



भाविप्रा /औ'बाद/अभि.-वि/कैप/23-24/डब्लू -03/ 422-32
AAI/AU/Engg-E/CAP/23-24/W-03/

दिनांक: 19.12.2023

Date: 19.12.2023

सेवा में,
मेसर्स इंजेनियर्स इन्डस्ट्रीज
शॉप नं 8, राजा प्रेसिडेन्सी,
पेठ रोड, पंचवटी,
नाशिक - 422 003.

To,
M/s Ingenious Industries,
Shop No.8, Raja Presidency,
Peth Road, Panchvati,
Nashik -422 003

(PAN No. AADFI4734Q)
GST No. 27AADFI4734Q1ZV

कार्य का नाम : औरंगाबाद हवाई अड्डे पर मौजूदा टर्मिनल भवन का पुनःनिर्माण। उपशीर्ष: एएचयू, डक्टिंग, पाइपिंग और विविध कार्य।

Reconfiguration of Existing Terminal Building at Aurangabad Airport. SH: AHU, Ducting, Piping & Miscellaneous works.

संदर्भ : 1) निविदा आई.डी संख्या : 2023_AAI_175869_1

2) आपकी ई -निविदा जो दिनांक 12.12.2023 को खोली.

महोदय,/ Dear Sir (S),

1. उल्लिखित कार्य हेतु आपकी ई - निविदा अध्यक्ष, भारतीय विमानपत्तन प्राधिकरण की और से आपके द्वारा बताए गये मद मूल्यों पर रु. 68,81,111.00 (रु. अड़सठ लाख एकाअसी हजार एक सौ ग्यारह मात्र) (जी एस टी अतिरिक्त) के लिये स्वीकृत की जाती है जो कि अनुमानित लागत राशि रु. 1,06,08,157.00 से 35.13 % कम 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.68,81,111.00** (Rupees Sixty Eight Lakh Eighty One Thousand One Hundred & Eleven Only) (Excluding GST) which is **35.13%** below the justification cost put to tender of **Rs.1,06,08,157.00**.

2. वरि. प्रबंधक (अभियांत्रिकी- विद्युत), भाविप्रा, औरंगाबाद हवाईअड्डा, महाराष्ट्र कार्य के प्रभारी अभियंता होंगे, आपसे निवेदन है कि, आप दिनांक 29.12.2023 तक वरि. प्रबंधक (अभियांत्रिकी- विद्युत), भाविप्रा, औरंगाबाद हवाईअड्डा, औरंगाबाद, के कार्यालय में उपस्थित हों तथा करारनामे को पुरा करें. ठेके के करार नामा रुपये 100/- के नोनजुडिशियल स्टैम्प पर निष्पादित किया जायेगा तथा पेपर का खर्चा आपके द्वारा उठाया जायेगा.

Senior Manager (E-E), AAI, Aurangabad Airport, Maharashtra, shall be the Engineer -In -Charge of the work. You are requested to attend the office of Senior Manager (E-E), AAI, Aurangabad Airport by 29.12.2023 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) and the cost of the stamp paper shall be borne by you.

19/12/23

विमानक्षेत्र नियंत्रक का कार्यालय, भा.वि.प्रा., औरंगाबाद, दूरभाष : (0240) 2477802,

O/O The Airport Director, AAI, Aurangabad. Phone No: (0240)2477802

श्री.सतीशकुमार कनौजिया
Sh.Sateesh Kumar Kanaujiya
वरि. प्रबंधक (अभि.- विद्युत)
Sr. Manager (Engg.-Electrical)
औरंगाबाद एअरपोर्ट
Aurangabad Airport

3. आपके निविदा के साथ प्राप्त बयाना राशि **2,12,082.00** रुपए की प्रतिभूति जमा के हिस्से के रूप में परिवर्तित किया जाएगा। कृपया इस पत्र के जारी होने की तिथि से 15 दिनों के भीतर प्रतिभूति जमा राशि **4,76,029.00** रुपये ठेके के दस्तावेज के अनुसार जमा कर दें, अन्यथा निविदा में पृष्ठ जी सी सी 16 पर दी गई धारा 1(A) के अनुसार कटौती की जाएगी।

The earnest money amount of **Rs.2,12,082.00** received along with your tender will be treated and converted as part of Security Deposit. Please deposit **Rs. 4,76,029.00** towards security deposit within 15 days from the date of issue of this letter, failing which the same will be deducted as per condition of clause 1(A) at GCC Page 16 of the Contract Document.

4. आपसे निवेदन है कि आप केन्द्रीय और राज्य सरकारों के 1970 अधिनियम अनुबन्ध श्रम नियम तथा 1971 के केन्द्रीय नियम (नियमन तथा उन्मूलन) एवं केन्द्र तथा राज्य सरकारों के न्यूनतम वेतन अधिनियमों और नियमों के प्रवधानों के अनुपालन करें।

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 and minimum wages Act & rules thereof Central and State Governments.

5. आपको निर्देश दिया जाता है कि आप तुरंत सहा. प्रबंधक (अभियांत्रिकी - विद्युत), से मिलें वह आपको साईट सौंपने कि व्यवस्था करेंगे।

You are also directed to contact **Asstt. Manager (Engg-Elect.)**, AAI, Aurangabad Airport immediately who will arrange to hand over the site to you.

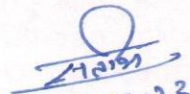
6. कृपया नोट करें कि कार्य करने का समय 04 (चार) माह रहेगा, जोकी कार्य आदेश जारी होने के दसवें दिन से माना जायेगा।

Please note that the time allowed for carrying out the work shall be **04 (Four) Months** and same shall be reckoned from the 10th day of the date of placing of work order.

7. यदि अंग्रेजी और हिंदी 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.

8. ई निविदा प्रक्रिया के दौरान उठाए गए सभी शुद्धी पत्र, प्रश्न, स्पष्टीकरण इत्यादि और उपर उल्लिखित पत्रों सहित उत्तरों के जवाब भी करारनामे के हिस्से होंगे।

All corrigendums, queries, clarifications etc, raised during e-tendering process and replies there of including the letters referred above shall also form part of the agreement.


19.12.23

श्री. सतीश कुमार कनौजिया
Sh. Sateesh Kumar Kanaujiya
वरि. प्रबंधक (अभि. - विद्युत)
Asstt. Manager (Engg.-Electrical)
औरंगाबाद एअरपोर्ट
Aurangabad Airport

9. इस ठेके के संबंध में आगे को कोई भी पत्राचार वरि. प्रबंधक (अभि.- विद्युत), भाविप्रा. औरंगाबाद हवाईअड्डा, औरंगाबाद - 431007 के पते पर किया जाए।

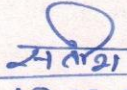
Any further correspondence in connection with the contract should normally be addressed to the Sr. Manager (Engg-Elect), AAI, Aurangabad Airport, Aurangabad - 431007.

10. कृपया इस पत्र को स्वीकार करे और हस्ताक्षर करने के बाद इसके साथ संलग्न पत्र की डुप्लिकेट प्रति स्वीकृति के प्रतीक के रूप में अधोहस्ताक्षरी को वापिस करें।

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.

संलग्न : मात्रा की अनुसूची
Encl : Schedule of Quantity

भवदीय/ Yours faithfully,


19.12.23

वरि. प्रबंधक [अभि - विद्युत]
Sr. Manager (E-E)
भाविप्रा, औरंगाबाद हवाईअड्डा, औरंगाबाद
AAI, Aurangabad Airport, Aurangabad

श्री.सतीशकुमार कनौजिया
Sh.Sateesh Kumar Kanaujiya
वरि. प्रबंधक (अभि.- विद्युत)
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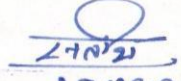
Item Rate BoQ

Tender Inviting Authority: Senior Manager (Engg.-Electrical), Airports Authority of India, Aurangabad Airport, Aurangabad- 431007.

Name of Work: Reconfiguration of Existing Terminal Building at Aurangabad Airport. SH: AHU, Ducting, Piping & Miscellaneous works.

Tender ID: 2023_AAI_175869_1

Name of the Bidder/ Bidding Firm / Company :		ingenious industries				
PRICE SCHEDULE (This BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevent columns, else the bidder is liable to be rejected for this tender. Bidders are allowed to enter the Bidder Name and Values only)						
NUMBER #	TEXT #	NUMBER #	TEXT #	NUMBER #	NUMBER #	TEXT #
Sl. No.	Item Description	Quantity	Units	BASIC RATE (Excluding GST) In Figures To be entered by the Bidder Rs. P	TOTAL AMOUNT in Rs. P	TOTAL AMOUNT In Words
1	2	4	5	6	7	8
1	Supply, installation testing and commissioning of factory built floor mounted chilled water Double skin type horizontal air handling units made of 25mm ±2mm thick panels consisting of pre plasticized GI casing of thickness 0.8mm outside layerand 0.8mm inside layer with polyurethane foam (PUF) insulation factory injected between them by injection moulding machine, complete with blower section with blower suitable for static pressure as required ,min. 2 bend GSS/PVC eliminators, cooling coil section with aluminium finned copper tubes (tube thickness not less than 0.5 mm) cooling coil of 6 row deep , filter section with 50 mm thick metal viscous filter /washable synthetic type air prefilters, AHU Blower Direct driven, suitable for 415±10%V,50Hz,3-phase AC Supply , squirrel cage induction motor (Its suitable for VFD) package with TEFC drive motor of efficiency class IE3 suitable for 415±10% V, 50Hz, 3 phase AC supply suitably designed for variable frequency drive applications, drain connections , stainless steel (18G) drain pain with PUF insulation, LED light with door switch, Provision to install UVGI lamps between cooling coil and blower, AHUs should be suitable for floor mounted application necessary PCC foundation work / blocks shall be provided as required, at the inlet and outlet of coil, auto purge valve wherever required, necessary vibration isolation arrangement etc. complete as per specification & AHU schedule and of following capacities as : Double skin floor mounted Horizontal AHU two pipe system (one coil) AHU 10000 CFM / 25.0 TR, 6 row deep chilled water coil ,pre filter, 65 mm ESP WG with three phase motor (All AHU Should Be BMS/VFD Compatible)	2	Job	215000.00	430000.00	INR Four Lakh Thirty Thousand Only


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Sr. Manager (Engg.-Electrical)

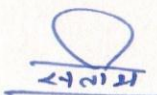
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1	2	4	5	6	7	8
2.01	Supply, Installation, Testing and commissioning of Exhaust/Fresh Air fans of preferred make of ventilation AMCA Certified Cabinet Fan of Double SKIN CONSTRUCTION, belt driven centrifugal fan, mounted on floating foundation of spring mounted vibration isolators, and canvas connection, squirrel cage induction motor, mounted within the housing, and all other details as called for in the drawings, specifications. Fan section shall be suitable for floor / ceiling mounted application as detailed in the drawings). The fan motor shall be suitable for operation on Single speed, 415±10%V, 50Hz, 3-phase AC Supply, squirrel cage induction motor (Its suitable for VFD) package with TEFC drive motor of efficiency class IE3 suitable for 415±10% V, 50Hz, 3 phase AC supply. Ventilation fan sections of single skin construction as described above and in the specifications DIDW type, motor within the casing. All fans shall have single speed motors Cost to be inclusive of unit isolator. 3500CFM, 50 mm WG external static pressure with VFD compatible motor suitable for floor/Ceiling mounted application.(For Toilet Exhaust)	5	Job	15000.00	75000.00	INR Seventy Five Thousand Only
2.02	3000CFM, 50 mm WG external static pressure with VFD compatible motor suitable for floor/Ceiling mounted application.(For Toilet Fresh Air)	5	Job	15000.00	75000.00	INR Seventy Five Thousand Only



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1	2	4	5	6	7	8
3.01	Supply, installation, testing and commissioning of HVAC dedicated Starter panels/VFD for AHU as per tender specifications as below: SITC of following HVAC dedicated VFDs of 7.5-10 kW with IP 55 enclosures with Mains disconnect, complying with the tender specifications and having: 1. built-in EMC Filters (electromagnetic compatibility filters) for for VFDs for restriction of conducted emissions to comply with IEC61800: 3 (unrestricted distribution):2004 Category C 3, 2. Three-feedback PID controller having capability to simultaneously accept 3 feedback signals from temperature sensors or pressure sensors or CO2 sensors for process optimization and accordingly regulate the speed of the AHUs or pumps. 3. Provision for additional 3 PID controllers to control external devices such as chilled water modulating valve, fresh air damper, etc. thus reducing the number of I/Os in DDC Controllers & improving system reliability. 4. Automatic Energy Optimization / Load dependent flux optimization functionality for maximum energy savings. 5. MODBUS RTU as the communication protocol between BMS & VFDs. 6. VFDs not meeting above requirements shall provide external disconnect, external harmonic filters, additional external EMC Filters to comply with IEC61800: 3 (unrestricted distribution):2004 Category C 1 (50 m), external PLCs / DDCs to achieve 3 Feedback PID Controller functionality and external devices controlling capabilities.	2	Job	30000.00	60000.00	INR Sixty Thousand Only


 17-12-23
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1	2	4	5	6	7	8
3.02	Supply, installation, testing and commissioning of electrical Starter panels with Star-Delta bypass facility near the AHUs constructed out of 2mm thick CRCA sheet duly powder coated as per specifications. The panel shall have hinged door with ON-OFF interlocks. The panel shall be complete with incoming MCCB/MCB, suitable connections, LED indicating lamps, Auto Manual switch, remote start / stop contacts, multifunction meter with selector switch, necessary provision for Fire Damper controls & BMS controls, providing Connectors for power and control cables, earthing connectors, printed wiring diagram of starter panel, etc. as required complete as per specifications for following capacity AHUs. 25 TR & 10,000 CFM Capacity	2	Job	20000.00	40000.00	INR Forty Thousand Only
3.03	Supply, installation, testing and commissioning of HVAC dedicated VFD Starter suitable size for the range 3500 CFM for toilet exhaust fan as per tender specifications.	5	Job	13000.00	65000.00	INR Sixty Five Thousand Only
3.04	Supply, installation, testing and commissioning of HVAC dedicated VFD Starter suitable size for the range 3000 CFM for toilet fresh air fan as per tender specifications.	5	Job	13000.00	65000.00	INR Sixty Five Thousand Only
4	Providing and fixing three phase strip heater with necessary starter panel , its required control and accessories as per below mentioned capacities 4.0 KW	2	Nos	5000.00	10000.00	INR Ten Thousand Only
5	Supply installation testing & commissioning of Air Curtains for doors - 1500 mm long (Low noise) suitable for door height of 2.5 mtr with sensors.	16	Job	13200.00	211200.00	INR Two Lakh Eleven Thousand Two Hundred Only


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1	2	4	5	6	7	8
6.01	Supply, Laying/fixing, testing and commissioning of following nominal sizes of chilled water piping inside the building (with necessary clamps, vibration isolators and fittings but excluding valves, strainers, gauges etc) duly insulated with following PUF Insulation of minimum 36-40 Kg/ cu m density, thermal conductivity 0.02 W/MK or better at 20 deg mean temperature with factory laminated crafted aluminium foil on the outer surface. The insulation shall be further cladded with 24G Aluminium sheet with all the necessary accessories required for proper and neat installation. Note : - The Pipes of sizes 150 mm & below shall be M.S. "C" class as per IS: 1239 and pipes size above 150 mm shall be welded black steel pipe heavy class as per IS:3589, from minium 6.35 mm thick M.S. sheet for pipes upto 350 mm dia. and minimum 7 mm thick MS sheet for pipes of 400 mm dia and above. SMACNA Certified threaded rod system as per specifications with lock(s) and pre-crimped and fixing(s) to be used for supporting all pipes. For safety, the lock should not have inbuilt unlocking mechanism; separate key to be used to unlock it. To avoid wire slippage, locking mechanism should be wedge type, self locking and double channel type. Ball bearing(s) based or circular gear(s) based locking mechanisms are not acceptable. The threaded rod hangers should have a minimum safety factor of 5:1. Support system as per site requirement. Chilled water piping of nominal size -50mm dia. (50 mm thick insulation)	20	Metre	1200.00	24000.00	INR Twenty Four Thousand Only
6.02	Chilled water piping of nominal size -65mm dia. (50 mm thick insulation)	100	Metre	1350.00	135000.00	INR One Lakh Thirty Five Thousand Only
6.03	Chilled water piping of nominal size -80mm dia. (50 mm thick insulation)	100	Metre	1400.00	140000.00	INR One Lakh Forty Thousand Only
7	MS Fabrication for Chilled water piping , equipment support, plenum, etc.as per the site requirement.	1000	Kg	125.00	125000.00	INR One Lakh Twenty Five Thousand Only
8.01	Providing & Fixing in position the following size insulated butterfly valve (manual) with CI body SS disc, nitrile rubber seal & O ring PN -16 pressure rating for chilled/Hot water circulation & insulated with PUF insulation & 24 gauge aluminium sheet cladding in position conforming to technical specification. Valves beyond 350mm dia shall be gear operated. 50 mm dia	2	Set	3500.00	7000.00	INR Seven Thousand Only

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1	2	4	5	6	7	8
8.02	65 mm dia	5	Set	4500.00	22500.00	INR Twenty Two Thousand Five Hundred Only
8.03	80 mm dia	2	Set	5500.00	11000.00	INR Eleven Thousand Only
9.01	Providing and fixing in position the following Insulated balancing valves C I body flanged construction with EPDM coated disc with long pitch with protected out pipe insulation & PN-16 pressure rating for chilled/Hot water circulation as per the specifications & insulated with PUF insulation & 24 gauge aluminium sheet cladding in position conforming to technical specification. 50 mm dia	1	Job	10000.00	10000.00	INR Ten Thousand Only
9.02	65 mm dia	2	Job	10000.00	20000.00	INR Twenty Thousand Only
9.03	80 mm dia	1	Job	32611.00	32611.00	INR Thirty Two Thousand Six Hundred & Eleven Only
10	Providing and fixing in position the following Insulated check valves (Non Return) with dual plate of C.I. body SS plates vulcanized NBR seal flanged end & PN -16 pressure rating for chilled/hot water circulation as per the specifications & insulated with PUF insulation & 24 gauge aluminium sheet cladding in position conforming to technical specification. 65 mm dia	2	Job	4500.00	9000.00	INR Nine Thousand Only
11	Providing and fixing in position the following Insulated Y-Strainers with PUF insulation of ductile CI body flanged ends with SS strainer for chilled/hot water circulation as per the specifications. 65 mm dia	2	Set	7000.00	14000.00	INR Fourteen Thousand Only


19.12.23

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Sh. Sateesh Kumar Kanaujiya
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12	Supply, installation, testing and commissioning of complete set of PICV/PIBC/ High rangeability control valve/ pressure independent dynamic balancing cum control valve, kit comprising of Two Way Control Valve of Brass/C.I body of PN16 ratings, motorised modulating actuators with linear stroke of minimum 15 mm, The actuator shall have shut off capability of min. 4 bar rating. LCD display digital controller(BMS compatible), three nos NTC sensors with complete wiring within AHU room, one thermowell, one power supply unit of 230Vac/24Vac. Transparent IP55 Control box for mounting Digital controller and power supply unit. The valve size shall be suitable for pipe size/coil capacity with PUF insulation. 65 mm dia	2	Set	35600.00	71200.00	INR Seventy One Thousand Two Hundred Only
13	Supply & Fixing of 32 mm ball valve with MS pipe nipple for AHU Chilled water Header lines & insulated with PUF insulation & 24 gauge aluminium sheet cladding in position conforming to technical specification.	5	Set	950.00	4750.00	INR Four Thousand Seven Hundred & Fifty Only
14	Providing and fixing in position of preferred make flow switch complete with copper control wiring at chiller outlet of each machine.	2	Job	1500.00	3000.00	INR Three Thousand Only
15	Supply & Fixing of industrial type Thermometer with adopter for AHU chilled water line, etc complete as required.	4	Each	1200.00	4800.00	INR Four Thousand Eight Hundred Only
16	Supply & Fixing of dial type Pressure gauges having 150mm dia for AHUs including forged ball valves and pipe stem, etc complete as required.	4	Each	1200.00	4800.00	INR Four Thousand Eight Hundred Only
17	Providing and fixing and in position the following PVC pipes for condensate drain duly insulated with kinny foam & vapour barrier duly secured with adhesive tape as per specification, cut to required length and installed with all joints, including the necessary fittings. (For all the AHU/FCU units upto the main header in the shaft dor vertical risers)	30	Metre	350.00	10500.00	INR Ten Thousand Five Hundred Only
18	Supply, installation, testing and commissioning of Auto Air vents, at the specified locations in the chilled water piping, alongwith isolation ball valves, as per preferred makes. Auto air vent with isolating ball valves (15 mm dia)	4	Job	1250.00	5000.00	INR Five Thousand Only

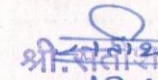
श्री. सुतीश कुमार कनौजिया
Sh. Suresh Kumar Kanaujiya
वरिष्ठ अभियंता (विद्युत) - विद्युत
Sr. Manager (Engg.-Electrical)
औरंगाबाद एअरपोर्ट
Aurangabad Airport

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19.01	Supply, Fabrication, Installation and testing of factory fabricated sheet metal ducts (rectangular/round ducting complete with neoprene rubber gaskets, elbows, splitter, vanes, hangers, supports etc.) in accordance with the approved shop drawings and specifications, and shall also confirm to the BIS specifications. The duct shall be fabricated at site for to suit pieces. 120 GSM. 0.63 mm (24 gauge) GSS	500	Sq.m	850.00	425000.00	INR Four Lakh Twenty Five Thousand Only
19.02	0.8 mm (22 gauge) GSS	300	Sq.m	950.00	285000.00	INR Two Lakh Eighty Five Thousand Only
19.03	1.0 mm (20 gauge) GSS	50	Sq.m	1350.00	67500.00	INR Sixty Seven Thousand Five Hundred Only
19.04	1.25 mm (18 gauge) GSS	50	Sq.m	1550.00	77500.00	INR Seventy Seven Thousand Five Hundred Only
20.01	Supply, Fabrication, Installation and testing of site fabricated sheet metal ducts (rectangular/round ducting complete with neoprene rubber gaskets, elbows, splitter, vanes, hangers, supports etc.) in accordance with the approved shop drawings and specifications, and shall also confirm to the BIS specifications. The duct shall be fabricated at site for to suit pieces. 120 GSM. 0.63 mm (24 gauge) GSS	100	Sq.m	900.00	90000.00	INR Ninety Thousand Only
20.02	0.8 mm (22 gauge) GSS	100	Sq.m	1050.00	105000.00	INR One Lakh Five Thousand Only
20.03	1.0 mm (20 gauge) GSS	250	Sq.m	1200.00	300000.00	INR Three Lakh Only
20.04	1.25 mm (18 gauge) GSS	250	Sq.m	1350.00	337500.00	INR Three Lakh Thirty Seven Thousand Five Hundred Only

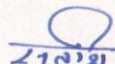

श्री. सतीश कुमार कनौजिया
Sh. Sateesh Kumar Kanaujiya
वरि. प्रबंधक (अभि.- विद्युत)
Sr. Manager (Engg.-Electrical)
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21.01	Supply, Installation and Testing of factory fabricated GI , Double Walled spiral round ducting complete with hanging arrangement including fully threaded GI rods , GI straps and GI "C" channels/ rolled steel wires or Gripple Wire Rope Hangers & Supports complete with end fixing, GI "C" channels etc. as approved clients/consultants in accordance with the approved shop drawings and specifications. Quoted price shall be inclusive of necessary scaffolding charges towards installation of supply/exhaust air ducts outside or within building wherever required. Outer and Inner duct must be spiral round duct along with Insulation material shall be 13mm/19mm thick, Class "O" closed cell elastomeric Insulation , Sadwich between the spiral ducts. Jointing of two spiral ducts, shall be slip type coupling and closed with Dish type End caps. Ducts shall be factory powder coated of colour and shade as approved by the Architects for exposed spiral ducts. Quoted price shall be inclusive of powder coating. Necessary compliance to be submitted by vendors. With Powder Coat. Duct ø 1.3 m,20 G GI	100	Sq.m	3150.00	315000.00	INR Three Lakh Fifteen Thousand Only
21.02	Duct ø 1.2 m,20 G GI	100	Sq.m	3150.00	315000.00	INR Three Lakh Fifteen Thousand Only
21.03	Duct ø 1.0 m,22 G GI	20	Sq.m	3000.00	60000.00	INR Sixty Thousand Only
21.04	Duct ø 0.85 m,22 G GI	20	Sq.m	3000.00	60000.00	INR Sixty Thousand Only
22.01	Providing and fixing of Extruded aluminium supply and return air grilles/diffusers/louvres with dampers, supply air plenum etc. duly powder coated as per specifications and drawings. Aluminium supply air grilles with opposed blade damper.	10	Sq.m	7000.00	70000.00	INR Seventy Thousand Only
22.02	Aluminium return air grilles without damper.	10	Sq.m	4500.00	45000.00	INR Forty Five Thousand Only
22.03	Aluminium supply air square diffuser with opposed blade damper.	15	Sq.m	8500.00	127500.00	INR One Lakh Twenty Seven Thousand Five Hundred Only
22.04	Aluminium return/exhaust air square diffuser without damper.	15	Sq.m	6000.00	90000.00	INR Ninety Thousand Only
22.05	Aluminium return/exhaust disc Valve circular/squirell diffuser without damper.	150	Nos	650.00	97500.00	INR Ninety Seven Thousand Five Hundred Only

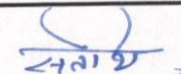
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22.06	Jet Diffusers with Buterfly Damper- 1500 CFM	50	Nos	3000.00	150000.00	INR One Lakh Fifty Thousand Only
22.07	GI Volume control dampers for ducts	10	Sq.m	4000.00	40000.00	INR Forty Thousand Only
22.08	Non Return Damper for Plenum	2	Sq.m	5500.00	11000.00	INR Eleven Thousand Only
23.01	Supply, Installation, Testing and commissioning of motorized combination fire and smoke damper (spring return type) of preferred make of atleast 120 minute fire rating and as per the specifications as detailed earlier in the relevant sections.The fire damper shall be complete with electronic temperature sensor and electrically operated actuator .The fire dampers shall be located in the supply/return air ducts, at all fire rated crossovers (shafts/walls etc.) The control panel will be such located that the reset can be easily done These combination smoke and fire dampers shall be interlocked with the building management system for fire detection / HVAC and shall trip/close in the event of fire / smoke in the respective zone . Bare Fire Dampers with 400 mm sleeve	6	Sq.m	6500.00	39000.00	INR Thirty Nine Thousand Only
23.02	Control panel for actuator , including necessary interconnecting wiring.	6	Job	1500.00	9000.00	INR Nine Thousand Only
23.03	Electrical,spring type actuator,remote indication of the fire damper position.	6	Job	6500.00	39000.00	INR Thirty Nine Thousand Only
23.04	230/24V transformer suitable for control panel for actuator.	6	Job	500.00	3000.00	INR Three Thousand Only
23.05	Interconnecting wiring for the fire alarm system with the AHU and the smoke dampers.	2	Job	2500.00	5000.00	INR Five Thousand Only
23.06	Sealing the openings around the sleeve of the fire dampers with approved fire sealant, as per the recommendations of the manufacturer and specifications.	2	Job	1000.00	2000.00	INR Two Thousand Only
23.07	Supply,Installation,Testing and commissioning of doble layer canvas connection with 1/2 hr. fire rating as per specification.	10	Sq.m	1500.00	15000.00	INR Fifteen Thousand Only
24	SITC of 100 mm dia. Flexible duct for toilet exhaust as required.	200	Metre	350.00	70000.00	INR Seventy Thousand Only


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25.01	Supply and Application of Acoustic Insulation Inside the Duct with Engineered Nitrile Rubber open cell foam with Density 140 - 180 Kg/m3 passing Class 1 Fire Performance test as per BS 476 Part 7, Air Erosion test for 10,000 fpm air velocity as per ASTM C 1071-05 and with built-in EPA approved antimicrobial protection; to be applied using manufacturer's recommended Rubber based Adhesive in a blend of solvents. 25mm thick for AHU Room	100	Sq.m	1050.00	105000.00	INR One Lakh Five Thousand Only
25.02	25 mm thick for AHU duct	400	Sq.m	1150.00	460000.00	INR Four Lakh Sixty Thousand Only
26.01	Supply, Installation and fixing of following thickness closed cell Nitrile rubber (Class "0") with factory laminated black treated woven cloth surface insulation on existing duct after applying suitable adhesive for Nitrile rubber. The joints shall be sealed with 50 mm wide and 3 mm thick self adhesive nitrile rubber tape insulation complete as per specifications and as required. (adhesive shall be from same manufacturer) 19 mm thick class "O" nitrile rubber insulation with factory woven glass cloth protection (Black Colour) (Mechanical Protection) for supply air ducts in free return air path & return air ducts.	800	Sq.m	700.00	560000.00	INR Five Lakh Sixty Thousand Only
26.02	13 mm thick class "O" nitrile rubber insulation with factory woven glass cloth protection (Black Colour) (Mechanical Protection) for supply air ducts in exposed path	900	Sq.m	500.00	450000.00	INR Four Lakh Fifty Thousand Only
27	Supply, Installation, testing and commissioning of 24 G Al cladding as required.	300	Sq.m	900.00	270000.00	INR Two Lakh Seventy Thousand Only
28	Supply, installation, testing & commisioning of Copper conductor , PVC insulated, PVC sheathed armoured cable of 1.1 KV grade (Which is Interconnecting wiring for the fire alarm system with the AHU and the smoke dampers and AHU to Control Consol Panel). 2C x 1.5 Sqmm	350	Metre	95.00	33250.00	INR Thirty Three Thousand Two Hundred & Fifty Only

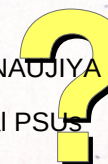

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29	Supplying and installing following size of perforated Hot Dipped Galvanised Iron cable tray cable tray with perforation not more than 17.5%, in convenient sections, joined with connectors, suspended from the ceiling with G.I. suspenders including G.I. bolts & nuts, etc as required. 150 mm width X 50 mm depth X 1.6 mm thickness	100	Metre	350.00	35000.00	INR Thirty Five Thousand Only
30	Providing and fixing following size of G.I. strip / (25mm x 5mm) on surface or in recess for loop earthing alongwith the existing surface/ recessed conduit/ submain wiring / on cable tray/ on surface including G.I. clamps etc. complete as required. 25mmx5mm GI Strip	100	Metre	220.00	22000.00	INR Twenty Two Thousand Only
31	Dismantling the existing air handling units of following capacity i/c motor, blower, cooling coil, electrical panel, Chilled water pipelines at Inlet & Outlet of AHUs upto 3-way mixing valve, etc with all associated accessories and handing over of all dismantled items to AAI stores, including transportation, etc complete as required. 8000 CFM Capacity (International arrival)	2	Job	5000.00	10000.00	INR Ten Thousand Only
Total in Figures					6881111.00	INR Sixty Eight Lakh Eighty One Thousand One Hundred & Eleven Only
Quoted Rate in Words		INR Sixty Eight Lakh Eighty One Thousand One Hundred & Eleven Only				


19.12.23

Signature Not Verified

Digitally signed by SATEESH KUMAR KANAUJIYA
Date: 2024.03.14 15:56:48 IST
Location: eProcurement System for Central PSUs



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