

COMPARATIVE STATEMENT

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	Item Code Make	Unit	Qty.	Justified		M/S AL-HUDA ELECTRICAL AND MAINTENANCE		M/S R.K. ENTERPRISES		M/S ANIL KUMAR SHARMA		M/S BHARAT ELECTRIC, NAGPUR	
							Bidder No-1		Bidder No-2		Bidder No-3		Bidder No-4	
					Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount	Rate	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).	Item 1	Month	24.00	178599.00	4286376.00	195696.00	4696704.00	181744.00	4361856.00	162000.00	3888000.00	165200.00	3964800.00
1.2	Generation of reports with computer & other data handling related to office documentation works such as upkeeping of records etc. by deploying following adequate manpower for all days excluding saturday, sunday & national holidays: 1) Com. Operator Cum Office attendant - 01 Nos. (Skilled)	Item 2	Month	24.00	17436.00	418464.00	17000.00	408000.00	18650.00	447600.00	18500.00	444000.00	16000.00	384000.00
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.	Item 3	Hours	50.00	88.00	4400.00	100.00	5000.00	30.00	1500.00	30.00	1500.00	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.	Item 4	Hours	50.00	81.00	4050.00	90.00	4500.00	30.00	1500.00	30.00	1500.00	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.	Item 5	Hours	50.00	72.00	3600.00	80.00	4000.00	30.00	1500.00	30.00	1500.00	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.	Item 6	Job	6.00	4500.00	27000.00	1000.00	6000.00	1000.00	6000.00	4000.00	24000.00	5000.00	30000.00
1.7	Checking, servicing, calibration 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) Auxiliary Relay (Type-VAA/VAX/VAJH) for transformer protection -03 Nos 3) Current/PT Transformer	Item 7	Job	2.00	4050.00	8100.00	1000.00	2000.00	1000.00	2000.00	4000.00	8000.00	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.	Item 8	Job	6.00	3150.00	18900.00	500.00	3000.00	1000.00	6000.00	4000.00	24000.00	1000.00	6000.00
1.9	Checking, servicing, calibration 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.	Item 9	Job	2.00	3600.00	7200.00	500.00	1000.00	1000.00	2000.00	4000.00	8000.00	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 Approx. 240 ltrs to get desired dielectric strength of oil upto 60 KV BDV etc as required.	Item 10	Job	4.00	3150.00	12600.00	600.00	2400.00	20000.00	80000.00	4000.00	16000.00	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.	Item 11	Ltr	600.00	124.00	74400.00	50.00	30000.00	125.00	75000.00	250.00	150000.00	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.	Item 12	Job	1.00	4500.00	4500.00	5000.00	5000.00	1000.00	1000.00	5000.00	5000.00	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 working condition and submission of report to AAI etc complete as required.	Item 13	Job	2.00	3150.00	6300.00	1000.00	2000.00	1000.00	2000.00	5000.00	10000.00	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.	Item 14	Job	2.00	315.00	630.00	1000.00	2000.00	1000.00	2000.00	500.00	1000.00	500.00	1000.00
2.5	Inspection, servicing and calibration of CCR & sensitivity relay on 4KW CCR of Youyang make including testing & submission of report etc complete as required.	Item 15	Job	4.00	4500.00	18000.00	1000.00	4000.00	1500.00	6000.00	5000.00	20000.00	750.00	3000.00
2.6	Inspection, servicing and calibration of CCR & sensitivity relay on 20 KW CCR of NASU make including testing & submission of report etc complete as required.	Item 16	Job	2.00	9000.00	18000.00	1000.00	2000.00	1500.00	3000.00	9000.00	18000.00	750.00	1500.00
2.7	Inspection, servicing and calibration of CCR & sensitivity relay on 20 KW CCR of Youyang make including testing & submission of report etc complete as required.	Item 17	Job	2.00	9000.00	18000.00	1000.00	2000.00	1200.00	2400.00	9000.00	18000.00	750.00	1500.00

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Sr. No.	Description of Items	Item Code Make	Unit	Qty.	Justified		M/S AL-HUDA ELECTRICAL AND MAINTENANCE		M/S R.K. ENTERPRISES		M/S ANIL KUMAR SHARMA		M/S BHARAT ELECTRIC, NAGPUR	
							Bidder No-1		Bidder No-2		Bidder No-3		Bidder No-4	
					Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount
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/Cline meter. (2)Reference level setting (wherever required). (3)PAPI Unit angle check through Cline meter. (4) PAPI Unit angle setting. (5) Angle check through PAPI checkstick.	Item 18	Job	2.00	22500.00	45000.00	1000.00	2000.00	2000.00	4000.00	25000.00	50000.00	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.	Item 19	Job	498.00	135.00	67230.00	10.00	4980.00	100.00	49800.00	100.00	49800.00	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. HIREL/MIREL runway fittings i/c base plate	Item 20	Job	300.00	45.00	13500.00	20.00	6000.00	75.00	22500.00	20.00	6000.00	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 re-writing the identification the circuit, Protecting and covering the electrical accessories during painting and removing after work is over etc complete as reqd.	Item 21	Sq Mtr	150.00	180.00	27000.00	30.00	4500.00	150.00	22500.00	150.00	22500.00	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.	Item 22	Job	120.00	45.00	5400.00	15.00	1800.00	50.00	6000.00	20.00	2400.00	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.	Item 23	Job	10.00	450.00	4500.00	500.00	5000.00	200.00	2000.00	300.00	3000.00	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 amendements.	Item 24	Each	1.00	1350.00	1350.00	2000.00	2000.00	1000.00	1000.00	2000.00	2000.00	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.	Item 25	Job	2.00	3600.00	7200.00	200.00	400.00	1500.00	3000.00	10000.00	20000.00	5000.00	10000.00
3.6	Lifting and lowering of submersible pump upto 7.5 HP capacity upto 15 Mtr deep openwell including arranging machine or chain pulley block etc complete as required.	Item 26	Job	2.00	2250.00	4500.00	500.00	1000.00	500.00	1000.00	3000.00	6000.00	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.	Item 27	Job	2.00	2250.00	4500.00	300.00	600.00	1500.00	3000.00	2000.00	4000.00	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	Item 28	Job	5.00	405.00	2025.00	300.00	1500.00	250.00	1250.00	500.00	2500.00	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	Item 29	Job	5.00	585.00	2925.00	300.00	1500.00	250.00	1250.00	500.00	2500.00	400.00	2000.00
4	Complete copper wire rewinding of the following Ceiling Fans / Exhaust Fan/ wall mounting Fan i/c to & fro transportation. 200mm sweep Exhaust Fan	Item 30	Job	5.00	270.00	1350.00	300.00	1500.00	225.00	1125.00	500.00	2500.00	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	Item 31	Job	5.00	270.00	1350.00	300.00	1500.00	225.00	1125.00	500.00	2500.00	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	Item 32	Job	5.00	585.00	2925.00	300.00	1500.00	250.00	1250.00	500.00	2500.00	400.00	2000.00
4.3	SH-A(IV):- SUPPLY OF SPARES Supply of MCB's/Fuse 63 Amp, 10KA, TPN, C series, MCB	Item 33	Each	5.00	1530.00	7650.00	1000.00	5000.00	1050.00	5250.00	1700.00	8500.00	750.00	3750.00
4.4	Supply of MCB's/Fuse 32 Amp, 10KA, TPN, C series, MCB	Item 34	Each	5.00	1350.00	6750.00	800.00	4000.00	850.00	4250.00	1500.00	7500.00	650.00	3250.00
4.5	Supply of MCB's/Fuse 40 Amp,10KA, 4P, C series MCB	Item 35	Each	5.00	1530.00	7650.00	300.00	1500.00	1000.00	5000.00	1700.00	8500.00	1000.00	5000.00
4.6	Supply of MCB's/Fuse 6 Amp,10KA, SP, C series MCB	Item 36	Each	5.00	135.00	675.00	100.00	500.00	100.00	500.00	120.00	600.00	125.00	625.00
4.7	Supply of MCB's/Fuse 10 Amp , 10KA, SP, C series MCB	Item 37	Each	5.00	135.00	675.00	100.00	500.00	100.00	500.00	130.00	650.00	125.00	625.00
4.8	Supply of MCB's/Fuse 16 Amp ,10KA, SP, C series MCB	Item 38	Each	5.00	135.00	675.00	100.00	500.00	100.00	500.00	130.00	650.00	125.00	625.00
4.9	Supply of MCB's/Fuse 20 Amp , 10KA, SP, C series MCB	Item 39	Each	5.00	135.00	675.00	100.00	500.00	100.00	500.00	150.00	750.00	125.00	625.00
5	Supply of MCB's/Fuse 32 Amp , 10KA, SP, C series MCB	Item 40	Each	2.00	135.00	270.00	100.00	200.00	100.00	200.00	180.00	360.00	125.00	250.00

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					Rate	Amount	Bidder No-1		Bidder No-2		Bidder No-3		Bidder No-4	
							Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount
5.1	Supply of MCB's/Fuse 32 Amp, TPN 30KA MCCB	Item 41	Each	1.00	1350.00	1350.00	1200.00	1200.00	1750.00	1750.00	1500.00	1500.00	3500.00	3500.00
5.2	Supply of MCB's/Fuse 100 Amp, TPN,30KA MCCB	Item 42	Each	1.00	6750.00	6750.00	1500.00	1500.00	2000.00	2000.00	8000.00	8000.00	5000.00	5000.00
5.3	Supply of MCB's/Fuse Fuse - 63 AMP HRC Knife type	Item 43	Each	5.00	315.00	1575.00	50.00	250.00	150.00	750.00	600.00	3000.00	75.00	375.00
5.4	Supply of MCB's/Fuse Fuse-250 Amp HRC Knife type	Item 44	Each	5.00	675.00	3375.00	60.00	300.00	200.00	1000.00	700.00	3500.00	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	Item 45	Each	10.00	27.00	270.00	30.00	300.00	50.00	500.00	30.00	300.00	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	Item 46	Each	10.00	27.00	270.00	20.00	200.00	25.00	250.00	30.00	300.00	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	Item 47	Each	10.00	32.00	320.00	30.00	300.00	60.00	600.00	50.00	500.00	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 Switch	Item 48	Each	10.00	54.00	540.00	40.00	400.00	30.00	300.00	60.00	600.00	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	Item 49	Each	30.00	68.00	2040.00	60.00	1800.00	65.00	1950.00	70.00	2100.00	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	Item 50	Each	20.00	23.00	460.00	50.00	1000.00	45.00	900.00	40.00	800.00	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	Item 51	Each	10.00	50.00	500.00	60.00	600.00	45.00	450.00	40.00	400.00	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	Item 52	Each	15.00	270.00	4050.00	150.00	2250.00	100.00	1500.00	350.00	5250.00	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	Item 53	Each	10.00	274.00	2740.00	100.00	1000.00	150.00	1500.00	200.00	2000.00	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	Item 54	Each	10.00	208.00	2080.00	105.00	1050.00	135.00	1350.00	200.00	2000.00	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	Item 55	Each	10.00	163.00	1630.00	110.00	1100.00	125.00	1250.00	170.00	1700.00	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	Item 56	Each	2.00	5346.00	10692.00	1800.00	3600.00	250.00	500.00	8000.00	16000.00	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.	Item 57	Each	2.00	1248.00	2496.00	1500.00	3000.00	200.00	400.00	1500.00	3000.00	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	Item 58	Each	6.00	1248.00	7488.00	100.00	600.00	200.00	1200.00	1500.00	9000.00	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.	Item 59	Each	4.00	1248.00	4992.00	200.00	800.00	200.00	800.00	1500.00	6000.00	1000.00	4000.00
7	Supply of Capacitors/Batten/Battery/Casing Cap/indication lamps 2.5 MFD 230V /440 AC Capacitor	Item 60	Each	10.00	25.00	250.00	200.00	2000.00	50.00	500.00	30.00	300.00	25.00	250.00
7.1	Supply of Capacitors/Batten/Battery/Casing Cap/indication lamps 750 W Halogen Heat Pillar Rod	Item 61	Each	50.00	225.00	11250.00	100.00	5000.00	300.00	15000.00	300.00	15000.00	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	Item 62	Each	2.00	7650.00	15300.00	4000.00	8000.00	5200.00	10400.00	9000.00	18000.00	5000.00	10000.00
7.3	Supply of Capacitors/Batten/Battery/Casing Cap/indication lamps Supply of PVC Batten Holder	Item 63	Each	10.00	18.00	180.00	40.00	400.00	50.00	500.00	20.00	200.00	35.00	350.00
7.4	Supply of Capacitors/Batten/Battery/Casing Cap/indication lamps Supply of 20X12mm Casing Cap	Item 64	Mtr	15.00	32.00	480.00	5.00	75.00	50.00	750.00	40.00	600.00	20.00	300.00
7.5	Supply of Capacitors/Batten/Battery/Casing Cap/indication lamps Supply of 25X16mm Casing Cap	Item 65	Mtr	15.00	36.00	540.00	10.00	150.00	75.00	1125.00	40.00	600.00	25.00	375.00
7.6	Supply of Capacitors/Batten/Battery/Casing Cap/indication lamps Panel Universal LED Indication lamp(Red)	Item 66	Each	20.00	277.00	5540.00	18.00	360.00	100.00	2000.00	100.00	2000.00	100.00	2000.00
7.7	Supply of Capacitors/Batten/Battery/Casing Cap/indication lamps Panel Universal LED Indication lamp(Yellow)	Item 67	Each	20.00	277.00	5540.00	18.00	360.00	100.00	2000.00	100.00	2000.00	100.00	2000.00
7.8	Supply of Capacitors/Batten/Battery/Casing Cap/indication lamps Panel Universal LED Indication lamp(Blue)	Item 68	Each	20.00	341.00	6820.00	18.00	360.00	100.00	2000.00	100.00	2000.00	100.00	2000.00
7.9	Supply of Capacitors/Batten/Battery/Casing Cap/indication lamps Panel Universal LED Indication lamp(Green)	Item 69	Each	20.00	277.00	5540.00	18.00	360.00	100.00	2000.00	100.00	2000.00	100.00	2000.00
8	Supply of Capacitors/Batten/Battery/Casing Cap/indication lamps Mushroom Head Push-Turn Button	Item 70	Each	5.00	140.00	700.00	18.00	90.00	100.00	500.00	100.00	500.00	100.00	500.00
8.1	Supply of Capacitors/Batten/Battery/Casing Cap/indication lamps Panel Push Button	Item 71	Each	30.00	71.00	2130.00	30.00	900.00	100.00	3000.00	100.00	3000.00	100.00	3000.00

Kamal
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Shani
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					Rate	Amount	Bidder No-1		Bidder No-2		Bidder No-3		Bidder No-4	
							Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount
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.	Item 72	Mtr	90.00	88.00	7920.00	40.00	3600.00	125.00	11250.00	100.00	9000.00	55.00	4950.00
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.	Item 73	Mtr	90.00	27.00	2430.00	20.00	1800.00	25.00	2250.00	30.00	2700.00	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.	Item 74	Mtr	90.00	40.00	3600.00	40.00	3600.00	35.00	3150.00	50.00	4500.00	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	Item 75	Each	5.00	4950.00	24750.00	3000.00	15000.00	2700.00	13500.00	8000.00	40000.00	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	Item 76	Each	5.00	3600.00	18000.00	2500.00	12500.00	2500.00	12500.00	4700.00	23500.00	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	Item 77	Each	10.00	3600.00	36000.00	2000.00	20000.00	2200.00	22000.00	4000.00	40000.00	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	Item 78	Each	5.00	2700.00	13500.00	2000.00	10000.00	2000.00	10000.00	3500.00	17500.00	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.	Item 79	Mtr	200.00	144.00	28800.00	60.00	12000.00	140.00	28000.00	180.00	36000.00	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.	Item 80	Mtr	200.00	113.00	22600.00	50.00	10000.00	70.00	14000.00	90.00	18000.00	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.	Item 81	Set	10.00	675.00	6750.00	500.00	5000.00	250.00	2500.00	500.00	5000.00	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.	Item 82	Set	10.00	675.00	6750.00	600.00	6000.00	225.00	2250.00	500.00	5000.00	50.00	500.00
9.3	45W Taxiway Light BI-Pin Holder	Item 83	Each	20.00	315.00	6300.00	350.00	7000.00	300.00	6000.00	800.00	16000.00	250.00	5000.00
9.4	AMA make PAPI Upper coupling	Item 84	Each	4.00	522.00	2088.00	200.00	800.00	350.00	1400.00	600.00	2400.00	250.00	1000.00
9.5	AMA make PAPI Checkstick	Item 85	Each	1.00	22649.00	22649.00	500.00	500.00	300.00	300.00	30000.00	30000.00	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	Item 86	Job	1.00	50000.00	50000.00	10000.00	10000.00	30000.00	30000.00	35000.00	35000.00	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	Item 87	Job	276.00	338.00	93288.00	50.00	13800.00	150.00	41400.00	400.00	110400.00	250.00	69000.00

Sr. No.	Description of Items	Item Code Make	Unit	Qty.	Justified		M/S AL-HUDA ELECTRICAL AND MAINTENANCE		M/S R.K. ENTERPRISES		M/S ANIL KUMAR SHARMA		M/S BHARAT ELECTRIC, NAGPUR	
					Rate	Amount	Bidder No-1		Bidder No-2		Bidder No-3		Bidder No-4	
							Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount
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	Item 88	Job	276.00	375.00	103500.00	50.00	13800.00	150.00	41400.00	500.00	138000.00	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	Item 89	Job	24.00	375.00	9000.00	60.00	1440.00	160.00	3840.00	500.00	12000.00	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	Item 90	Job	24.00	413.00	9912.00	60.00	1440.00	175.00	4200.00	600.00	14400.00	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	Item 91	Job	60.00	300.00	18000.00	50.00	3000.00	240.00	14400.00	300.00	18000.00	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	Item 92	Job	60.00	375.00	22500.00	50.00	3000.00	245.00	14700.00	400.00	24000.00	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	Item 93	Job	60.00	300.00	18000.00	50.00	3000.00	300.00	18000.00	300.00	18000.00	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	Item 94	Job	60.00	338.00	20280.00	50.00	3000.00	340.00	20400.00	400.00	24000.00	250.00	15000.00
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.	Item 95	Job	4.00	450.00	1800.00	10.00	40.00	250.00	1000.00	200.00	800.00	500.00	2000.00
10.6	Installation, testing & commisioning of split AC of 1.5 Ton at new location including gas charging etc complete as required	Item 96	Job	6.00	2700.00	16200.00	10.00	60.00	750.00	4500.00	3000.00	18000.00	1000.00	6000.00
10.7	Supply and filling of refrigerant gas in A/C units complete as required.	Item 97	Kg	8.00	630.00	5040.00	200.00	1600.00	750.00	6000.00	800.00	6400.00	500.00	4000.00
10.8	Supply and fixing of PVC drain pipe (25 mm) nominal etc complete as required.	Item 98	Mtr	20.00	108.00	2160.00	60.00	1200.00	50.00	1000.00	100.00	2000.00	50.00	1000.00

Kamal
13/12/22

29/12/22
13/12/22

Shashi
13/12/22

Arjun
14/12

Sr. No.	Description of Items	Item Code Make	Unit	Qty.	Justified		M/S AL-HUDA ELECTRICAL AND MAINTENANCE		M/S R.K. ENTERPRISES		M/S ANIL KUMAR SHARMA		M/S BHARAT ELECTRIC, NAGPUR	
							Bidder No-1		Bidder No-2		Bidder No-3		Bidder No-4	
					Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount
10.9	SH-C(1) : MAINTENANCE OF FIRE ALARM AND DETECTION SYSTE Mannual Comprehensive maintenance of Morley IAS make (model DXc2-M) Analoue 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 AAL. Note:- 1 Job equals quarterly visit of Service provider and unlimited breakdown calls if required. i. 1st Year	Item 99	Job	4.00	16650.00	66600.00	10000.00	40000.00	3000.00	12000.00	10000.00	40000.00	5000.00	20000.00
11	Annual Comprehensive maintenance of Morley IAS make (model DXc2-M) Analoue 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 AAL. Note:- 1 Job equals quarterly visit of Service provider and unlimited breakdown calls if required. ii. 2nd Year	Item 100	Job	4.00	18315.00	73260.00	10000.00	40000.00	3100.00	12400.00	10000.00	40000.00	5000.00	20000.00
11.1	Annual Comprehensive maintenance of 2 Zone (Make :- softchip-AGNI Comm) & 10 Zone AGNI Make Analoue 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 AAL. Note:- 1 Job equals quarterly visit of Service provider and unlimited breakdown calls if required. i. 1st Year	Item 101	Job	4.00	7259.00	29036.00	10000.00	40000.00	3000.00	12000.00	10000.00	40000.00	5000.00	20000.00

Kamal
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S. No.	Description of Items	Item Code Make	Unit	Qty.	Justified		M/S AL-HUDA ELECTRICAL AND MAINTENANCE		M/S R.K. ENTERPRISES		M/S ANIL KUMAR SHARMA		M/S BHARAT ELECTRIC, NAGPUR	
					Rate	Amount	Bidder No-1		Bidder No-2		Bidder No-3		Bidder No-4	
							Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount
11.2	Annual Comprehensive maintenance of 2 Zone (Make :- softchip-AGNI Comm) & 10 Zone AGNI Make Analouge 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 quarterly 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	Item 102	Job	4.00	7985.00	31940.00	10000.00	40000.00	3100.00	12400.00	10000.00	40000.00	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.	Item 103	Job	2.00	9000.00	18000.00	5000.00	10000.00	1000.00	2000.00	7000.00	14000.00	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	Item 104	Each	5.00	2250.00	11250.00	100.00	500.00	300.00	1500.00	2250.00	11250.00	500.00	2500.00
11.5	Supply of Addressable Hooter compatible to existing system (DXc2-M) at site etc complete as required.	Item 105	Each	2.00	4050.00	8100.00	100.00	200.00	150.00	300.00	4050.00	8100.00	500.00	1000.00
11.6	Supply of Addressable manual call point compatible to existing system (DXc2-M) at site etc complete as required.	Item 106	Each	5.00	3150.00	15750.00	100.00	500.00	150.00	750.00	3150.00	15750.00	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	Item 107	Each	5.00	1170.00	5850.00	100.00	500.00	200.00	1000.00	1170.00	5850.00	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.	Item 108	Each	2.00	990.00	1980.00	100.00	200.00	200.00	400.00	990.00	1980.00	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.	Item 109	Each	2.00	855.00	1710.00	100.00	200.00	200.00	400.00	855.00	1710.00	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.	Item 110	Each	5.00	1642.00	8210.00	100.00	500.00	1160.00	5800.00	1642.00	8210.00	500.00	2500.00
(A) = TOTAL						6097686.00		5603169.00		5588471.00		5853810.00		5155200.00
Remark [Below / Above of Justified Cost]							-494517.00		-509215.00		-243876.00		-942486.00	
STATUS							-8.11 % Below		-8.35 % Below		-4 % Below		-15.46 % Below	
							L3		L2		L4		L1	

Kamal
13/12/22

(Kamal Lovewanshi)
Asst. Mgr (E-E)
CA Shimla

Shweta Verma
13/12/22

(Shweta Verma)
Asst. Mgr (E-E)
CA Shimla

Shashi
13/12/2022

(Shashi Bhushan Kumar)
Manager(E-C)
CA Shimla

Approved By

14.12.22

Airport Director
AAI, CA, Shimla