

भारतीय विमानपत्तन प्राधिकरण AIRPORTS AUTHORITY OF INDIA

Ref No: - AAI/RHQ/NR/Engg.(E)/Gorakhpur(VRV/VRF)/2021-22/ 449

Date: 05.01.2022

By Speed post/ E-mail
(Email: coolingcentre@yahoo.com)

सेवा में,
मैसर्स कूलिंग सेंटर,
मनी मोन्टा कॉम्प्लेक्स- 61 राय बरेली रोड
लखनऊ, उत्तर प्रदेश - 226014
संपर्क स.- 9335279480, 9839332373

To,
M/s. COOLING CENTRE,
MANI MONTA COMPLEX-61 RAI BARELI ROAD
LUCKNOW, Uttar Pradesh - 226014
CONTACT NO.: 9335279480, 9839332373

विषय :- एक्सपेंशन ऑफ पैसेंजर टर्मिनल बिल्डिंग एट गोरखपुर सिविल एन्क्लेव, गोरखपुर।
उप शीर्ष: प्रोविजन ऑफ एयर कंडिशनिंग (वीआरवी/वीआरएफ) सिस्टम।

निविदा आई. डी. :-2021_AAI_96479_1

Name of work: - Expansion of Passenger Terminal Building at Gorakhpur Civil Enclave,
Gorakhpur.SH: PROVISION OF AIR CONDITIONING (VRV/VRF) SYSTEM.

Tender Id:- 2021_AAI_96479_1

1. ऊपर उल्लेखित कार्य हेतु आपकी ई-निविदा, अध्यक्ष भारतीय विमानपत्तन प्राधिकरण की ओर से स्वीकार की जाती है, आपके द्वारा बताए गए मद मूल्यों पर आपकी राशि कुल रूपये 84,42,662.00, (रुपये चौरासी लाख बयालिस हजार छह सौ बासठ मात्र) (जीएसटी के बिना) जो की न्यायोचित राशि रूपये 1,26,60,899.00 से 33.32 % 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. 84,42,662.00 (Rs. Eighty Four Lakhs Forty Two Thousand Six Hundred and Sixty Two Only) (Excluding GST), which is 33.32% below the justified cost of Rs. 1,26,60,899.00.

2. संयुक्त महाप्रबंधक /सहायक महाप्रबंधक (अभि.-विद्युत), भारतीय विमानपत्तन प्राधिकरण, गोरखपुर विमानपत्तन, इस कार्य के प्रभारी अभियंता होंगे। आप से निवेदन है आपकी ओर से एक विश्वसनीय प्रतिनिधि प्रतिनियुक्त करें जो करारनामे पर हस्ताक्षर करने के लिए अधिकृत हो तथा वह दिनांक 17.01.2022 तक संयुक्त महाप्रबंधक (अभि.-विद्युत), क्षेत्रीय मुख्यालय (उ. क्षेत्र), प्रचालन कार्यालय, गुरुग्राम, नई दिल्ली-110037 के कार्यालय में उपस्थित हो तथा करार नामे को पूरा करें। ठेके का करारनामा रु 100/- (रु एक सौ मात्र) के नोनजुडिशियल स्टैम्प पेपर पर निष्पादित किया जाएगा तथा पेपर का खर्च आपके द्वारा वहन किया जाएगा।

Jt. Gen. Manager/Asst. General Manager (Engg.-E), Airports Authority of India, Gorakhpur Airport, will be Engineer-in-Charge of the work. You are requested to depute your accredited representative, empowered to sign the contract agreement on your behalf and attend the office of the Jt. Gen. Manager (Engg.-E), AAI, RHQ (NR), New Delhi - 110037 by Dated 17.01.2022 to sign and complete the agreement. The contract agreement shall be executed on a non-judicial stamp paper of value Rs.100/- and the cost of stamp paper shall be borne by you.

3. आपने बयाना राशि के रूप में कोई भी राशि जमा नहीं की है। अतः कृपया इस पत्र के जारी होने की तिथि से 07 दिनों के अंदर जमानत राशि रु 8,44,266.00/- (रु. आठ लाख चवालीस हजार दो सौ छियासठ मात्र) जमा कर दें, अन्यथा ठेके के दस्तावेज के अनुसार उपरोक्त राशि आपके रनिंग बिल से काट ली जायेगी। सुरक्षा राशि का भुगतान त्रुटि दायित्व अवधि, जोकि कार्य समाप्ती की तिथि से गिना जाएगा, के पूरे होने पर कर दिया जाएगा।

You have not submitted any amount against EMD. Therefore, please deposit an amount of **Rs. 8,44,266.00 (Rupees Eight Lakhs Fourty Four Thousand Two Hundred and Sixty Six Only)** towards security deposit within 07 days of issue of this letter, failing which, the same will be deducted from your running bill as per conditions of the contract document. The Security deposit amount will be released after defect liability period which shall be reckoned from the date of completion of work.

4. आपसे निवेदन है कि आप केन्द्रीय और राज्य सरकारों के 1970 के अनुबंध श्रम (विनियमन और उन्मूलन) अधिनियम के प्रावधान और अनुबंध श्रम (विनियमन और उन्मूलन) के केन्द्रीय नियम 1971, बालश्रम (निषेध और विनियमन) अधिनियम 1986, निर्माण श्रमिक (रोजगार और सेवा की शर्त का विनियमन) अधिनियम 1996, भवन और अन्य निर्माण श्रमिक कल्याण उपकार अधिनियम 1996 आदि जैसा कि निविदा दस्तावेज़ और केन्द्रीय एवं राज्य सरकार के नियमों में निर्दिष्ट प्रावधानों का अनुपालन करें।

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, Child Labour (Prohibition & Regulation) Act 1986, Contruction Workers (Regulation of Employment & Condition of Service) Act 1996, Building and other contruction Workers Welfare Cess Act 1996 as specified in the tender document and rules of Central and State Government.

5. आपको निर्देशित किया जाता है कि तुरंत सहायक महाप्रबंधक/प्रबन्धक (अभि.-विद्युत), गोरखपुर विमानपत्तन, से मिले वह आप को कार्य स्थल सौंपने की व्यवस्था करेंगे। कृपया नोट कर ले कि काम करने का निर्धारित समय 03 महीने है जोकि दिनांक 18.01.2022 से गिना जाएगा।

You are directed to contact **Asst. General Mgr./Manager (Engg-E), AAI, Gorakhpur Airport**, immediately who will arrange to hand over the site to you. Please note that the time allowed for carrying out the work is **03 (Three) Months** which shall be reckoned w.r.f. 18.01.2022.

6. ई-निविदा मे उठाए गए सभी प्रश्न, सपष्टीकरण इत्यादि तथा उनका भा.वि.प्रा. द्वारा दिया गया ऊतर भी अनुबंध का भाग होगा।

All queries, clarifications etc. raised during e-tendering process and replies thereof shall also form part of the agreement.

7. इस ठेके के संबंध में आगे का कोई भी पत्राचार संयुक्त महाप्रबंधक/ सहायक महाप्रबंधक (अभि.-विद्युत), गोरखपुर विमानपत्तन, भारतीय विमानपत्तन प्राधिकरण, के पते पर किया जाये।

Any further correspondence in connection with this contract should normally be addressed to Jt. Gen. Manager/ Asst. General Manager (Engg.-E), Gorakhpur Airport, AAI.

8. उपरोक्त कार्य हेतु त्रुटि दायित्व अवधि (01) साल है जो की इस कार्य की पूर्ण होने की तिथि से गिना जाएगा।

The defect liability period is **One (01) year**, which shall be reckoned from the actual date of completion date.

9. कृपया पावती भेजें ।

Please acknowledge the receipt.

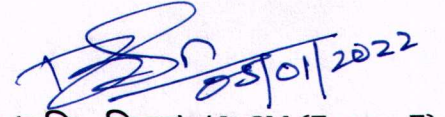
नोट : हिंदी अथवा अंग्रेजी संस्करण में अंतर पाये जाने पर अंग्रेजी संस्करण मान्य होगा।

NOTE: If there any discrepancy is observed in Hindi and English version, the English version will be considered.

धन्यवाद/ Thanking you

संलग्न:- मात्रा की अनुसूची (Pg. 1 to 9)

Enclosed:- Schedule of Quantities (Pg. 1 to 9)



संयुक्त महाप्रबंधक (अभि.- विद्युत) / Jt.GM (Engg. - E)
भारतीय विमानपत्तन प्राधिकरण / Airports Authority of India
क्षे. मु.- उ. क्षे. / RHQ-NR, प्रचालन कार्यालय / Operational Office
गुडगाँव रोड / Gurgaon Road, रंगपुरी, नई दिल्ली / Rangpuri, New Delhi
कृते तथा की ओर से अध्यक्ष / For and on behalf of the Chairman

SCHEDULE OF WORK

Name of Work: Expansion of Passenger Terminal Building at Gorakhpur Civil Enclave, Gorakhpur.
SH : Provision of Air-conditioning (VRV/VRF) system.

S. No.	DESCRIPTION OF ITEMS	UNIT	QTY.	RATE	AMOUNT
	Part- A				
	OUTDOOR UNITS				
1	Supply, Installation, Testing & Commissioning of VRV/VRF outdoor units with multiple compressors complete with inverter based type Scroll/Rotary compressors, R-410A refrigerant, cooling & heating mode both options, suitable for 415 +/- 10 % volt, 50 Hz, 3 phase AC supply for outdoor units, special pre-coated fin type heat exchanger, low noise direct driven propeller condenser fans in each module with top discharge. The electronic circuit in each module should be highly advance with Film Capacitors and refrigerant cooled circuits. Each module of outdoor Unit should have Full DC Inverter Scroll/Rotary Compressors & can have single inverter Scroll/Rotary compressor till 14 HP & multiple inverter Scroll/Rotary Compressors beyond 14 HP. In case of any of module failure, the rest of system should be capable of operation. GI coated condenser stands, microprocessor panel with sequential starting of condensing unit, coils, expansion valves, filters in refrigerant circuits, single phase preventor, all vibration isolators, safeties, in all respect including foundation and anti vibration Pads for ODU, operating range of Compressor for Dry Bulb Temperature -5 to 52 Deg C (i.e. in cooling mode) and heating mode should be -10 to 15.5 degree C, Machine Sound Level should not be more then 69 dB at distance of 1.5 Mtr. Quoted price shall also be inclusive of loading, unloading, lifting & shifting on terrace or other suitable locations as per drawing, and also inclusive of MS angle base frame duly painted & vibration isolation arrangement etc. complete as required. The COP at AHRI conditions shall not be less than 3.1 and IEER not less than 6.5. The unit shall deliver the below mentioned capacity at 42 deg ambient temperature based on the Gorakhpur (UP), India ambient conditions during summer.				
1.01	20 HP (Minimum) for AHU Units	Each	7	233000	1631000.00
1.02	10 HP (Minimum) For TFA Units	Each	2	153000	306000.00

BS

S. No.	DESCRIPTION OF ITEMS	UNIT	QTY.	RATE	AMOUNT
	INDOOR UNITS				
2	Supply, Installation, Testing & Commissioning of VRV/VRF In-door units & Accessories:- Indoor Units shall be Double skin type Air Handling Units, ceiling suspended type of ratings as specified with 24 Gauge pre coated G.I. outer and indoor skin and 40 mm of suitable PUF insulation, Horizontal type AHU complete with DIDW fans, fan motor Drive, 6 Row Deep DX Cooling Coil, with static 35mm pressure, MERV-8 pre filters, Mixing box device, thermal break profile, vibration isolator pad, Expansion Kit, communication kit and wired / wireless remote controller. The indoor units shall be suitable for operation on 415 $\pm$ 10% volts, 50Hz, 3 phase AC power supply. The cooling coil shall be made of seamless copper tube. This shall includes Support structure, all accessories, complete as required.				
2.01	Ceiling Suspended type AHU: 11 TR (Minimum)/ 4500 CFM	Each	11	111000.00	1221000.00
3	Supply, installation, testing & commissioning of Ceiling Suspended type Treated Fresh Air unit with Double skinned panels to be fabricated with extruded aluminium section framework bolted together with sandwich panel having 24 gauge pre-plasticized outer skin and 24 gauge plain GI inner skin injected with 40 mm thick thermal break profile having suitable PUF insulation of minimum 8 TR & 1600 CFM, 6 Row deep, static 35mm pressure with suitable electronic expansion valve which can communicate with the controller in the VRF condensing unit, complete with forward curved centrifugal driven set, MERV-8 pre filters, including wired / wireless remote control, all accessories, etc complete as required.	Each	2	78000.00	156000.00
4	Supply, Installation, Testing & Commissioning of VRV/VRF In-door units & Accessories:- Indoor Units shall be ceiling mounted Cassette type as specified. The indoor units shall be suitable for operation on 230 $\pm$ 10% volts, 50Hz, 1 phase AC power supply. The indoor unit shall have independent electronic control valve to control the refrigerant flow rate respond to variations of the air-conditioning load of the room. The fan shall be aerodynamically designed turbo multiblade type. Statically and dynamically balanced to ensure lowest noise. The cooling coil shall be made of seamless copper tube. Indoor units shall have fittings, filter, drain pump in Cassette unit, Panel, required plugtop & cable to connect indoor unit to socket, including wireless remote control as per specified, all accessories, complete as required.				
4.01	Ceiling mounted 4 way Cassette type: 2 TR, Single Phase	Nos.	2	27500	55000.00
4.02	Ceiling mounted 4 way Cassette type: 1.5 TR Single Phase	Nos.	3	27000	81000.00



S. No.	DESCRIPTION OF ITEMS	UNIT	QTY.	RATE	AMOUNT
5	SITC of following nominal capacity unitary Inverter type highly efficient ceiling suspended / wall mounted following type Air conditioning units with air cooled condenser complete with inverter type scroll/ rotary compressor, condenser including, cordless remote, indoor units shall be ceiling suspended/ wall mounted type complete with evaporator, fan, filter, drier, expansion devices & microprocessor control panel along with all accessories with R-32 refrigerant & oil charge, remote controls , refrigerant piping of suitable size between Indoor to outdoor duly insulated & suitable size of copper conductor cables (approximate up to 15 m per unit to be provided), MS structure / frame stand (M S Angle size 50 x50 x6 mm.) for outdoor unit and required size of drain piping with insulation (approx 15 Mtrs per unit), complete with indoor hanging arrangement, inclusive of initial charging of refrigerant, etc. complete as required. Makes as per approved make list.				
5.01	High Wall split (COLD ONLY)Type : 1.5 TR, Nominal capacity, Single Phase, 5 star rated	Each	2	30000	60000.00
5.02	Ceiling mounted (HOT & COLD ONLY) 4 way Cassette type: 2 TR, Single Phase 5 star rated	Each	3	70000	210000.00
	REFRIGERENT PIPING				
6	Supply installation testing and commissioning including vaccumiazation and Nitrogen testing of following nominal sizes of soft/hard drawn copper refrigerant piping for VRF/VRV system,complete with fittings, with suitable adjustable ring type hanger supports/clamp / MS hanger / MS support / MS angle, etc, as per site requirement, jointng/brazing including accesories insulated with XLPE Class O tubular insulation/with Class O closed cell elastemeric nitrile rubber tubular sleeves sections of specified thickness as below for Suction and Liquid lines, all accessories, as per specification. complete as reqd. Quoted price shall be inclusive of necessary glass cloth and minimum two layers of UV protection paint to be applied over insulation for all exposed pipes of approved make. Extra support for Y-joints/bend etc to be provided as per specification.				
6.01	44.5 mm dia (with 19mm thick insulation	MTR	50	650	32500.00
6.02	41.3 mm O.D. (insulation – 19 mm thick)	MTR	100	650	65000.00
6.03	34.9 mm O.D. (insulation – 19 mm thick)	MTR	80	837	66960.00
6.04	28.6 mm O.D. (insulation – 19 mm thick)	MTR	200	837	167400.00
6.05	22.2 mm O.D. (insulation – 19 mm thick)	MTR	30	753	22590.00
6.06	19.1 mm O.D. (insulation – 13 mm thick)	MTR	135	498	67230.00
6.07	15.9 mm O.D. (insulation – 13 mm thick)	MTR	225	498	112050.00
6.08	12.7 mm O.D. (insulation – 13 mm thick)	MTR	60	283	16980.00

BS

S. No.	DESCRIPTION OF ITEMS	UNIT	QTY.	RATE	AMOUNT
6.09	9.5 mm O.D. (insulation – 13 mm thick)	MTR	110	283	31130.00
6.10	6.4 mm dia with 13 mm thick insulation	MTR	50	218	10900.00
7	Supplying, Fixing and commissioning of imported refrigerant joint/ Branch distributors indoor to outdoor complete with nitrile rubber insulation, supporting, etc, complete as per site requirement.	Each	12	2800	33600.00
8	Supplying, Fixing and commissioning of imported refrigerant joint/ Branch distributors between Outdoor to outdoor complete with nitrile rubber insulation, supporting, etc, complete as per site requirement.	Each	8	3200	25600.00
9	Supplying, charging & testing of additional charge of Refrigerant R410-A including Pressure Testing, Vacumising, etc. complete as required.	Kg	300	580	174000.00
10	Supply and installtion of hot dip G.I. cable tray perforation not more than 17.5% for specific dimensions along with tees, bends, reducers, cross members and other accessories such as suspender from ceiling/ fixed to wall with necessary angle/flat iron / hanging rod, clamps, anchor fastner, nuts, bolts, washers, etc. complete job as required. The tray shall be as follows :-				
10.01	300 x 50 mm x 1.6mm thick	MTR	80	650	52000.00
	DRAIN PIPING				
11	Supply and fixing of Rigid UPVC drain water piping complete with fittings, support as per specification and insulated with 06 mm thick insulated with closed cell Nitrile Rubber insulation.				
11.01	25 mm dia ID	MTR	50	120	6000.00
11.02	32 mm dia ID	MTR	50	135	6750.00
11.03	40 mm dia ID	MTR	80	140	11200.00
11.04	50 mm dia ID	MTR	100	160	16000.00
	SHEET METAL DUCTING				
12	Supply, fabrication, erection and commissioning of factory /site fabricated rectangular/oval ducts of approved makes using GI Sheets as per site requirement and specification. The price shall include rolamate / TDF flanges, turning vanes, supports (factory fabricated, full threaded rod & GI slotted channel), sealent (neoprene gasket), hangers, access door etc. complete as required. All the longitudinal and transverse joints shall be sealed with silicon sealant. All ducts shall be pressure tested as per SMACNA standards for leaks at 2" WC pressure and be as per leakage class 24.				
12.01	0.63 mm (24 Gauge)	Sq Mtr	400	720	288000.00
12.02	0.80mm (22 Gauge)	Sq Mtr	600	820	492000.00
12.03	1.0mm (20 Gauge)	Sq Mtr	50	930	46500.00



S. No.	DESCRIPTION OF ITEMS	UNIT	QTY.	RATE	AMOUNT
	DUCT DAMPERS/ DIFFUSERS/ GRILLES/ COLLAR DAMPERS				
13	Supply, installation, testing & balancing of Exhaust Valves for Toilet Exhaust, The valve should provided high initial resistance with wide throttling capability to offset the high system resistances, And finished with powder coating as per specifications & approved shop drawings of size ø 150mm.	Each	60	430	25800.00
14	SITC of Extruded Aluminum, Powder Coated fresh air damper.	Sq Mtr	2	3800	7600.00
15	SITC of Extruded Aluminum, Powder Coated Exhaust air louver	Sq Mtr	2	3800	7600.00
16	Supply, installation, testing and commissioning of aluminium powder coated supply and return air grilles/diffusers as per specifications and drawings.				
16.01	Supply Air Square/ liner Diffuser	Sq Mtr	10	2500	25000.00
16.02	Return Air Square/ liner Diffuser	Sq Mtr	10	2500	25000.00
17	Supply & installation of extruded aluminium volume control damper with blades, adjustable lever, frame etc for Supply Air and Fresh Air, as per specifications.	Sq Mtr	10	3000	30000.00
18	Supply & fixing of flexible connections constructed out of fire resistant double canvas sleeve as per specifications.	Sq Mtr	5	2000	10000.00
	THERMAL & ACOUSTIC INSULATION				
19	SITC of Thermal insulation of Supply air and Return air ducts for GI ducting as per specification using following thick closed cell Cross Linked Polyethylene Insulation with aluminium foil facing. Insulation in slab sections stuck to the duct & fixtures using manufacturer approved cold adhesive on both surface of the duct and inner face of the insulation slab section. The joints shall sealed with 48mm wide, 3mm thick self adhesive nitrile rubber tape.				
19.01	13 mm thick insulation with Alu. foil	Sq Mtr	400	320	128000.00
19.02	19 mm thick insulation with Alu. foil	Sq Mtr	600	420	252000.00
20	SITC of Acoustic lining of ducting as per specification with 10mm thick open cell nitrile rubber foam of 140 to 180 kg/cum density, thermal conductivity 0.050w/mk and class 1 rating (Inside surface for the ducts shall be covered with adhesive recommended by manufacturer)	Sq Mtr	40	530	21200.00
21	Supply, Fabrication, Installation and Testing of the Insulated Flexible Ducting , complete with connecting rings, duct supports, The flexible duct shall be made of triple lamination of aluminium foil, polyester and Metalised Polyester film permanently bonded to a coated spring steel wire helix. The exterior shall be wrapped with 25mm thick 24 kg / m3 fibreglass insulation. The outer insulation jacket / vapour barrier shall be made of fibreglass reinforced Metalised Polyester film laminate etc. as per standards and specification				



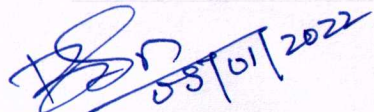
S. No.	DESCRIPTION OF ITEMS	UNIT	QTY.	RATE	AMOUNT
21.01	300mm dia	MTR	15	450	6750.00
21.02	250 mm dia	MTR	5	350	1750.00
22	Supply, Fabrication, installation and testing of the flexible ducting without insulation , complete with connecting rings, duct supports, inner core should be made of triple lamination of Aluminum Foil, Polyester & Metalized polyester film permanently bonded to a coated spring steel wire helix, etc as per standards and specification				
22.01	200mm dia	MTR	5	325	1625.00
22.02	150mm dia	MTR	5	300	1500.00
22.03	100mm dia	RMT	5	275	1375.00
23	SITC of circular/cabinet inline fan complete with motor, BMS compatible starter, cabling between starter and fan etc. complete as required				
23.01	2000 CFM with 30 mm static	Each	3	27000	81000.00
23.02	1000 CFM with 25 mm Static	Each	2	22000	44000.00
24	Supply, Installation, Testing & Commissioning of Centralized Touch screen based Controller, suitable to control minimum 8 indoor unit, intelligent manager with required software for high speed transmission and necessary accessories including required cable/wire for connection termination of this system for complete installation at desired location at site etc complete as required. The following suitable controls shall be provided through this system for all indoor units indiviually:- 1) Temperature Controls, 2) ON/OFF Control, 3) Scheduling, 4) Monitoring & Control from a remote site. 5) Error Display	Each	2	28000	56000.00

S. No.	DESCRIPTION OF ITEMS	UNIT	QTY.	RATE	AMOUNT
	LT PANELS				
25	Supplying, installation, testing and commissioning of cubical MV out door type electrical LT panel with IP 54 protection, suitable for 415 V, 3 phase, 50 Hz AC supply system fabricated in compartmentalised design from CRCA sheet steel of 2 mm thick for frame work and covers, 3mm thick for gland plates i/c cleaning & finishing complete with 7 tank process for powder coating in approved shade, DMC/ SMC bus bar supports, bottom base channel of MS section not less than 100 mm x 50 mm x 5mm thick, fabrication shall be done in transportable sections, entire panel shall have a common aluminium earth bar of size 50 mm x 5mm at the rear with 2 Nos. earth stud, solid connections from main bus bar to switch gears with required size of Al. bus bars and control wiring with 2.5 sq.mm. PVC insulated copper conductor S/C cable, cable alleys, cable gland plates. (as per specification & drawaing), i/c providing following switch gears:- INCOMING :- 320A, 35KA, FP MCCB (ICU=ICS) with Micro processor based release- 1 No. including Protection from Single phase preventer, Phase reversal, Overvoltage & undervoltage. Digital Voltmeter & Ammeter, - 1 set C.T's 300/5Amp , CL 1.0 - 01 set R,Y,B indicating LED- 01 set Control MCB-5A- 01 set Bus Bar:- 500 Amps Aluminium TPN busbar - 1 Set OUTGOINGS :- 63 Amp, 25 KA, FP MCCB - 12 Nos.	Job	1	165000.00	165000.00
26	Supply, Installation, Testing and Commissioning of cubical type indoor LT panel with IP42 Protection, suitable for 415 V,3 phase, 50 Hz AC supply system fabricated in compartmentalised design from CRCA sheet steel of 2.0 mm thick for frame work and covers with LED indicator, etc. complete as required. (as per specification & drawaing) The following switch gears and accessories to be provided.MCCB shall be thermal magnetic release having overload, shortcircuit adjustable settings & Ics = Icu. Incomer: 63 Amp, 25 KA, FP MCCB (ICU=ICS) -01 No. (Tripping arrangement from the fire module should be made, as per requirement of site) Digital Voltmeter & Ammeter C.T's 100/5Amp , CL 1.0 R,Y,B indicating LED set Control MCB-5A Busbar: 150 Amp Aluminium TPN busbar. Outgoing: 32 Amp, 10KA, TPN MCB with DOL starter rated for 3HP with On /Off push buttons & LED Indicators - 8 sets	Job	2	145000.00	290000.00
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S. No.	DESCRIPTION OF ITEMS	UNIT	QTY.	RATE	AMOUNT
	Cable - Supply and laying				
27	Supply and laying, of 2C x 1.5 Sq. mm Copper conductor sheathed power control cum transmission cables with PVC conduit including fixing with clamps & proper connections to equipment etc.complete as required.	MTR	1200	85	102000.00
28	Supply of 4C X 2.5 sq. mm Power cable copper conductor , XLPE insulated, PVC sheathed, Armoured, 1100V grade as per IS 7098 (Part1) 1988 with upto date amendment etc., complete as required.	MTR	600	140.00	84000.00
29	Supply of 4C X 10 sq. mm. Power cable copper conductor , XLPE insulated, PVC sheathed, Armoured, 1100V grade as per IS 7098 (Part1) 1988 with upto date amendment etc., complete as required.	MTR	200	210.00	42000.00
30	Supply of 3.5X300 sqmm XLPE insulated & PVC sheathed, armoured aluminium conductor cable of 1.1KV grade as per latest IS code with up to date amendments etc. complete as required.	MTR	100	1400.00	140000.00
31	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of size above 185 sq. mm and upto 400 sq. mm direct in ground including excavation, sand cushioning, protective covering and refilling the trench etc as required.	MTR	80	1500.00	120000.00
32	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of size above 185 sq. mm and upto 400 sq. mm in the existing masonry open duct as required.	MTR	20	2200.00	44000.00
33	Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of size upto 35 sqmm on wall surface as required (clamped with 1mm thick saddle).	MTR	200	50.00	10000.00
34	Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of size upto 35 sqmm on cable tray as required (clamped with 1mm thick saddle).	MTR	600	50.00	30000.00
35	Supplying and making end termination with brass compression gland and copper lugs for 4C X 10 sqmm of PVC insulated and PVC sheathed / XLPE copper conductor cable of 1.1 KV grade as required.	Set	20	380.00	7600.00
36	Supplying and making end termination with brass compression gland and aluminium lugs for 3.5C X 300 sqmm of XLPE insulated and PVC sheathed Al conductor cable of 1.1 KV grade as required.	Set	2	1900.00	3800.00
37	Supplying and making end termination with PG gland and copper lugs for following PVC insulated and PVC sheathed / XLPE copper conductor cable of 1.1 KV grade as required.				
37.01	4 Core X 2.5 Sqmm Termination with PG Gland	Set	22	175.00	3850.00
37.02	2 Core X 1.5 Sqmm Termination with PG Gland	Set	22	150.00	3300.00
38	Supply and fixing 8 SWG dia G.I. wire on surface or in recess for loop earthing as required	MTR	300	20.00	6000.00
Total Rs. (Part-A)					7242140.00

S. No.	DESCRIPTION OF ITEMS	UNIT	QTY.	RATE	AMOUNT
	Part-B: Annual Comprehensive Maintenance (@pre-fixed rates)				
39	Annual Comprehensive Maintenance contract of all VRV/VRF system including all IDU & ODU of all capacity, including Refrigerent & all copper pipes, drain pipe, axial fan, duct/PVC pipe with LT panel for ODU & IDU, split AC, including all installation of PART-A at extended Terminal Building, Gorarkpur Airport i/c carrying out monthly visit for servicing and maintenance of all components as per OEM standards by providing trained service engineer with all tools and plant and spares i/c attending all breakdown repairs, as & when required etc. complete as per specification & instructions of Engineer-in-Charge as required.				
i	For 1st Year after DLP (3% of Total of part-A)	Year	1	217264.00	217264.00
ii	For 2nd Year after DLP (with 5% yearly cumulative escalation)	Year	1	228127.00	228127.00
iii	For 3rd Year after DLP (with 5% yearly cumulative escalation)	Year	1	239534.00	239534.00
iv	For 4th Year after DLP (with 5% yearly cumulative escalation)	Year	1	251511.00	251511.00
v	For 5th Year after DLP (with 5% yearly cumulative escalation)	Year	1	264086.00	264086.00
				Total Rs. (Part-B)	1200522.00
				Total Rs. (Part-A & B)	8442662.00
				SAY	8442662.00

(Rs. Eighty Four Lakhs Fourty Two Thousand Six Hundred Sixty Two Only) (Excluding GST)


 संयुक्त महाप्रबंधक (अभि.- विद्युत) / Jt.GM (Engg. - E)
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