

भारतीय विमानपत्तन प्राधिकरण

पश्चिमी क्षेत्र मुख्यालय

संदर्भ सं.: भाविप्रा/पक्षे/मुम्बई/समप्र(अभि-वि.)-एटीएस/सीडब्ल्यू/काआ-09/2025-26/23
Ref.No.: AAI/WR/MUM/AGM(E-E)-ATS/CW/WO-09/2025-26/23



AIRPORTS AUTHORITY OF INDIA

WESTERN REGION HQRS.

दिनांक : 16.03.2026

Date: 16.03.2026

रजिस्टर्ड डाक /स्वीकृति

प्रति, / To,

मेसर्स.नेटवर्क टेकलैब (इंडिया) लिमिटेड, / M/s. Network Techlab (India) Limited.,

41, सर्वोदय इंडिस्ट्रियल इस्टेट, / 41, Sarvodaya Industrial Estate,

महाकाली गुफा रोड, / Off. Mahakali Caves Road,

अंधेरी (पूर्व), मुंबई - 400 093 / Andheri (East), Mumbai - 400 093

विषय/Sub : "मुंबई स्थित छ.शि.म.अं. हवाई अड्डे के परिचालन क्षेत्र में स्थित एलडीएस-I और एलडीएस-II में एअर कंडीशनिंग-में सुधारा" / "Improvement of Air-conditioning at ELDIS-I and ELDIS-II at Operational Area at C.S.M.I. Airport, Mumbai."

संदर्भ: 1. आपका वित्तीय बोली द्वारा निविदा आईडी : 2025_भाविप्रा_259097_1 दिनांक 03.02.2026 को खुला।

Ref.: 1. Your Financial Bid vide Tender ID.: 2025_AAI_259097_1 opened on 03.02.2026.

2. भाविप्रा का आशय का पत्र संख्या : भाविप्रा/पक्षे/मुम्बई/सहा.म.प्र.(अभि-वि.)-एटीएस/सीडब्ल्यू/एलओआय/2025-26 दिनांक 25.02.2026 / AAI's letter of Intent No. AAI/WR/MUM/A.G.M.(E-E)-ATS/CW/LOI/2025-26 Dated.25.02.2026.

महोदय / Dear Sir,

- उपरोक्त कार्य के लिए आपकी निविदा अध्यक्ष, भारतीय विमानपत्तन प्राधिकरण की ओर से आपके द्वारा उद्धृत मद दरों पर स्वीकार की जाती है जो कुल रु. 88,41,806.30 (रुपये अठ्ठासी लाख इकतालीस हजार आठ सौ छह और तीस पैसे मात्र) (जीएसटी रहित), जो निविदा में रखी गई अनुमानित लागत रु. 1,33,14,766.00 (जीएसटी रहित) से 33.59% नीचे है। वैध टैक्स चालान के खिलाफ जीएसटी का भुगतान किया जाएगा। कृपया कर चालान में महाराष्ट्र राज्य के लिए AAI GST no. 27AAACA6412D1Z8 उद्धृत करें।
- 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. 88,41,806.30 (Rupees Eighty Eight Lakhs Forty One Thousand Eight Hundred Six and Paise Thirty only) (Excluding GST) which is 33.59% below the estimated cost put to tender of Rs. 1,33,14,766.00 (Excluding GST). GST will be paid against Valid Tax invoice. Please quote AAI GST no.27AAACA6412D1Z8 for Maharashtra State in Tax Invoice.
- सहायक महाप्रबंधक (अभि. विद्युत), भाविप्रा, एटीएस कॉम्प्लेक्स, मुंबई कार्य के प्रभारी अभिर्यता होंगे। आपसे अनुरोध है कि आप सहायक महाप्रबंधक (अभि. विद्युत), भाविप्रा, एटीएस कॉम्प्लेक्स, मुंबई के कार्यालय में दिनांक 31.03.2026 तक उपस्थित रहकर हस्ताक्षर करने तथा करार की कार्यवाही पूर्ण करने का कष्ट करें। ठेका करार का निष्पादन 100/- रुपये (केवल एक सौ रुपये) के गैर-न्यायिक स्टैम्प पेपर पर किया जाएगा तथा स्टैम्प पेपर का खर्च आपके द्वारा वहन किया जाएगा।
- Asstt.General Manager (Engg.-E.), AAI, ATS Complex, Mumbai shall be the Engineer-In-Charge of the work. You are requested to attend the office of the Asstt.General Manager (Engg.-E.), AAI, ATS Complex, Mumbai by 31.03.2026 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) and the cost of the stamp paper shall be borne by you.
- आपसे अनुरोध है कि इस पत्र के जारी होने की तिथि से 15 दिनों के भीतर निष्पादन गारंटी जो टेंडर राशि के 5% है को प्रस्तुत करें अथवा इस पत्र के जारी होने की तिथि से 10 दिनों के भीतर सुरक्षा राशि जो टेंडर राशि के 10 % है को प्रस्तुत करें, अन्यथा अनुबंध के पृष्ठ 58 पर शर्त के अनुसार आपके बिल से काटा जाएगा।
- You are requested to furnish performance guarantee @ 5% of tendered amount within 15 days from the date of issue of this letter or furnish security deposit @ 10% of tendered amount within 10 days from the date of issue of this letter, failing which the same will be deducted from your bill as per condition on page 58 of the contract document.

16/03/26

CONTD. 2/-

सहायक महाप्रबंधक (अभि-विद्युत)
Asstt. Gen Manager (Engg.-E.)
भारतीय विमानपत्तन प्राधिकरण, एटीएस कॉम्प्लेक्स
Airports Authority of India, A.T.S. Complex,

4. आपसे अनुरोध है कि ठेका श्रम (विनियमन और उन्मूलन) अधिनियम 1970 और ठेका श्रम (विनियमन और उन्मूलन) केंद्रीय नियमावली 1971 और केंद्रीय एवम राज्य सरकारों के न्यूनतम वेतन तथा उससे संबंधित अन्य नियमों के प्रावधानों का पालन 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 of central and state Governments with its upto date amendments thereof.
5. आपको यह भी निर्देश दिया जाता है कि आप तुरंत प्रबंधक (अभि.वि.), भाविप्रा, एटीएस कॉम्प्लेक्स, मुंबई से संपर्क करें जो आपको साइट सौंपने की व्यवस्था करेंगे।
5. You are also directed to contact Manager (Engg.-E.), AAI, ATS Complex, Mumbai immediately who will arrange to hand over the site to you.
6. कृपया यह भी नोट कर ले कि निविदा के अनुसार कार्य निष्पादन हेतु अनुमत समय **03 (तीन) माह** है, जिसकी गणना **26.03.2026** से **25.06.2026** तक की जाएगी।
6. Please note that the time allowed for carrying out the work is **03 (Three) months**, which shall be reckoned from **26.03.2026** to **25.06.2026**.
7. इस ठेके के संबंध में कोई और पत्राचार सामान्य रूप से सहायक महाप्रबंधक (अभि.विद्युत), भाविप्रा, एटीएस कॉम्प्लेक्स, मुंबई को संबोधित किया जाना चाहिए।
7. Any further correspondence in connection with the contract should normally be addressed to the Asstt. General Manager (Engg.-E.), AAI, ATS Complex, Mumbai.
8. ऊपर उल्लिखित सभी पत्र अनुबंध का हिस्सा होंगे।
8. All the letters referred above shall form part of contract.
9. कृपया इस पत्र की प्राप्ति सूचना दें तथा इसके साथ संलग्न अनुप्रति पर हस्ताक्षर करके टोकन के प्रतिग्रहण के रूप में अधोहस्ताक्षरी को वापस भेजें।
9. 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.
10. कार्य आदेश के संबंध में किसी प्रकार की टंकनीय त्रुटि/विसंगति होने पर अंग्रेजी संस्करण मान्य होगा।
10. With reference to this work order, if in case of any typographical mistake / discrepancy arise, the English version shall prevail.

धन्यवाद, / Thanking You,

भवदीय / Yours faithfully,

मि. 16/03/26

सहायक महाप्रबंधक (अभि. विद्युत),
Asstt. General Manager (Engg.-E.),

कृते तथा ओर से, अध्यक्ष, भारतीय विमानपत्तन प्राधिकरण
For and on behalf of Chairman, Airports Authority of India

संलग्न/Encl.: 1. मात्रा का बिल (बी.ओ.क्यू.) / Bill of Quantities (B.o.Q.)

सहायक महाप्रबंधक (अभि. विद्युत)
Asstt. Gen. Manager (Engg.-E.)
भारतीय विमानपत्तन प्राधिकरण, एटीएस कॉम्प्लेक्स
Airports Authority of India, A.T.S. Complex
मुंबई/Mumbai - 400 019

AIRPORTS AUTHORITY OF INDIA
Engineering Electrical Wing, ATS Complex, Mumbai - 400 066.

Name of Work : "Improvement of Air-conditioning at ELDIS-I and ELDIS-II at Operational Area at C.S.M.I. Airport, Mumbai." (Tender ID.: 2025_AA_259097_1)

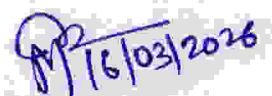
Bill of Quantities (B.O.Q.)

Sr. No.	Description of Items	Quantity	Unit	Rate (Excluding GST) Rs. P	Amount (Excluding GST) Rs. P
	SH - A : S.I.T.C. of P.A.C.				
1	Supply of following capacity Floor Mounted, Top discharge and front return Air Cooled type Precision Air Conditioners - The indoor units shall comprise of: stepless variable capacity Digital/Inverter scroll compressor, Min Two Sided Double skin side panels, with Class "D" Glasswool insulation. Top discharge type complete with dynamically balanced composite material fan driven by Electronically Commutated (EC) motor, hydrophilic coated want/fan coiling coil. The unit shall be equipped with high efficiency Filters(G4), micro processor based programmable logic controller, liquid receiver, Expansion Valve, Drivers, suction and discharge piping, Internal power & control wiring, Water leak detector sensor, SS drain tray with nitrile rubber insulation. Stainless steel strip Heater, Infrared steam humidifier. Power and Control contactors and Other Electrical accessories. Provision to communicate with the BMS monitoring system through RS 485 communications protocol. The Outdoor Condenser units shall comprise of Condenser fans & motor, Condenser cooling coil with anti-corrosive coating (Copper coil with aluminium fins), Fan speed controller, Isolator switch. The outdoor unit shall be selected at min. 38 Deg.C of ambient temperatures with R-410A Refrigerant Gas. The units shall be suitable for operation on 415 Volts, 50 Hz, 3 Phase, 4 Wire AC supply. Each unit should be having individual display panel, which shall display date, time, actual & set values, operating conditions, signal faults, collective faults, limiting values and unit wellness alarm / service alarm to reduce the down time and unit memory shall hold the 400 most recent events with ID number, time and date stamp for each event. Operational & Control Features - Supply Air Set points & Operational Capabilities: 20 Deg.C +/- 2 Deg.C, 40% to 70% RH - Return Air Set points & Operational Capabilities: 22 Deg.C to 38 Deg.C, 20% to 60% RH - P / PI / PID - All three Control logics for temperature control - Relative / Compensated / Predictive method for humidity control - Temperature & Humidity graphs for the system (Avg. value of all the connected units) & (or each single unit) - Record of Peak & Low temperature/humidity of the current day - Display shows SET / ACTUAL / SET+ACTUAL Values - Records total run hours for all main components - Team Mode operation for synchronising all machines in room without any external controller - Sequencing & Stand-by rotation - Cascading, Load-Lag functions - Min. 16 days record of controlled parameters - Unit memory shall hold min. 200 recent alarms with date and time for each alarm - Status report of last 400 event logs 3 types of access, User, Service & Advanced to protect all settings - Auto restart after a power failure - Graphical display of status of operation of all major components like Compressor, Fan, Heater & Humidifier on screen in an idle mode				
i)	15.0 TR Total cooling capacity with minimum airflow of 16000 CMH, at minimum 20 Pa ESP, Return Air as temperature at 28 +/-2 Deg.C DB & 45% +/-5 RH (Non Condensing). (Note : The Supply of PAC Units followed by its installation are to be carried in the Operational Area of CSMI Airport, Mumbai. Required Tools, Machinery, permissions, Passes, etc. are to be arranged by the Agency).	3 Nos.	Each	877450.00	2632350.00
ii)	11.0 TR (or Equivalent) Total cooling capacity with minimum airflow of 16000 CMH, at minimum 20 Pa ESP, Return Air as temperature at 28 +/-2 Deg.C DB & 45% +/-5 RH (Non Condensing).	3 Nos.	Each	970120.00	2910360.00
	SH - B : Installation, Testing & Commissioning of PAC System				
2	Installation, testing, and commissioning of 15.0 TR capacity Floor Mounted, Top discharge and front return type Air Cooled type Precision Air Conditioners including supply & fixing suitable adjustable GI/MS stands with rubber pad for each outdoor unit to dimension as specified / recommendation of O.E.M. (for Indoor and Outdoor units) including wiring, connection & interconnection making suitable for operation complete as required. Provision of Suitable Outdoor stand as per site including civil work if required for fixing of the stand. (Note: The Work is to be carried out in the Operational Area of C.S.M.I. Airport, Mumbai)	3 Jobs	Job	52858.60	158575.80
3	Installation, testing, and commissioning of 11.0 TR capacity Floor Mounted, Top discharge and front return type Air Cooled type Precision Air Conditioners including supply & fixing suitable adjustable GI/MS stands with rubber pad for each outdoor unit to dimension as specified / recommendation of O.E.M. (for Indoor and Outdoor units) including wiring, connection & interconnection making suitable for operation complete as required. Provision of Suitable Outdoor stand as per site including civil work if required for fixing of the stand. (Note: The Work is to be carried out in the Operational Area of C.S.M.I. Airport, Mumbai)	3 Jobs	Job	47108.00	141324.00

महासक महाप्रबंधक (अभि. विद्युत)
Asstt. Gen. Manager (Engg.-E)
भारतीय विमानपत्तन प्राधिकरण, ए.टी.एस. कॉम्प्लेक्स
Airports Authority of India, A.T.S. Complex,
मुम्बई/Mumbai - 400 099.

Sr. No.	Description of Items	Quantity	Unit	Rate (Excluding GST) Rs. P	Amount (Excluding GST) Rs. P
4	Supply, installation, testing of 18 SWG hard drawn copper refrigerant piping of sizes as per O.E.M. standard with insulation for precision units with proper "U" traps in piping for required length. All refrigerant piping along within conditioned space shall be provided with 9 mm. Class 'O' Nitril Rubber insulation while rest pipework shall be provided with Nitrile Rubber Insulation & Anticorrosive coating and supports, between indoor and outdoor units. Each running meter of one circuit includes one meter of copper pipe (inlet & outlet), necessary supports, fittings, insulation, Thermogaurd coating, etc. and should connect the Indoor to the outdoor as per locations. (Including extension kit if required)	60 Metres	Meter	3523.60	211416.00
5	Supply & installation of Motorized Damper with Actuator (of sufficient torque) & necessary control cablings for ON/OFF operation by interfacing with indoor unit operation and to be installed on indoor machines on Return Air path.	6 Nos.	Each	23916.00	143496.00
6	Sequencing & logic control necessary timers and logic control for automatic start-stop of the unit, with necessary timers and logic control for automatic start-stop of the unit. Logic should include orderly restart after power failure.	6 Lots	Lot	3523.60	21141.60
7	Supply and fixing Perforated GI trays (With maximum 50% perforation) with necessary support and cove-top for Refrigerant Pipes of of following Size in (mm) (Provision of clamp/fixing arrangement are to be provided for the vertical sections)				
i)	Width: 300 mm. x Height: 75 mm. x Thickness: 1.0 mm.	40 Metres	Meter	1226.00	49040.00
ii)	Width: 150 mm. x Height: 50 mm. x Thickness: 0.7 mm.	30 Metres	Meter	655.60	19668.00
8	Supply & installation of following size GI Class "B" Drain Pipe with 9 mm. thickness Nitrile rubber insulation with including all accessories complete as required:				
i)	40 mm. diameter	30 Metres	Meter	669.00	20070.00
9	Supply and laying of 3C x 2.5 Sq.mm. Cu. Flexible cable (Indoor to outdoor unit) on existing cable tray or surface as directed by EIC.	75 Metres	Meter	270.60	20295.00
10	Supply & charging of Refrigerant Gas (R-410A) for the compressor for the 100 % rating and equivalent copper pipe length between Indoor & Outdoor Unit along with required oil for commissioning.	150 Kgs.	Kg.	1127.00	169050.00
11	Supply and laying of Size 4C x 16 Sq.mm. armoured Copper cable from Incoming Isolator Panel to Indoor Unit on existing cable tray or surface as directed by EIC.	60 Metres	Meter	990.10	59406.00
	SH - C : Supply and Fixing of G.I. duct /c insulation and New Diffusers/ Grills.				
12	Supply, installation, balancing and commissioning of fabricated at site GSS sheet metal rectangular/round ducting complete with neoprene rubber gaskets, elbows, splitter dampers, vanes, hangers, supports, etc. as per approved drawings and specifications of following sheet thickness complete as required.				
i)	Thickness 0.63 mm. sheet (24 Gauge)	20 Sq.Mtrs.	Sq.Mtr.	1897.50	37950.00
13	Dismantling of Existing 15 TR floor mounted PAC units (IDU and ODU) from ELDIS -II and Transporting of the same to ATS Complex. All Required Tools & plants, Vehicle with driver, Labours for loading and unloading, etc.	3 Nos.	Each	22000.65	66001.95
14	Dismantling of Existing 15 TR floor mounted Package Unit from ELDIS -I and Transporting of the same to ATS Complex. All Required Tools & plants, Vehicle with driver, Labours for loading and unloading, etc.	3 Nos.	Each	22000.65	66001.95
	SH-D :- (A.I.C.M.C. - Annual Comprehensive Maintenance Contract of PAC)				
15	Annual Comprehensive Maintenance Contract of above Floor mounted PAC i.e 6 Nos. (03 nos. 15 TR and 03 Nos. 11 TR) above work after completion of defect liability period of one year. The scope of work during C.M.C. Period shall be as per technical specifications. For First Year	12 Months	Month	31907.00	382884.00
16	Annual Comprehensive Maintenance Contract of above Floor mounted PAC i.e 6 Nos. (03 nos. 15 TR and 03 Nos. 11 TR) above work after completion of defect liability period of one year. The scope of work during C.M.C. Period shall be as per technical specifications. For Second Year	12 Months	Month	33502.00	402024.00
17	Annual Comprehensive Maintenance Contract of above Floor mounted PAC i.e 6 Nos. (03 nos. 15 TR and 03 Nos. 11 TR) above work after completion of defect liability period of one year. The scope of work during C.M.C. Period shall be as per technical specifications. For Third Year	12 Months	Month	35177.00	422124.00
18	Annual Comprehensive Maintenance Contract of above Floor mounted PAC i.e 6 Nos. (03 nos. 15 TR and 03 Nos. 11 TR) above work after completion of defect liability period of one year. The scope of work during C.M.C. Period shall be as per technical specifications. For Fourth Year	12 Months	Month	36936.00	443232.00

सहायक महाप्रबंधक (अभि. विद्युत)
 Asstt. Gen. Manager (Engg.-E)
 भारतीय विमानपत्तन प्राधिकरण, ए.टी.एस. कॉम्प्लेक्स
 Airports Authority of India, A.T.S. Complex,
 मुम्बई/Mumbai - 400 099.

Sr. No.	Description of Items	Quantity	Unit	Rate (Excluding GST) Rs. P	Amount (Excluding GST) Rs. P
19	Annual Comprehensive Maintenance Contract of above Floor mounted PAC i.e 6 Nos. (03 nos. 15 TR and 03 Nos. 11 TR) above work after completion of defect liability period of one year. The scope of work during C.M.C. Period shall be as per technical specifications For Fifth Year	12 Months	Month	38783.00	465396.00
				Total Rs.	8841806.30
[Total Rupees : Eighty Eight Lakhs Forty One Thousand Eight Hundred Six and Paise Thirty only] excluding GST					
 Asstt. General Manager (E-E) A.A.I., ATS Complex, Mumbai.					

महायक महाप्रबंधक (अभि-विद्युत)
Asstt. Gen. Manager (Engg.-E)
भारतीय विमानपत्तन प्राधिकरण, ए.टी.एस. कॉम्प्लेक्स
Airports Authority of India, A.T.S. Complex,
मुम्बई/Mumbai - 400 099.

Validate

Print

Sign

Item Rate BoQ

Tender Inviting Authority: Asstt. General Manager (Engg.-Elect.), ATS Complex, Mumbai.

Name of Work: "Improvement of Air-conditioning of ELDIS-4 and ELDIS-41 at Operational Area of C.S.M. Airport, Mumbai."

Contract No.: MUMBAI/ATS/ENG-E/E/WT-04/2025-26

NUMBER #	TEXT #	TEXT #	NUMBER #	TEXT #	NUMBER #	NUMBER #	TEXT #
Sl. No.	Item Description	Item Code / Make	Quantity	Units	BASIC RATE in Figures To be entered by the Bidder (Excluding GST) Ru. P.	TOTAL AMOUNT (Excluding GST) in Figures Rs. P.	TOTAL AMOUNT (Excluding GST) in Words
1	2	3	4	5	6	7	8
1	SH - A : S.I.T.C. of P.A.C.						
2	Supply of following capacity Floor Mounted, Top discharge and front return Air Cooled type Precision Air Conditioners. The indoor units shall comprise of: stepless variable capacity Digital Inverter scroll compressor, Min. Two Speed Deceleration start panels, with Class "D" glasswool insulation, Top discharge type complete with dynamically balanced composite material fan driven by Electronically Commutated (EC) motor, hydrophilic coated start/fan cooling coil. The unit shall be equipped with high efficiency filters(G4), micro processor based programmable logic controller, liquid receiver, Expansion Valve, Drivers, suction and discharge piping, Internal power & control wiring, Water leak detector sensor, 55 drain tray with milim rubber insulation, Stainless steel strip heater, Infrared steam humidifier, Power and Control contacts and Other Electrical accessories. Provision to communicate with the BMS monitoring system through RS 485 communications protocol. The Outdoor Compressor unit shall comprise of Condenser Fans & Motor, Compressor cooling coil with anti-corrosive coating (Copper coil with aluminium fins), Fan speed controller, Isolator switch. The outdoor unit shall be protected at not less than 30 Deg C of ambient temperature with R-410A Refrigerant Gas. The units shall be suitable for operation on 415 Volts, 50 Hz, 3 Phase, 4 Wire AC supply. Each unit should be having individual display panel, which shall display date, time, actual & set values, operating conditions, digital faults, collector faults, limiting values and unit wellness alarm / service alarm to reduce the down time and unit memory shall hold the 400 most recent events with ID number, time and date stamp for each event. Operational & Control Features: Supply Air Set points & Operational Capabilities: 20 Deg.C +/- 2 Deg.C, 40% to 70% RH Return Air Set points & Operational Capabilities: 22 Deg.C to 28 Deg.C, 20% to 60% RH P / H / HQ - All three Control logics for temperature control. Relative / Compensated / Predictive method for humidity control. Temperature & Humidity graphs for the system (Avg. value of all the connected unit) & for each single unit. Record of Peak & Low temperature/humidity of the current day. Display shows SET / ACTUAL / SET+ACTUAL Values. Records total run hours for all main components. Team Mode operation for synchronising all machines in room without any external controller. Sequencing & Stand-by rotation. Capacating / Load-Lag functions. Min. 16 days record of controlled parameters. Unit memory shall hold min. 200 recent alarm with date and time for each alarm. Status report of real-time logs. 24 hours of access User, Service & Advanced to protect all settings. Auto restart after a power failure. Detailed drawings of status of operation of all major components like Compressor, Fan, Heaters & Humidifiers are stored in the unit. (Note: The Supply of PAC Units followed by its installation are to be carried out in the Operational Area of CSM Airport, Mumbai. Required Permits, Machinery, permits etc. are to be arranged by the Agency)	Item No.1.i	3	Each	877450.00	2632350.00	INR Twenty Six Lakh Thirty Two Thousand Three Hundred & Fifty Only
4	1123.0 TR (or Equivalent) Total cooling capacity with minimum airflow of 10000 CMH, at minimum 20 Pa ESP, Return Air at temperature of 28 +/-2 Deg.C DB & 45% +/-5 RH (non Conditioning). (Note: The Supply of PAC Units followed by its installation are to be carried out in the Operational Area of CSM Airport, Mumbai. Required Permits, Machinery, permits etc. are to be arranged by the Agency)	Item No.1.ii	3	Each	870420.00	2610360.00	INR Twenty Nine Lakh Ten Thousand Three Hundred & Sixty Only
5	SH - B Installation, Testing & Commissioning of PAC System						
6	Installation, testing, and commissioning of 13.0 TR capacity Floor Mounted, Top discharge and front return type Air Cooled type Precision Air Conditioners including Supply & Piping with BMS ANTI-LEAK SLIME stands with rubber pad for each outdoor unit to dimension as specified / recommended of D.E.M. (for indoor and Outdoor units) including wiring, connection & interconnection making outside the operation possible as required. Provision of Suitable Outdoor stand as per site including civil work if required for fixing of the stand. (Note: The Work is to be carried out in the Operational Area of C.S.M. Airport, Mumbai)	Item No.2	3	Job	52858.60	158575.80	INR One Lakh Fifty Eight Thousand Five Hundred & Seventy Five and Paise Eighty Only
7	Installation, testing, and commissioning of 11.0 TR capacity Floor Mounted, Top discharge and front return type Air Cooled type Precision Air Conditioners including Supply & Piping system with BMS stands with rubber pad for each outdoor unit to dimension as specified / recommended of D.E.M. (for indoor and Outdoor units) including wiring, connection & interconnection making outside the operation possible as required. Provision of Suitable Outdoor stand as per site including civil work if required for fixing of the stand. (Note: The Work is to be carried out in the Operational Area of C.S.M. Airport, Mumbai)	Item No.3	2	Job	47108.00	141324.00	INR One Lakh Forty One Thousand Three Hundred & Twenty Four Only
8	Supply, installation, testing of 15 SWG hard drawn copper / aluminium piping, of size as per O.E.M. standard with insulation for pressure vessels with proper "U" traps in piping for required length. All refrigerant piping along with condensation space shall be provided with 10 mm Class "D" Milil rubber insulation, heat glasswool wool, the provided with 30mm Insulator insulation & Refrigerant coating and augmented between indoor and outdoor units. Each running meter of one circuit includes one meter of copper pipe (indoor & outdoor), necessary supports, fittings, insulation, Chromoguard coating, etc. and should connect the indoor to the outdoor as per location. (Including extension kit if required)	Item No.4	60	Meter	3523.60	211416.00	INR Two Lakh Eleven Thousand Four Hundred & Sixteen Only

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Airports Authority of India, A.T.S. Complex,
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9	Supply & Installation of Motorised Damper with Actuator (of sufficient thrust) & necessary control wiring for On/Off operation by interfacing with indoor unit operation and to be installed on indoor machines on Return Air path.	Item No.5	6	Each	23916.00	143496.00	INR One Lakh Forty Three Thousand Four Hundred & Ninety Six Only
10	Sequencing & logic control necessary timers and logic control for automatic start-stop of the unit with necessary limits and logic control for automatic start-stop of the unit (Logic and/or master control reset) After power failure.	Item No.6	6	Lm	3523.60	21141.60	INR Twenty One Thousand One Hundred & Forty One and Paise Sixty Only
11	Supply and fixing Particulate Filters (With maximum 50% perforation) with necessary support and bracket for Refrigerant Pipes (If of following size in mm). (Provision of clamping arrangement are to be provided for the vertical sections)	Item No.7 i)	40	Meter	1226.00	49040.00	INR Forty Nine Thousand & Forty Only
12	i) Width: 300 mm x Height 25 mm x Thickness 1.0 mm.	Item No.7 ii)	30	Meter	656.00	19668.00	INR Nineteen Thousand Six Hundred & Sixty Eight Only
13	ii) Width: 150 mm x Height 50 mm x Thickness 0.7 mm						
14	Supply & Installation of following size of Class "B" Drain Pipe with 9 mm thickness White rubber insulation with including all accessories complete as required.	Item No.8 i)	30	Meter	669.00	20070.00	INR Twenty Thousand & Seventy Only
15	i) 45 mm diameter	Item No.8 ii)	75	Meter	270.00	20295.00	INR Twenty Thousand Two Hundred & Ninety Five Only
16	Supply and laying of 3C x 2.5 Sq.mm Cu. Flexible cable (Indoor to outdoor unit) on existing cable tray or surface as directed by EC.	Item No.10	150	Kg	1127.00	168050.00	INR One Lakh Sixty Nine Thousand & Fifty Only
17	Supply & charging of Refrigerant Gas (R-410A) for the compressor for the 100 % rating and equivalent copper pipe length between indoor & outdoor unit along with required oil for commissioning.	Item No.11	60	Meter	990.10	59406.00	INR Fifty Nine Thousand Four Hundred & Six Only
18	Supply and laying of Size 4C x 16 Sq.mm armoured Copper cable from incoming source Panel to indoor Unit on existing cable tray or surface as directed by EC.						
19	SM - C - Supply and fixing of G.I. duct 1/2" insulation and New Diffusers/ Grills.						
20	Supply, installation, tapping and commissioning of fabricated 30 Hk CSS sheet metal rectangular/round ducting complete with neoprene rubber gaskets, elbows, square dampers, Vents, hangers, supports, etc. as per approved drawings and specifications of following sheet metal ducting complete as required.	Item No.12 i)	20	Sq.Mtr.	1997.50	37950.00	INR Thirty Seven Thousand Nine Hundred & Fifty Only
21	i) Thickness 0.63 mm, sheet (24 Gauge)						
22	Dismantling of Existing 15 TR floor mounted PAC unit (IDU and ODU) from ELDIS II and Transporting of the same to ATS Complex. All Required Tools & plants, Vehicle with driver, Labour for loading and unloading, etc.	Item No.13	3	No.	22000.85	66001.95	INR Sixty Six Thousand & One and Paise Ninety Five Only
23	Dismantling of Existing 15 TR floor mounted Package Unit from ELDIS-I and Transporting of the same to ATS Complex. All Required Tools & plants, Vehicle with driver, Labour for loading and unloading, etc.	Item No.14	3	No.	22000.85	66001.95	INR Sixty Six Thousand & One and Paise Ninety Five Only
24	SHD - (A) C.M.C. - Annual Comprehensive Maintenance Contract of PAC						
25	Annual Comprehensive Maintenance Contract of above floor mounted PAC i.e 6 Nos. (03 nos. 15 TR and 03 Nos. 11 TR) above work after completion of defect liability period of one year. The scope of work during C.M.C. Period shall be as per technical specifications For first Year.	Item No.15	12	Month	31907.00	382884.00	INR Three Lakh Eighty Two Thousand Eight Hundred & Eighty Four Only
26	Annual Comprehensive Maintenance Contract of above floor mounted PAC i.e 6 Nos. (03 nos. 15 TR and 03 Nos. 11 TR) above work after completion of defect liability period of one year. The scope of work during C.M.C. Period shall be as per technical specifications For Second Year.	Item No.16	12	Month	33502.00	402024.00	INR Four Lakh Two Thousand & Twenty Four Only
27	Annual Comprehensive Maintenance Contract of above floor mounted PAC i.e 6 Nos. (03 nos. 15 TR and 03 Nos. 11 TR) above work after completion of defect liability period of one year. The scope of work during C.M.C. Period shall be as per technical specifications For Third Year.	Item No.17	12	Month	35177.00	422124.00	INR Four Lakh Twenty Two Thousand One Hundred & Twenty Four Only
28	Annual Comprehensive Maintenance Contract of above floor mounted PAC i.e 6 Nos. (03 nos. 15 TR and 03 Nos. 11 TR) above work after completion of defect liability period of one year. The scope of work during C.M.C. Period shall be as per technical specifications For Fourth Year.	Item No.18	12	Month	36936.00	443232.00	INR Four Lakh Forty Three Thousand Two Hundred & Thirty Two Only
29	Annual Comprehensive Maintenance Contract of above floor mounted PAC i.e 6 Nos. (03 nos. 15 TR and 03 Nos. 11 TR) above work after completion of defect liability period of one year. The scope of work during C.M.C. Period shall be as per technical specifications For Fifth Year.	Item No.19	12	Month	38783.00	465396.00	INR Four Lakh Sixty Five Thousand Three Hundred & Ninety Six Only
Total in Figures						8844806.30	INR Eighty Eight Lakh Forty One Thousand Eight Hundred & Six and Paise Thirty Only
Quoted Rate in Words						INR Eighty Eight Lakh Forty One Thousand Eight Hundred & Six and Paise Thirty Only	

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सहायक महाप्रबन्धक (ऑप. विद्युत)
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