग्रिम पत्राचार के लिए इंजीनियर प्रभारी (इंजी - वि) को संबोधित किया जायेगा। / Any further correspondence in connection with the contract should normally be addressed to the Engineer-in-charge.
7. कृपया पावती और स्वीकृति की निशानी के रूप में अधोहस्ताक्षरी को यह प्राप्त करने के बाद इसके साथ संलग्न इस पत्र की दूसरी प्रति, हस्ताक्षर कर अधोहस्ताक्षरी को वापस भेजें। Please acknowledge receipt and return the duplicate copy of this letter enclosed herewith after signing it to the under signed as a token of acceptance.

Thanking you

Encls: Schedule of Quantities

भवदीय/Yours faithfully,
 पि. वि. श्रीवास्तव 21-1-22
 सहायक महाप्रबंधक, इंजीनियरी (इलेक्ट्रिकल),
 Asst. General Manager (Engg-E)
 अध्यक्ष, भाविप्रा के लिए एवं उनकी ओर से
 For and on behalf of the Chairman
 Airports Authority of India.

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Tel: 25229861

Office of AGM(Engg-E)

Government eProcurement System
Created By: SREEDHAR P V
Created Date/Time: 06-Jan-2022 12:35 PM
Tender Title: Provision of VRF Type Air-Conditioning System at GAGAN, Bangalore
Tender ID: 2021_AAI_96977_1

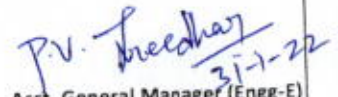
Tender Inviting Authority: Asst.General Manager (Engg. – Electrical), AAI, Bangalore

Name of Work: Provision of VRF Type Airconditioning System at GAGAN, Bangalore

SCHEDULE OF WORK / ITEM(S)

Sl.No	Description of Work / Item(s)	No.of Qty	Units	Rate	Amount
1.00	Supply, Installation, Testing and Commissioning of Outdoor machines for air conditioning system, based on variable refrigerant mass flow (VRF), comprising of minimum 2 (two) full inverter output scroll/rotary compressors, with R410A refrigerant, DC fan motor with fan blade, heat exchanger, safety valves, solenoid valves, receiver, capillary tube, check valve, electronic expansion valve, high pressure switch, low pressure sensor, pressure regulating valve, refrigerant filter, stop valve, accumulator and refnet kits and making joints etc. as per OEM. Rate inclusive of R-410A refrigerant & oil pre charging, power cable from nearest isolator, vibration isolators, supports, necessary foundation / pedestal works etc. condenser coil & fins provided with anti-corrosive treatment, necessary accessories for oil separation, moisture removal, flow control, interconnecting piping, condenser air fan, electrical and microprocessor based panel, interconnecting cabling, all housed inside a weather-proof cabinet suitable for exposed installation on terrace including suitable mounting MS Stand frame, pressure testing, Vaccuming, oil charging of refrigerant R410A etc. as required as per the Special conditions of contract and technical specifications. (Model: Equivalent to WC-785WV2GN1-IN of VOLTAS) 28 HP	2.00	Nos	511500.00	1023000.00
2.00	Supply, Installation Testing and Commissioning of BMS Compatible VRF Indoor Unit with multi speed fan, high efficient filter, inbuilt microprocessor thermostat, electronic expansion valve, remote controller including cable, drain pump set, necessary ceiling supports & vibration isolators, refrigerant charging, 3 or 4 row Cooling coil of Copper tubes and Aluminum fins, drain pan with built in auto drain pump & suitable inter lock between Indoor & the drain pump etc. The equipment should have the capacity of 4.5 TR – 5TR and greater than 1900/1800/1600 CMH Air flow capacity on high / Medium/ Low mode respectively, including Refrigerant, "Y" / "T" joints with insulation suitable numbers as required (08) or as recommended by manufacturer, suitable for the combination of indoor and outdoor machines. 4.5- 5 TR Floor-cum-ceiling mounted type unit, having rated cooling capacity not lesser than 15.7 kW, sound level not higher than 54 dB with cordless remote controller etc. as per the Special conditions of contract and technical specifications. (Model equivalent to VDV-D160DL/N1-C of Voltas)	10.00	Nos	40515.00	405150.00

3.00	Supply, installation, testing and commissioning of refrigerant piping of suitable size as per OEM recommendations for the above units, using eddy current free Copper pipes and fittings like elbows, couplers, tee joints, brass fittings, "U" loops, expansion loops etc. duly insulated with elastomeric nitrile rubber type tubular insulation between indoor & outdoor units as per specifications. All piping inside the room shall be properly supported with hanger and all external piping shall run in existing covered cable tray structural clamps with hard PVC pipe sleeves under the clamps to protect insulation at supports, tagging to enable tracing connectivity to respective units etc.as required.	220.00	Meter	900.00	198000.00
4.00	Supply, Installation, Testing and Commissioning of Communication Cabling size as per OEM specifications with necessary PVC Conduit. (Suitably layed & tighed with PVC ties on cable trays to connect outdoor units with respective indoor units).	250.00	Meter	75.00	18750.00
5.00	Supply, Installation, Testing and Commissioning of Power Cabling for VRV/VRF Outdoor units .				
5.10	Supply, laying and fixing of one number 1100V grade,XLPE insulated and Aiuminum conductor, armoured cable confirming to IS 7098 (Part 1) 1988 with up to date amendments of following sizes on wall surfaces etc. as required. A) (4 Core x 50 sqmm)	200.00	Meter	307.00	61400.00
6.00	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed PVC conduit as required. a) 2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire	400.00	Meter	131.00	52400.00
7.00	Supplying and fixing following modular switch / socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.	10.00	Each	240.00	2400.00
7.10	a) 15/16 amps switch	10.00	Each	250.00	2500.00
7.20	b) 15/16 amp socket outlet	10.00	Each	240.00	2400.00
8.00	Supplying and fixing following size / modules, GI box along with modular base & cover plate for modular switches in recess etc as required. 3 Module	1.00	Each	1500.00	1500.00
9.00	Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240 V. on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earthbar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator) 12 ways, Double door				
10.00	Supplying and fixing following rating, 240/415 volts, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc., as required.	1.00	Each	200.00	200.00
10.10	a) Single pole and neutral	9.00	Each	300.00	2700.00
10.20	b) 5 amps to 32 amps Single pole MCB	200.00	Meter	120.00	24000.00
11.00	Supply and erection of the following Rigid UPVC pipe with all joints, reducer, necessary elbows and tees, supporting arrangements, etc. Rate shall inclusive of thermal insulation with 13mm thickness FM approved closed cell nitrile rubber insulation covering with fire resistant fibre cloth fabric as a resistant to Scratch & Mechanical Impact..				

12.00	Supplying and installing following size of perforated Hot Dipped Galvanised Iron cable tray (Galvanisation thickness not less than 50 microns) with perforation not more than 17.5%, in convenient sections, joined with connectors, suspended from the ceiling with G.I. suspenders including G.I. bolts & nuts, etc. as required.	220.00	Meter	300.00	66000.00
13.00	Supplying and making end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required.	2.00	Set	2000.00	4000.00
Total in Figures					1864400.00
(Rupees in words: Eighteen lakhs sixty four thousand four hundred only)					
 P.V. Sreedhar 31-1-22 Asst. General Manager (Engg-E) AAI, Bangalore Airport					