



भारतीय विमानपत्तन प्राधिकरण

AIRPORTS AUTHORITY OF INDIA

देवी अहिल्याबाई होलकर विमानपत्तन, इंदौर-452 005

(आई.एस.ओ.9001:2015 आई.एस.ओ.14001: 2015 एवं आई.एस.ओ. 45001:2018 प्रमाणित विमानतल)

DEVI AHILYA BAI HOLKAR AIRPORT, INDORE-452 005

(ISO 9001:2015, ISO 14001: 2015 & ISO 45001: 2018 Certified Airport)

संदर्भ संख्या : भाविप्रा/इंदौर/अभि.-वि/कार्य आदेश-23/2022-23 /142-154 दिनांक : 17/02/2023
Ref. No.: AAI/ID/ENGG(E)/WO-23/2022-23 1304-16(कौ) Date: 17/02/2023

प्रति,

मेसर्स वोक्स एनर्जी प्रा.लि.,

306, बाक्सी हाउस, 40-41 नहेरू प्लेस

न्यू दिल्ली-110019

E-mail: - arathi@volksenerige.in GST No.: - 07AADCV9396C1ZZ

M/s Volks Enerige Pvt. Ltd.

306, Bakshi House, 40-41, Nehru Place,

New Delhi- 110019

कार्य का नाम:- एस.आई.टी.सी. ऑफ वीआरएफ एयर कंडिशनिंग सिस्टम फॉर एक्सटेन्ड डोमेस्टिक एस.एच.
ए. एरिया इन एनआईटीबी एट दे.अ.बा.हो. विमानतल, इंदौर।

Name of Work: - SITC of VRF Air-conditioning Systems for Extended Domestic SHA area in NITB at D.A.B.H. Airport, Indore.

संदर्भ :- 1) आपकी ई-निविदा 2022_AAI_139472_1 दिनांक 08 फरवरी 2023 को खोली गई।

Your E-Tender No.2022_AAI_139472_1 Opened on dated 08/02/2023

प्रिय महोदय/ Dear Sir,

- उपरोक्त कार्य हेतु आपका टेण्डर, अध्यक्ष, भारतीय विमानपत्तन प्राधिकरण की ओर से, आपके द्वारा बताये गये मद मुल्यों पर आपकी टेण्डर राशि कुल लागत ₹ 58,93,358/- (रुपये अठावन लाख तिरानवे हजार तीन सौ अठावन मात्र जी.एस.टी. रहित) है, जो कि टेण्डर की अनुमानित लागत राशि ₹ 79,68,106/- जी.एस.टी. रहित से 26.04 % कम है, पर स्वीकृत किया जाता 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 ₹ 58,93,358/- (Rupees Fifty-Eight Lakh Ninety-Three Thousand Three Hundred Fifty-Eight Only Excluding GST) which is 26.04% below the Estimated cost put to tender of ₹ 79,68,106/- Excluding GST.

- वरिष्ठ प्रबंधक (अभि.-विद्युत), भाविप्रा, दे.अ.बा.हो. विमानतल, इंदौर कार्य के प्रभारी अभियंता होंगे। आपसे निवेदन है कि आप आपकी ओर से एक विश्वसनीय प्रतिनिधि प्रतिनियुक्त करें जो कि करारनामों पर हस्ताक्षर करने के लिए अधिकृत हो तथा वह दिनांक 27.02.2023 तक वरिष्ठ प्रबंधक (अभि.- विद्युत), भाविप्रा, दे.अ.बा.हो. विमानतल, इंदौर के कार्यालय में उपस्थित हो तथा करारनामों को पूरा करें। ठेके का करारनामा रुपये 100/- के नॉन ज्युडिशियल स्टेम्प पेपर पर निष्पादित किया जाएगा, तथा स्टेम्प पेपर का खर्च आपके द्वारा उठाया जाएगा।

The Senior Manager (Engg. -Elect.), AAI, DABH Airport, Indore 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 Senior Manager (Engg. -Elect.), AAI, DABH Airport, Indore by 27-02-2023 to sign and complete the agreement. The contract agreement shall be executed on a non-judicial stamp paper of Rs. 100/- and the cost shall be borne by you.

Continued on page No. ...02

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3. कृपया ₹ 5,89,336.00 (रुपये पाँच लाख उनासी हजार तीन सौ छत्तीस मात्र) प्रतिभूति जमा के रूप में यह पत्र के जारी करने की तारीख से 10 दिन के अंदर जमा कीजिए, अन्यथा यह राशि ठेका दस्तावेज के जीसीसी के पृष्ठ क्र.16 के Clause '1A' की शर्त के अनुसार काटी जाएगी।

Please deposit ₹ 5,89,336.00 (Rupees Five Lakh Eighty-Nine Thousand Three Hundred Thirty-Six Only) towards security deposit within 10 days from the date of issue of this letter, failing which the same will be deducted as per condition of **Clause '1A'** on page no. **16 of GCC** of the contract document.

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

You are requested to comply with the provisions of Contract Labour (Regulation & Abolition) Act of 1970 and Contract Labour (Regulation & Abolition) Central rules 1971 and Minimum Wages Act & Rules thereof Central and State Government.

5. आपको निर्देश दिया जाता है कि आप तुरंत प्रबंधक (अभि.-विद्युत), भाविप्रा, दे.अ.बा.हो. विमानतल, इन्दौर से मिलें वह आपको साईट सौंपने की व्यवस्था करेंगे। कृपया नोट कर लें कि काम करने का अनुमानित समय 04 (चार) माह है जो कि इस पत्र के जारी करने के 10 दिन बाद से गिना जाएगा।

You are also directed to contact **Manager (Engg-E)**, AAI, DABH Airport Indore immediately who will arrange to hand over the site to you. Please note that the time allowed for carrying out the work is **04 (Four) Months** which shall be reckoned from the 10th day after issue of this Letter.

6. इस ठेके के संबंध में आगे कोई भी पत्राचार वरिष्ठ प्रबंधक (अभि.-विद्युत), भा.वि.प्रा., दे.अ.बा. हो. विमानतल, इन्दौर म.प्र.-452005 के पते पर या ई-मेल **ppushkar@aai.aero** पर किया जाए।

Any further correspondence in connection with this contract should normally be addressed to Senior Manager (E-E), AAI, DABH Airport Indore, M.P.- 452005 Or email-id **ppushkar@aai.aero**.

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7. उपरोक्त संदर्भित सभी पत्र इस ठेके का भाग होंगे।

All letters referred above shall form part of contract.

8. ठेके दस्तावेज की शर्तों के अनुसार त्रुटि दायित्व अवधि 12 (बारह) माह होगी।

The Defects Liability Period will be of **12 (Twelve) Months** as per terms of Contract.

9. कृपया पावती भेजें एवं आपकी स्वीकृति के प्रतीक के रूप में इस कार्य आदेश की डुप्लीकेट प्रति पर हस्ताक्षर कर अधोहस्ताक्षरी को पुनः भेजने का कष्ट 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.

10. यदि अंग्रेजी और हिंदी पाठ में कोई अंतर पाया जाता है तो अंग्रेजी विवरण सही माना जायेगा।

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

धन्यवाद / **Thanking You,**

संलग्न / **Enclosure: 1) Schedule 'A' – 08 Pages**

भवदीय / **Your's Faithfully,**

Yuna
17.02.2023

वरिष्ठ प्रबंधक (अभि.विद्युत),
Senior Manager (Engg-Elect)
भा.वि.प्रा. इन्दौर विमानतल, इन्दौर
AAI, DABH AIRPORT, INDORE
कृते तथा ओर से, अध्यक्ष
For and on behalf of Chairman
भारतीय विमानपत्तन प्राधिकरण
Airports Authority of India

dh

Schedule - 'A'

SCHEDULE OF QUANTITY / ITEM(S)

NAME OF WORK : SITC OF VRF AIR-CONDITIONING SYSTEM FOR EXTENDED DOMESTIC SHA AREA IN NITB AT DABH AIRPORT .

कार्य का नाम : देवी अहिल्याबाई होलकर हवाई अड्डा में टर्मिनल भवन के विस्तारित सिक्युरिटी होल्ड एरिया के लिए वी.आर.एफ. एयर कन्डिशनिंग की स्थापना कार्य हेतु।

Sl. No.	DESCRIPTION OF ITEMS	Unit	Qty	Rate (Ex.GST)	Amount
	SH - A (HIDE SIDE)				
1	Supply of modular type Variable Refrigerant Flow/Variable Refrigerant Volume air cooled Outdoor units suitable for cooling having all hermetically sealed inverter type Scroll Compressor(s), R 410A/ecofriendly green refrigerant, minimum two compressors for above 14 HP modules, microprocessor based Controller, top discharge type condensing unit(s), vibration isolators, etc. complete as required. The unit shall deliver the rated capacity at AHRI Conditions and work even at 50°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 and ready for use as required. The COP at AHRI conditions shall not be less than 3.1 and IEER not less than 6.5 complete as required. 80 HP (2 x 40 HP)	JOB	1	1600000.00	1600000.00
2	Supply of factory built floor mounted, VRF refrigerant type, double skin type horizontal Air Handling Unit made of 45±2 mm thick panels consisting of pre plasticized G.I. casing of thickness 0.6 mm outside layer and 0.8 mm inside layer with polyurethane foam (PUF) insulation 40 Kg/M ³ factory injected between them by injection moulding machine , complete with blower section with blower suitable for static pressure as required , Mixing chamber section of minimum 600 mm length of fresh air and return air , cooling coil section with anti corrosive hydrophillic blue aluminium finned copper tubes (tubes thickness not less than 0.5 mm) cooling coil of 06 row deep, fresh air filter with damper , filter section with 50 mm thick metal viscous , belt drive package with TEFC drive motor of efficiency class IE3 suitable for 415±10% volts , 50 Hz , 3 phase AC supply suitably designed for variable frequency drive applications , industrial type thermometers (02 nos.) at the inlet and outlet of coil , Plug type direct drive supply air fans 2 Nos shall be provided with variable speed drives. The blowers shall be selected as per below requirement, Fan section with dynamically balanced direct-driven, Plug type Backward SA fans, TEFC squirrel cage induction drive motors., necessary vibration isolation arrangement, drain connections, stainless steel (18G) drain pan with PUF insulation , Marine light (LED) with limit switch across all fan sections, door shall be provided with switch for marine light on / off outside the unit. There should be Provision for View Glass in the Fan Section, supply & Installation of suitable capacity UVGI system etc. as per specification and of following capacities complete as required. AHU-01 nos , 22000 CFM /64.0 Tr with 65 mm ESP Static Pressure.	JOB	1	1200000.00	1200000.00

SOQ-1



Sl. No.	DESCRIPTION OF ITEMS	Unit	Qty	Rate (Ex.GST)	Amount
3	Supply of AHU kit to integrate with AHUs to various combination of static and CFM requirement shall be connected to ODU's of VRF as per specification complete as required.	EACH	4	32000.00	128000.00
4	Supply of touch screen central controller of VRF system complete as required,	EACH	1	70000.00	70000.00
	SH - B (LOW SIDE)				
5	Installation, Testing & Commissioning of modular type Variable Refrigerant Flow/Variable Refrigerant Volume air cooled Outdoor units . The job includes shifting , loading , unloading of out door units & installation at site, providing & Installation of suitable size MS stand for out door units , providing additional refrigerant charging to the system after refrigerant piping work , complete ITC of all ODU's systems, centralized controller complete as required. 80 HP (2 x 40 HP)	JOB	1	100000.00	100000.00
6	Installation, Testing & Commissioning of factory built floor mounted AHU of 22000 CFM as mentioned in SOQ Item no. 2 includes loading /un loading , shifting to first floor of NITB , making suitable foundation of AHU, duct connection etc complete as required.	JOB	1	80000.00	80000.00
7	Installation Testing and Commissioning of AHU kit to integrate with AHUs to various combination of static and CFM requirement shall be connected to ODU's of VRF as per specification complete as required .	EACH	4	1000.00	4000.00
8	Supply, Installation, Testing & Commissioning of REFNET /Y-JOINTS brass of suitable size complete as required.	EACH	8	2000.00	16000.00
9	Supply , Installation Balancing and Commissioning of fabricated at site GSS sheet metal rectangular/round ducting complete with neoprene rubber gasket, elbows, splitter dampers , vanes, hangers, supports etc as per approved drawings and specification of following sheet thickness complete as required.				
		Sq.Mtr.	110	800.00	88000.00
(a)	Thickness 0.63 mm sheet	Sq.Mtr.	35	1000.00	35000.00
(b)	Thickness 0.80 mm sheet	Sq.Mtr.	60	1200.00	72000.00
(c)	Thickness 1.0 mm sheet				
10	Supply , Installation , Testing and Commissioning of motorized (ON OFF type) duct mounted GI volume control damper with enthalphy sensor and necessary control wire (minimum 1.5 sq.mm) for intergration with AHU room.				
		Sq.Mtr.	2	10000.00	20000.00
(a)	Damper	EACH	1	10000.00	10000.00
(b)	Actuator				

SOQ-2

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Sl. No.	DESCRIPTION OF ITEMS	Unit	Qty	Rate (Ex.GST)	Amount
11	Supply, Installation, Testing ,Balancing and commissioning of Eye Ball Jet Nozzle of appx. diameter of 400 mm complete as required.	EACH	12	5000.00	60000.00
12	Supply , fixing of acoustic lining of supply air duct & plenum with 25 mm thick resin bonded glass wool having density of 32 Kg/m ³ , with 25 mm x 25 mm GI section of 1.25 mm thick , at 600 mm center to center covered with reinforced plastic tissue paper and 0.5 mm thick perforated aluminium sheet fixed to inside surface of ducts with cadmium plated nuts, bolts , stick pins, CPRX compound etc complete as required and as per specifications.	Sq.Mtr.	6	1200.00	7200.00
13	Supplying and fixing of following thickness duly laminated aluminium foil of mat finish closed cell nitrile rubber (class "o") insulation on existing duct after applying suitable adhesive for nitrile rubber. The joints shall be sealed with 50 mm wide & 3 mm thick self adhesive nitrile rubber tape insulation complete as per specification and as required above. 19 mm	Sq.Mtr.	240	500.00	120000.00
14	Supply, Installation, testing and commissioning including vaccumiazation and Nitrogen testing of suitable size of nominal sizes of soft/hard drawn copper refrigerant piping (suction & liquid lines) for VRV/VRF system, complete with fittings, with suitable adjustable ring type hanger supports, jointing/brazing including accessories, insulated with XPLE Class-O tubular insulation/with Class-O closed cell elastometric nitrile rubber tubular sleeves sections of specified thickness for Suction and Liquid lines, all accessories as per specifications etc. complete as required.	METER	110	2400.00	264000.00
15	Supplying and laying uPVC drain pipe of 40 mm dia. from AHU to drain point for AHU unit complete as required.	METER	30	100.00	3000.00
	SH - C (ELECTRICAL WORK)				
16	Supply, Installation, Testing and Commissioning of dust and vermin proof cubicle free floor, outdoor type factory built sheet steel enclosed modular bolted construction, suitable for operation on 415 +10% volts, 50 Hz AC 3 phase 4 wire supply system fabricated out of CRCA sheet steel of 2.0 mm thick for frame work and 2.0 mm thick for doors/ covers, 3mm thick for gland plates i/c cleaning & finishing complete with 7 tank process for powder coating in approved shade, having TPN Aluminium bus bars of high conductivity, DMC/SMC bus bar suppons, bottom base channel of section not less than ISMC 75mm, entire panel shall have a common copper earth bar of suitable size with 2 nos earth studs, including control wiring with 1.5sqmm. PVC insulated FRLS copper conductor Single Core cable for voltage & 2.5sq.mm for current circuits, cable alleys, cable gland plates, danger notice plates, etc. necessary metering protections & indications and mounted with the following switch gears etc. complete as required as per EIC.				

500-3

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Sl. No.	DESCRIPTION OF ITEMS	Unit	Qty	Rate (Ex.GST)	Amount
	INCOMER i) 250 Amps. 4P, MCCB '36KA, (Ics = Icu= 36KA) with thermal magnetic release having O/L & S/C protection equipped with extendable rotary Handle and Spreader Terminals - 01Set a) 3 Nos. Phase indication LED lamps with 2Amp MCB, 'ON/OFF' indicating light with 2A MCB. b) Multifunction meter, class 0.5 with LCD Display shown V,A,HZ & PF - 1 Nos. c) Current Transformer CT 250/5A, CL-1, 5 VA - 3 Nos. BUS BAR : TPN aluminium main bus bars of minimum of 300 Amp capacity with heat shrinkable coloured sleeves and i/c DMC/SMC bus bars supports at required intervals complete. OUTGOING i) 63 Amps. 4P, MCCB '36KA, (Ics = Icu= 36KA) with thermal magnetic release having O/L & S/C protection equipped extendable rotary Handle and Spreader Terminals - 05 Set ii) 40 Amps. FP, MCB '10KA - 03 Nos.	Nos	1	125000.00	125000.00
17	Supply, Installation, Testing and Commissioning of dust and vermin proof cubicle free floor, indoor type factory built sheet steel enclosed modular bolted construction, suitable for operation on 415 +10% volts, 50 Hz AC 3 phase 4 wire supply system fabricated out of CRCA sheet steel of 2.0 mm thick for frame work and 2.0 mm thick for doors/ covers, 3mm thick for gland plates i/c cleaning & finishing complete with 7 tank process for powder coating in approved shade, having TPN Aluminium bus bars of high conductivity, DMC/SMC bus bar supports, bottom base channel of section not less than ISMC 75mm, entire panel shall have a common copper earth bar of suitable size with 2 nos earth studs, including control wiring with 1.5sqmm. PVC insulated FRLS copper conductor Single Core cable for voltage & 2.5sq.mm for current circuits, cable alleys, cable gland plates, danger notice plates, etc. necessary metering protections & indications and mounted with the following switch gears etc. complete as required as per EIC. INCOMER i) 63 Amps. 4P, MCCB '36KA, (Ics = Icu= 36KA) with thermal magnetic release having O/L & S/C protection equipped with extendable rotary Handle and Spreader Terminals - 01Set a) 3 Nos. Phase indication LED lamps with 2Amp MCB, 'ON/OFF' indicating light with 2A MCB. b) Multifunction meter, class 0.5 with LCD Display shown V,A,HZ & PF - 1 Nos. c) Current Transformer CT 63/5A, CL-1, 5 VA - 3 Nos. BUS BAR : TPN aluminium main bus bars of minimum of 100 Amp capacity with heat shrinkable coloured sleeves and i/c DMC/SMC bus bars supports at required intervals complete. OUTGOING i) 3 Phase VFD drive suitable for 22000 CFM AHU - 01 No. ON-OFF indication lamps (LED type) with 2 Amp control MCBs. - 2 Set ii) 63 Amps. FP, MCB '10KA - 02 Nos. iii) 20 Amps. SP, MCB '10KA - 02 Nos.	JOB	1	100000.00	100000.00

500-4

Ans

Sl. No.	DESCRIPTION OF ITEMS	Unit	Qty	Rate (Ex.GST)	Amount
18	SITC of 4P, 250 A MCCB (Ics = 100% Icu), 36 kA in suitable size enclosed box made of 2 mm thick CRCA sheet including rotatory handle , phase spreader , ON/OFF indication LED lamp complete as required.	JOB	1	17000.00	17000.00
19	SITC of 4P, 63 A MCCB (Ics = 100% Icu), 36 kA in suitable size enclosed box made of 2 mm thick CRCA sheet including rotatory handle ,phase spreader, ON/OFF indication LED lamp complete as required.	JOB	1	6000.00	6000.00
20	Supply of XLPE insulated, Aluminium conductor armoured power cable conforming to IS-7098 Part-I, 1100 Voltage grade, ISI marked complete as required. 3½ core x 150 Sqmm , Aluminium	METER	250	600.00	150000.00
21	Supply of XLPE insulated, Aluminium conductor armoured power cable conforming to IS-7098 Part-I, 1100 Voltage grade, ISI marked complete as required. 3½ core x 35 Sqmm , Aluminium	METER	180	200.00	36000.00
22	Supply of XLPE insulated, copper conductor un-armoured power cable conforming to IS-7098 Part-I, 1100 Voltage grade, ISI marked complete as required. 4 core x 10 Sqmm , copper	METER	50	400.00	20000.00
23	Supplying & laying of 2 x 1.5 Sq. mm copper conductor communication cable XLPE insulated for VRF system from Out door unit to AHU & centralized controller complete as required.	METER	140	100.00	14000.00
24	Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size on cable tray as required. Above 95 sq.mm and up to 185 sq. mm	METER	150	100.00	15000.00
25	Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size on wall surface as required. Above 95 sq.mm and up to 185 sq. mm	METER	50	100.00	5000.00
26	Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size on cable tray as required. Up to 35 sq. mm	METER	230	35.00	8050.00
27	Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size on wall surface as required. Up to 35 sq. mm	METER	20	35.00	700.00
28	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 core x 150 Sqmm	EACH	4	2000.00	8000.00

500-5

Ans

Sl. No.	DESCRIPTION OF ITEMS	Unit	Qty	Rate (Ex.GST)	Amount
29	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 core x 35 Sqmm	EACH	4	1000.00	4000.00
30	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. 4 core x 10 Sqmm	EACH	8	400.00	3200.00
31	Providing and fixing 25 mm X 5 mm G.I. strip on surface or in recess for connections etc. as required.	METER	60	150.00	9000.00
32	Supplying and Installation following size of perforated Hot dipped Galvanised Iron cable tray (Galvanisation thickness not less then 50 microns) with perforation not more than 17.5% , in convenient sections, joined with connetors , 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.	METER	50	450.00	22500.00
33	Supplying and Installation following size of perforated Hot dipped Galvanised Iron cable tray " BENDS" (Galvanisation thickness not less then 50 microns) with perforation not more than 17.5% , in convenient sections, joined with connetors , 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.	EACH	6	1000.00	6000.00
34	Supplying and Installation following size of perforated Hot dipped Galvanised Iron cable tray " TEE" (Galvanisation thickness not less then 50 microns) with perforation not more than 17.5% , in convenient sections, joined with connetors , 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.	EACH	4	1000.00	4000.00
35	Hiring charges for scaffolding upto 15 meter height for the execution of work. This job includes hiring of scaffolding , loading /unloading of scaffolding, installation of scaffolding ,dismantling of scaffolding after the completion of installation work of cable tray & refrigerant piping work etc complete as required.	JOB	1	30000.00	30000.00
36	The Dismantling, re-installation of ACP sheet work. The job includes dismantling of existing ACP sheet approximate area 20 Sq. meter on verticital height upto 15 meter , re-installation of the same ACP sheet with filled with baker rod of size 12 mm or 16 mm dia., weather proof silicon sealant of wacker, Dow corning or Equivalent make . The job will be complete with re fixing of existing ACP sheet making good the same etc complete as required.	JOB	1	20000.00	20000.00

500-6

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Sl. No.	DESCRIPTION OF ITEMS	Unit	Qty	Rate (Ex.GST)	Amount
37	Dismantling & re-installation of metal false ceiling tiles of approximate area 60 sq. meter for fixing of ducting system. The work includes dismantling & re-installation of metal false ceiling of size 2 feet x 2 feet , balancing & leveling of false ceiling supports. Minor modification/repairing/addition of supports of false ceiling during the execution of work. The job will be complete with making good of false ceiling after the installation of new ducting system above false ceiling area etc complete as required.	JOB	1	20000.00	20000.00
38	Dismantling of existing ducts etc from the slab appx size 1.5 m x 0.5 m x 0.4 m and shifting of dismantle duct to AAI store etc complete as required.	JOB	1	3000.00	3000.00
	SH - D (Tower AC)				
39	Supply , Installation , Testing , Commissioning of 3.8 TR/4.0 TR floor standing type tower Air Conditioner units , evaporator coil, aircooled condenser with hermitically sealed scroll type compressor, condensor coil, propeller fans controls suitable for operation on 415 V +/- 10%, 50 Hz, Three Phase AC Supply and capable of performing cooling, dehumidifying, air circulating, filtering etc., remote control, including provision of suitable angle iron stand for outdoor units, MS stand for indoor units, as per technical specifications, complete as required.	EACH	8	126,000.00	1008000.00
40	Supply , Installation , Testing , Commissioning of 1.5 TR wall mounted Air Conditioner unit , Inverter AC , 5 star rated , evaporator oil, aircooled condenser ,condensor coil, controls suitable for operation on 230 V +/- 10%, 50 Hz, AC Supply and capable of performing cooling, dehumidifying, air circulating, filtering etc., remote control, including wall mounted stand for outdoor units, 05 years warranty on compressor and fixing of drain & refrigerent piping with insulation, cabling & electrical connections, complete as required.	EACH	2	55,000.00	110000.00
41	Supply of following sizes of 1.1 KV grade multicore copper conductor PVC insulated and FR PVC round sheathed flexible cable as per IS : 694 with upto date amendments.				
(a)	6 core x 4 Sq. mm				
(b)	3 core x 2.5 sq.mm	METER	260	240.00	62400.00
		METER	280	100.00	28000.00
42	Supplying and fixing of following ways surface/ recess mounting, vertical type, 415 V, TPN MCB distribution board of sheet steel, dust protected, duly powder painted, inclusive of tinned copper bus bar, common neutral link, earth bar, din bar for mounting MCBs (but without MCBs and incomer) as required 6 way (8 + 18), Double door.	EACH	2	8,000.00	16000.00

500-7

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Sl. No.	DESCRIPTION OF ITEMS	Unit	Qty	Rate (Ex.GST)	Amount
43	Supplying and fixing following rating, four pole, (three phase and neutral), 415 volts, residual current circuit breaker (RCCB), having a sensitivity current 30 mA in the existing MCB DB complete with connections, testing and commissioning etc. as required. 63 A	EACH	2	2,100.00	4200.00
44	Supplying and fixing 5 A to 32 A rating, 240/415 V, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.	EACH	8	126.00	1008.00
(a)	Single pole , 20 A	EACH	8	950.00	7600.00
(b)	Triple pole, 32 A	EACH	8	1,000.00	8000.00
45	Supplying and fixing 20 A, 240 V, SPN Industrial type socket outlet, with 2 pole and earth, metal enclosed plug top alongwith 20 A "C" curve, SP, MCB, in sheet steel enclosure, on surface or in recess, with chained metal cover for the socket out let and complete with connections, testing and commissioning etc. as required.	EACH	8	1,000.00	8000.00
46	Supplying and fixing of following sizes of steel conduit along with accessories in surface/tray/recess including painting in case of surface conduit, or cutting the wall and making good the same in case of recessed conduit complete as required. 25 mm	METER	540	50.00	27000.00
47	Supplying and fixing refrigerant copper piping suction & discharge with communication & insulation as suitable for 4.0 TR Tower AC complete as required.	METER	130	700.00	91000.00
48	Supplying and laying UPVC drain pipe of 25 mm dia. from indoor unit to drain point for Tower AC complete as required.	METER	200	80.00	16000.00
49	Supplying and laying of PVC Trunking with cover on surface of 100 x 50 mm size to cover the AC refrigerant piping of Tower type AC unit complete as required.	METER	70	150.00	10500.00
Total Amount Rs.					5893358.00

(Rs. Fifty Eight Lakh Ninety Three Thousand Three Hundred Fifty Eight Only)

Note: (GST Shall be paid extra)

805
17.02.2023
Senior Manager (Engg.-E)
AAI, Indore.

Signature Not Verified

Digitally Signed by Pushkar Pagnis
Date: 2023.02.24 16:45:39 IST
Location: eProcurement System for Central PSUs

