

COMPARATIVE STATEMENT

Name of Work:- Annual Operation and Maintenance job service contract of electrical and mechanical installations at Shimla Airport 2020-22.

Sr. No.	Description of Items	Item Code Make	Unit	Qty.	Justified		Anil Kumar Sharma(GSTN-NA)		M/S B.A.G ENTERPRISES(GSTN-NA)		Techno Electricals(GSTN-NA)		Manish Electricals(GSTN-NA)		S. N ELECTRICALS(GSTN-NA)		NATIONAL SAFETY ENGINEERS(GSTN-NA)		ROSHAN REFRIGERATION AND ELECTRICALS(GSTN-NA)	
					Rate	Amount	Bidder No-1		Bidder No-2		Bidder No-3		Bidder No-4		Bidder No-5		Bidder No-6		Bidder No-7	
							Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount
1	SH - I: OPERATION AND MAINTENANCE (MANPOWER) Periodical maintenance and operation of electrical and mechanical installations involving repairs and maintenance attending to complaints /faults/breakdowns and taking rectification action ensuring serviceability /satisfactory working condition of the systems i/c preventive maintenance of all electrical installations like DG sets, HT panels, Transformer, LT panels, OCB, installed at power house, pump sets i/c GLF system, perimeter /street lighting and internal and external electrification etc. with making proper records/documentation etc. as per the detailed specification, terms and conditions covered under this contract on all days including Sundays and holidays on 3 (Three) shift basis and also as and when required basis etc. as required. a) Electrician -01 No. (Skilled) in each shift b) Khallasi - -01 No. (1 no semi skilled and 02 nos Unskilled) in each shift c) Computer Operator - 01 No (Skilled) in general Shift	Item 1	Months	24.00	156684.00	3760416.00	150000.00	3600000	161999.00	3887976.00	169858.00	4076592.00	165000.00	3960000	211196.84	5068724.16	162000.00	3888000.00	191786.00	4602864
2	Provision of additional hour required for operations due to delay in flight, emergency, major maintenance works. Beyond the scope of item no. 1 on daily basis (a) Skilled	Item 2	Hrs	50.00	152.00	7600.00	50.00	2500	100.00	5000.00	87.00	4350.00	80.00	4000	74.00	3700.00	100.00	5000.00	121.00	6050
3	Provision of additional hour required for operations due to delay in flight, emergency, major maintenance works. Beyond the scope of item no. 1 on daily basis (b) Semi-Skilled	Item 3	Hrs	50.00	126.00	6300.00	50.00	2500	80.00	4000.00	75.00	3750.00	70.00	3500	61.00	3050.00	82.00	4100.00	121.00	6050
4	Provision of additional hour required for operations due to delay in flight, emergency, major maintenance works. Beyond the scope of item no. 1 on daily basis (c) Un-skilled	Item 4	Hrs	50.00	108.00	5400.00	50.00	2500	80.00	4000.00	62.00	3100.00	60.00	3000	53.00	2650.00	71.00	3550.00	111.00	5550
5	SH - I: OPERATION AND MAINTENANCE [JOB WORK- PART-II (HT AND LT PANEL, TRANSFORMER, CCR)] Repairing, overhauling of 400/600Amp 11 KV oil circuit breaker (3 Nos.) of ALSTOM make, cleaning of arch chamber, polishing contacts, springs & other mechanical parts etc carrying of the following tests & preventive maintenance alongwith of the test reports etc complete as required up to satisfaction of Engineer-In-Charge. (a) General inspection (b) Wiring check including control circuit and indications (c) IR test between poles, between pole to earth between male and female contacts (d) Continuity of power contacts. (e) Continuity of auxiliary contacts (f) Resistance measurement of tripping coil (g) Closing, tripping and inter-locking testing (h) Tripping through relay operation	Item 5	Job	2.00	9505.00	19010.00	5000.00	10000	1000.00	2000.00	12500.00	25000.00	10000.00	20000	1500.00	3000.00	17700.00	35400.00	18000.00	36000
6	Inspection, servicing, setting, calibration and testing of IDMT relays for 11 KV panel (set of 3 over current plus 1 earth fault) i/c carrying out the following and submitting test reports. (a) General inspection (b) Wiring check (c) IR value test (d) Continuity of plug shifting taps and plug bridge shorting contacts (e) Secondary injection test including pick up current of IDMT element etc.	Item 6	Set	2.00	4465.00	8930.00	2000.00	4000	1000.00	2000.00	3000.00	6000.00	3500.00	7000	1500.00	3000.00	3540.00	7080.00	15000.00	30000
7	Inspection, servicing, setting, calibration and testing of auxiliary and tripping relays (Type-VAA/VAX/VAJH) including carrying out the following and submitting test reports (a) General inspection (b) Wiring check (c) IR value test (d) Tripping check	Item 7	Job	2.00	2232.00	4464.00	2000.00	4000	1000.00	2000.00	750.00	1500.00	2000.00	4000	1500.00	3000.00	2360.00	4720.00	12000.00	24000

1/11/2020
24/08/2020
SM(E-E)

24/08/2020
Jr. Executive (E-E)

Sr. No.	Description of Items	Item Code Make	Unit	Qty.	Justified		Anil Kumar Sharma(GSTN-NA)		M/S B.A.G ENTERPRISES(GSTN-NA)		Techno Electricals(GSTN-NA)		Manish Electricals(GSTN-NA)		S. N ELECTRICALS(GSTN-NA)		NATIONAL SAFETY ENGINEERS(GSTN-NA)		ROSHAN REFRIGERATION AND ELECTRICALS(GSTN-NA)	
							Bidder No-1		Bidder No-2		Bidder No-3		Bidder No-4		Bidder No-5		Bidder No-6		Bidder No-7	
					Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount
8	Inspection, Testing & preventive maintenance of CTs in 11 KV panel (set of 3 CTs - RYB) including carrying out the following and submitting test reports (a) General inspection (b) IR value test - primary to secondary, primary to earth, secondary to earth (c) Polarity test (d) Ratio test by primary injection (e) Secondary circuit wiring check (f) Knee point voltage measurement	Item 8	Set	2.00	3779.00	7558.00	2000.00	4000	1000.00	2000.00	1500.00	3000.00	3000.00	6000	1500.00	3000.00	2360.00	4720.00	12000.00	24000
9	Inspection, Testing & preventive maintenance of Voltage transformer including carrying out the following and submitting test reports. (a) General inspection (b) IR value test - primary to secondary, primary to earth, secondary to earth (c) Polarity test (d) Ratio test by primary injection (e) Secondary circuit wiring check	Item 9	Set	2.00	3055.00	6110.00	2000.00	4000	1000.00	2000.00	1500.00	3000.00	4000.00	8000	1500.00	3000.00	3540.00	7080.00	12000.00	24000
10	Inspection, servicing & testing of 250 KVA distribution transformer 11KV/433V including carrying out the following and submitting test reports. (a) General inspection (b) IR value test - primary to secondary + earth, Secondary to primary+earth, Primary to secondary. (c) Voltage ratio check at all tap position (d) Magnetising current measurement (e) Magnetic balance test at top tap position (f) Vector group test (g) Bucholtz relay operation - Alarm & trip (h) OTI operation - Alarm & trip (i) WTI operation - Alarm & trip (j) Tap changer operation check (j) Cleaning of transformer and topping the tested transformer oil (oil will be supplied by AAI) (k) Replacement of silica gel	Item 10	Job	4.00	4191.00	16764.00	3000.00	12000	1200.00	4800.00	5000.00	20000.00	6000.00	24000	1500.00	6000.00	5900.00	23600.00	15000.00	60000
11	Dehydration and filtration of transformer oil at site including testing the BDV and acidity before and after testing and submission of test reports etc. as required for following Transformers. (i) 250 KVA Transformer (App. 240 Ltr.)	Item 11	Job	4.00	4465.00	17860.00	2500.00	10000	2000.00	8000.00	4000.00	16000.00	10000.00	40000	10000.00	40000.00	11800.00	47200.00	10800.00	43200
12	Supply of Transformer oil of specified break down strength and grade etc as required.	Item 12	Ltr	100.00	123.00	12300.00	190.00	19000	100.00	10000.00	150.00	15000.00	170.00	17000	110.00	11000.00	236.00	23600.00	130.00	13000
13	Inspection, servicing & testing of 630 Amp LT circuit breakers including carrying out the following test and preventive maintenance alongwith submission of the test reports (a) General inspection (b) Wiring cheking including control and indications (c) IR test between poles, between pole to earth between male and female contacts (d) Continuity of power contacts. (e) Continuity of auxiliary contacts (f) Resistance measurement of tripping coil (g) Closing, tripping and inter- locking testing (h) Tripping through relay operation (i) Secondary injection test of In-built thermal and magnetic release and calibration of the same	Item 13	Job	6.00	5875.00	35250.00	2000.00	12000	1000.00	6000.00	3000.00	18000.00	6000.00	36000	1500.00	9000.00	7080.00	42480.00	12000.00	72000
14	Calibration of CCR & sensitivity of relay on 4KW to 30 KW CCR of Youyang make including complete check and submitting reports etc. as required.	Item 14	Job	4.00	11312.00	45248.00	500.00	2000	1100.00	4400.00	7000.00	28000.00	9000.00	36000	2500.00	10000.00	5900.00	23600.00	11000.00	44000
15	SH - I : OPERATION AND MAINTENANCE [JOB WORK- PART- III (AC, Water Cooler)] Annual Comprehensive Maintenance of following Air-conditioner i/c providing and fixing all necessary consumable and spares i/c replacing of faulty compressor, periodical preventive maintenance etc. as per maintenance schedule for below mentioned period as per special condition of contract. a) Split Type, 1.5 - 2.0 TR, Single Phase (17 Nos x 24 Months = 408 Nos)	Item 15	Each	408.00	774.00	315792.00	500.00	204000	100.00	40800.00	175.00	71400.00	300.00	122400	150.00	61200.00	295.00	120360.00	250.00	102000

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					Rate	Amount	Bidder No-1		Bidder No-2		Bidder No-3		Bidder No-4		Bidder No-5		Bidder No-6		Bidder No-7	
							Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount
16	Annual Comprehensive Maintenance of following Air-conditioner i/c providing and fixing all necessary consumable and spares i/c replacing of faulty compressor, periodical preventive maintenance etc. as per maintenance schedule for below mentioned period as per special condition of contract. b) Tower Type, 2.5 TR, Three Phase (02 Nos x 24 Months = 48Nos)	Item 16	Each	48.00	1076.00	51648.00	600.00	28800	150.00	7200.00	200.00	9600.00	1200.00	57600	200.00	9600.00	390.00	18720.00	750.00	36000
17	Annual comprehensive maintenance of water cooler of capacity 40/80 Ltr/Hr i/c providing and fixing all necessary consumable and spares i/c replacing of faulty compressor, periodical preventive maintenance etc. as per maintenance schedule for below mentioned period as per special condition of contract. a) [5 Nos x 24 Month] = 120 Nos	Item 17	Each	120.00	468.00	56160.00	500.00	60000	100.00	12000.00	225.00	27000.00	400.00	48000	350.00	42000.00	295.00	35400.00	625.00	75000
18	Annual Comprehensive Maintenance of water purifier of following capacity for one year i/c providing and fixing all necessary consumable and spares i/c periodical preventive maintenance etc. as per maintenance schedule for below mentioned period as per special condition of contract. a) [05 Nos x 24 Month = 120 Nos]	Item 18	Each	120.00	143.00	17160.00	500.00	60000	105.00	12600.00	245.00	29400.00	500.00	60000	350.00	42000.00	295.00	35400.00	625.00	75000
19	Dismantling of following Capacity Split type Air Conditioner from different locations in Airport etc. as required. (Job includes dismantling the indoor, outdoor unit, piping etc. safely and handed over to Site-In-Charge) [Vehicle will be provided by AAI for Transporting the units up to Store] a) 1.5 - 2.5 TR, Single Phase	Item 19	Job	1.00	2531.00	2531.00	2000.00	2000	200.00	200.00	500.00	500.00	1000.00	1000	1000.00	1000.00	1200.00	1200.00	500.00	500
20	Installation of following Capacity Split type Air Conditioner in different locations of Airport etc. as required. (Job includes Installing the indoor, outdoor unit, copper piping maximum up to 15 feet, gas topup etc.) [Vehicle will be provided by AAI for Transporting the units upto installing location] a) 1.5 - 2.5 TR, Single Phase	Item 20	Job	1.00	4770.00	4770.00	7000.00	7000	500.00	500.00	1750.00	1750.00	4000.00	4000	1000.00	1000.00	3540.00	3540.00	7500.00	7500
21	SH - I : OPERATION AND MAINTENANCE (JOB WORK- PART-IV (FIRE ALARM SYSTEM) "Comprehensive maintenance(Once in 02 months) contract of fire alarm & detection system at Airport terminal building for periodical inspection and routine maintenance of the system (job includes carrying out Quarterly service visit and submit the inspection report also attending break down calls, checking & replacing defective smoke and multi detector, response indicator, manual call point, hooters, panel components, wiring etc. as per site requirement. Details of installed equipment / Elements are a) analogue addressable type Photoelectric Smoke Detector - 93 Nos b) resettable analogue addressable manual call point - 08 Nos c) analogue addressable Fire alarm control panel with auto dailer & battery backup - 01 No d) Hooter/sounder - 09 Nos e) Response Indicator-41 Nos f) multidetector-14 Nos "	Item 21	Job	1.00	186888.00	186888.00	4000.00	4000	18000.00	18000.00	45000.00	45000.00	10000.00	10000	5000.00	5000.00	3540.00	3540.00	45000.00	45000
22	"Comprehensive maintenance(Once in 02 months) contract of fire alarm & detection system at NAVAIDS for periodical inspection and routine maintenance of the system (job includes carrying out quarterly service visit and submit the inspection report also attending break down calls, checking & replacing defective detector, hooters, panel components, Details of installed equipment / Elements are a) analogue addressable type Photoelectric Smoke Detector -10 Nos b) 10 zone fire alarm control panel complete with battery backup - 01 Nos c) Hooter/sounder-2 Nos d) resettable analogue addressable manual call point -02 Nos "	Item 22	Job	12.00	7407.00	88884.00	4000.00	48000	2000.00	24000.00	3000.00	36000.00	10000.00	120000	5000.00	60000.00	2360.00	28320.00	15000.00	180000
23	SH -II (PAINTING, REPAIRING & REWINDING WORKS) Rewinding of the following with copper wire of required size i/c to and fro transportation etc. complete as required. (Dismantle Material belongs to contractor). a) Ceiling Fan / Wall Fan	Item 23	Job	10.00	812.00	8120.00	600.00	6000	100.00	1000.00	300.00	3000.00	200.00	2000	150.00	1500.00	472.00	4720.00	350.00	3500

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							Bidder No-1		Bidder No-2		Bidder No-3		Bidder No-4		Bidder No-5		Bidder No-6		Bidder No-7	
					Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount
24	Rewinding of the following with copper wire of required size i/c to and fro transportation etc. complete as required. (Dismantle Material belongs to contractor). b) Exhaust Fan / Air Circulators	Item 24	Job	15.00	850.00	12750.00	700.00	10500	150.00	2250.00	400.00	6000.00	600.00	9000	150.00	2250.00	590.00	8850.00	750.00	11250
25	Repairing and Overhauling of 3-5 HP pump motor sets (job i/c supply and replacing defective bearing/ bushing / gland dori, alignment the shaft complete etc. as required i/c transportation from site to contractor's workshop & back to site. (Dismantle Material belongs to contractor).	Item 25	Job	2.00	9133.00	18266.00	10000.00	20000	500.00	1000.00	2000.00	4000.00	3500.00	7000	250.00	500.00	4130.00	8260.00	4500.00	9000
26	Supply & replacing the defective bearing / bush set for the following i/c to and fro transportation etc. complete as required. (a) Ceiling Fan / Wall Fan	Item 26	Job	10.00	224.00	2240.00	200.00	2000	100.00	1000.00	85.00	850.00	100.00	1000	75.00	750.00	295.00	2950.00	350.00	3500
27	Supply & replacing the defective bearing / bush set for the following i/c to and fro transportation etc. complete as required. (b) Exhaust Fan/Air Circulators	Item 27	Job	15.00	247.00	3705.00	200.00	3000	100.00	1500.00	100.00	1500.00	150.00	2250	75.00	1125.00	354.00	5310.00	350.00	5250
28	Supply & replacing the Heater Rod/ Coil, Heat Proof Wire with sleeve of different make Room Heaters i/c to and fro transportation etc. complete as required.	Item 28	Job	30.00	513.00	15390.00	150.00	4500	100.00	3000.00	750.00	22500.00	300.00	9000	100.00	3000.00	354.00	10620.00	900.00	27000
29	Painting of following poles in 2 coats by using Aluminium paint of approved make including pole boxes, cleaning of surface etc., as required including rewriting the identification Serial Number. (a) Street Light Pole of length not exceeding 5 Mtr.	Item 29	Job	16.00	466.00	7456.00	300.00	4800	500.00	8000.00	300.00	4800.00	200.00	3200	150.00	2400.00	354.00	5664.00	1500.00	24000
30	Painting of GLF fitting including base plate in installation position with two coats of synthetic enamel paint of yellow colour of approved make to given an even shade including, cleaning the surface with detergent, etc. removing old paints etc. as required. (a) HIRL/MIRL fittings.	Item 30	Nos	134.00	154.00	20636.00	100.00	13400	200.00	26800.00	75.00	10050.00	100.00	13400	200.00	26800.00	120.00	16080.00	1000.00	134000
31	Painting of GLF fitting including base plate in installation position with two coats of synthetic enamel paint of yellow colour of approved make to given an even shade including, cleaning the surface with detergent, etc. removing old paints etc. as required. (b) Painting of PAPI Units.	Item 31	Nos	8.00	417.00	3336.00	1000.00	8000	200.00	1600.00	250.00	2000.00	1000.00	8000	150.00	1200.00	236.00	1888.00	1000.00	8000
32	Spary painting of sheet metal enclosures of electrical equipments such as feeder pillars, distribution boards, electrical panel, frame etc. including cleaning the surface and two coats of grey or any other colour of approved make including rewriting the identification the circuit, Protecting and covering the electrical accessories during painting and removing after work is over etc., as required.	Item 32	Sqm	75.00	251.00	18825.00	200.00	15000	20.00	1500.00	175.00	13125.00	200.00	15000	150.00	11250.00	115.00	8625.00	250.00	18750
33	Excavation the ground for locating the fault removing the cable from the trench, detecting the fault, relaying the cable and making the ground as per original. a) Upto 25 Sq.mm (LT Cable)	Item 33	Mtr	100.00	271.00	27100.00	250.00	25000	30.00	3000.00	155.00	15500.00	300.00	30000	85.00	8500.00	115.00	11500.00	1000.00	100000
34	Excavation the ground for locating the fault removing the cable from the trench, detecting the fault, relaying the cable and making the ground as per original. b) Above 25 Sq.mm and upto 120 Sq.mm Cable (LT Cable)	Item 34	Mtr	50.00	295.00	14750.00	250.00	12500	40.00	2000.00	155.00	7750.00	300.00	15000	95.00	4750.00	135.00	6750.00	1500.00	75000
35	Excavation the ground for locating the fault removing the cable from the trench, detecting the fault, relaying the cable and making the ground as per original. c) Upto 25 Sq.mm HT Cable	Item 35	Mtr	50.00	295.00	14750.00	250.00	12500	70.00	3500.00	155.00	7750.00	300.00	15000	110.00	5500.00	177.00	8850.00	1500.00	75000
36	SH- III SUPPLY OF MATERIALS- SPARES [GENERAL ITEMS] Supply of copper wound ballast 250 W HPSV/MH VPIT mercury type	Item 36	Each	6.00	1267.00	7602.00	1200.00	7200	600.00	3600.00	250.00	1500.00	1500.00	9000	1250.00	7500.00	944.00	5664.00	750.00	4500
37	Supply of copper wound Ballast 40 Watt HPSV/MH	Item 37	Each	10.00	249.00	2490.00	200.00	2000	500.00	5000.00	250.00	2500.00	2000.00	20000	1250.00	12500.00	472.00	4720.00	500.00	5000
38	Supply of 250W lamp HPSV/MH SON	Item 38	Each	14.00	1056.00	14784.00	800.00	11200	900.00	12600.00	325.00	4550.00	1500.00	21000	450.00	6300.00	590.00	8260.00	750.00	10500
39	Supply of Starter 40W (make havells or equivalent)	Item 39	Each	24.00	14.00	336.00	20.00	480	10.00	240.00	25.00	600.00	20.00	480	7.00	168.00	15.00	360.00	15.00	360
40	Supply of Cordless bell with remote suitable for 230V, 50 Hz single phase AC supply equivalent to Anchor 22740	Item 40	Each	2.00	567.00	1134.00	500.00	1000	300.00	600.00	650.00	1300.00	250.00	500	180.00	360.00	413.00	826.00	750.00	1500
41	Supply of PVC Blanking Plate for MCB DB	Item 41	Each	40.00	26.00	1040.00	50.00	2000	10.00	400.00	20.00	800.00	10.00	400	5.00	200.00	18.00	720.00	11.00	440
42	Supply of PVC Canopy for Ceiling Fans	Item 42	Each	10.00	15.00	150.00	50.00	500	10.00	100.00	75.00	750.00	25.00	250	5.00	50.00	59.00	590.00	30.00	300
43	Supply of follwing type Plastic Capacitors with wire terminals for fans and motor run suitable for 230V/415V, 50 Hz AC supply. Capacitor 2.25 MFD, 230V, Wire Terminal	Item 43	Each	2.00	26.00	52.00	100.00	200	10.00	20.00	40.00	80.00	25.00	50	25.00	50.00	35.00	70.00	25.00	50
44	Capacitor 15 MFD	Item 44	Each	5.00	67.00	335.00	150.00	750	8.00	40.00	55.00	275.00	300.00	1500	25.00	125.00	59.00	295.00	45.00	225

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							Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount
45	PVC Casing capping of size 20*12mm [ISI Marked] (Precision or equivalent)	Item 45	Mtr	50.00	22.00	1100.00	30.00	1500	30.00	1500.00	40.00	2000.00	50.00	2500	20.00	1000.00	24.00	1200.00	25.00	1250
46	PVC Casing capping of size 25*12mm [ISI Marked] (Precision or equivalent)	Item 46	Mtr	80.00	24.00	1920.00	30.00	2400	35.00	2800.00	50.00	4000.00	60.00	4800	25.00	2000.00	30.00	2400.00	25.00	2000
47	PVC Casing capping of size 2 Inch Box Type 50x50mm [ISI Marked] (Precision or equivalent)	Item 47	Mtr	30.00	128.00	3840.00	50.00	1500	60.00	1800.00	400.00	12000.00	200.00	6000	65.00	1950.00	59.00	1770.00	25.00	750
48	PVC channel Cable duct 75mmx 50mm [ISI Marked] (Precision or equivalent)	Item 48	Mtr	30.00	309.00	9270.00	50.00	1500	40.00	1200.00	120.00	3600.00	400.00	12000	95.00	2850.00	118.00	3540.00	25.00	750
49	Supply of Wall Mounting Fan, 400 mm sweep (Model : Havells Platina or Equivalent)	Item 49	Each	5.00	2464.00	12320.00	1400.00	7000	1800.00	9000.00	3500.00	17500.00	3800.00	19000	1870.00	9350.00	3540.00	17700.00	2550.00	12750
50	Supply of Pedestal Fan, 400 mm sweep (Model : Havells Sprint HS or equivalent)	Item 50	Each	5.00	2478.00	12390.00	2500.00	12500	2200.00	11000.00	4000.00	20000.00	3500.00	17500	2800.00	14000.00	4130.00	20650.00	7500.00	37500
51	Supply of Exhaust fan Blade Sweep 300MM, 1400RPM, Robust metal body with front protection guard.(Model : Havells Turbo Force SP or equivalent)	Item 51	Each	5.00	1370.00	6850.00	3500.00	17500	1500.00	7500.00	5000.00	25000.00	2600.00	13000	3200.00	16000.00	236.00	1180.00	3500.00	17500
52	Supply of heat Piller heater 1500 W	Item 52	Each	10.00	3004.00	30040.00	4000.00	40000	2500.00	25000.00	2000.00	20000.00	3000.00	30000	1150.00	11500.00	1180.00	11800.00	3500.00	35000
53	Supply of Heater Rod up to 2 feet length	Item 53	Each	40.00	360.00	14400.00	5000.00	20000	120.00	4800.00	2500.00	10000.00	600.00	24000	150.00	6000.00	354.00	14160.00	100.00	4000
54	Supply of Ignitor for HPSV lamp 70/250/400 Watt sodium vapour or metal halide lamp suitable for operation of 250V 50Hz AC supply.	Item 54	Each	12.00	131.00	1572.00	500.00	6000	50.00	600.00	750.00	9000.00	300.00	3600	150.00	1800.00	354.00	4248.00	495.00	5940
55	Supply of Pilot Lamp with Integral circuit LED [indicator R,Y,B]	Item 55	Each	30.00	179.00	5370.00	200.00	6000	60.00	1800.00	300.00	9000.00	150.00	4500	75.00	2250.00	142.00	4260.00	470.00	14100
56	Supply of integrated LED Pilot Lamp [indicator R,Y,B]	Item 56	Each	20.00	313.00	6260.00	100.00	2000	60.00	1200.00	300.00	6000.00	120.00	2400	75.00	1500.00	118.00	2360.00	99.00	1980
57	Supply of following type of LED luminaire having required power consumption and required lumen output as per manufacturers technical specification approved Supply of 2 X 2 size LED luminaire of 43 W (model-BCTBLS 43W ZT WH) or Equivalent as approved by Engineer in charge	Item 57	Each	2.00	4261.00	8522.00	4000.00	8000	1500.00	3000.00	4000.00	8000.00	4000.00	8000	2400.00	4800.00	4720.00	9440.00	950.00	1900
58	Supply of LED T8 Tubelight of 18 W (model-BLRB 18W CWC WH) or Equivalent as approved by Engineer in charge	Item 58	Each	5.00	664.00	3320.00	200.00	1000	300.00	1500.00	650.00	3250.00	900.00	4500	230.00	1150.00	590.00	2950.00	750.00	3750
59	Supply of LED luminaire of size 1X1 18W Tubelight of 18 W (model-BCTBLS 18 WH) or Equivalent as approved by Engineer in charge	Item 59	Each	3.00	2442.00	7326.00	200.00	600	800.00	2400.00	2500.00	7500.00	400.00	1200	185.00	555.00	2360.00	7080.00	500.00	1500
60	Supply of LED luminaire of 2' X 2' size of 36 W (model -BCTBLS 36 ZT WH) or Equivalent as approved by Engineer in charge	Item 60	Each	2.00	3895.00	7790.00	300.00	600	1500.00	3000.00	2500.00	5000.00	900.00	1800	2000.00	4000.00	4720.00	9440.00	1475.00	2950
61	Supply of LED Downlighter of 15W (Make Baja, BZSLO 15W DOVEE PRO) or Equivalent as approved by Engineer in charge	Item 61	Each	4.00	1304.00	5216.00	1500.00	6000	900.00	3600.00	850.00	3400.00	2000.00	8000	450.00	1800.00	1416.00	5664.00	1500.00	6000
62	Supply of LED luminaire of 1' X 1' size of 15 W Downlight (model-EDGEPROSODLR15WLED857S) or Equivalent as approved by Engineer in charge	Item 62	Each	4.00	968.00	3872.00	300.00	1200	1000.00	4000.00	850.00	3400.00	2500.00	10000	450.00	1800.00	2950.00	11800.00	5100.00	20400
63	Supply of LED luminaire of type post top lantern (make-RUBYPT25WLED757PSYMTOPC 9405) or Equivalent as approved by Engineer in charge	Item 63	Each	2.00	6852.00	13704.00	1800.00	3600	2000.00	4000.00	3000.00	6000.00	4000.00	8000	3800.00	7600.00	3500.00	7000.00	1200.00	2400
64	Supply of AC MCB/ Isolator/ RCCB having fixed time/current characteristics for use in protection of industrial, commercial and domestic electrical installations suitable for use on 240 V / 415 V 50 Hz AC supply having facility for termination of aluminum cable and fixing arrangements on steel mounting rail conforming to IS : 8828 / 78 with amendment no 1 x and mounting rail to IS : 11039/83 tide top hat section rail TH 35-7-5 of following rating : 6-32A SP MCB, C series	Item 64	Each	10.00	203.00	2030.00	190.00	1900	150.00	1500.00	150.00	1500.00	3000.00	30000	110.00	1100.00	236.00	2360.00	155.00	1550
65	63A SPN MCB, C Series	Item 65	Each	2.00	872.00	1744.00	500.00	1000	300.00	600.00	400.00	800.00	1200.00	2400	435.00	870.00	354.00	708.00	1111.00	2222
66	6-32 A MCB SPN, C series	Item 66	Each	3.00	490.00	1470.00	400.00	1200	200.00	600.00	750.00	2250.00	600.00	1800	385.00	1155.00	400.00	1200.00	599.00	1797
67	MCB TPN 63A, C series	Item 67	Each	3.00	1520.00	4560.00	1500.00	4500	500.00	1500.00	1250.00	3750.00	900.00	2700	1100.00	3300.00	1180.00	3540.00	5360.00	16080
68	100 A TPN Isolator	Item 68	Each	3.00	951.00	2853.00	1000.00	3000	800.00	2400.00	2500.00	7500.00	1200.00	3600	850.00	2550.00	1062.00	3186.00	795.00	2385
69	40A RCCB, 300mA Sensitivity, DP	Item 69	Each	3.00	2924.00	8772.00	1500.00	4500	1200.00	3600.00	3500.00	10500.00	3000.00	9000	1100.00	3300.00	3540.00	10620.00	3570.00	10710
70	63A RCCB, 300mA Sensitivity, DP	Item 70	Each	3.00	3484.00	10452.00	3500.00	10500	1800.00	5400.00	4000.00	12000.00	3000.00	9000	1100.00	3300.00	3776.00	11328.00	3570.00	10710
71	40A RCCB, 300mA Sensitivity, FP	Item 71	Each	2.00	3369.00	6738.00	2700.00	5400	2000.00	4000.00	3500.00	7000.00	3000.00	6000	1100.00	2200.00	5310.00	10620.00	3559.00	7118
72	63A RCCB, 300mA Sensitivity, FP	Item 72	Each	2.00	3591.00	7182.00	2900.00	5800	2100.00	4200.00	5500.00	11000.00	3000.00	6000	1100.00	2200.00	5900.00	11800.00	3559.00	7118
73	PVC Pipe 20 mm [ISI Marked] (Make Precision or equivalent)	Item 73	Mtr	50.00	21.00	1050.00	30.00	1500	30.00	1500.00	40.00	2000.00	50.00	2500	60.00	3000.00	35.00	1750.00	20.00	1000
74	PVC Pipe 25 mm [ISI Marked] (Make Precision or equivalent)	Item 74	Mtr	50.00	29.00	1450.00	40.00	2000	40.00	2000.00	40.00	2000.00	60.00	3000	65.00	3250.00	40.00	2000.00	20.00	1000
75	PVC Pipe 32 mm [ISI Marked] (Make Precision or equivalent)	Item 75	Mtr	30.00	62.00	1860.00	50.00	1500	50.00	1500.00	55.00	1650.00	70.00	2100	70.00	2100.00	47.00	1410.00	25.00	750
76	PVC Pipe Flexible 25 mm dia ISI Marked	Item 76	Mtr	30.00	22.00	660.00	60.00	1800	60.00	1800.00	40.00	1200.00	80.00	2400	10.00	300.00	30.00	900.00	25.00	750

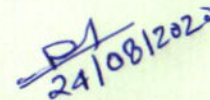
24/07/2020
Jr. Executive (E-E) *[Signature]*
24/07/2020 SM (E-E)

Sr. No	Description of Items	Item Code Make	Unit	Qty.	Justified		Anil Kumar Sharma(GSTN-NA)		M/S B.A.G ENTERPRISES(GSTN-NA)		Techno Electricals(GSTN-NA)		Manish Electricals(GSTN-NA)		S. N ELECTRICALS(GSTN-NA)		NATIONAL SAFETY ENGINEERS(GSTN-NA)		ROSHAN REFRIGERATION AND ELECTRICALS(GSTN-NA)	
							Bidder No-1		Bidder No-2		Bidder No-3		Bidder No-4		Bidder No-5		Bidder No-6		Bidder No-7	
					Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount
77	Supply of 3 pin top 5/6 Amp, 240 volt, AC Supply. (Make : Anchor Code no. 39571/51348 or equivalent)	Item 77	Each	15.00	33.00	495.00	90.00	1350	50.00	750.00	65.00	975.00	30.00	450	15.00	225.00	40.00	600.00	115.00	1725
78	Supply of 3 pin Top 15/16 Amp, 240 volt, AC Supply. (Make : Anchor Code no. 39582/51395 or equivalent)	Item 78	Each	15.00	76.00	1140.00	150.00	2250	70.00	1050.00	85.00	1275.00	75.00	1125	10.00	150.00	88.00	1320.00	215.00	3225
79	Supply of 6A Switch (Colour White) equivalent to Make Anchor Code no. 38014 or equivalent)	Item 79	Each	30.00	15.00	450.00	60.00	1800	20.00	600.00	40.00	1200.00	25.00	750	25.00	750.00	35.00	1050.00	45.00	1350
80	Supply of 16A Switch (Colour White) equivalent to Make Anchor Code no. 38014 or equivalent)	Item 80	Each	30.00	91.00	2730.00	150.00	4500	22.00	660.00	85.00	2550.00	75.00	2250	15.00	450.00	77.00	2310.00	145.00	4350
81	Supply of 6A, 2 in 1 Socket as per IS 3854/88, 240V-50Hz AC supply equivalent to Anchor Penta Delux-14304.	Item 81	Each	20.00	28.00	560.00	100.00	2000	15.00	300.00	65.00	1300.00	90.00	1800	110.00	2200.00	47.00	940.00	190.00	3800
82	Supply of 20A & 10A, Universal Socket as per IS 3854/88, 240V-50Hz AC supply equivalent to Anchor Penta Delux-14307.	Item 82	Each	20.00	75.00	1500.00	100.00	2000	30.00	600.00	125.00	2500.00	120.00	2400	110.00	2200.00	95.00	1900.00	235.00	4700
83	Power Strip with 4 universal socket with shutter & individual switch and indicator (Make Anchor Code 22568)	Item 83	Each	2.00	473.00	946.00	100.00	200	100.00	200.00	450.00	900.00	300.00	600	110.00	220.00	472.00	944.00	1350.00	2700
84	Supply of following size of copper conductor PVC insulated flexible, heat resistant flame retardent grade wires suitable for domestic and industrial purpose. Conforming to IS:694 3 core 1.5 sqmm FRLS round Copper Conductor wire (Roll of 100mtr)	Item 84	Each	1.00	4846.00	4846.00	1500.00	1500	2000.00	2000.00	4500.00	4500.00	6900.00	6900	5400.00	5400.00	5900.00	5900.00	4700.00	4700
85	1 core 6.0 sqmm FRLS round Copper Conductor wire (Roll of 100mtr)	Item 85	Each	1.00	5042.00	5042.00	4000.00	4000	3000.00	3000.00	6500.00	6500.00	5800.00	5800	12000.00	12000.00	5310.00	5310.00	4500.00	4500
86	SH- III SUPPLY OF MATERIALS - SPARES [RUNWAY ITEMS] Supply of Essna Connector for 6 sqmm runway Cable	Item 86	Each	50.00	677.00	33850.00	500.00	25000	200.00	10000.00	450.00	22500.00	480.00	24000	250.00	12500.00	1416.00	70800.00	1500.00	75000
87	Supply of Essna Connector for 16 sqmm runway Cable	Item 87	Each	10.00	677.00	6770.00	500.00	5000	250.00	2500.00	450.00	4500.00	500.00	5000	250.00	2500.00	2000.00	20000.00	2500.00	25000
88	Supply of BI-PIN Holder for 45-200W, 6.6A	Item 88	Each	10.00	500.00	5000.00	1000.00	10000	100.00	1000.00	285.00	2850.00	480.00	4800	850.00	8500.00	353.00	3530.00	999.00	9990
89	Supply of Isolating transformer of 20/6.6 A, 200W	Item 89	Each	10.00	5589.00	55890.00	5000.00	50000	1000.00	10000.00	3000.00	30000.00	5500.00	55000	2400.00	24000.00	2950.00	29500.00	999.00	9990
90	Supply of Isolating transformer of 20/6.6 A, 45W	Item 90	Each	10.00	4412.00	44120.00	5000.00	50000	1000.00	10000.00	3000.00	30000.00	4000.00	40000	2400.00	24000.00	2360.00	23600.00	999.00	9990
91	Supply of Isolating transformer of 6.6/6.6 A, 200W	Item 91	Each	10.00	5589.00	55890.00	5000.00	50000	1000.00	10000.00	4500.00	45000.00	5500.00	55000	2400.00	24000.00	3540.00	35400.00	549.00	5490
92	Supply of Halogen lamp for runway light, 150W, 6.6A,(Model - Philips 6292 or Equivalent)	Item 92	Each	30.00	764.00	22920.00	600.00	18000	900.00	27000.00	650.00	19500.00	900.00	27000	650.00	19500.00	1180.00	35400.00	2100.00	63000
93	Supply of Halogen lamp for runway light, 45W, 6.6A,(Model - Philips 6134 or Equivalent)	Item 93	Each	30.00	777.00	23310.00	600.00	18000	1000.00	30000.00	545.00	16350.00	450.00	13500	550.00	16500.00	1062.00	31860.00	1100.00	33000
94	SH- III SUPPLY OF MATERIALS [T & P] Supply of following type heavy duty self supported Platform Aluminum ladder made from 10 SWG Jindal / Hindalco/ approved make Aluminum "C" section size 66 x 33 x 3.15 mm with 1 inch Aluminum non slip corrugated step with shock proof rubber shoes, working platform etc. as required. a) Height 12 feet Twins step type as approved by Engineer In charge.	Item 94	Each	1.00	7475.00	7475.00	10000.00	10000	10000.00	10000.00	18500.00	18500.00	60000.00	60000	6500.00	6500.00	29500.00	29500.00	6000.00	6000
95	Supply of following type heavy duty self supported Platform Aluminum ladder made from 10 SWG Jindal / Hindalco/ approved make Aluminum "C" section size 66 x 33 x 3.15 mm with 1 inch Aluminum non slip corrugated step with shock proof rubber shoes, working platform etc. as required. b) Height 6 feet Twin Step ladder Model no. AA-3 or equivalent as approved by Engineer In charge.	Item 95	Each	1.00	3738.00	3738.00	6000.00	6000	6000.00	6000.00	16580.00	16580.00	60000.00	60000	3100.00	3100.00	10620.00	10620.00	2000.00	2000
96	Supply of following type heavy duty self supported Platform Aluminum ladder made from 10 SWG Jindal / Hindalco/ approved make Aluminum "C" section size 66 x 33 x 3.15 mm with 1 inch Aluminum non slip corrugated step with shock proof rubber shoes, working platform etc. as required. Supply of insulated Electrical mat for voltage upto 33 KV	Item 96	Mtr	20.00	692.00	13840.00	3000.00	60000	800.00	16000.00	1252.00	25040.00	1200.00	24000	850.00	17000.00	649.00	12980.00	650.00	13000

24/08/2020
Jr. Executive (E-E)

24/08/2020
Sm (E-E)

Sr. No	Description of Items	Item Code Make	Unit	Qty.	Justified		Anil Kumar Sharma(GSTN-NA)		M/S B.A.G ENTERPRISES(GSTN-NA)		Techno Electricals(GSTN-NA)		Manish Electricals(GSTN-NA)		S. N ELECTRICALS(GSTN-NA)		NATIONAL SAFETY ENGINEERS(GSTN-NA)		ROSHAN REFRIGERATION AND ELECTRICALS(GSTN-NA)	
							Bidder No-1		Bidder No-2		Bidder No-3		Bidder No-4		Bidder No-5		Bidder No-6		Bidder No-7	
					Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount
97	SH- IV DSR ITEM: Complete items of CPWD Schedule of Rates (Electrical- 2018). (Rates Shall be quoted in multiples e.g. 0.99 or 1.01% Above / Below) . The rate may be quoted in the following manner. (i) If quoted amount is Rs 45000 then the percentage will be considered as 10% below of DSR 2018. (ii) If quoted amount is Rs 50000 then the percentage will be considered as 0% above/ below.of DSR 2018. (iii) If quoted amount is Rs 55000 then the percentage will be considered as 10% above of DSR 2018. (iv) The Rate will be Inclusive of GST.	Item 97	INR	50000.00	1.00	50000.00	.80	40000	1.80	90000.00	.80	40000.00	1.00	50000	.50	25000.00	1.14	57000.00	.90	45000
(A) = TOTAL						5418705.00	4989930.00		4490186		5175442.00		5476205.00		5814927.16		5068710.00		6592959.00	
Remark [Below / Above of Justified Cost]							-428775.00		-928519.00		-243263.00		57500.00		396222.16		-349995.00		1174254.00	
							-7.91 % Below		-17.14 % Below		-4.49 % Below		1.06 % Above		7.31 % Above		-6.46 % Below		21.67 % Above	
STATUS							L2		L1		L4		L5		L6		L3		L7	


 24/08/2020
 Manoj Singh Chamyal
 Jr. Executive (E-E)
 Shimla Airport.


 24/08/2020
 (V.S. Dahiya)
 Sr. Manager (Engg-E)
 AAI, Shimla Airport

Signature Not Verified

Digitally signed by Vijender Singh Dahiya
 Date: 2020.08.24 16:59:02 IST
 Location: eProcurement System for Central PSUs

