



भारतीय विमानपतन प्राधिकरण

AIRPORTS AUTHORITY OF INDIA

शिमला हवाई अड्डा, शिमला (हि. प्र.)

SHIMLA AIRPORT, SHIMLA (H.P.)



पत्रसंख्या : भा:- AAI/SML/E-E/AMC(2022-24)/W.O./22-23/02/214-219 दिनांक: 08.02.2023
09

Work Order / कार्य आदेश

सेवा में,

मेसर्स भारत इलेक्ट्रिक,
प्लॉट नं.: 113, ग्रीन पैलेस
नियर गुरुसंगत दरबार रोड
सिन्धी कालोनी, खामला,
नागपुर - 440025

To

M/s Bharat Electric,
Plot No. 113, Green Palace,
Near Gurusangat darbar Road,
Sindhi Colony, Khamla,
Nagpur-440025

कार्य का नाम: "ए. आर. एम. ओ. ऑफ इलेक्ट्रीकल एंड मिकेनिकल इन्स्टोलेशनस, ए. सी. यूनिट्स, वाटर कूलर, वाटर प्युरिफायर, फायर अलार्म एण्ड डिटेक्शन सिस्टम एट शिमला एयरपोर्ट फॉर द इयर (2022-2024)".

Name of work: "ARMO of Electrical and Mechanical Installations, AC Units, Water cooler, Water purifiers, Fire Alarm and Detection Systems at Shimla Airport for the year 2022-2024".

संदर्भ : 1. Tender ID:-2022_AAI_133739_1

2. Financial Bid Opened on dated 12.12.2022

महोदय/Dear Sir,

- उपरोक्त कार्य हेतु आपका ई-टेंडर आपके द्वारा कोट किये गए मद मूल्यों पर आपकी कुल राशि रु. 47,71,200.00/- (रु. सैंतालिस लाख, इकहतर हजार, दो सौ) है (Excluding GST & Item No.: 1.2) जो कि न्यायोचित लागत रु. 56,79,222.00/- (Excluding GST Item No.: 1.2) जो टेंडर में दी गयी है से (-) 15.99% नीचे है, अध्यक्ष भारतीय विमानपतन प्राधिकरण की ओर से स्वीकृत किया जाता 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 totaling to Rs. 47,71,200.00/- (Rs. Forty Seven Lakh Seventy One Thousand Two Hundred Only), (Excluding GST Item No.: 1.2) which is (-) 15.99% below the justified cost put to the tender of Rs. 56,79,222.00/- (Excluding GST Item No.: 1.2).

- सहा. महाप्रबंधक (अभि.-वि.), जम्मू एयरपोर्ट, जम्मू-180003 इस कार्य के प्रभारी अभियंता होंगे। आपसे निवेदन है कि आप करारनामे पर हस्ताक्षर करने हेतु कार्य आदेश के जारी होने से 15 (पंद्रह) दिनों के अन्दर किसी भी कार्य दिवस में कार्यालय सहा. महाप्रबंधक (अभि.-वि.), जम्मू एयरपोर्ट, जम्मू-180003 पर उपस्थित होकर करारनामे को पूरा करें। ठेके का कारनामा रु. 100/- के नॉनजुडिशल स्टॉप पेपर पर निष्पादित किया जायेगा तथा नॉनजुडिशल स्टॉप पेपर का खर्च आपके द्वारा उठाया जायेगा।

Assistant General Manager (E-E), Jammu Airport, Jammu-180003 shall be Engineer-in-Charge of the work. You are requested to attend the Office of Assistant General Manager (E-E), Jammu Airport, Jammu-180003 to sign and complete the agreement within 15 (Fifteen) days of issuing of this work order. The contract agreement shall be executed on a Non-Judicial Stamp paper of Rs. 100/- and the cost of the stamp paper shall be borne by you.

शिमला विमानक्षेत्र: 171011, दूरभाष क्र: 0177-2736835, फैक्स: 0177-2736673

Shimla Airport: 171011, Tel.: 0177-2736835, Fax: 0177-2736673



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3. आपके द्वारा EMD के रूप में जमा राशि रुपये **1,21,954.00/-** जो कि निविदा के साथ प्राप्त की गई है को अनुबंध दस्तावेज के पृष्ठ 16 पर जी सी सी क्लॉज 1A के अनुसार सुरक्षा जमा राशि के एक हिस्से के रूप में माना जाएगा और परिवर्तित किया जाएगा। कृपया इस पत्र के जारी होने की तिथि से 10 दिनों के भीतर **4,77,120.00 रुपये (मात्र चार लाख सतहतर हजार एक सौ बीस रुपये)** सुरक्षा जमा राशि जमा करें, जिसे विफल करते हुए, अनुबंध के पृष्ठ 16 पर जी सी सी क्लॉज 1 A के अनुसार घटाया जाएगा।

The EMD amount of **Rs 1,21,954.00**, received along with your tender will be treated and converted as a part of Security Deposit as per GCC Clause 1A on page 16 of contract document. Please deposit of **Rs 4,77,120.00 (Rupees Four Lakh, Seventy Seven Thousand One Hundred & Twenty Only)** towards Security Deposit within 10 days from the date of issue of this letter, failing which, the same will be deducted as per GCC Clause 1A on page 16 of contract document.

4. आपसे निवेदन है कि आप अनुबंध श्रम (विनियमन और उन्मूलन) अधिनियम 1970 और अनुबंध श्रम (विनियमन और उन्मूलन) केंद्रीय नियमों 1971, न्यूनतम वेतन अधिनियम, बाल श्रम (निषेध और विनियमन) अधिनियम 1986, निर्माण श्रमिकों (रोजगार और सेवा की स्थिति का विनियमन) अधिनियम 1996, भवन और अन्य निर्माण श्रमिकों कल्याण उपकर अधिनियम 1996 धारा जो कि 19 पृष्ठ संख्या 49 ऑफ जी सी सी निविदा में निर्दिष्ट किया गया है तथा केंद्र एवं राज्य सरकार के नियमों का अनुपालन करें।

You are requested to comply with the provision of Contract labour (Regulation and Abolition) Act 1970 and contract labour (Regulation and Abolition) Central rules 1971, Minimum Wage Act, Child Labour (Prohibition & Regulation) Act 1986, Construction Workers (Regulation of Employment and Condition of Service) Act 1996, Building and other construction Workers Welfare Cess Act 1996 as specified in Clause 19 on page no 49 of GCC of tender and rules of Central and State Government.

5. आपको निर्देश दिया जाता है कि आप सहा. प्रबंधक (अभि.-वि.), शिमला विमानक्षेत्र से तुरंत मिलें और वह साइट सौंपने की व्यवस्था करेंगे। कृपया नोट करें कि कार्य का निर्धारित समय 24 (चौबीस) महीना है, जो कि 20.02.2023 से गिना जाएगा।

You are directed to contact Assistant Manager (E-E), Shimla Airport immediately who will arrange to handover the site to you. Please note the time allowed for carrying out the work is **24 (Twenty Four) months** and the same shall be reckoned from 20.02.2023.

6. इस ठेके के सम्बन्ध में आगे का कोई भी पत्राचार सहा. महाप्रबंधक (अभि.-वि.), जम्मू एयरपोर्ट, जम्मू-180003 के पते पर किया जाए।

Any further correspondence in connection with this contract should normally be addressed to Assistant General Manager (E-E), Jammu Airport, Jammu -180003.

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

All The letters referred above shall form part of contract.

8. अगर अंग्रेजी और हिंदी के पाठ में कोई अंतर पाया जाता है तो अंग्रेजी विवरण सही माना जायेगा।

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

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SHIMLA AIRPORT, SHIMLA (H.P.)



9. कृपया रसीद स्वीकार करें और स्वीकृति के टोकन के रूप में अधोहस्ताक्षरी को हस्ताक्षर करने के बाद इस पत्र की डुप्लीकेट प्रति संग्रहण 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/Enclosed: शेड्यूल आफ क्वांटिटी /Schedule of Quantity

VIVEK KATARA
Digitally signed
by VIVEK KATARA
Date: 2023.02.09
15:49:26 +05'30'

(विवेक कटारा/Vivek Katara)
सहा.म.प्र. (अभि.-वि.)/AGM. (E-E)
जम्मू विमानक्षेत्र/Jammu Airport.
जम्मू/Jammu-180003.

Internal:

- 1.
2. क्षेत्रीय कार्यपालक निदेशक, भा.वि.प्रा., क्षेत्रीय मुख्यालय-उत्तरी क्षेत्र, नई दिल्ली।
3. महाप्रबंधक (अभि.-वि.), भा.वि.प्रा., क्षेत्रीय मुख्यालय-उत्तरी क्षेत्र, नई दिल्ली।
4. महाप्रबंधक (वित्त), भा.वि.प्रा., क्षेत्रीय मुख्यालय-उत्तरी क्षेत्र, नई दिल्ली।
5. विमानपत्तन निदेशक, भा.वि.प्रा., शिमला विमानक्षेत्र।
6. प्रबंधक (अभि.-सि.), भा.वि.प्रा., शिमला विमानक्षेत्र।
7. कार्य फाइल।

Corrected
शिवराज

VIVEK KATARA
Digitally signed
by VIVEK KATARA
Date: 2023.02.09
15:50:17 +05'30'

(विवेक कटारा/Vivek Katara)
सहा.म.प्र. (अभि.-वि.)/AGM. (E-E)
जम्मू विमानक्षेत्र/Jammu Airport.
जम्मू/Jammu-180003.

शिमला विमानक्षेत्र: 171011, दूरभाष क्र: 0177-2736835, फ़ैक्स: 0177-2736673

Shimla Airport: 171011, Tel.: 0177-2736835, Fax: 0177-2736673

Schedule of Quantity

Name of Work:- ARMO of Electrical and Mechanical Installations, AC Units, Water cooler, Water purifiers , Fire Alarm and Detection Systems at Shimla Airport for the year 2022-2024

Sr. No.	Description of Items	Unit	Qty.	Rate (Ex. GST)	Amount
1.1	SH-A(I): OPERATION AND MAINTENANCE WORK OF E&M INSTALLATION Periodical maintenance and operation of all electrical & mechanical installations of Terminal Building, Ancillary Building, Fire Station, Perimeter/street lighting , Carpark lighting, AFL ,DVOR, substation equipments (DG set, HT & LT Panels , AMF Panels, APFC Panel ,transformers,CCR etc), pump sets, GLF installations & E&M installations etc. on daily/weekly/monthly/quarterly/yearly basis as per maintenance schedule including preparation & maintenance of records /documents etc as per scope of work given in special conditions and technical specifications of contract etc complete as required. The contractor is required to deploy following minimum manpower in shift of eight hours on all days including holidays except on weekly off day : (1) Supervisor Cum Wireman- 01 Nos (Skilled). (2) Wireman - 03 Nos (Skilled). (3) DG Operator & AC operator - 02 Nos. (Semi-skilled). (4) Helper - 04 Nos.(Un-skilled).	Month	24.00	165200.00	3964800.00
1.2	ITEM DELETED	NIL	0.00	0.00	0.00
1.3	Provision of additional Hours for operation due to delay in flight, emergency,major maintenance work beyond the scope of item no :- 1 on hourly basis :- 1) Skilled manpower :- 1 No.	Hours	50.00	90.00	4500.00
1.4	Provision of additional Hours for operation due to delay in flight, emergency,major maintenance work beyond the scope of item no :- 1 on hourly basis :- 1) Semi-Skilled manpower :- 1 No.	Hours	50.00	75.00	3750.00
1.5	Provision of additional Hours for operation due to delay in flight, emergency,major maintenance work beyond the scope of item no :- 1 on hourly basis :- 1) Un-Skilled manpower :- 1 No.	Hours	50.00	65.00	3250.00
1.6	SH-A(II): Minor/Special Repairs/Preventive Maintenance Works Inspection , overhauling and servicing, of 3 Ph, 11KV 400/600 A ALSTROM make HT Oil circuit breaker and testing of dielectric strength of oil upto 60 KV and submission of report etc complete as required.	Job	6.00	5000.00	30000.00
1.7	Checking, servicing, callibration testing & submission of report of Alstrom make following protection relays provided on 11 KV, oil circuit breaker panel complete as per site requirement - 1) IDMT relays a) Over Current:-6 Nos. b) Earth Fault:- 3 Nos. 2) Auxillary Relay (Type-VAA/VAX/VAJH) for transformer protection -03 Nos 3) Current/PT Transformer	Job	2.00	2500.00	5000.00
1.8	Inspection, overhauling, servicing & testing of 630 A M-Pact make Air circuit breaker and submission of report etc complete as required.	Job	6.00	1000.00	6000.00
1.9	Checking, servicing, callibration testing & submission of report of Alstrom/English electricals make following protection relays provided on , LT Air circuit breaker panel complete as per site requirement - 1) IDMT relays a) Over Current:-4 Nos. b) Earth Fault:- 2 Nos.	Job	2.00	2500.00	5000.00
2	De-hydration/centrifuging and testing of transformer oil by using filtration machine for installed transformer of 250 KVA capacity and oil capacity of Anprox. 240 ltrs to get desired dielectric strength of oil upto 60 KV BDV etc as required.	Job	4.00	2500.00	10000.00
2.1	Supply and topping up the transformer/OCB with new transformer oil after dedydration/centrifuging and testing of dielectric strength of oil upto 60 KV BDV etc as required.	Ltr	600.00	90.00	54000.00
2.2	Servicing of 250 KVA Capacity oil type transformer of (Make- Kirloskar) including replacement of complete gasket set and 4 Nos LV bushing ,testing , commissioning and submission of report etc complete as required.	Job	1.00	7500.00	7500.00
2.3	Attending the breakdown maintenance of 11 KV HT panel of Alstrom make OCBs including Inspection,fault detection,fault rectification and restoration of Panel to normal workinf condition and submission of report to AAI etc complete as required.	Job	2.00	7500.00	15000.00
2.4	Supply and replacing the Silica gel 250 KVA Transformer Breathers installed in power transformer at various locations at Shimla Airport.	Job	2.00	500.00	1000.00
2.5	Inspection , servicing and calibration of CCR & sensivity relay on 4KW CCR of Youyang make including testing & submission of report etc complete as required.	Job	4.00	750.00	3000.00
2.6	Inspection , servicing and calibration of CCR & sensivity relay on 20 KW CCR of NASU make including testing & submission of report etc complete as required.	Job	2.00	750.00	1500.00
2.7	Inspection , servicing and calibration of CCR & sensivity relay on 20 KW CCR of Youyang make including testing & submission of report etc complete as required.	Job	2.00	750.00	1500.00
2.8	Inspection ,overhauling,servicing & ground calibration of AMA make PAPI Units A,B,C & D (Set of 4) installed at Shimla Airport Runaway 32/14 through OEM or authorized service provider of OEM,Job Includes Overhauling of PAPI Units , cleaning of reflector,primary and secondary lenses,adjustment of lenses (if required) with following testings and calibration of PAPI Units as per required angle and submission of report/Calibration certificate etc complete as required :- (1) Reference Level check through spirit level/Clineo meter. (2)Reference level setting (wherever required). (3)PAPI Unit angle check through Clineo meter. (4) PAPI Unit angle setting. (5) Angle check through PAPI checkstick.	Job	2.00	10000.00	20000.00
2.9	Painting of following items in two or more coats using Aluminium paint of approved make including cleaning of surface etc. , re-writing the identification letters/numbers (wherever required) etc complete as required. GI Poles of height upto 5 Mtrs i/c cable junction box.	Job	498.00	50.00	24900.00
3	Painting of following items in two or more coats using enamel paint of approved make including cleaning of surface etc. , re-writing the identification letters/numbers (wherever required) etc complete as required. HIRL/MIRL runway fittings i/c base plate	Job	300.00	50.00	15000.00
3.1	Spray painting of sheet metal enclosures of electrical equipments such as feeder pilars, distribution boards, electrical panel, frame etc. including cleaning the surface,painting with two or more coats of grey (yellow in case of PAPI Units) or any other colour of approved make including rewrirting the identification circuit, Protecting and covering the electrical accessories during painting and removing after work is over etc complete as reqd.	Sq Mtr	150.00	50.00	7500.00
3.2	Painting of 300 mm X300mm (nominal) size Earth pits in two or more coats of desired color and of approved make including cleaning of surface , re-writing the identification letters etc complete as required.	Job	120.00	50.00	6000.00
3.3	Repairing of existing earth pits including supply and fixing of CI Cover plate ,funnel,necessary brick work, plastering & painting the masonry chamber etc complete as required.	Job	10.00	500.00	5000.00
3.4	Providing First Aid Box as approved by St. Johns Ambulance Brigade /Indian Red Cross Confirming to IS 2217-1963 with upto date amendments.	Each	1.00	500.00	500.00
3.5	SH-A(III):- Repair works(To be executed as and when required) Rewinding of 7.5 HP submersible pump set including replacement of defective parts such as seal , bush bearing etc including less for dismantled copper wire etc complete as required.	Job	2.00	5000.00	10000.00
3.6	Lifting and lowering of submersible pump upto 7.5 HP capacity upto 15 Mtr deep openewell including arranging machine or chain pulley block etc complete as required.	Job	2.00	2500.00	5000.00
3.7	Overhauling, & Servicing/repairing of 7.5 HP pump set including supply and replacement of defective bearing,bushes, glands , alignment of shaft,cleaning and lubrication and re-installation to normal working condition etc complete as required.	Job	2.00	2000.00	4000.00
3.8	Complete copper wire rewinding of the following Ceiling Fans / Exhaust Fan/ wall mounting Fan i/c to & fro transportation. 1200mm sweep Ceiling Fan	Job	5.00	400.00	2000.00
3.9	Complete copper wire rewinding of the following Ceiling Fans / Exhaust Fan/ wall mounting Fan i/c to & fro transportation. 400mm sweep wall mounting Fan	Job	5.00	400.00	2000.00

Sr. No.	Description of Items	Unit	Qty.	Rate (Ex. GST)	Amount
4	Complete copper wire rewinding of the following Ceiling Fans / Exhaust Fan/ wall mounting Fan i/c to & fro transportation. 200mm sweep Exhaust Fan	Job	5.00	400.00	2000.00
4.1	Complete copper wire rewinding of the following Ceiling Fans / Exhaust Fan/ wall mounting Fan i/c to & fro transportation. 300mm sweep Exhaust Fan	Job	5.00	400.00	2000.00
4.2	Complete copper wire rewinding of the following Ceiling Fans / Exhaust Fan/ wall mounting Fan i/c to & fro transportation. 400mm sweep Exhaust Fan	Job	5.00	400.00	2000.00
4.3	SH-A(IV):- SUPPLY OF SPARES Supply of MCB's/Fuse 63 Amp, 10KA, TPN, C series, MCB	Each	5.00	750.00	3750.00
4.4	Supply of MCB's/Fuse 32 Amp, 10KA, TPN, C series, MCB	Each	5.00	650.00	3250.00
4.5	Supply of MCB's/Fuse 40 Amp,10KA, 4P, C series MCB	Each	5.00	1000.00	5000.00
4.6	Supply of MCB's/Fuse 6 Amp,10KA, SP, C series MCB	Each	5.00	125.00	625.00
4.7	Supply of MCB's/Fuse 10 Amp, 10KA, SP, C series MCB	Each	5.00	125.00	625.00
4.8	Supply of MCB's/Fuse 16 Amp, 10KA, SP, C series MCB	Each	5.00	125.00	625.00
4.9	Supply of MCB's/Fuse 20 Amp, 10KA, SP, C series MCB	Each	5.00	125.00	625.00
5	Supply of MCB's/Fuse 32 Amp, 10KA, SP, C series MCB	Each	2.00	125.00	250.00
5.1	Supply of MCB's/Fuse 32 Amp, TPN 30KA MCCB	Each	1.00	3500.00	3500.00
5.2	Supply of MCB's/Fuse 100 Amp, TPN,30KA MCCB	Each	1.00	5000.00	5000.00
5.3	Supply of MCB's/Fuse Fuse - 63 AMP HRC Knife type	Each	5.00	75.00	375.00
5.4	Supply of MCB's/Fuse Fuse-250 Amp HRC Knife type	Each	5.00	125.00	625.00
5.5	Supply of Meters/ISI marked PIANO type Switch/ Socket/Fan regulator/Plug Top/Gang Box of various rating. 6 pin 15/16 & 5/6 Amp universal socket outlet, piano type ISI marked	Each	10.00	125.00	1250.00
5.6	Supply of Meters/ISI marked PIANO type Switch/ Socket/Fan regulator/Plug Top/Gang Box of various rating. S.P. 5/6 amps, one way switch, piano type ISI marked	Each	10.00	15.00	150.00
5.7	Supply of Meters/ISI marked PIANO type Switch/ Socket/Fan regulator/Plug Top/Gang Box of various rating. S.P. 15/16 amps, one way switch, piano type ISI marked	Each	10.00	45.00	450.00
5.8	Supply of Meters/ISI marked PIANO type Switch/ Socket/Fan regulator/Plug Top/Gang Box of various rating. 15/16 Amp ISI Marked 1M Modular Swich	Each	10.00	75.00	750.00
5.9	Supply of Meters/ISI marked PIANO type Switch/ Socket/Fan regulator/Plug Top/Gang Box of various rating. 15/16 Amp ISI Marked 2M modular socket	Each	30.00	100.00	3000.00
6	Supply of Meters/ISI marked PIANO type Switch/ Socket/Fan regulator/Plug Top/Gang Box of various rating. 3 Pin 5/6A Plug Top	Each	20.00	40.00	800.00
6.1	Supply of Meters/ISI marked PIANO type Switch/ Socket/Fan regulator/Plug Top/Gang Box of various rating. 3 Pin 15/16A Plug Top	Each	10.00	35.00	350.00
6.2	Supply of Meters/ISI marked PIANO type Switch/ Socket/Fan regulator/Plug Top/Gang Box of various rating. Electronic Fan Regulator	Each	15.00	225.00	3375.00
6.3	Supply of Meters/ISI marked PIANO type Switch/ Socket/Fan regulator/Plug Top/Gang Box of various rating. 6 Modular PVC Electrical surface Box with grid frame & Cover but w/o Modular switch & socket	Each	10.00	100.00	1000.00
6.4	Supply of Meters/ISI marked PIANO type Switch/ Socket/Fan regulator/Plug Top/Gang Box of various rating. 4 Modular PVC surface Box with grid frame & Cover but w/o Modular switch & socket	Each	10.00	100.00	1000.00
6.5	Supply of Meters/ISI marked PIANO type Switch/ Socket/Fan regulator/Plug Top/Gang Box of various rating. 3 Modular PVC Electrical surface Box with grid frame & Cover but w/o Modular switch & socket	Each	10.00	100.00	1000.00
6.6	Supply of Meters/ISI marked PIANO type Switch/ Socket/Fan regulator/Plug Top/Gang Box of various rating. Class-1, 3 Phase Digital Energy Meter	Each	2.00	2500.00	5000.00
6.7	Supply of Meters/ISI marked PIANO type Switch/ Socket/Fan regulator/Plug Top/Gang Box of various rating. Class 1,600A/5A, 96* 96mm 3Phase Digital Ammeter with LCD/LED Display for LT Panel.	Each	2.00	1000.00	2000.00
6.8	Supply of Meters/ISI marked PIANO type Switch/ Socket/Fan regulator/Plug Top/Gang Box of various rating. Class 1, 96*96mm 3Phase Digital Voltmeter with LCD/LED Display for LT Panel	Each	6.00	1000.00	6000.00
6.9	Supply of Meters/ISI marked PIANO type Switch/ Socket/Fan regulator/Plug Top/Gang Box of various rating. Class 1,250A/5A, 96* 96mm 3Phase Digital Ammeter with LCD/LED Display for LT Panel.	Each	4.00	1000.00	4000.00
7	Supply of Capacitors/Batten/Battery/Casing Cap/indication lamps 2.5 MFD 230V /440 AC Capacitor	Each	10.00	25.00	250.00
7.1	Supply of Capacitors/Batten/Battery/Casing Cap/indication lamps 750 W Halogen Heat Pillar Rod	Each	50.00	225.00	11250.00
7.2	Supply of Capacitors/Batten/Battery/Casing Cap/indication lamps 12 V, 65 AH, Tubular SMF Battery suitable for 125 KVA DG Set	Each	2.00	5000.00	10000.00
7.3	Supply of Capacitors/Batten/Battery/Casing Cap/indication lamps Supply of PVC Batten Holder	Each	10.00	35.00	350.00
7.4	Supply of Capacitors/Batten/Battery/Casing Cap/indication lamps Supply of 20X12mm Casing Cap	Mtr	15.00	20.00	300.00
7.5	Supply of Capacitors/Batten/Battery/Casing Cap/indication lamps Supply of 25X16mm Casing Cap	Mtr	15.00	25.00	375.00
7.6	Supply of Capacitors/Batten/Battery/Casing Cap/indication lamps Panel Universal LED Indication lamp(Red)	Each	20.00	100.00	2000.00
7.7	Supply of Capacitors/Batten/Battery/Casing Cap/indication lamps Panel Universal LED Indication lamp(Yellow)	Each	20.00	100.00	2000.00
7.8	Supply of Capacitors/Batten/Battery/Casing Cap/indication lamps Panel Universal LED Indication lamp(Blue)	Each	20.00	100.00	2000.00
7.9	Supply of Capacitors/Batten/Battery/Casing Cap/indication lamps Panel Universal LED Indication lamp(Green)	Each	20.00	100.00	2000.00
8	Supply of Capacitors/Batten/Battery/Casing Cap/indication lamps Mushroom Head Push-Turn Button	Each	5.00	100.00	500.00
8.1	Supply of Capacitors/Batten/Battery/Casing Cap/indication lamps Panel Push Button	Each	30.00	100.00	3000.00
8.2	Supply of Cables/ Wires Supply of 3Cx 2.5 sqmm copper XLPE insulated /PVC sheathed armoured 1.1KV grade cable conforming to IS:7098 (Part-1) 1988 with up to date ammendments power cable etc. as required.	Mtr	90.00	55.00	4950.00

Sr. No.	Description of Items	Unit	Qty.	Rate (Ex. GST)	Amount
8.3	Supply of 2.5 sqmm single core FRLS PVC insulated ,1.1KV industrial grade conductor conforming to IS: 694 with up to date ammendments power cable etc. as required.	Mtr	90.00	25.00	2250.00
8.4	Supply of 4 sqmm single core FRLS PVC insulated ,1.1KV industrial grade conductor conforming to IS: 694 with up to date ammendments power cable etc. as required.	Mtr	90.00	35.00	3150.00
8.5	Supply of GLF SPARES Supply of following rating 5000V, 50 Hz Series Isolating Transformers encapsulated in black crosslinked polychloroprene compound like TPE /TPR / TPV with primary and secondary connections suitable to be operated via ILCMS System confirming to specification as required suitable for above mentioned fittings for following applications and compatible to use on ALCMS i. 315W/300W, 6.6/6.6A Isolating Transformer	Each	5.00	2500.00	12500.00
8.6	Supply of following rating 5000V, 50 Hz Series Isolating Transformers encapsulated in black crosslinked polychloroprene compound like TPE /TPR / TPV with primary and secondary connections suitable to be operated via ILCMS System confirming to specification as required suitable for above mentioned fittings for following applications and compatible to use on ALCMS ii. 200W, 6.6/6.6A Isolating Transformer	Each	5.00	2500.00	12500.00
8.7	Supply of following rating 5000V, 50 Hz Series Isolating Transformers encapsulated in black crosslinked polychloroprene compound like TPE /TPR / TPV with primary and secondary connections suitable to be operated via ILCMS System confirming to specification as required suitable for above mentioned fittings for following applications and compatible to use on ALCMS iii. 150W, 6.6/6.6A Isolating Transformer	Each	10.00	2500.00	25000.00
8.8	Supply of following rating 5000V, 50 Hz Series Isolating Transformers encapsulated in black crosslinked polychloroprene compound like TPE /TPR / TPV with primary and secondary connections suitable to be operated via ILCMS System confirming to specification as required suitable for above mentioned fittings for following applications and compatible to use on ALCMS iv. 45W, 6.6/6.6A Isolating Transformer	Each	5.00	2500.00	12500.00
8.9	Supply of Airfield Lighting (AFL) 5 KV grade, Single Core, Copper Conductor, Copper shielded, XLPE insulated, and with inner and outer semi conductor, Polyethylene (PE) outer sheathed, Copper Braid, Unarmoured Underground Cable for airfield lighting Primary Circuit, confirming to specification as specified in technical specification of the following sizes as required and suitable for communication on existing ALCMS system i. 16 sq. mm.	Mtr	200.00	50.00	10000.00
9	Supply of Airfield Lighting (AFL) 5 KV grade, Single Core, Copper Conductor, Copper shielded, XLPE insulated, and with inner and outer semi conductor, Polyethylene (PE) outer sheathed, Copper Braid, Unarmoured Underground Cable for airfield lighting Primary Circuit, confirming to specification as specified in technical specification of the following sizes as required and suitable for communication on existing ALCMS system ii. 6 sq.mm.	Mtr	200.00	50.00	10000.00
9.1	Supply of following sizes 5 KV grade dry type Plug and Receptacle of type I, class 'B' primary connector kit with field attachment and suitable for 5 KV grade single core copper conductor, copper braided, XLPE insulated PE outer sheathed shielded cable, complete as required confirming to the technical specification. i. 16 sq. mm.	Set	10.00	50.00	500.00
9.2	Supply of following sizes 5 KV grade dry type Plug and Receptacle of type I, class 'B' primary connector kit with field attachment and suitable for 5 KV grade single core copper conductor, copper braided, XLPE insulated PE outer sheathed shielded cable, complete as required confirming to the technical specification. ii. 6 sq.mm.	Set	10.00	50.00	500.00
9.3	45W Taxiway Light BI-Pin Holder	Each	20.00	250.00	5000.00
9.4	AMA make PAPI Upper coupling	Each	4.00	250.00	1000.00
9.5	AMA make PAPI Checkstick	Each	1.00	250.00	250.00
9.6	Miscellaneous Petty/DSR Works To carry out the complete item of work n CPWD schedule of rates (Electrical DSR 2022) as per CPWD specifications complete as required. (Total amount of Rs. 50000.00) is kept for DSR 2022. Note: (i) The rate for this item has to be quoted carefully. (ii) The items covered in DSR 2022 (E&M) shall be executed as per site requirement. (iii) The guidelines for quoting the rate for this item is mentioned in Guidance to tenderer Clause No.25 page .GTT-04	Job	1.00	30000.00	30000.00
9.7	SH-B (I) : COMPREHENSIVE MAINTENANCE OF AC UNITS ,WATER COOLER & RO SYSTEM Annual all inclusive comprehensive maintenance of 1.5 Ton capacity different make Split type airconditioner i/c repair or otherwise replacement of defective compressor/condensor coil,PCB,thermostat,capacitor,electrical parts , and any other defective component of the unit ,leak testing & vaccuming (whenever required) i/c repair & maintenance of voltage stablizer,of above unit complete as required. *Note : 1 Job is equivalent to comprehensive maintenance of 1 No. machine per month. i. 1st Year	Job	276.00	250.00	69000.00
9.8	Annual all inclusive comprehensive maintenance of 1.5 Ton capacity different make Split type airconditioner i/c repair or otherwise replacement of defective compressor/condensor coil,PCB,thermostat,capacitor,electrical parts , and any other defective component of the unit ,leak testing & vaccuming (whenever required) i/c repair & maintenance of voltage stablizer,of above unit complete as required. *Note : 1 Job is equivalent to comprehensive maintenance of 1 No. machine per month. ii. 2nd Year	Job	276.00	250.00	69000.00
9.9	Annual all inclusive comprehensive maintenance of 2.5 Ton capacity different make Tower type airconditioner i/c repair or otherwise replacement of defective compressor/condensor coil,PCB,thermostat,capacitor,electrical parts , and any other defective component of the unit ,leak testing & vaccuming (whenever required) i/c repair & maintenance of voltage stablizer,of above unit complete as required. *Note : 1 Job is equivalent to comprehensive maintenance of 1 No. machine per month i. 1st Year	Job	24.00	500.00	12000.00
10	Annual all inclusive comprehensive maintenance of 2.5 Ton capacity different make Tower type airconditioner i/c repair or otherwise replacement of defective compressor/condensor coil,PCB,thermostat,capacitor,electrical parts , and any other defective component of the unit ,leak testing & vaccuming (whenever required) i/c repair & maintenance of voltage stablizer,of above unit complete as required. *Note : 1 Job is equivalent to comprehensive maintenance of 1 No. machine per month ii. 2nd Year	Job	24.00	500.00	12000.00
10.1	Annual Comprehensive maintenance contract of 60/120 ltrs capacity Bluestar make water cooler i/c repair or otherwise replacement of defective compressor/condensor coil & any other defective components of the unit like tap etc at different locations complete as required. *Note : 1 Job is equivalent to comprehensive maintenance of 1 No. machine per month. i. 1st Year	Job	60.00	250.00	15000.00
10.2	Annual Comprehensive maintenance contract of 60/120 ltrs capacity Bluestar make water cooler i/c repair or otherwise replacement of defective compressor/condensor coil & any other defective components of the unit like tap etc at different locations complete as required. *Note : 1 Job is equivalent to comprehensive maintenance of 1 No. machine per month. ii. 2nd Year	Job	60.00	250.00	15000.00
10.3	All inclusive annual comprehensive maintenance contract of 25 LPH capacity Blue Mount (Model :- Grand 25) make Reverse Osmosis Water Purifier System of installed at various locations of Shimla Airport. Job includes routine services as and when required, repairing / replacement and maintenance of components/ consumable compatible with existing RO System, attending to complaints/ faults and taking rectification action, ensuring servicing/ satisfactory working condition of the system, etc. complete as required. *Note : 1 Job is equivalent to comprehensive maintenance of 1 No. machine per month. i. 1st Year	Job	60.00	250.00	15000.00
10.4	All inclusive annual comprehensive maintenance contract of 25 LPH capacity Blue Mount (Model :- Grand 25) make Reverse Osmosis Water Purifier System of installed at various locations of Shimla Airport. Job includes routine services as and when required, repairing / replacement and maintenance of components/ consumable compatible with existing RO System, attending to complaints/ faults and taking rectification action, ensuring servicing/ satisfactory working condition of the system, etc. complete as required. *Note : 1 Job is equivalent to comprehensive maintenance of 1 No. machine per month. ii. 2nd Year	Job	60.00	250.00	15000.00

Sr. No.	Description of Items	Unit	Qty.	Rate (Ex. GST)	Amount
10.5	Dismantling of split AC unit of 1.5 Ton from various locations of Airport including submission of dismantled AC to AAI store etc complete as required.	Job	4.00	500.00	2000.00
10.6	Installation, testing & commissioning of split AC of 1.5 Ton at new location including gas charging etc complete as required	Job	6.00	1000.00	6000.00
10.7	Supply and filling of refrigerant gas in A/C units complete as required.	Kg	8.00	500.00	4000.00
10.8	Supply and fixing of PVC drain pipe (25 mm) nominal etc complete as required.	Mtr	20.00	50.00	1000.00
10.9	SH-C(I) : MAINTENANCE OF FIRE ALARM AND DETECTION SYSTE Mannual Comprehensive maintenance of Morley IAS make (model DXc2-M) Analogue Addressable fire detection and alarm system with auto dialer complete (excluding batteries, detectors, MCP, Hooters, control module, Response indicator, wires from fire alarm panel to other devices) installed at Shimla Airport through OEM/authorized service provider of OEM/ Engineer from Service provider specialized in Fire Alarm & Detection System Job include quaterly visit of Engineer from OEM /OEM's authorized service provider/Engineer from Service provider specialized in Fire Alarm & Detection System, performing periodical maintenance of fire alarm and detection system as per OEM's recommendations, attending unlimited breakdown complaints recieved through email/ telephone, checking the proper functioning of complete fire alarm and detection system, taking rectification action of fire alarm system by rewiring/ rectification/ replacement of all parts (except batteries) of the fire alarm main and repeater panel, reprogramming in case of any fault in panel or replacement of faulty detectors/ MCPs/ Hooters/ response indicator/control module etc, ensuring proper functioning of complete fire detection and alarm system as per special conditions of contracts complete as required :- (1) Fire Alarm Panel with Auto dialer :- 1 No. (2) Photoelectric/Heat Smoke Detectors :- 117 No. (3)Hooter /Sounder :- 08 No. (4) Manual Call Point :-10 No. (5) Response Indicator :- 40 No. (6) Multi Detector :- 07 No. (7) Complete wire/Cabling :- 1 Lot. Note :- 1)Spares such as detectors/MCPs/Hooters/response Indicator will be provided by AAI. Note:- 1 Job equals quarterly visit of Service provider and unlimited breakdown calls if required. i. 1st Year	Job	4.00	5000.00	20000.00
11	Annual Comprehensive maintenance of Morley IAS make (model DXc2-M) Analogue Addressable fire detection and alarm system with auto dialer complete (excluding batteries, detectors, MCP, Hooters, control module, Response indicator, wires from fire alarm panel to other devices) installed at Shimla Airport through OEM/authorized service provider of OEM/ Engineer from Service provider specialized in Fire Alarm & Detection System Job include quaterly visit of Engineer from OEM /OEM's authorized service provider/Engineer from Service provider specialized in Fire Alarm & Detection System, performing periodical maintenance of fire alarm and detection system as per OEM's recommendations, attending unlimited breakdown complaints recieved through email/ telephone, checking the proper functioning of complete fire alarm and detection system, taking rectification action of fire alarm system by rewiring/ rectification/ replacement of all parts (except batteries) of the fire alarm main and repeater panel, reprogramming in case of any fault in panel or replacement of faulty detectors/ MCPs/ Hooters/ response indicator/control module etc, ensuring proper functioning of complete fire detection and alarm system as per special conditions of contracts complete as required :- (1)Fire Alarm Panel with Auto dialer :- 1 No. (2) Photoelectric/Heat Smoke Detectors :- 117 No. (3)Hooter /Sounder :- 08 No. (4) Manual Call Point :-10 No. (5) Response Indicator :- 40 No. (6) Multi Detector :- 07 No. (7) Complete wire/Cabling :- 1 Lot Note :- 1)Spares such as detectors/MCPs/Hooters/response Indicator will be provided by AAI. Note:- 1 Job equals quarterly visit of Service provider and unlimited breakdown calls if required. ii. 2nd Year	Job	4.00	5000.00	20000.00
11.1	Annual Comprehensive maintenance of 2 Zone (Make :- softchip-AGNI Comm) & 10 Zone AGNI Make Analogue Conventional fire detection and alarm system with auto dialer complete (excluding batteries, detectors, MCP, Hooters, control module, Response indicator, wires from fire alarm panel to other devices) installed at NAVAIDS and Power House, Shimla Airport respectively through OEM or authorized service provider of OEM/ Engineer from Service provider specialized in Fire Alarm & Detection System. Job include quaterly visit of Engineer from OEM/ OEM's authorized service provider/Engineer from Service provider specialized in Fire Alarm & Detection System, performing periodical maintenance of fire alarm and detection system as per OEM's recommendations, attending unlimited breakdown complaints recieved through email/ telephone, checking the proper functioning of complete fire alarm and detection system, taking rectification action of fire alarm system by rewiring/ rectification/ replacement of all parts (except batteries) of the fire alarm main and repeater panel, reprogramming in case of any fault in panel or replacement of faulty detectors/ MCPs/ Hooters/ control module etc, ensuring proper functioning of complete fire detection and alarm system as per special conditions of contracts complete as required. (1) Fire Alarm Panel with Auto Dialer :- 01 No. (DVOR). (2) Fire Alarm Panel with Auto Dialer :- 1No. (NDB) (3) Fire Alarm Control Panel :- 01 No (Power House). (4) Optical Smoke Detectors :-16 No. (5)Hooter /Sounder :- 03 No. (6) Manual Call Point :- 01 No. (7) Complete wire/Cabling :- 1 Lot. Note :- 1)Spares such as detectors/MCPs/Hooters/response Indicator will be provided by AAI. Note:- 1 Job equals quarterly visit of Service provider and unlimited breakdown calls if required. i. 1st Year	Job	4.00	5000.00	20000.00
11.2	Annual Comprehensive maintenance of 2 Zone (Make :- softchip-AGNI Comm) & 10 Zone AGNI Make Analogue Conventional fire detection and alarm system with auto dialer complete (excluding batteries, detectors, MCP, Hooters, control module, Response indicator, wires from fire alarm panel to other devices) installed at NAVAIDS and Power House, Shimla Airport respectively through OEM or authorized service provider of OEM/ Engineer from Service provider specialized in Fire Alarm & Detection System. Job include quaterly visit of Engineer from OEM/ OEM's authorized service provider/Engineer from Service provider specialized in Fire Alarm & Detection System, performing periodical maintenance of fire alarm and detection system as per OEM's recommendations, attending unlimited breakdown complaints recieved through email/ telephone, checking the proper functioning of complete fire alarm and detection system, taking rectification action of fire alarm system by rewiring/ rectification/ replacement of all parts (except batteries) of the fire alarm main and repeater panel, reprogramming in case of any fault in panel or replacement of faulty detectors/ MCPs/ Hooters/ control module etc, ensuring proper functioning of complete fire detection and alarm system as per special conditions of contracts complete as required. (1) Fire Alarm Panel with Auto Dialer :- 01 No. (DVOR). (2) Fire Alarm Panel with Auto Dialer :- 1No. (NDB) (3) Fire Alarm Control Panel :- 01 No (Power House). (4) Optical Smoke Detectors :-16 No. (5)Hooter /Sounder :- 03 No. (6) Manual Call Point :- 01 No. (7) Complete wire/Cabling :- 1 Lot. Note :- 1)Spares such as detectors/MCPs/Hooters/response Indicator will be provided by AAI. Note:- 1 Job equals quarterly visit of Service provider and unlimited breakdown calls if required. ii. 2nd Year	Job	4.00	5000.00	20000.00
11.3	Configuration of softchip-AGNI make Microprocessor based intelligent Auto dialer system including auto dial number(s) feeding/programming etc to work with existing Control panel ((Make :- Softchip-AGNI Comm.) ,testing & submission of report to AAI complete as required.	Job	2.00	500.00	1000.00
11.4	SH:-C(II) : SUPPLY OF SPARES Supply of Addressable optical smoke detectors with base , compatible to existing system (DXc2-M) at site etc complete as required	Each	5.00	500.00	2500.00
11.5	Supply of Addressable Hooter compatible to existing system (DXc2-M) at site etc complete as required.	Each	2.00	500.00	1000.00
11.6	Supply of Addressable manual call point compatible to existing system (DXc2-M) at site etc complete as required.	Each	5.00	500.00	2500.00
11.7	Supply of Conventional optical smoke detectors with base , compatible to existing system (Make :- Softchip-AGNI Comm.)/Agni at site etc complete as required	Each	5.00	500.00	2500.00
11.8	Supply of Conventional Hooter compatible to existing system (Make :- Softchip-AGNI Comm.)/Agni at site etc complete as required.	Each	2.00	500.00	1000.00
11.9	Supply of Conventional manual call point compatible to existing system (Make :- Softchip-AGNI Comm.)/Agni at site etc complete as required.	Each	2.00	500.00	1000.00
12	Supply of 12 volt, 7 AH nominal SMF battery suitable for replacement of existing Fire panel battery at site etc complete as required.	Each	5.00	500.00	2500.00
				(A) = TOTAL	4771200.00

(Rupees Forty Seven Lakh, Seventy One Thousand, Two Hundred Only)

(Vivek Katara)
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