



भारतीय विमानपत्तन प्राधिकरण
AIRPORTS AUTHORITY OF INDIA
पोरबंदर हवाई अड्डा, पोरबंदर - 360 577
PORBANDAR AIRPORT, PORBANDAR - 360 577

स्पीड पोस्ट/ ईमेल द्वारा

भा.वि.प्रा./जामनगर/स.म.प्र.(अभि-वि)/W.O.-07/2020-21/1589-1601
AAI/JAMNAGAR/AGM (ENGG-E)/W.O.-07/2020-21

दिनांक:-22.12.2020

Date:-22.12.2020

Speed Post/E-Mail

मेवामें,
मैसर्स बी पी एंटरप्राइस.,
सी/45, ओशिवारा इंडस्ट्रियल सेंटर,
गोरेगाव बस डेपो के सामने, न्यू लिंक रोड,
गोरेगाव (वेस्ट), मुंबई - 400062

To,
M/s. B.P. Enterprises
C/45 Oshiwara Industrial Centre,
Opp. Goregaon Bus Depot,
New Link Road, Goregaon (W),
Mumbai-400062

कार्य का नाम:-प्रोविजन ऑफ वी.आर.एफ/वी.आर.वी ऐर कंडिशनिंग सिस्टम फॉर एराइवल हॉल एट सी.ई. जामनगर।

Name of work: -Provision of VRF / VRV Air-conditioning System for Arrival Hall at C.E., Jamnagar.

संदर्भ :- दिनांक 27.11.2020 को खोली गई आपकी ई-निविदा(वित्तीय निविदा)।

Ref.:- Your E-tender opened on 27.11.2020 (Financial Bid).

महोदय/ Sir

1. उपर्युक्त कार्य हेतु आपकी ई-निविदा अध्यक्ष, भारतीय विमानपत्तन प्राधिकरण की ओर से, आपके द्वारा उद्धृत मद दर पर रु.38,03,724.00 (रु.अड़तीस लाख तीन हजार सात सौ चौबीस मात्र) जो अनुमानित लागत राशि से 21.41% नीचे है, स्वीकृत किया जाता है। निविदा की अनुमानित लागत राशि रु.48,39,811.00 (रु.अड़तालीस लाख उनतालीस हजार आठ सौ ग्यारह मात्र) है।

Your E- tender for the work mentioned above is hereby accepted on behalf of the Chairman, Airports Authority of India, at the item rates quoted by you totaling to Rs. 38, 03,724.00 (Rs. Thirty Eight Lakhs Three Thousand Seven Hundred and Twenty Four only) which is 21.41% below the estimated cost put to E-tender of Rs. 48, 39,811.00 (Rs. Forty Eight Lakhs Thirty Nine Thousand Eight Hundred and Eleven only).

2. सहायक महाप्रबन्धक (अभि-विद्युत), भा.वि.प्रा., पोरबंदर विमानक्षेत्र, इस कार्य के प्रभारी अभियंता होंगे। आपसे निवेदन है कि आप स्वयं या आपकी ओर से एक विश्वसनीय प्रतिनिधि प्रतिनियुक्त करें जो करारनामे पर हस्ताक्षर करने के लिए अधिकृत हो तथा वह दिनांक 15.01.2021 तक सहायक महाप्रबन्धक (अभि-सिविल), पोरबंदर विमानक्षेत्र, पोरबंदर के कार्यालय में उपस्थित हों तथा करारनामे को पूरा करें। ठेके का करारनामा रु.100.00 (रु.सौ मात्र) के नोन ज्यूडिशियल स्टैम्प पेपर पर निष्पादित किया जाएगा, तथा स्टैम्प पेपर की लागत आपके द्वारा वहन की जायेगी।

Asstt. Gen. Manager (Engg-Elect.), AAI, Porbandar Airport shall be the Engineer-in-charge of the work. You are requested to attend the office or depute your accredited representative, empowered to sign the contract agreement on your behalf, to attend the office of the Asstt. Gen. Manager (Engg-Elect.), AAI,

★ भा. वि. प्रा.



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Porbandar Airport by 15.01.2021 to sign and complete the contract agreement. The contract agreement shall be executed on a non- Judicial stamp paper of value Rs. 100.00 (Rs. One Hundred only) and the cost of the stamp paper shall be borne by you.

3. ई-निविदा के साथ प्राप्त अग्रिम धन राशि रु.96,796.00 (रु.छियानबे हजार सात सौ छियानबे मात्र), को संविदा केजी सी सीपृष्ठ संख्या 16के शर्त संख्या 1एके अनुसार प्रतिभूति निक्षेप राशि का हिस्सा मान कर उसमें बदल दिया जाएगा। कृपया शेष प्रतिभूति निक्षेप राशि रु.2,83,576.00(रु.दो लाख तिरासी हजार पांच सौ छिहतर मात्र) इस पत्र के जारी होने की तिथि से 10 दिन के भीतर जमा करे अन्यथा उक्त धनराशि कि कटौति संविदा प्रपत्र कि उक्त संदर्भित शर्तके अनुसार चालू बिलों से की जाएगी।

The earnest money amount of Rs. 96,796.00 (Rs. Ninety Six Thousand Seven Hundred and Ninety Six only) received along with your E-tender will be treated and converted as a part of security deposit as per clause 1 A on page 16 of GCC of tender document. Please deposit Rs. 2,83,576.00 (Rs. Two Lakhs Eighty Three Thousand Five Hundred Seventy Six only) towards balance security deposit within 10 days from the date of issue of this letter, failing which, the same will be deducted from the running bills as per condition referred above of the tender document.

4. आपसे अनुरोध है कि अनुबंध श्रम (विनियमन और उन्मूलन) अधिनियम 1970 और अनुबंध श्रम (विनियमन और उन्मूलन) केंद्रीय नियम 1971 के प्रावधान का पालन करे, बाल श्रम (निषेध और विनियमन) अधिनियम 1986, निर्माण कामगार (रोजगार का विनियमन और सेवा की शर्त) अधिनियम 1996, बिल्डिंग और अन्य निर्माण कामगार कल्याण सेस अधिनियम 1996 जैसा कि निविदा जीसीसी के खंड 19 पृष्ठ 49 और केंद्रीय तथा राज्य सरकार के नियमों में निर्दिष्ट है, तथा केंद्रीय और राज्य के न्यूनतम मजदूरी अधिनियम के प्रावधानों का भी पालन करेंगे।

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. Child labour (prohibition and Regulation) Act 1986, Construction Workers (Regulation of Employment and Condition of Service) Act 1996, Building and other construction workers welfare cess act 1996 as specified in clause 19 page 49 of GCC of tender document & minimum wage act rules of Central and State Governments.

5. आपको निर्देश दिया जाता है कि आप प्रबंधक (अभि-विद्युत), भा.वि.प्रा.सी. ई. जामनगर विमानक्षेत्र से तत्काल संपर्क करे। वह आपको कार्यस्थल सौंपने कि व्यवस्था करेंगे। कृपया नोट करे कि काम करने का अनुमत समय 06 (छह) माह है जो कि इस पत्र के जारी होने के दसवे दिन के बाद से गिना जाएगा।

You are also directed to contact **Manager (Engg-Elect.), AAI, C.E. Jamnagar.** immediately who will arrange to handover the site to you. Please note that the time allowed for carrying out the work is **06 (Six) Months** which shall be reckoned from Tenth days after the issue of this letter.

6. इस संविदा के संबंध में भविष्य में किसी भी प्रकार का पत्राचार सामान्यतः सहायक महाप्रबंधक (अभि-विद्युत), भा.वि.प्रा., पोरबंदर विमानक्षेत्र, पोरबंदर-360577 के पते पर किया जाये।

Any further correspondence in connection with the contract should normally be addressed to the Asstt.Gen. Manager (Engg-Elect.), AAI, Porbandar Airport, Porbandar-360577.

★ भा. वि. प्रा. सी. ई. जामनगर



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7. यदि ठेकेदार सुरक्षा नियमों का भंग करेगा तो वह कालियादी में सम्मेलित किया जाएगा एवं उचित कानूनी कार्यवाही के लिए भी जिम्मेदार होगा।

If Contractor is found violating any of Security Regulations, he shall be black listed and will be subjected to other legal Proceedings.

8. कृपया पत्र की पावती भेजे तथा साथ में संलग्न इस पत्र की दूसरी प्रति पर स्विकारोक्ति के रूप में विधिवत हस्ताक्षर करके हमें वापस भेजे।

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

9. यदि कोई विसंगति पाई जाती है तो अंग्रेजी संस्करण को सही रूप में लिया जाएगा।

In case any discrepancy is found, then English version will be taken as correct.

भवदीय/Yours faithfully



[Signature]

(सी. डी. शर्मा) 22.12.20

सहायक महाप्रबंधक (अभि-विधुत)

भा.वि.प्रा., सी.ए. पोरबंदर

कृते तथा अध्यक्ष की ओर से,

भारतीय विमानपत्तन प्राधिकरण

Asstt. General Manager (Engg-Elect.)

AAI, C.A. Porbandar

For and on behalf of the Chairman,

Airports Authority of India

SCHEDULE OF WORK

Name of Work : Provision of VRF / VRV Airconditioning System for Arrival Hall at C.E., Jamnagar.

Sr.No.	Description of Item	Unit	Qty	Rate	Amount
1	Supply, Installation, Testing and Commissioning of following capacity modular type Variable Refrigerant Flow / Variable Refrigerant Volume air cooled Outdoor units suitable for cooling, having all hermetically sealed inverter type Scroll Compressor(s), minimum two compressors per module for better reliability of the system, microprocessor based Controller, top discharge type condensing unit(s), with R 410 A Refrigerant, vibration isolation pads, special pre coated fins, panel, corrosion resistant coated condenser, with suitable CC /MS foundation and base frame etc. complete, as required. The unit shall deliver the rated capacity at AHRI Conditions and work even at 54°C ambient temperature without tripping. The unit shall be suitable to work on 415V +/- 10%, 3 Phase, 50Hz AC power supply. The unit shall be filled with first charge of the refrigerant, lubricating oil and ready for use including Nitrogen Pressure testing as per specification. The Cooling COP at AHRI Conditions shall not be less than 4 and IEER not less than 6.5, complete as per technical specifications, as required.				
1.1	24 HP VRF ODU	Each	1.00	389300.00	389300.00
1.2	22 HP VRF ODU	Each	2.00	374600.00	749200.00
2	Supply, Installation, Testing and Commissioning of 18 TR capacity and high external static pressure VRF/VRV ceiling suspended ductable type Indoor unit equipped with washable synthetic media pre-filter, fan section with low noise fan/dynamically balanced blower, multispeed motor, coil section with DX copper coil, electronic expansion valve, corded remote control, outer cabinet, vibration isolators, drain pan, other necessary supports etc., suitable for operation on three phase AC supply 415 V ± 10%, 50 Hz complete as required. The unit shall have automatic force shut down provision in case of fire on receiving signal from BMS / FIRE System. The cooling capacity of indoor unit will be at air inlet conditions of 27 Degree C DB and 19 Degree C WB temperature, complete as per technical specifications, as required.	Each	3.00	70600.00	211800.00
3	Supply and Installation of REFNET joint kits as per OEM recommendations suitable for the above VRF / VRV system, complete as required.	Each	4.00	6600.00	26400.00
4	Supply, Installation, Testing and Commissioning of Group Controller of OEM make suitable for above VRV / VRF AC system, complete as required.	Each	1.00	28000.00	28000.00
5	Supply, Installation, Testing and Commissioning including vacuumization and nitrogen testing of hard drawn copper refrigerant piping of minimum 1.2 mm tube thickness and in required sizes as per OEM standards suitable for above VRV / VRF system, complete with fittings, suitable adjustable ring type hanger supports, GI Cable Tray, jointing / brazing including accessories, insulated with XPLE Class-O tubular insulation / with Class-O closed cell elastomeric nitrile rubber tubular sleeves sections of minimum 19 / 13 mm thickness for Suction and Liquid lines, all accessories as per specifications etc. as required.	RMT	51.00	1800.00	91800.00
6	Supply and laying of 2C x 0.75 sqmm shielded communication Cabling between the Indoor & Outdoor units in ISI PVC conduits, complete as required.	RMT	56.00	150.00	8400.00
7	Supply and Fixing of U-PVC drain piping of 32 mm for all Indoor Units with proper Slope arrangement & duly insulated with Nitrile Insulation of minimum 9 mm thickness to the nearest drain point, with required support etc, complete as required.	Mtr	45.00	180.00	8100.00
8	Supply, fabrication and Installation of following gauges of Galvanised Iron (GI) Sheet Round Duct, inner insulated, spray painted in approved colour, complete with GI Angle supports & flanged, threaded support for level adjustment, expansion fasteners etc., complete as required.				
8.1	22 G GI Ducting	Sq.M	81.00	1050.00	85050.00
8.2	24 G GI Ducting	Sq.M	324.00	850.00	275400.00
9	Supply and Fixing acoustic Insulation of ducts with minimum 12 mm thick fibreglass of density 48 kg/ Cu.Mtr. And covered with RP tissue and 28G perforated aluminium sheet from inside the duct, complete as required.	Sq.M	81.00	950.00	76950.00
10	Supply and Fixing of Nitrile Insulation of minimum 9mm thickness closed-cell Elastomeric Class-O Nitrile rubber insulation of 40-60 kg/Cu. Mtr. density on inner side of duct. Pre-clean duct surface before applying insulation, stick insulation material using a thin flim of manufacturer-recommended adhesive on both duct and insulation; keeping the insulation material under compression (without any stretching). seal all joints air-tight, complete as required.	Sq.M	324.00	650.00	210600.00



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Sr.No.	Description of Item	Unit	Qty	Rate	Amount
11	Supply, Installation, Testing and Commissioning of Fresh air fan to supply 1400 CFM cabinet type fan with 10 Micro filter for Fresh air in duct air delavary 'capacity and suitable for operation on three phase AC supply 415 V $\pm$ 10%, 50 Hz complete as required. The unit shall have automatic force shut down provision in case of fire on receiveing signal from BMS / FIRE System, complete as required.	Each	1.00	15500.00	15500.00
12	Supply, Installation, Testing and Commissioning of Exhaust air fan to supply 1400 CFM cabinet type fan with 10 Micro filter for Exhaust air in duct air delavary capacity and suitable for operation on three phase AC supply 415 V $\pm$ 10%, 50 Hz complete as required. The unit shall have automatic force shut down provision in case of fire on receiveing signal from BMS / FIRE System, complete as required.	Each	1.00	15500.00	15500.00
13	SITC of Powder coated, extruded Aluminium Supply Air Grills in approved colour with adjustable vertical and horizontal deflection louvers, complete as required.	Sq.M	11.00	3500.00	38500.00
14	SITC of Volume control damper, as required.	Sq.M	5.00	4500.00	22500.00
15	SITC of Duct Damper, as required.	Sq.M	1.00	4000.00	4000.00
16	SITC of fire Damper, as required.	Sq.M	1.00	18000.00	18000.00
17	Design, Fabrication, Supply and Installation of Ultra Violet Germicidal Irradiation System (UVGI) suitable for ductable packaged type air-conditioning units for maintaining Indoor Air Quality through air-stream microbe disinfection with factory fabricated UV modules in strict compliance of tender specifications including microprocessor based control panel with provision of individual ballast for each lamp, isolation transformer, provision of RS 485 port, audible buzzer, indication lamps, auto door interlocking, interconnection bewtween control panel & UV modules, power supply and control cabling, cable glanding, other safety equipment & mounting accessories, any minor civil works complete with Testing & Commissioning of the entire system all as required and specified. The whole system shall either be duct/AHU mounted and shall be in compliance with the selection chart based on ISHRAE recommendations.	Each	3.00	30786.00	92358.00
18	Designing the HVAC system along with disinfection system (UVGI / MERV Filters) , Preparing CAD Construction Drawing, getting approval of the system design from AAI and OEM of VRF AC, Preparing as built drawing and Handing over the HVAC system with required documents such as test reports/Certificate of each material and entire system performance etc.	Job	1.00	250000.00	250000.00
19	Supply of following size of XLPE insulated, PVC sheathed, Aluminium conductor, armoured electric cable of 1.1 KV grade confirming to IS 7098 PART-I with upto date amended, complete as required.				
19.1	4 C x 16 Sq.mm	Mtr	150.00	250.00	37500.00
19.2	3.5 C x 240 Sq.mm	Mtr	700.00	780.00	546000.00
20	Supply of following size of XLPE insulated, PVC sheathed, Copper conductor, armoured electric cable of 1.1 KV grade confirming to IS 7098 PART-I with upto date amended, complete as required. 3C X 4 Sq.mm	Mtr	180.00	200.00	36000.00
21	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 kV grade of following size in the existing RCC/ HUME/ METAL pipe as required. Above 185 sq. mm and upto 400 sq. mm	Mtr	18.00	100.00	1800.00
22	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 kV grade of following size in the existing masonry open duct as required:- Above 185 sq. mm and upto 400 sq. mm	Mtr	682.00	100.00	68200.00
23	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 kV grade of following size on wall surface as required:- Upto 35 sq. mm(Clamped with 1 mm thick saddle)	Mtr	330.00	95.00	31350.00
24	Providing, laying and fixing following dia G.I. pipe (medium class) in ground complete with G.I. fittings including trenching (75 cm deep) and re-filling etc. as required 100mm dia	Mtr	40.00	350.00	14000.00
25	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.				
25.1	4 C x 16 Sq.mm (28 mm)	Each	6.00	55.00	330.00
25.2	3.5 C x 240 Sq.mm (62 mm)	Each	8.00	145.00	1160.00



Sr.No.	Description of Item	Unit	Qty	Rate	Amount
26	Providing and fixing of advance technology earth electrode earthing system fabricated from hot deep galvanized pipes (pipe in pipe technology) & cavity between pipes pressure filled with highly conductive non-corrosive crystalline material complete with chemically modified homogeneous earth enhancing compound (back fill compound 25 Kg) to treat the soil for lowering the effective ground impedance for each earth pit to make it maintenance free and to minimize the ground voltage potential rise i/c excavation of earth pit suitable to accommodate earth electrode, prefabricated FRP enclosure with cover plate all as reqd. & conforming to (IS:3043 : 1987) duly CPRI/ERDA approved all as required & as specified for Size :- Outer pipe dia = 80mm Inner pipe dia = 40mm Length of electrode = 2 Mtr	Set	2.00	30025.00	60050.00
27	Providing and fixing 25 mm X 5 mm G.I. strip in 40 mm dia G.I. pipe from earth electrode including connection with G.I. nut, bolt, spring, washer excavation and re-filling etc. as required.	Mtr	10.00	70.00	700.00
28	Providing and fixing 25 mm X 5 mm G.I. strip on surface or in recess for connections etc. as required.	Mtr	30.00	70.00	2100.00
29	Providing and fixing 6 SWG dia GI wire on surface or in recess for loop earthing alongwith existing surface / recessed conduit / submail wiring / cable as required.	Mtr	300.00	80.00	24000.00
30	Providing and fixing 200A, 36kA, FP MCCB with adjustable thermomagnetic release and terminal spreaders in existing cubicle panel board including drilling holes in cubicle panel, making connections, etc. as required.	Each	2.00	25921.00	51842.00
31	Supplying and Fixing of outdoor TPN Sheet Steel Enclosure made of 2mm thick CRCA Sheet, IP 65, powder coated, wall / floor mounted with MS angle stand alongwith providing and fixing of 1 Nos. 4 pole 80A, 10kA, D series MCBs complete with connections, testing and commissioning etc, as required.	Set	3.00	24869.00	74607.00
32	Supply, Installation, Testing and Commissioning of cubical type, made out of 2 mm thick CRCA sheet, totally enclosed, IP 45, free standing, Wall mounting, dust and vermin proof, indoor, compartmentalized, suitable for operation on 3 phase and neutral, 415 V, 50Hz, AC system with busbars extensible on both sides, making interlocking arrangement between incomers & buscouple breakers, including internal wiring with suitable size wires / cables, interconnection, duly powder coated painting etc., including supply & installation of following switchgears, metering instruments and accessories as per specifications:- Incoming : (a) 01 No. 100 Amp., 10kA, 4 Pole, MCB having Adjustable Thermal Setting (Ics=100%Icu), spreader links and extendable ON/OFF rotary handle. (b) 01 Sets of phase indicating lamps, LED type, RYB ON, OFF lamps controlled by 2 A MCB. Outgoings : (a) 16 A, TP, D curve MCB- 04 Nos. (b) 16 A, DP, D curve MCB- 04 Nos.	Set	1.00	29786.00	29786.00
33	Supply, Installation, Testing and Commissioning of cubical type, made out of 2 mm thick CRCA sheet, totally enclosed, IP 54, free standing, floor mounting, dust and vermin proof, outdoor, compartmentalized, suitable for operation on 3 phase and neutral, 415 V, 50Hz, AC system with busbars extensible on both sides, making interlocking arrangement between incomers & buscouple breakers, including internal wiring with suitable size wires / cables, interconnection, duly powder coated painting etc., including supply & installation of following switchgears, metering instruments and accessories as per specifications:- Incoming : (a) 01 No. 200 Amp., 25kA, 4 Pole, MCCB having Adjustable Thermal Setting (Ics=100%Icu), spreader links and extendable ON/OFF rotary handle. (b) 01 Nos. digital multifunction meter for 3 Phase, 4 wire operation with LED display. (c) 01 Sets of phase indicating lamps, LED type, RYB ON, OFF lamps controlled by 2 A MCB. Outgoings : (a) 100 A, 25kA, 4 Pole MCCB with adjustable thermal setting (Ics = 100%Icu) - 05 Nos. (b) 63 A, FP, D curve MCB- 04 Nos.. (c) 32 A, FP, D curve MCB- 04 Nos.	Set	1.00	30786.00	30786.00
34	SITC of Air-curtain of 2 Mtr.length, 1400 RPM, suitable to operate on 230 V, 50 Hz, 1-phase AC supply, Air Throw up to 2 Mtr, Velocity of 13/14 M/Sec., Noise Level 72 db along with suitable mounting arrangement complete as required.	Each	4.00	17786.00	71144.00
35	SITC of 200A FP/4, 415V on load Change over Switch in sheet steel Enclosure (Cat ref. ICAS0200)	Each	1.00	18786.00	18786.00



22.12.20

Sr.No.	Description of Item	Unit	Qty	Rate	Amount
36	Supplying and laying of following size DWC HDPE pipe ISI marked along with all accessories like socket, bend, couplers etc. conforming to IS 14930, Part II complete with fitting and cutting, jointing etc.direct in ground (75 cm below ground level) including excavation and refilling the trench but excluding sand cushioning and protective covering etc. , complete as required.				
36.1	90 mm dia (OD-90 mm & ID-76 mm nominal)	Meter	60.00	175.00	10500.00
36.2	200 mm dia (OD-200 mm & ID-175 mm nominal)	Meter	233.00	325.00	75725.00
Total Ex. GST					3803724.00
Say Rs					3803724.00

Rs. 38, 03,724.00 (Rs. Thirty Eight LakhsThree Thousand Seven Hundred and Twenty Four only)



 22.12.20
 Asstt.Gen.Manager (E-E)
 AAI, CA, Porbandar

Signature Not Verified

Digitally signed by CHANDRASHEKHAR
 DEVIKISAN SHARMA
 Date: 2022.06.01 15:44:52 IST
 Location: eProcurement System for Central
 PSUs