

भाविप्रा/खजुराहो/समप्र.(अभि०-विद्युत)/कार्यादेश सं.- 12/2020-21/466-74

दिनांक : 13.07.2020

E-Mail ID- gauravchhabra@volgatechnologies.com

सेवा में,

To,

मैसर्स वोल्गा एयर टेक्नोलॉजी (इंडिया),
ई-4/225, अरेरा कालोनी,
भोपाल-462016 (म.प्र.),

M/s Volga Air Technologies (India),
E-4/225, Arera Colony,
Bhopal-462016(MP),

GST No. - 23AFGPC9885C1ZI

Pan No. - AFGPC9885C

TENDER ID: 2020_AAI_45349_1

Name of work: Provision of VRV/VRF Air-conditioning System for New ATC Tower and Technical Block at Khajuraho Airport.

संदर्भ : 1. आपकी निविदा दिनांक. 15.05.2020

Ref: 1. Your tender Opened on 15.05.2020.

महोदय/ Sir

1. उपरोक्त कार्य की रुपये 1,63,41,482.00 (रुपये एक करोड़ तिरसठ लाख इक्तालीस हजार चार सौ ब्यासी मात्र) (जी.एस. टी. रहित) की मद दर निविदा, जो कि कार्य की अनुमानित लागत रुपये 2,20,37,516.00 (रुपये दो करोड़ बीस लाख सैतीस हजार पॉच सौ सोलह मात्र) (जी.एस.टी. रहित) से 25.84% (पच्चीस दशमलव आठ चार प्रतिशत) कम है, आपके द्वारा निविदा प्रपत्र की अनुसूची में दर्शायी गयी मद दरों पर भरी गई है, अध्यक्ष, भारतीय विमानपत्तन प्राधिकरण की ओर से स्वीकृत की जाती 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 totalling to Rs. 1,63,41,482.00 (Rupees One Crore Sixty Three Lakh Forty One Thousand Four Hundred Eighty Two only) (Excluding GST) which is 25.85% (Twenty Five point Eight Five percent) Below the Estimated cost put to the tender of Rs. 2,20,37,516.00 (Rupees Two Crore Twenty Lakh Thirty Seven Thousand Five Hundred Sixteen only) (Excluding GST).

2. सहायक महाप्रबन्धक (अभियांत्रिकी-विद्युत), भा.वि.प्रा., खजुराहो विमानक्षेत्र, खजुराहो इस कार्य के कार्य-प्रमारी अभियन्ता होंगे। आपसे अनुरोध है कि दिनांक 27 जुलाई 2020 तक सहायक महाप्रबन्धक (अभियांत्रिकी-विद्युत), खजुराहो विमानक्षेत्र, खजुराहो के कार्यालय में उपस्थित होकर ठेका संविदा को हस्ताक्षरित कर पूर्ण करें। अनुबन्ध 100 रुपए के गैर न्यायीक स्टाम्प पेपर पर सम्पादित किया जाएगा, स्टाम्प पेपर की कीमत आपके द्वारा वहन की जाएगी।

Assistant General Manager (Engg-Elect), AAI, Khajuraho Airport, Khajuraho shall be the Engineer-in-charge of the work. You are requested to attend the office of the Assistant General Manager (Engg-Elect), AAI, Khajuraho Airport, Khajuraho by 27.07.2020 to sign and complete the contract agreement. The contract agreement shall be executed on a non-judicial stamp paper of value Rs. 100.00 (Rupee Hundred only) and the cost of stamp paper shall be borne by you.

3. निविदा के साथ प्राप्त धरोहर राशि रुपये 4,40,750.00 (रुपये चार लाख चालीस हजार सात सौ पचास मात्र) संविदा के जी. सी.सी. के खण्ड संख्या 1 (अ) के अनुसार धरोहर राशि का हिस्सा मानकर उसमें बदल दिया जाएगा। कपया शेष धरोहर राशि रुपये 11,93,399.00 (रुपये ग्यारह लाख तिरानवे हजार तीन सौ निन्यानवे मात्र) इस पत्र के निर्गत दिनांक से 10

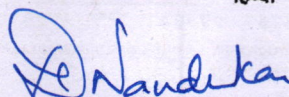
कार्यालय - नियंत्रक विमानपत्तन, वागर विमानक्षेत्र, खजुराहो, छत्तरपुर (म० प्र०) - 471606

दूरभाष - (07686) 272805, 274767, 274041, फैक्स-272810, 274765

Office of the Airport Controller, Civil Aerodrome, Khajuraho, Chhatarpur, (MP)-471606

Ph. (07686) 272805, 274767, 274041 Fax- 272810, 274765

“हिन्दी पत्रों का स्वागत है।”





भारतीय विमानपत्तन प्राधिकरण
Airports Authority of India

दिनों के भीतर जमा करें अन्यथा उक्त धनराशि की कटौती संविदा प्रपत्र की उक्त संदर्भित शर्त के अनुसार चालू लेखा बिलों से की जाएगी, जैसा कि आपके संविदा दस्तावेज में **जी.सी.सी. के खण्ड संख्या 1(अ)** में दिया गया है।

The earnest money amount of **Rs. 4,40,750.00 (Four Lakh Forty Thousand Seven Hundred Fifty Only)** received along with your tender will be treated and converted as a part of security deposit as per condition of GCC Clause no. 1 (A) of the contract document. Please deposit **Rs. 11,93,399.00 (Rupees Eleven Lakh Ninety Three Thousand Three Hundred Ninety Nine 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 **GCC Clause no. 1 (A)** of the contract document.

4. आपसे अनुरोध है कि संविदा श्रमिक प्रावधान (विनिमय एवं उन्मूलन) 1970 श्रमिक प्रावधान (विनिमय एवं उन्मूलन)-केन्द्रीय नियम 1971, न्यूनतम मजदूरी अधिनियम एवं इस सम्बन्ध में केन्द्र/राज्य सरकार के नियमों का पालन करना सुनिश्चित 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 Governments with upto date amendments.

5. आपको निर्देशित किया जाता है कि आप तुरन्त प्रभाव से प्रबन्धक (अभि0-विद्युत), खजुराहो विमानक्षेत्र, खजुराहो से सम्पर्क करें जो आपको कार्यस्थल सौंपने की व्यवस्था करेंगे।

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

6. कृपया ध्यान दें कि कार्य पूर्ण करने की अवधि **03 माह (Part-A)** है जो कि कार्यादेश जारी दिनांक के दस दिन बाद से प्रभावी मानी जाएगी एवं कार्य की दोष दायित्व अवधि **12 माह** मानी जाएगी तथा **पार्ट बी (Part-B)** कार्य पूर्ण करने के उपरान्त दोष दायित्व अवधि **06 माह** मानी जाएगी

Please note that time allowed for carrying out the work shall be **03 Months (Part-A)** and the same shall be reckoned from 10 days after issue of work order and work defect liability period of **12 Month** shall be deemed and for **Part- B** the defects liability period will be **06 Months (Six Months)** after completion of **Part- B** work.

7. संविदा के सन्दर्भ में किसी प्रकार का पत्राचार सामान्यतः सहायक महाप्रबन्धक (अभि0-विद्युत), खजुराहो विमानक्षेत्र, खजुराहो को सम्बोधित करें।

Any further correspondence in connection with the contract should normally be addressed to the Assistant General Manager (Engg-Elect), Khajuraho Airport, Khajuraho.

8. कृपया इस पत्र की पावती भेजें एवं पत्र कि अनुलिपि जो कि संलग्न है को हस्ताक्षरित कर अधोहस्ताक्षरी को स्वीकृत चिन्ह के रूप में वापस 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.

9. The rate quoted are excluding GST.

10. GST will be reimbursed on actual basis on submission of documentary evidence

संलग्नक / **Enclosures**

1- मात्रा अनुसूची / Schedule of Quantities.

Assistant General Manager (Engg-E)
Khajuraho Airport,
For and on behalf of the Chairman
Airports Authority of India

Schedule of Quantity

Name of work:- Provision of VRV/VRF Air-Conditioning System for New ATC Tower and Technical Block at Khajuraho Airport.

Tender ID- 2020_AAI_45349_1

SR. NO.	DESCRIPTION	UNIT	QTY.	Rate excl. GST	Amount (Rs.)
	Part -A : SITC				
	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. Every module more than 14 HP should have minimum 2 nos. fans, 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. Each module shall have single/multiple Inverter based scroll/Rotary compressors as per above mentioned capacities. In case of any of module failure, the rest of system should be capable of operation. The system shall have capability for Auto Refrigerant charge & to check gas leakage automatically periodically. 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, Machine Sound Level should not more than 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, positioning charges besides including charges towards structural steel supports, MS base frame duly painted & vibration isolation arrangement etc. complete as required. (COP not less than 3.4 at 100% load in cooling mode). The unit shall deliver the below mentioned capacity at 42 deg ambient temperature based on the Khajuraho, India ambient conditions during summer (bidder to consider applicable duration). The Contractor/OEM will arrange for factory inspection of COP & Capacity Testing of VRF Condensing Units at NABL/AHRI certified Laboratory preferably in India at OEM manufacturing facility without any extra cost to the AAI.				
i	54 HP (Minimum)	Nos.	2	691656.00	1383312.00
ii	46 HP (Minimum)	Nos.	3	583220.00	1749660.00
iii	36 HP (Minimum)	Nos.	1	462784.00	462784.00
iv	28 HP (Minimum)	Nos.	2	362432.00	724864.00
v	14 HP (Minimum) for TFA	Nos.	3	181216.00	543648.00
vi	Multiconnecting Kit for Outdoor Combination	Nos.	14	6038.00	84532.00

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SR. NO.	DESCRIPTION	UNIT	QTY.	Rate excl. GST	Amount (Rs.)
	Indoor Units				
2	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 220 ±6% 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.				
i	Ceiling Mounted 4 way Cassette Type : 4.5 TR (Minimum)	Nos.	3	35995.00	107985.00
ii	Ceiling Mounted 4 way Cassette Type : 4.0 TR (Minimum)	Nos.	8	33753.00	270024.00
iii	Ceiling Mounted 4 way Cassette Type : 3.5 TR (Minimum)	Nos.	6	33350.00	200100.00
iv	Ceiling Mounted 4 way Cassette Type : 3.2 TR (Minimum)	Nos.	17	32480.00	552160.00
v	Ceiling Mounted 4 way Cassette Type : 3.0 TR (Minimum)	Nos.	4	32718.00	130872.00
vi	Ceiling Mounted 4 way Cassette Type : 2.5 TR (Minimum)	Nos.	36	30965.00	1114740.00
vii	Ceiling Mounted 4 way Cassette Type : 2.0 TR (Minimum)	Nos.	12	31192.00	374304.00
3	Supply, Installation, Testing & Commissioning of VRV/VRF In-door units & Accessories:- Indoor Units shall be High Wall Mounted Type unit includes pre filter, fan section & DX coil section, required plugtop & cable to connect indoor unit to socket, including wireless remote control as per specified, all accessories, The housing of unit shall be light weight powder coated. The indoor unit shall be equipped with Forced Shut Adapter etc complete as required.				
i	High Wall Type : 2.0 TR	Nos.	4	21420.00	85680.00
4	Supply, Installation, Testing & Commissioning of Imported Indoor Y-joints.	Nos.	89	4255.00	378695.00
5	Supply, Charging and Testing of additional Refrigerant charge of R410a to compensate the additional piping done at field for all systems.	Kgs	300	450.00	135000.00
6	Supply, Installation, Testing & Commissioning of Centralized Control Touch based Controller, suitable to control minimum 128 indoor unit, intelligent manager with required software for high speed transmission and necessary accessories, required cable/wire for connection termination of this system for complete installation at desire location at site etc complete as required.. The following suitable controls shall be provided through this system of all indoor units individually:- 1) Temperature Controls, 2) ON/OFF Control, 3) Scheduling, 4) Monitoring & Control from a remote site. 5) Error Display 6) BMS Compatibilty	Nos.	1	68425.00	68425.00

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SR. NO.	DESCRIPTION	UNIT	QTY.	Rate excl. GST	Amount (Rs.)
	Refrigerant Piping				
7	Supply & Fixing of Interconnecting copper refrigerant pipe work of following sizes insulated with (class O) 19 mm / 13 mm thick Elastomeric Nitrile Rubber between indoor and outdoor units i/c refrigerant as per specifications. Pipes shall be fixed with suitable size of clamp / MS hanger / MS support / MS angle as per site requirement. 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 given as per specification. Piping shall be of following sizes :				
i	41.3 mm O.D. (insulation – 19 mm thick)	RMT	250	1350.00	337500.00
ii	38.1 mm O.D. (insulation – 19 mm thick)	RMT	20	595.00	11900.00
iii	34.9 mm O.D. (insulation – 19 mm thick)	RMT	120	1373.00	164760.00
iv	31.8 mm O.D. (insulation – 19 mm thick)	RMT	20	419.00	8380.00
v	28.6 mm O.D. (insulation – 19 mm thick)	RMT	200	1035.00	207000.00
vi	25.4 mm O.D. (insulation – 19 mm thick)	RMT	50	590.00	29500.00
vii	22.2 mm O.D. (insulation – 19 mm thick)	RMT	200	680.00	136000.00
viii	19.1 mm O.D. (insulation – 13 mm thick)	RMT	400	525.00	210000.00
ix	15.9 mm O.D. (insulation – 13 mm thick)	RMT	650	438.00	284700.00
x	12.7 mm O.D. (insulation – 13 mm thick)	RMT	130	484.00	62920.00
xi	9.5 mm O.D. (insulation – 13 mm thick)	RMT	650	294.00	191100.00
xii	6.4 mm O.D. (insulation – 13 mm thick)	RMT	60	217.00	13020.00
8	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 as required, suspended from ceiling/ fixed to wall with necessary angle/flat iron / hanging rod, for ceiling suspensions, clamps, anchor fastner, nuts, bolts, washers, not more than 1.5 mtr. apart complete as per specification to complete the job. The tray shall be as follows :-				
i	150 x 50 mm x 1.6mm thick	RMT	150	260.00	39000.00
ii	200 x 50 mm x 1.6mm thick	RMT	200	351.00	70200.00
iii	300 x 50 mm x 1.6mm thick	RMT	80	459.00	36720.00
9	Supply and installtion of hot dip G.I. cable tray Cover along with tees, bends, reducers, cross members and other accessories as required for Exposed Copper Piping. The cable tray shall be hang from ceiling/ fixed to wall with necessary angle/flat iron / hanging rod, for ceiling suspensions, clamps, anchor fastner, nuts, bolts, washers, not mor than 1.5 mtr. apart complete as per specification to complete the job. The tray shall be as follows :-				
i	200 x 50 mm x 1.6mm thick	RMT	300	205.00	61500.00
ii	300 x 50 mm x 1.6mm thick	RMT	50	272.00	13600.00

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SR. NO.	DESCRIPTION	UNIT	QTY.	Rate excl. GST	Amount (Rs.)
	Drain Piping				
10	Supply and fixing of UPVC SCH 80 (10Kg/ cm sq) drain water piping complete with fittings, support as per specification and insulated with 09 mm thick insulated with Nitrile Rubber insulation.				
i	25 mm dia ID	RMT	450	127.00	57150.00
ii	32 mm dia ID	RMT	450	159.00	71550.00
iii	40 mm dia ID	RMT	100	186.00	18600.00
	Control Cabling				
11	Supply, laying, connection, testing & commissioning of following sizes of Copper conductor Sheathed control cables with PVC conduit including fixing with clamps & proper connections to equipment etc. complete as required.				
i	2C x 1.0 Sq. mm	RMT	3200	125.00	400000.00
12	SITC of Eco-friendly refrigerant Split Inverter Air Conditioner minimum 3 Star BEE rating, suitable to operate on 230 V, 50 Hz, single phase A.C power supply along with remote control, job includes standard installation (refrigerant piping upto 3 mtr), conforming to IS:1391 with copper coil, 9 years warranty on compressor and 1 year warranty on machine, supply & fixing of M.S. angle iron stand for fixing outside unit etc. as required. including power and control cabling, outdoor stand as per Standard specification including as required.				
	2.0 TR (Nominal) Capacity - Hi wall	Set	22	39100.00	860200.00
13	Extra for supply & fixing of copper tubing, insulation piping, wires etc beyond 3 Mtr for split AC complete as required.	Mtr	130	450.00	58500.00
14	Supply, installation, testing & commissioning of Treated Fresh Air unit of minimum 5.5 Tr & 800 CFM with suitable electronic expansion valve which can communicate with the controller in the VRF condensing unit, complete with forward curved centrifugal driven set non woven synthetic prefilter, required plugtop & cable to connect to socket, including wireless/wired remote control as per specified, all accessories, canvas connection etc as required.	Nos.	6	84525.00	507150.00
15	Supply, installation, balancing and commissioning of site fabricated GSS sheet metal rectangular ducting of 0.63 mm thickness, 13 mm thick closed cell Nitrile rubber (Class "O") insulation on duct after applying suitable adhesive for Nitrile rubber, complete with neoprene rubber gaskets, elbows, splitter dampers, vanes, hangers, supports etc.-For TFA units.	Sq Mtr	90	1080.00	97200.00
16	Supplying & fixing of Fresh air louvers (Aluminium extruded only) with collar dampers.	Sq Mtr	5	5500.00	27500.00
17	Supply, installation, balancing and commissioning of factory fabricated 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.-Thickness 0.63 mm sheet	Sq Mtr	50	600.00	30000.00
18	Supplying & fixing of Fresh air intake louvers with bird screen dampers (Aluminium extruded only).	Sq Mtr	5	6500.00	32500.00

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SR. NO.	DESCRIPTION	UNIT	QTY.	Rate excl. GST	Amount (Rs.)
19	Supplying, installation, testing and commissioning of cubical type MV indoor electrical LT panel with IP 42 protection, suitable for 415 V, 3 phase, 50 Hz AC supply system fabricated in compartmentalised design from CRCA sheet steel of 2mm 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, having 630 Amp capacity extensible type TPN Aluminum Alloy bus bars of high conductivity, 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 copper earth bar of size 25mm 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 in two half, i/c providing following switch gears:-	Job	1	387275.00	387275.00
	(A) Main Pannel (for ODU)				
	INCOMING :-				
	MCCB FP 630A, 35KA, (ICU=ICS)with Micro processor based release- 2 Nos				
	Digital Multifunction Meter				
	C.T's 630/5Amp, CL 1.0				
	R,Y,B indicating LED set				
	Control MCB				
	BUSCOUPLER :-				
	MCCB FP 630A, 35KA, (ICU=ICS)with Micro processor based release- 1 Nos				
	ON/OFF/TRIP Lamps LED				
	Control MCB				
	Bus Bar:-				
	650 Amps Aluminium busbar for phase and neutral - 1 Set				
	INTRELOCKING				
	Mechanical interlocking b/w Incomers & Buscoupler				
	OUTGOINGS :-				
	TPN MCB 40 A- 10 Nos				
	FP RCBO 40 A (300 mA)- 25 Nos				
20	Supply of 4CX16 sq. mm. sizes of Power cable copper conductor, XLPE insulated, PVC sheathed, Armoured at outer sheathed, 1100V grade as per IS 7098 (Part1) 1988 with upto date amendmend	Mtr	504	499.00	251496.00
21	Supply of 4CX25 sq. mm. sizes of Power cable copper conductor, XLPE insulated, PVC sheathed, Armoured at outer sheathed, 1100V grade as per IS 7098 (Part1) 1988 with upto date amendmend	Mtr	189	833.00	157437.00
22	Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of upto 35 sqmm size on wall surface as required.(clamped with 1mm thick saddle)	Mtr	154	78.00	12012.00
23	Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of upto 35 sqmm size on cable tray as required.	Mtr	506	78.00	39468.00

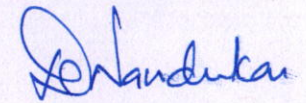
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SR. NO.	DESCRIPTION	UNIT	QTY.	Rate excl. GST	Amount (Rs.)
24	Supplying and making end termination with brass compression gland and copper lugs for 4CX16 sqmm of PVC insulated and PVC sheathed / XLPE copper conductor cable of 1.1 KV grade as required.	Set	16	800.00	12800.00
25	Supplying and making end termination with brass compression gland and copper lugs for 4CX25 sqmm of PVC insulated and PVC sheathed / XLPE copper conductor cable of 1.1 KV grade as required.	Set	6	1200.00	7200.00
26	Supply of 3.5C X 400 sq. mm. sizes of Power cable Aluminium conductor, XLPE insulated, PVC sheathed, Armoured at outer sheathed, 1100V grade as per IS 7098 (Part1) 1988 with upto date amendmend	Mtr.	410	1286.00	527260.00
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. (a) Above 185 sq. mm and upto 400 sq. mm (clamped with 40x3mm MS flat clamp)	Mtr.	40	169.00	6760.00
28	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. (a) Above 185 sq. mm and upto 400 sq. mm (clamped with 40x3mm MS flat clamp)	Mtr.	300	176.00	52800.00
29	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size in the existing RCC/ HUME/ METAL pipe as required. (a) Above 185 sq. mm and upto 400 sq. mm	Mtr.	32	163.00	5216.00
30	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1KV grade of following size in the existing masonry open duct as required. (a) Above 185 sq. mm and upto 400 sq. mm	Mtr.	16	163.00	2608.00
31	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 (a)3.5 x 400 sq.mm	Set	8	2500.00	20000.00
32	Earthing with copper earth plate 600mm x 600mm x 3 mm thick including accessories and providing masonary enclosure with cover plate having locking arrangement and watering pipe of 2.7 meter long etc. with charcoal/ coke and salt complete as required.	Set	2	13000.00	26000.00
33	Providing and fixing 25mm X 5 mm copper strip in 40 mm dia GI pipe from earth electrode including connection with brass nut, bolt, spring, washer excavation and re-filling etc. as required.	Mtr.	24	1200.00	28800.00
34	Providing and fixing 25 mm X 5 mm copper strip on surface or in recess for connections etc. as required.	Mtr.	60	1000.00	60000.00
35	Providing and fixing 6 SWG dia G.I. wire on surface or in recess for loop earthing as required	Mtr.	1600	50.00	80000.00
36	Supply and fixing of suitable size of GI / PVC Volume Control Dampers suitable for GI / PVC fresh air duct, to be provided in supply air registers / terminals etc complete as required.	Sq. Mtr	10	4900.00	49000.00

S. S. Sankar

SR. NO.	DESCRIPTION	UNIT	QTY.	Rate excl. GST	Amount (Rs.)
	Part -B : Annual Comprehensive Maintenance				
37	Operation of all VRV/VRF system including all IDU & ODU of all capacity, Refrigerent copper pipe, drain pipe, axial fan, duct/PVC pipe with LT panel for ODU, split AC, including all installation of PART-A in ATC Tower & Technical Block at Khajuraho Airport i/c carrying out monthly servicing and complete maintenance of all components as per OEM standards by providing trained service engineer (minimum 01 semi skilled) with all tools and plant i/c attending all breakdown repairs etc. complete as per instructions of Engineer-in-Charge as required. (First year DLP after date of completion).				
i	For 1st Year During DLP (Only Opration)	Job/ year	1	150000.00	150000.00
38	Annual Comprehensive Maintenance Contract and Operation of all VRV/VRF system including all IDU & ODU of all capacity, Refrigerent copper pipe, drain pipe, axial fan, duct/PVC pipe with LT panel for ODU, split AC, including all installation of PART-A in ATC Tower & Technical Block at Khajuraho Airport i/c carrying out monthly servicing and complete maintenance of all components as per OEM standards by providing trained service engineer (minimum 01 semi skilled) with all tools and plant i/c attending all breakdown repairs etc. complete as per instructions of Engineer-in-Charge as required.				
ii	For 1st Year after DLP (For Operation and Comprehensive Maintenance)	Job/ year	1	150000.00	150000.00
iii	For 2nd Year after DLP (For Operation and Comprehensive Maintenance)	Job/ year	1	606000.00	606000.00
iv	For 3rd Year after DLP (For Operation and Comprehensive Maintenance)	Job/ year	1	636300.00	636300.00
v	For 4th Year after DLP (For Operation and Comprehensive Maintenance)	Job/ year	1	668115.00	668115.00
				Grand Total	16341482.00
				Say	16341482.00

Rupees One Crore Sixty Three Lakh Forty One Thousand Four Hundred Eighty Two only (Excluding GST)



सहा. महाप्रबंधक (अभि-विधुत)
भा. वि. प्रा. खजुराहो विमानतल, खजुरा