

संदर्भ: भाविप्रा/पुणे/अभि(वि)/कूलिंग टावर/सीडब्लू-03/2022-23/565

दिनांक: 28.11.2022

सेवा में,
मैसर्स. वोल्टास लिमिटेड,
5/4 चंदन नगर,
नगर रोड, पुणे -411014
ई-मेल आईडी: pdtirodkar@voltas.com
मो.- 9487800401

To,
M/s Voltas Limited,
5/4 Chandan Nagar,
Nagar road, Pune-411014
E-mail Id: pdtirodkar@voltas.com
Mob.- 9487800401

कार्य आदेश / AWARD LETTER

कार्य का नाम : न्यू टर्मिनल बिल्डिंग के संचालन के लिए संबद्ध विद्युत कार्य। एसएच: पुणे हवाई अड्डे पर कूलिंग टॉवर का स्थानांतरण।

Name of Work: Associated Electrical works for operationalization of New Terminal Building. SH: Relocation of Cooling Tower at Pune Airport.

आपका टेंडरआयडी नं.: 2022_AAI_130472_1 की वित्तीय बोली दिनांक 22.11.2022. को खोली गई।

Your tender ID No: 2022_AAI_130472_1 Financial Bid Opened on 22.11.2022.

महोदय/ Dear Sir,

- ऊपर उल्लेखित कार्य हेतु आपका टेंडर अध्यक्ष, भारतीय विमानपत्तन प्राधिकरण की ओर से स्वीकृत किया जाता है, आपके द्वारा बताए गए मद मूल्यों पर आपकी टेंडर रशि कुल **₹. 1,19,99,999.00 (Excluding GST)** (एक करोड़ उन्नीस लाख निन्यानवे हजार नौ सौ निन्यानवे मात्र) है जो कि टेंडर की जस्टीफ़ायड रशि **₹. 1,71,84,792.00 (Excluding GST)** से 30.17 % निचे है।
- Your 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 1, 19, 99,999.00 (Excluding GST)** (Rupees One corer nineteen Lacs ninety nine thousand nine hundred and ninety nine Only) which is 30.17 % below the justified Cost put to tender of Rs. 1, 71, 84,792.00 (Excluding GST).
- संयुक्त महाप्रबंधक, अभि (विद्युत), भाविप्रा पुणे विमानक्षेत्र कार्य के प्रभारी अभियंता होंगे। आपसे निवेदन है कि आप आपकी ओर से एक विश्वसनीय प्रतिनिधि नियुक्ति करें जो करार नामे पर हस्ताक्षर करने के लिए अधिकृत हो। तथा वह दिनांक **12.12.2022** तक संयुक्त महाप्रबंधक, अभि(विद्युत), पुणे एयरपोर्ट के कार्यालय में उपस्थित हो तथा करार नामे को पूरा करें। ठेके का करार नामा **₹. 100/-** नानज्यूडिसियल स्टम्प पेपर पर निष्पादित किया जाएगा तथा पेपर का खर्च आपके द्वारा उठाया जायगा।

पुणे विमानतळ, पुणे - 411 032

दुरध्वनी : (020) 26683232, 26685201

फैक्स : (020) 26685599

पुणे हवाई अड्डा, पुणे - 411 032

दुरभाष : (020) 26683232, 26685201

फैक्स : (020) 26685599

Pune Airport: Pune - 411 032

Phone : (020) 26683232, 26685201

Fax : (020) 26685599

E-mail : apdpune@aai.aero

2. Jt.G.M. (Engg-E), AAI, Pune Airport shall be the Engineer-In-Charge of the work. You are requested to depute your accredited representative, empowered to sign the contract agreement on your behalf, to attend the office of the Jt.G.M. (Engg-E), AAI, Pune Airport by **12.12.2022** to sign and complete the agreement. The contract agreement shall be executed on a non-judicial stamp paper of value **Rs. 100/-** (Rupees One hundred only) and the cost of the stamp paper shall be borne by you

3. आपके टेंडर के साथ प्राप्त धरोदर रशि **3, 43,696.00** (तीन लाख तैंतालीस हजार छह सौ छियानवे रुपये मात्र) ठेके के दस्तावेज़ के सामान्य शर्तों के अंतर्गत पृष्ठ संख्या GCC-16 पर शर्त न. 1A के अनुसार जमानत रशि में परिवर्तित कर दी गई है। कृपया इस पत्र के जारी होने की तिथि से 10 दिनों के भीतर जमानत रशि की बकाया रु. **8, 56,303.00** (रुपये आठ लाख छप्पन हजार तीन सौ तीन मात्र) अदा की जाए अन्यथा निविदा दस्तावेज़ के कंडीशन 1A पेज संख्या GCC-16 के अनुसार उक्त रशि रनिंग बिल से कटौती की जाएगी।

डी.एल.पी.: डीफेक्ट लाईबिलिटी पीरियड संतोषजनक ढंग काम पूरा होने की प्रमाणित तिथि से 12 महीने है।

3. The earnest money amount of **3, 43,696.00** (Rupees Three Lakhs forty three Thousand six hundred and ninety six Only) received along with your tender will be treated and converted as part of security deposit as per clause 1A on page no. GCC-16 of tender document. Please deposit **8, 56,303.00** (Rupees eight Lakhs fifty six thousand three hundred and three 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 as per condition 1A on page no. GCC-16 of the contract document.

DLP: Defect Liability period is 12 months from the certified date of satisfactory work completion.

4. आपसे निवेदन है कि आप केंद्रीय और राज्य सरकारों 1970 के अधिनियम अनुबंध श्रम नियम तथा 1971 के केंद्रीय नियम (नियमन तथा उन्मूलन) एवं केंद्र तथा राज्य सरकार के न्यूनतम वेतन अधिनियम और नियमों के प्रावधान का अनुपालन करें।

4. You are requested to comply with the provisions of contract labour (Regulation and abolition) Act of 1970 and contract labour (Regulation & abolition) Central rules 1971 and minimum wages Act & rules thereof central and state Governments.

5. आपको निर्देश दिया जाता है कि आप तुरंत सहायक महाप्रबन्धक (अभि-विद्युत), भाविप्रा, पुणे विमानक्षेत्र से मिले वह आपको साइट सौंपने की व्यवस्था करेंगे।

5. You are also directed to Contact Asst. Gen. Manager (Engg-E), AAI, Pune Airport, immediately who will arrange to hand over the site to you.

6. कृपया नोट कर लें कि काम पूरा करने का अवधि छह (06) माह दिनांक 01.12.2022 से 31.05.2023 तक गिना जायगा.

6. Please note that the time allowed for carrying out the work is Six (06) months, which shall be reckoned from the date 01.12.2022 to 31.05.2023.

7. इस ठेके के संबंध में आगे का कोई भी पत्राचार सहायक महाप्रबंधक (अभि-विद्युत), भाविप्रा, पुणे विमानक्षेत्र के पते पर किया जाए।

7. Any further correspondence in connection with the contract should normally be addressed to the Asst. Gen. Manager (Engg-E), AAI, Pune Airport.

8. कृपया पावती भेजें।

8. Please acknowledge the receipt.

यदि अंग्रेजी और हिन्दी पाठ में कोई अंतर पाया जाता है तो अंग्रेजी विवरण सही माना जाएगा.

If there is any discrepancy between English and Hindi then meaning derived in English will be given precedence.

धन्यवाद/Thanking You,

भवदीय / Yours faithfully,



सं.म.प्र. (अभि-विद्युत)/Jt. GM. (Engg-E),

कृते तथा ओर से, अध्यक्ष, भारतीय विमानपत्तन प्राधिकरण,

For and on behalf of Chairman, Airports Authority of India.

संलग्न/Encl: Schedule of Quantity.

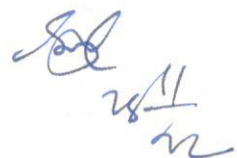
N.O.O:

External:

1. संयुक्त महाप्रबंधक (सतर्कता), प.क्षे., भा.वि.प्रा., क्षेत्रीय कार्यपालक निदेशक का कार्यालय, पारसीवाड़े के सामने, सहार रोड, विलेपारले (पूर्व), मुंबई -400099
JT. General Manager (Vigilance), WR, AAI, Opp. Parsiwada, Sahar Rd., Vile Parle(E), Mumbai - 99.
2. केंद्रीय श्रम आयुक्त का कार्यालय, गुरु नानक नगर, शांति नगर सोसाइटी, कतड खाना, शंकर शेठ रोड, पुणे - 411042.
Labour Enforcement officer (Central), Guru Nanak Nagar, Shanti Nagar Society, Katad khana, Shankar Sheth road, Pune - 411042.
3. क्षेत्रीय ई.पी.एफ. आयुक्त, दूसरी और तीसरी मंजिल, पुणे छावनी बोर्ड भवन, गोलिबार मैदान के पास, पुणे - 411001.
Regional Provisional Found Commissioner, 2nd & 3rd Floor, Pune Cantonment Board Building, Near Golibar Maidan, Pune - 411001

Internal:

1. महाप्रबंधक (इंजीनियरिंग-प्रोज), भा.वि.प्रा., पुणे हवाई अड्डा, पुणे - 32।
GM (Engg.-Proj), AAI, Pune Airport, Pune - 32.
2. विमानपतन निदेशक, भा.वि.प्रा., पुणे हवाई अड्डा, पुणे - 32 ।
The Airport Director, AAI, Pune Airport, Pune - 32.
3. संयुक्त महाप्रबंधक (इंजीनियरिंग-प्रोज), भा.वि.प्रा., पुणे हवाई अड्डा, पुणे - 32।
Jt.GM (Engg.-Proj), AAI, Pune Airport, Pune - 32.
4. उपमहाप्रबंधक (वित्त), भा.वि.प्रा., पुणे हवाई अड्डा, पुणे - 32।
DGM (Fin.), AAI, Pune Airport, Pune - 32.
5. सहायक महाप्रबंधक(अभि-वि), भा.वि.प्रा., पुणे हवाई अड्डा, पुणे - 32।
Asstt.Gen. Manager (Engg-Elect), AAI, Pune Airport, Pune - 32.
6. अनुबंध फाईल
Agreement File.
7. कार्य फाईल
Works File.





भारतीय विमानपत्तन प्राधिकरण, पुणे हवाई अड्डा

AIRPORT AUTHORITY OF INDIA

PUNE AIRPORT, PUNE-411032.

SCHEDULE OF QUANTITIES

Name of work : - Associated electrical works for operationalization of New Terminal Building. SH: Relocation of Cooling Tower at Pune Airport

S.N.	Description of Work / Item(s)	No. of Qty	Units	Rate	Amount
1.00	Design, Supply, installation, testing and commissioning of FRP Induced draft counter flow CTI approved COOLING TOWER of minimum 1200 TR Capacity including all civil foundation suitable to withstand the weight of cooling tower (All civil foundation work is in contractor scope). minimum 1200 TR cooling tower must be segregated in 4 cell Combination inline with the requirement and can work in any combination. Capacity of each cell should be not less than 300 TR; FRP Casing and FRP Basin with makeup including Float valve, PVC fills, Distribution system with PP Nozzles, Axial Flow Direct/Belt drive Fan with PVC Blades & MS HDG Hub driven by IP55 TEFC 720 RPM vertical flange mount IE3 Motor, VFD compatible motor suitable for 415±10% V, 50 Hz, 3 phase supply; power / control wiring, earthing, drain, make up, quick fill connection and vibration isolation etc and CTI Approved cooling tower. The cooling tower shall be suitable for Working capacity of the chiller. 4 Cell Cooling tower required along with individual sumps and 4 nos. fans with individual motors. Design should be for Pune condition. Unloading, lifting, shifting, carriage to site and any other activity in contractor scope. Tower must be in four cells and with individual FRP basin. Pune DBT : 40 Degree C/ WBT 26.1 Degree C. Out/In from CT 29.8/35 Degree C. Agency shall obtain approval of GAD drawings from EIC before execution.	1.00	Each	4,366,713.00	4,366,713.00

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2.00	CONDENSER WATER PIPING Modification and new piping in plant room up to cooling tower new location :Design, Supply, installation, testing and commissioning of MS class 'C' chilled water pipes of required lengths and installed with all welded joints, providing and fixing in position the necessary fittings like elbows, dummy, tees and reducers, sockets for probe, meter etc. 1. Piping in MS C Class pipes with all welded joints, necessary fittings like elbows, tees and reducers, mating flanges & sockets, pipes shall be provided with PUF blocks and 'U' clamps for proper positioning of pipes. 2. Distance between two supports should not exceed 2.5m 3. Flanges to be provided at a distance of 12mtr. Condensor pump will be placed near cooling tower. All civil works is in contractor scope. Agency shall obtain approval of GAD drawings from EIC before execution.				
2.10	350 MM along with 2 coat of redoxide and Two coat of enamel paint	160.00	Mtr	8607.00	1,377,120.00
2.20	250 MM along with 2 coat of redoxide and Two coat of enamel paint	42.00	Mtr	6400.00	268,800.00
2.30	150 MM along with 2 coat of redoxide and Two coat of enamel paint	42.00	Mtr	2957.00	124,194.00
2.40	100 MM along with 2 coat of redoxide and Two coat of enamel paint	18.00	Mtr	2380.00	42,840.00
3.00	SITC of CI Butterfly valves with , flanges, nuts, bolts and neoprene gasket etc.Valve should be suitable for 10 kg/Sq.cm. Pressure.				
3.10	Dia 250 mm - Gear Operated	10.00	Each	26,612.00	266,120.00
3.20	Dia 150 mm - Hand Operated	2.00	Each	11,667.00	23,334.00
3.30	Dia 100 mm Hand Operated	10.00	Each	7,946.00	79,460.00
3.40	Dia 50 mm Hand Operated	4.00	Each	4,507.00	18,028.00

4.00	Auto Air Vent Valves Providing and fitting Auto Vent Valves: 25 mm Ball valves for vent in each risers & common headers. 3/4" auto vent valves at each coil / riser/ header	5.00	Each	2,357.00	11,785.00
5.00	Supply, installation, testing & commissioning of Cooling Tower starter MCC Panel : Design, manufacture, supply, installation, testing and commissioning of MCC panel with the following:- Compartmental cubicle type fabricated out of 14G SWG CRCA sheets, duly powder coated in approved colour & shade, complete with base frame Separate compartment for each feeder, front operated, with appropriate cable entries, suitable for indoor application (IP -52) The LT motor control panel should be dust and vermin proof, draw out/hinged and lockable doors, complete with Al bus bar , indicating lamps , internal wiring, colour coding with ferrules, double compression cable glands, bonding to earth and painting. MCC Panel will be placed near the chiller. All outgoing shall be provided with start/Stop & Manual/ Auto selector switch to facilitate operation through BAS. All starters shall be provided with potential free Contact for Connections to Building Automation System. Agency shall obtain approval of GAD drawings from EIC before execution. 1 No. incoming MCCB of Suitable rating with rotary drive kit spreader link, built in microprocessor release for over current and earth fault protection - 4 POLE 400 Amps, 36 KA ICS=ICU, Digital Energy meter- Multi function meter on main incoming with RJ 45 internet port, Phase indicating LED lamps, Ammeter on main incoming and also for all outgoing feeders along with selector switches. Outgoing- 7 Nos.: 4 POLE 160Amps, 36 KA ICS=ICU microprocessor release type MCCB with rotary drive kit spreader link, over current and earth fault protection & 3 Ph. 415 star delta Starter Suitable for Cooling Tower Motor (approx. 18.5 Kw) with Interconnecting link, cable termination terminal blocks i/c control wiring, digital MF Meter with suitable ratio CTs, ON/OFF/Trip LED indication lamps etc.	1.00	Each	872,103.00	872,103.00
6.00	Electrical cable for Cooling tower				



6.10	Supply and Laying of one number PVC insulated and PVC sheathed / XLPE of 1.1 KV grade 3.5C x 35 Sqmm. aluminium conductor armoured power cable along with 6SWG dia G.I.earth wire (double Earthing for each tower) including end connection of earth wire in the existing HDPE pipe/cable tray/duct complete as required.	600.00	Mtr	426.00	255,600.00
6.20	Supplying and installing following size of perforated painted with powder coating GI cable trays/bends/Tee with perforation not more than 17.5%, in convenient sections, joined with tors, suspended from the ceiling with GI suspenders including bolts & nuts, painting suspenders etc as required. (a)600mm width X 75 mm depth X 2mm thickness	200.00	Mtr	2,089.00	417,800.00
6.30	Supplying and installing following size of perforated painted with powder coating GI cable trays /bend/Tee with perforation not more than 17.5%, in convenient sections, joined with tors, suspended from the ceiling with GI suspenders including bolts & nuts, painting suspenders etc as required. (a)150mm width X 50 mm depth X 1.6 mm thickness	100.00	Mtr	684.00	68,400.00
6.40	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. 3½ X 35 sq. mm	6.00	Set	1,506.00	9,036.00
7.00	Pumping system				
7.10	Design & SITC of the Pumps for Soft water pumps Pumping treated water to Over head cooling tower make up tank - 15 CMH@ suitable head along with Base frame 1 W + 1SBY. The pump with auto level logic to be used for pump operation. Agency shall obtain approval of GAD drawings from EIC before	2.00	Each	88,870.00	177,740.00
7.20	SITC of 50 MM dia GI B class pipe along with 2 coat of redoxide and two coat of enamel paint	60.00	Mtr	1,154.00	69,240.00
7.30	SITC of 150 MM dia GI B class pipe along with 2 coat of redoxide and two coat of enamel paint	154.00	Mtr	1,526.00	235,004.00

7.40	SITC of Butterfly valve Dia 50 mm -	6.00	Each	4,685.00	28,110.00
7.50	SITC of Non retrun valve- Dia 50 mm	2.00	Each	5,244.00	10,488.00
7.60	SITC of Y Stainer- Dia 50 mm	2.00	Each	5,259.00	10,518.00
7.70	SITC of Flexible Bellow 50 MM	4.00	Each	7,883.00	31,532.00
7.80	Design & SITC of the starter panel i/c foundation of suitable size for above two pumps mentioning BoQ item no 7.1 with KWH, V & A Meter: 1 No. incoming MCCB of Suitable rating with rotary drive kit spreader link, built in microprocessor release for over current and earth fault protection - 4 POLE 125 Amps, 25 KA ICS=ICU. 04 Outgoing of suitable rating MPCB along with Stat delta starter with Interconnecting link, cable termination terminal blocks i/c control wiring, digital MF Meter with suitable ratio CTs, ON/OFF/Trip LED indication lamps etc. Agency shall obtain approval of GAD drawings from EIC before execution.	1.00	Each	248,275.00	248,275.00
8.00	Supply & laying of 4 core 10 sqmm Cable Copper armoured including end termination along with gland for pumps along with 8 SWG double earthing in the existing HDPE pipe/cable tray/duct complete as required.	250.00	Mtr	656.00	164,000.00
9.00	Design & SITC of WATER SOFTENER with dual media filter with following specifications: 15 m3/hr water softening plant, Inlet Hardness 550 ppm, Total OBR 144 m3/day, 1 Nos Softener + 1 Nos dual media Filter, 2 Nos MSEP vessel, Brine Tank, Frontal Piping with manual Gunmetal Valve, 2 X 15 m3/hr pumps of 35 mtrs head with level sensor & auto electric control panel along with MS Foundation/Fabrication Work as per complete satisfaction of EIC. Agency shall obtain approval of GAD drawings from EIC before execution.	1.00	Job	1,627,092.00	1,627,092.00
10.00	Design & SITC of Auto Blowdown controller for cooling tower, solenoid valve manifold, control panel, ATC conductivity/TDS sensor along with complete Shed & MS Foundation/Fabrication Work as per complete satisfaction of EIC. Agency shall obtain approval of GAD drawings from EIC before execution.	1.00	Job	282,201.00	282,201.00
11.00	Design & SITC of MS Structure for all supportings & structural work, fabrication i/c primer coating & painting as per site works like storage etc as per directions of EIC.	4000.00	Kg	140.00	560,000.00

12.00	Design, supply, installation, testing and commissioning of 5000 Ltrs PVC overhead tanks i/c fabrication of structure of suitable capacity etc as required.	1.00	Each	68,408.00	68,408.00
13.00	Supply Installation, Testing and commissioning of the Earth Pit : Earthing with GI earthplate 600 x 600 x 6 MM thick including all accessories and providing necessary masonry enclosure with cover plate having locking arrangements and water piping of 2.7 Mtrlong etc with Charcoal/coke and salt as required	4.00	Each	33,521.00	134,084.00
14.00	SITC of suitable length of earthing 25 mm x 5 mm GI MM Strip in 40 MM dia GI pipe from earth electrode including connection with GI nut bolts spring, washer, excavation and refilling etc, as required	50.00	Mtrs	1,055.00	52,750.00
15.00	Dismantelling & Reinstallation of existing installed 300 TR Capacity cooling tower including all accessories & fix it over a new civil foundation suitable to withstand the weight of cooling tower along with necessary dummy joints in old pipe. (All civil foundation works is in contractor scope). Loading, Unloading, lifting, shifting, carriage to site and any other activity is in contractor scope.	1.00	Job	99,224.00	99,224.00
TOTAL				11,999,999.00	

(Rupees One corer nineteen Lacs ninety nine thousand nine hundred and ninety nine Only)

* GST Extra as Applicable

Signature Not Verified

Digitally signed by TANAJI CHANDRAKANT KAMBLE
Date: 2023.03.23 11:02:10 IST
Location: eProcurement System for Central PSUs

सं.म.प्र. (अभि-विद्युत) / Jt. GM (Engg. -Elect
भा.वि.प्रा., पुणे हवाई अड्डा, पुणे / AAI, Pune Airport, Pune