

COMPARATIVE STATEMENT

Name of Work :- Operation & Maintenance contract for the E & M Installations i/c supply of GLF spares at C.A. Keshod for 2 years (2020-22).

It. No.	Description of item	Unit	Qty	Justified Cost		Techno Electricals(GSTN-24AAGFT9086M12G)		CENTRE TAP ENGINEERING(GSTN-24AGPP8172K12P)		Manish Electricals(GSTN-22ABLPW9012E12V)		Yash Energy Pvt. Ltd(GSTN-24AAAACV3771H17A)	
				RATE	AMT	RATE	AMT	RATE	AMT	RATE	AMT	RATE	AMT
1.00	Annual Periodical Maintenance of E&M Installations at Terminal Building, Power House & other ancillary buildings, AAI residential colony complete with operation & maintenance of DG sets, Pumps, GLF installations comprising runway edge, taxiways, apron edge lighting, approach lighting, PAPI system, CCR panels, apron high mast lighting all as required to ensure un-interrupted services including minor repairing works as detailed in the technical specifications, terms & conditions of the contract by deputing sufficient manpower round the clock in one shift/General shift for attending to complaints/faults/breakdowns, ensuring serviceability & satisfactory working condition of the system, preventive maintenance, upkeeping of maintenance records/documentation etc., on all working days including Sundays and holidays and also as & when required basis.	Months	24.00	60447	1450728	60125	1443000.00	60000	1440000.00	56943	1366632.00	64200	1540800.00
2.00	Annual Comprehensive maintenance contract including repair/replacement of all parts of various makes of A/C units at different locations in Airport premises complete as required as specified for following capacity & type (Each one Set./Job per month).												
2.10	1.0 Ton Split type (1-Ø,50Hz) (2 Nos. X 24 months = 24 jobs.)	Job	48.00	250	12000	100	4800.00	200	9600.00	300	14400.00	300	14400.00
2.20	1.5 Ton Split type (1-Ø,50Hz) (11 Nos.X 24 months + 4 Nos.x16 months) = 328 jobs.)	Job	328.00	250	82000	125	41000.00	200	65600.00	300	98400.00	300	98400.00
2.30	2 Ton Split type (1-Ø,50Hz) (2 Nos.X 24 months = 48 jobs.)	Job	48.00	300	14400	125	6000.00	250	12000.00	350	16800.00	450	21600.00
2.40	5 Ton Cassette type (3-Ø,50Hz) (5 nos. X 24 months = 120 jobs.)	Job	120.00	800	96000	150	18000.00	450	54000.00	700	84000.00	500	60000.00
3.00	Annual comprehensive maintenance contract including repair/replacement of all parts for Voltas/Usha make water Cooler at different locations in airport premises complete as per site requirement for following capacity & make (Each one Set./Job per month).												

Intend
Mr. Ex (EE)



It. No.	Description of item	Unit	Qty	Justified Cost		Techno Electricals(GSTN-24AAAGFT9086M12G)		CENTRE TAP ENGINEERING(GSTN-24AGPP8172K12P)		Manish Electricals(GSTN-22ABLPW9012E12Y)		Yash Energy Pvt. Ltd(GSTN-24AAACV3771H1ZA)	
				RATE	AMT	RATE	AMT	RATE	AMT	RATE	AMT	RATE	AMT
							1/4		2/4		3/4		4/4
3.10	40/50/80 ltrs water Cooler (Usha make) (5Nos. x 24 months= 120 Jobs)	Job	72.00	480	34560	250	18000.00	400	28800.00	300	21600.00	200	14400.00
3.20	150/150 ltrs water Cooler (Blue Star make) (1 Nos. x 16 months= 16 Jobs)	Job	16.00	600	9600	250	4000.00	500	8000.00	500	8000.00	300	4800.00
4.00	Annual Comprehensive maintenance contract including consumable items and all spare parts i/c. membrane etc. of all makes of RO unit at different locations in airport premises complete as per site requirement for following type & capacity (Each Job per month)												
4.10	25/40 LPH RO unit (5 Nos. x 24 months = 120 Job)	Job	120.00	370	44400	200	24000.00	300	36000.00	250	30000.00	300	36000.00
4.20	50 LPH RO unit (1 No. x 16 months = 1 JOB)	Job	16.00	600	9600	300	4800.00	500	8000.00	400	6400.00	400	6400.00
5.00	Dismantling, Shifting & Reinstallation of 1.5 / 2.0 /5.0 Ton Capacity of all makes & types of A/C unit in airport premises (Job i/c piping work upto 2 feet, Gas charging etc complete as required).												
6.00	Servicing, repairing, rewinding and replacement of defective part like bearings, bushing etc. and also transporting from site to contractors workshop & back to site, testing and commissioning etc. complete as per site requirement for the following motors (Dismantle material belongs to Contractor)												
6.10	Ceiling Fan/Wall Fan (1-Phase, 50Hz, 240V AC)	Job	10.00	500	5000	100	1000.00	250	2500.00	450	4500.00	321	3210.00
6.20	Exhaust fan Up to 450 mm (1-Phase, 50Hz,240V AC)	Job	4.00	700	2800	100	400.00	400	1600.00	600	2400.00	321	1284.00
6.30	3 HP to 5 HP pump motor sets (3-Phase, 50Hz,415V AC)	Job	2.00	795	1590	200	400.00	450	900.00	700	1400.00	535	1070.00
7.00	Servicing, repairing and replacement of defective part like Relay, PCB etc. of Electronic voltage stabilizer for AC units including transportation from site to contractor's workshop & back to site. (Dismantle Material belongs to contractor).	Job	4.00	3850	15400	100	400.00	3500	14000.00	3000	12000.00	1620	6480.00



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Dr. Ex. L. E. E.

It. No.	Description of item	Unit	Qty	Justified Cost		Techno Electricals(GSTN-24AAAGT9086M1ZG)		CENTRE TAP ENGINEERING(GSTN-24AGPP8172K1ZP)		Manish Electricals(GSTN-22ABLPW9012E1ZY)		Yash Energy Pvt. Ltd(GSTN-24AAACV3771H1ZA)	
				RATE	AMT	RATE	AMT	RATE	AMT	RATE	AMT	RATE	AMT
8.00	Calibration of CCR & Sensitivity of relay on 4 KW to 20 KW CCR of NASU/AMA make CCR including submitting reports etc., complete as required.	Job	9.00	2000	18000	3000	27000.00	1800	16200.00	1500	13500.00	6480	58320.00
9.00	Calibration of PAPI Clinometer etc. complete as required.	Job	2.00	7700	15400	1785	3570.00	5500	11000.00	5000	10000.00	11340	22680.00
10.00	Inspection, servicing, setting, adjustment, calibration and submission of calibration certificate of following instruments including minor repairs etc. Complete as per site requirement.												
10.10	Electronic IDMT Relay	Job	2.00	2200	4400	1700	3400.00	1000	2000.00	500	1000.00	1080	2160.00
10.20	Voltmeter Digital suitable for AC supply.	Job	14.00	400	5600	200	2800.00	200	2800.00	300	4200.00	540	7560.00
10.30	Ammeter Digital suitable for AC supply.	Job	14.00	400	5600	200	2800.00	200	2800.00	300	4200.00	540	7560.00
10.40	Digital Power Factor (Cos Ø) Meter/frequency meter	Job	16.00	500	8000	200	3200.00	300	4800.00	500	8000.00	648	10368.00
11.00	Painting of light poles with aluminium paint of (2 coats) of approved brand and make, along with one coat of primer, including cleaning the surface all as required. Painting of each pole will be treated as one job.												
12.00	Decoration of Terminal building facade with LED serial lighting and RGB pattern lighting on special occasions/nationally important days/festivals as per the requirements shown below - (i) Minimum no. of LED serial lighting - not less than 5000 LED lights. (ii) Pixel Chaser light batten running linearly on the top of the building, ATC tower, entry gate walls for a length of not more than 350 m. (iii) Halogen focus lights (Green or Yellow) for trees around terminal building - 10 Nos. Type of Decoration will be as per the theme of occasions and upto the satisfaction of the Engineer In-charge/Airport Director.	Job	57.00	500	28500	250	14250.00	250	14250.00	400	22800.00	892	50844.00
12.10	Independence day / Republic day / AAI foundation day / Christmas / New Year (Starting from 18.00 hrs. on the Day before the Occasions to till 06.00 hrs on the day after the Occasions) Each occasion in an year shall be treated as one Job.	Job	4.00	22000	88000	11125	44500.00	8500	34000.00	15000	60000.00	15750	63000.00
13.00	Execution of Complete items of CPWD Delhi schedule of rates (E&M) 2018.[Up to a Ceiling limit of Rs. 60,000 without GST]. The materials used for executing the DSR items shall be as per the approved make list of AAI, as enclosed with the tender document.	Select	60000	1	60000	0.2	48000.00	0.5	30000.00	0.2	48000.00	0.35	39000.00



Signature
S. K. SINGH

It. No.	Description of item	Unit	Qty	Justified Cost		Techno Electricals(GSTN-24AAAGFT9086M1ZG)		CENTRE TAP ENGINEERING(GSTN-24AGPP8172K1ZP)		Manish Electricals(GSTN-22ABLPW9012E1ZY)		Yash Energy Pvt. Ltd(GSTN-24AAACV3771H1ZA)	
				RATE	AMT	RATE	AMT	RATE	AMT	RATE	AMT	RATE	AMT
14.00	Supply of HT insulation tape roll of size 19mmX 0.9mm of length not less then 9 Mtr	Each	3.00	340	1020	1000	3000.00	300	900.00	300	900.00	699	2097.00
15.00	Supply of LT insulation tape roll of colour red,green,blue and black of length not less then 9 Mtr per roll	Each	20.00	10	200	20	400.00	9	180.00	20	400.00	12	240.00
16.00	Supply of 3/9/12 W LED bulb suitable for operation on 230 V, 50Hz, AC AC supply complete etc as required. (Make: Havells, Code: LHLDEUHEWL8R009 or Equivalent)	Each	60.00	229	13740	300	18000.00	200	12000.00	150	9000.00	227	13620.00
17.00	200 W 6.6 A bipin runway halogen lamp	Each	50.00	1371	68550	550	27500.00	800	40000.00	850	42500.00	437	21850.00
18.00	Lamp holder for runway/taxiway halogen lamps	Each	50.00	807	40350	250	12500.00	500	25000.00	450	22500.00	495	24750.00
19.00	Clear lens suitable for AMA MK-III PAPI Unit (Make- AMA)	Each	3.00	7245	21735	2000	6000.00	3000	9000.00	3000	9000.00	2097	6291.00
20.00	Red filter suitable for AMA MK-III PAPI Unit (Make- AMA)	Each	3.00	6107	18321	4500	13500.00	2000	6000.00	3000	9000.00	2330	6990.00
21.00	Aluminium Reflector suitable for AMA MK-III PAPI Unit (Make- AMA)	Each	6.00	3519	21114	1750	10500.00	1500	9000.00	3500	21000.00	2563	15378.00
22.00	Air Filter suitable for AMA MK-III PAPI Unit (Make- AMA)	Each	6.00	1967	11802	1750	10500.00	1000	6000.00	1500	9000.00	2097	12582.00
23.00	Upper Breakable Coupling (Upper Breakable Point + Upper Leg Plate) suitable for AMA MK-III PAPI Unit (Make- AMA)	Each	6.00	1987	11922	2500	15000.00	1000	6000.00	2000	12000.00	1747	10482.00
24.00	Lower breakable coupling for AMA make PAPI	Each	6.00	932	5592	2500	15000.00	500	3000.00	1000	6000.00	874	5244.00
25.00	Upper leg pipe (LH threaded) for AMA make PAPI	Each	6.00	1666	9996	2500	15000.00	500	3000.00	1500	9000.00	1514	9084.00
26.00	Lower Leg Pipe for AMA make PAPI	Each	6.00	1666	9996	2500	15000.00	500	3000.00	1500	9000.00	1514	9084.00
27.00	Locking Nut for upper pipe (RH threaded) for AMA make PAPI	Each	6.00	569	3414	550	3300.00	500	3000.00	400	2400.00	2097	12582.00
28.00	Locking Nut for lower pipe(LH threaded) for AMA make PAPI	Each	6.00	569	3414	550	3300.00	500	3000.00	400	2400.00	2097	12582.00
29.00	Threaded adjustment sleeves (Middle Nut) for AMA make PAPI	Each	2.00	4347	8694	2000	4000.00	1500	3000.00	2000	4000.00	8852	17704.00

Signature
Pratap



It. No.	Description of item	Unit	Qty	Justified Cost		Techno Electricals(GSTN-24AAGFT9086M1ZG)		CENTRE TAP ENGINEERING(GSTN-24AGPP8172K1ZP)		Manish Electricals(GSTN-22ABLP49012E1ZY)		Yash Energy Pvt. Ltd(GSTN-24AAACV3771H1ZA)	
				RATE	AMT	RATE	AMT	RATE	AMT	RATE	AMT	RATE	AMT
30.00	Supply of TDS meter	Each	1.00	311	311	1750	1750.00	300	300.00	600	600.00	990	990.00
31.00	Digital Clamp Meter/ Tongtester suitable for DC/AC/TRMS (Make-Meco, Model-1080-TRMS)	Each	1.00	3474	3474	3500	3500.00	1500	1500.00	2000	2000.00	4252	4252.00
32.00	Digital Insulation Tester with DC test voltage-500 V, 0-200 M ohms Range, and Resolution-0.1 M ohms (Make-Meco, Model-DIT 99C)	Each	1.00	1369	1369	3500	3500.00	1300	1300.00	1500	1500.00	1747	1747.00
33.00	Supply of Earth Tester set	Each	1.00	4775	4775	4252	4252.00	1500	1500.00	4500	4500.00	15725	15725.00
34.00	Supply of driver for existing LED signage board Suitable to operate inbuilt dual circuit having variable current 2.8 A to 6.6 Amp with auto changeover facility. The driver should be able to drive LED strips of 0.5 Watts Osram LED's assembled on aluminium PCB of size 700mm X 20mm and having 11 LED's per PCB for boards. from 5 strips to 20 strips.	Each	5.00	10247	51235	325	1625.00	2200	11000.00	4000	20000.00	3494	17470.00
35.00	Supply of LED strip with high luminous long life typically 50,000 hrs type, 0.5 watts Osram LED's assembled on aluminum PCB of size 700mm X 20mm X 2mm and having 11 LED's per PCB for boards. (make- Poshdecor) At one end single non-reversible jack to be provided for easy replacement of LED without tools at site.	Each	10.00	1242	12420	950	9500.00	800	8000.00	1200	12000.00	699	6990.00
36.00	Supply of loop wire with non-reversible male jack of length 1 Mtr each for LED strips.	Each	4.00	621	2484	400	1600.00	600	2400.00	400	1600.00	466	1864.00
37.00	1000 W Halogen Lamp for High mast	Each	5.00	207	1035	500	2500.00	200	1000.00	90	450.00	466	2330.00
38.00	Supply of 12 V, 180 Ah SMF lead acid batteries for DG Set	Each	2.00	18286	36572	15250	30500.00	15000	30000.00	16000	32000.00	16307	32614.00
39.00	Supply of PAPI calibration stick holder/bracket with cover all as reqd. (as per sample)	Each	2.00	673	1346	1250	2500.00	650	1300.00	500	1000.00	11648	23296.00
40.00	Supply of halogen lamp holder suitable for AMA make PAPI unit complete with insulated leads etc. as reqd. (as per sample)	Each	9.00	497	4473	560	5040.00	450	4050.00	450	4050.00	460	4140.00
41.00	Supply of following Plug in type relays suitable for 20/4 KW CCR	Each	2.00	900	1800	400	800.00	600	1200.00	350	700.00	1013	2026.00
41.20	48 VDC suitable for 11 pin socket	Each	2.00	1035	2070	400	800.00	100	200.00	400	800.00	1165	2330.00
41.30	240 VAC	Each	2.00	1139	2278	400	800.00	850	1700.00	350	700.00	1281	2562.00
42.00	Supply of T1 300 Trip indication fuses for 20/4 KW CCR.	Each	2.00	1294	2588	750	1500.00	900	1800.00	600	1200.00	1456	2912.00

Signature
Dr. Ex (08)



It. No.	Description of item	Unit	Qty	Justified Cost		Techno Electricals(GSTN-24AAGFT9086M1ZG)		CENTRE TAP ENGINEERING(GSTN-24AGPPP8172K1ZP)		Manish Electricals(GSTN-22ABLPW9012E1ZY)		Yash Energy Pvt. Ltd(GSTN-24AAACV3771H1ZA)	
				RATE	AMT	RATE	AMT	RATE	AMT	RATE	AMT	RATE	AMT
43.00	Supply of following High speed Semi-conductor Protection Fuses :												
43.10	GS 1000/100 (Suitable for 20 KW CCR)	Each	2.00	1656	3312	750	1500.00	1200	2400.00	900	1800.00	1864	3728.00
43.20	GSB 50 (Suitable for 4 KW)	Each	2.00	1397	2794	750	1500.00	1000	2000.00	900	1800.00	1572	3144.00
44.00	Supply of following HRC Fuse Link :												
44.10	100 Amps (2 Nos each for 20 KW CCR)	Each	2	1397	2794	700	1400.00	1000	2000.00	600	1200.00	1572	3144.00
44.20	32 Amps (Suitable for 20 KW & 4 KW CCR)	Each	2	1139	2278	700	1400.00	900	1800.00	300	600.00	1281	2562.00
45.00	Power Transistors MJ11016 suitable for all rating of CCRs.	Each	2	983	1966	500	1000.00	850	1700.00	1200	2400.00	1107	2214.00
	Total Rs.		2.00		2416812.00		1968787.00		2016080.00		2109232.00		2406736.00
	Say Rs.				2416812.00		1968787.00		2016080.00		2109232.00		2406736.00
							18.54% Below JC		16.58% Below JC		12.73% Below JC		0.42% Below JC
							L-1		L-2		L-3		L-4

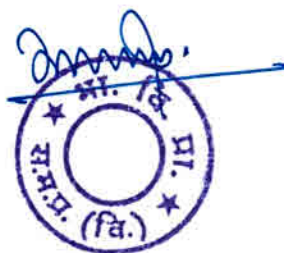
Signature
Jr. Executive (Engg. Elect.)
AAI, C.A. Porbandar

Signature
Asst. Gen. Manager (Engg. Elect.)
AAI, C.A. Porbandar

BOQ Summary Details**Tender Title: Operation and Maintenance contract for the E and****Tender ID: 2020_AAI_53557_2**

Sheet Name	Sl.No	Bidder Name	Amount	Bid Rank
BoQ1	1	Techno Electricals	1968787.00	L1
	2	CENTRE TAP ENGINEERING	2016080.00	L2
	3	Manish Electricals	2109232.00	L3
	4	Yash Energy Pvt. Ltd	2406736.00	L4

*Interest
on Ercot*



Government eProcurement System
Created By: Chandrashekhar Sharma
Created Date/Time: 29-Oct-2020 11:27 AM
Tender Title: Operation and Maintenance contract for the E and
Tender ID: 2020_AAI_53557_2

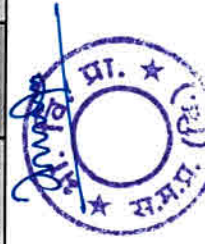
Tender Inviting Authority: Asstt. General Manager (E-E)

Name of Work: "Operation & Maintenance contract for the E & M Installations i/c supply of GLF spares at C.A. Keshod for 2 years (2020-22)."

Contract No: 2020_AAI_53557_2

SCHEDULE OF WORK / ITEM(S)

Sl.No	Description of Work / Item(s)	No. of Qty	Units	Estimated Rate	Techno Electricals(GSTN- 24AAAGFT9086M12G)		CENTRE TAP ENGINEERING(GSTN- 24AGPPPP8172K1ZP)		Manish Electricals(GSTN- 22ABLPM9012E1ZY)		Yash Energy Pvt. Ltd(GSTN- 24AAACY3771H1ZA)		L1 Amount	L1 Vendor
					Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount		
1.00	Annual Periodical Maintenance of E&M Installations at Terminal Building, Power House & other ancillary buildings, AAI residential colony complete with operation & maintenance of DG sets, Pumps, GLF installations comprising runway edge, taxiways, apron edge lighting, approach lighting, PAPI system, CCR panels, apron high mast lighting all as required to ensure un-interrupted services including minor repairing works as detailed in the technical specifications, terms & conditions of the contract by deputing sufficient manpower round the clock in one shift/General shift for attending to complaints/faults/breakdowns, ensuring serviceability & satisfactory working condition of the system, preventive maintenance, upkeeping of maintenance records/documentation etc. on all working days including Sundays and holidays and also as & when required basis.	24.00	Months		60125.00	1443000.00	60000.00	1440000.00	56943.00	1356632.00	64200.00	1540800.00	1366632.00	Manish Electricals
2.00	Annual Comprehensive maintenance contract including repair/replacement of all parts of various makes of A/C units at different locations in Airport premises complete as required as specified for following capacity & type (Each one Set/Job per month).													
2.10	1.0 Ton Split type (1-Ø,50Hz) (2 Nos. X 24 months = 24 jobs.)	48.00	Job		100.00	4800.00	200.00	9600.00	300.00	14400.00	300.00	14400.00	4800.00	Techno Electricals
2.20	1.5 Ton Split type (1-Ø,50Hz) (11 Nos.X 24 months + 4 Nos.x16 months) = 328 jobs.)	328.00	Job		125.00	41000.00	200.00	65600.00	300.00	98400.00	300.00	98400.00	41000.00	Techno Electricals
2.30	2 Ton Split type (1-Ø,50Hz) (2 Nos X 24 months = 48 jobs.)	48.00	Job		125.00	6000.00	250.00	12000.00	350.00	16800.00	450.00	21600.00	6000.00	Techno Electricals



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Sl.No	Description of Work / Item(s)	No. of Qty	Units	Estimated Rate	Techno Electricals (GSTN- 24AAGFT9086M1ZG)		CENTRE TAP ENGINEERING (GSTN- 24AGPPP8172K1ZP)		Manish Electricals (GSTN- 22ABLPMB012E1ZY)		Yash Energy Pvt. Ltd (GSTN- 24AAACY3771H1ZA)		L1 Amount	L1 Vendor
					Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount		
2.40	5 Ton Cassette type (3-Ø, 50Hz) (5 nos. X 24 months = 120 jobs.)	120.00	Job		150.00	18000.00	450.00	54000.00	700.00	84000.00	500.00	60000.00	18000.00	Techno Electricals
3.00	Annual comprehensive maintenance contract including repair/replacement of all parts for Voltas/Usha make water Cooler at different locations in airport premises complete as per site requirement for following capacity & make (Each one Set/Job per month).													
3.10	40/50/80 ltrs water Cooler (Usha make) (5Nos. x 24 months= 120 Jobs)	72.00	Job		250.00	18000.00	400.00	28800.00	300.00	21600.00	200.00	14400.00	14400.00	Yash Energy Pvt. Ltd
3.20	150/150 ltrs water Cooler (Blue Star make) (1 Nos. x 16 months= 16 Jobs)	16.00	Job		250.00	4000.00	500.00	8000.00	500.00	8000.00	300.00	4800.00	4000.00	Techno Electricals
4.00	Annual Comprehensive maintenance contract including consumable items and all spare parts i/c. membrane etc. of all makes of RO unit at different locations in airport premises complete as per site requirement for following type & capacity (Each Job per month)													
4.10	25/40 LPH RO unit (5 Nos. x 24 months = 120 Job)	120.00	Job		200.00	24000.00	300.00	36000.00	250.00	30000.00	300.00	36000.00	24000.00	Techno Electricals
4.20	50 LPH RO unit (1 No. x 16 months = 1 JOB)	16.00	Job		300.00	4800.00	500.00	8000.00	400.00	6400.00	400.00	6400.00	4800.00	Techno Electricals
5.00	Dismantling, Shifting & Reinstallation of 1.5 / 2.0 /5.0 Ton Capacity of all makes & types of A/C unit in airport premises (Job i/c piping work upto 2 feet, Gas charging etc complete as required).	4.00	Job		1000.00	4000.00	2000.00	8000.00	3000.00	12000.00	4950.00	19800.00	4000.00	Techno Electricals
6.00	Servicing, repairing, rewinding and replacement of defective part like bearings, bushing etc. and also transporting from site to contractors workshop & back to site, testing and commissioning etc. complete as per site requirement for the following motors (Dismantle material belongs to Contractor)													
6.10	Ceiling Fan/Wall Fan (1-Phase, 50Hz, 240V AC)	10.00	Job		100.00	1000.00	250.00	2500.00	450.00	4500.00	321.00	3210.00	1000.00	Techno Electricals
6.20	Exhaust fan Up to 450 mm (1-Phase, 50Hz, 240V AC)	4.00	Job		100.00	400.00	400.00	1600.00	600.00	2400.00	321.00	1284.00	400.00	Techno Electricals
6.30	3 HP to 5 HP pump motor sets (3-Phase, 50Hz, 415V AC)	2.00	Job		200.00	400.00	450.00	900.00	700.00	1400.00	535.00	1070.00	400.00	Techno Electricals



Handwritten signature and text:
 Jitendra
 8 x 10 (ET)

Sl.No	Description of Work / Item(s)	No. of Qty	Units	Estimated Rate	Techno Electricals (GSTN- 24AAGT9086M12G)		CENTRE TAP ENGINEERING (GSTN- 24AGPP8172K1ZP)		Manish Electricals (GSTN- 22ABLPN9012E1ZY)		Yash Energy Pvt. Ltd (GSTN- 24AAACY3771H1ZA)		L1 Amount	L1 Vendor
					Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount		
7.00	Servicing, repairing and replacement of defective part like Relay, PCB etc. of Electronic voltage stabilizer for AC units including transportation from site to contractor's workshop & back to site. (Dismantle Material belongs to contractor).	4.00	Job		100.00	400.00	3500.00	14000.00	3000	12000.00	1620.00	6480.00	400.00	Techno Electricals
8.00	Calibration of CCR & Sensitivity of relay on 4 KW to 20 KW CCR of NASU/AMA make CCR including submitting reports etc., complete as required.	9.00	Job		3000.00	27000.00	1800.00	16200.00	1500.00	13500.00	6480.00	58320.00	13500.00	Manish Electricals
9.00	Calibration of PAPI Clinometer etc. complete as required.	2.00	Job		1785.00	3570.00	5500.00	11000.00	5000.00	10000.00	11340.00	22680.00	3570.00	Techno Electricals
10.00	Inspection, servicing, setting, testing, adjustment, calibration and submission of calibration certificate of following instruments including minor repairs etc. Complete as per site requirement.													
10.10	Electronic IDMT Relay	2.00	Job		1700.00	3400.00	1000.00	2000.00	500.00	1000.00	1080.00	2160.00	1000.00	Manish Electricals
10.20	Voltmeter Digital suitable for AC supply.	14.00	Job		200.00	2800.00	200.00	2800.00	300.00	4200.00	540.00	7560.00	2800.00	Techno Electricals, CENTRE TAP ENGINEERING NG
10.30	Ammeter Digital suitable for AC supply.	14.00	Job		200.00	2800.00	200.00	2800.00	300.00	4200.00	540.00	7560.00	2800.00	Techno Electricals, CENTRE TAP ENGINEERING NG
10.40	Digital Power Factor (Cos Ø) Meter/frequency meter	16.00	Job		200.00	3200.00	300.00	4800.00	500.00	8000.00	648.00	10368.00	3200.00	Techno Electricals
11.00	Painting of light poles with aluminium paint of (2 coats) of approved brand and make, along with one coat of primer, including cleaning the surface all as required. Painting of each pole will be treated as one job.	57.00	Job		250.00	14250.00	250.00	14250.00	400.00	22800.00	892.00	50844.00	14250.00	Techno Electricals, CENTRE TAP ENGINEERING NG

Final
Dr. Ex (B)



Sl.No	Description of Work / Item(s)	No. of Qty	Units	Estimated Rate	Techno Electricals(GSTN-24AAAGFT9086M1ZG)		CENTRE TAP ENGINEERING(GSTN-24AGPPPB172K1ZP)		Manish Electricals(GSTN-22ABLPMB9012E1ZY)		Yash Energy Pvt Ltd(GSTN-24AAACY3771H1ZA)		L1 Amount	L1 Vendor
					Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount		
12.00	Decoration of Terminal building facade with LED serial lighting and RGB pattern lighting on special occasions/nationally important days/festivals as per the requirements shown below - (i) Minimum no. of LED serial lighting - not less than 5000 LED lights. (ii) Pixel Chaser light batten running linearly on the top of the building, ATC tower, entry gate walls for a length of not more than 350 m. (iii) Halogen focus lights (Green or Yellow) for trees around terminal building - 10 Nos. Type of Decoration will be as per the theme of occasions and upto the satisfaction of the Engineer In-charge/Airport Director.													
12.10	Independence day / Republic day / AAI foundation day / Christmas / New Year (Starting from 18.00 hrs. on the Day before the Occasions to till 06.00 hrs on the day after the Occasions) Each occasion in an year shall be treated as one Job.	4.00	Job			11125.00	8500.00	34000.00	15000.00	60000.00	15750.00	63000.00	34000.00	CENTRE TAP ENGINEERING NG
13.00	Execution of Complete items of CPWD Delhi schedule of rates (E&M) 2018 (Up to a Ceiling limit of Rs. 60,000 without GST). The materials used for executing the DSR items shall be as per the approved make list of AAI, as enclosed with the tender document.	60000.00	Select			0.2	.50	30000.00	.20	48000.00	.35	39000.00	30000.00	CENTRE TAP ENGINEERING NG
14.00	Supply of HT insulation tape roll of size 19mmX 0.9mm of length not less than 9 Mtr	3.00	Each			1000.00	300.00	900.00	300.00	900.00	699.00	2097.00	900.00	CENTRE TAP ENGINEERING NG, Manish Electricals
15.00	Supply of LT insulation tape roll of colour red, green, blue and black of length not less than 9 Mtr per roll	20.00	Each			20.00	9.00	180.00	20.00	400.00	12.00	240.00	180.00	CENTRE TAP ENGINEERING NG
16.00	Supply of 3/9/12 W LED bulb suitable for operation on 230 V, 50Hz, AC AC supply complete etc as required. (Make: Havells, Code: LHLDEUHEML8R009 or Equivalent)	60.00	Each			300.00	200.00	12000.00	150.00	9000.00	227.00	13620.00	9000.00	Manish Electricals
17.00	200 W 6.6 A bipin runway halogen lamp	50.00	Each			550.00	800.00	40000.00	850.00	42500.00	437.00	21850.00	21850.00	Yash Energy Pvt Ltd



Filed
Dr. Ex. L. E.

SLNo	Description of Work / Item(s)	No. of Qty	Units	Estimated Rate	Techno Electricals (GSTN- 24AAGFT9086M1ZG)		CENTRE TAP ENGINEERING (GSTN- 24AGPP8172K7ZP)		Manish Electricals (GSTN- 22ABLPM9012E1ZY)		Yash Energy Pvt. Ltd (GSTN- 24AAACY3771H1ZA)		L1 Amount	L1 Vendor
					Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount		
18.00	Lamp holder for runway/taxiway halogen lamps	50.00	Each		250.00	12500.00	500.00	25000.00	450.00	22500.00	495.00	24750.00	12500.00	Techno Electricals
19.00	Clear lens suitable for AMA MK-III PAPI Unit (Make- AMA)	3.00	Each		2000.00	6000.00	3000.00	9000.00	3000.00	9000.00	2097.00	6291.00	6000.00	Techno Electricals
20.00	Red filter suitable for AMA MK-III PAPI Unit (Make- AMA)	3.00	Each		4500.00	13500.00	2000.00	6000.00	3000.00	9000.00	2330.00	6990.00	6000.00	CENTRE TAP ENGINEERI NG
21.00	Aluminium Reflector suitable for AMA MK-III PAPI Unit (Make- AMA)	6.00	Each		1750.00	10500.00	1500.00	9000.00	3500.00	21000.00	2563.00	15378.00	9000.00	CENTRE TAP ENGINEERI NG
22.00	Air Filter suitable for AMA MK-III PAPI Unit (Make- AMA)	6.00	Each		1750.00	10500.00	1000.00	6000.00	1500.00	9000.00	2097.00	12582.00	6000.00	CENTRE TAP ENGINEERI NG
23.00	Upper Breakable Coupling (Upper Breakable Point + Upper Leg Plate) suitable for AMA MK-III PAPI Unit (Make- AMA)	6.00	Each		2500.00	15000.00	1000.00	6000.00	2000.00	12000.00	1747.00	10482.00	6000.00	CENTRE TAP ENGINEERI NG
24.00	Lower breakable coupling for AMA make PAPI	6.00	Each		2500.00	15000.00	500.00	3000.00	1000.00	6000.00	874.00	5244.00	3000.00	CENTRE TAP ENGINEERI NG
25.00	Upper leg pipe (LH threaded) for AMA make PAPI	6.00	Each		2500.00	15000.00	500.00	3000.00	1500.00	9000.00	1514.00	9084.00	3000.00	CENTRE TAP ENGINEERI NG
26.00	Lower Leg Pipe for AMA make PAPI	6.00	Each		2500.00	15000.00	500.00	3000.00	1500.00	9000.00	1514.00	9084.00	3000.00	CENTRE TAP ENGINEERI NG
27.00	Locking Nut for upper pipe (RH threaded) for AMA make PAPI	6.00	Each		550.00	3300.00	500.00	3000.00	400.00	2400.00	2097.00	12582.00	2400.00	Manish Electricals
28.00	Locking Nut for lower pipe (LH threaded) for AMA make PAPI	6.00	Each		550.00	3300.00	500.00	3000.00	400.00	2400.00	2097.00	12582.00	2400.00	Manish Electricals
29.00	Threaded adjustment sleeves (Middle Nut) for AMA make PAPI	2.00	Each		2000.00	4000.00	1500.00	3000.00	2000.00	4000.00	8852.00	17704.00	3000.00	CENTRE TAP ENGINEERI NG

Attended
For EX (EE)



Sl.No	Description of Work / Item(s)	No. of Qty	Units	Estimated Rate	Techno Electricals(GSTN-24AAGFT9086M12G)		CENTRE TAP ENGINEERING(GSTN-24AGPPP8172K7ZP)		Manish Electricals(GSTN-22ABLPM9012E1ZY)		Yash Energy Pvt Ltd(GSTN-24AAAACY3771H1ZA)		L1 Amount	L1 Vendor
					Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount		
30.00	Supply of TDS meter	1.00	Each		1750.00	1750.00	300.00	300.00	600.00	600.00	990.00	990.00	300.00	CENTRE TAP ENGINEERI NG
31.00	Digital Clamp Meter/ Tongtester suitable for DC/AC/TRMS (Make-Meco, Model-1080-TRMS)	1.00	Each		3500.00	3500.00	1500.00	1500.00	2000.00	2000.00	4252.00	4252.00	1500.00	CENTRE TAP ENGINEERI NG
32.00	Digital Insulation Tester with DC test voltage-500 V, 0-200 M ohms Range, and Resolution-0.1 M ohms (Make-Meco, Model-DIT 99C)	1.00	Each		3500.00	3500.00	1300.00	1300.00	1500.00	1500.00	1747.00	1747.00	1300.00	CENTRE TAP ENGINEERI NG
33.00	Supply of Earth Tester set	1.00	Each		4252.00	4252.00	1500.00	1500.00	4500.00	4500.00	15725.00	15725.00	1500.00	CENTRE TAP ENGINEERI NG
34.00	Supply of driver for existing LED signage board Suitable to operate inbuilt dual circuit having variable current 2.8 A to 6.6 Amp with auto changeover facility. The driver should be able to drive LED strips of 0.5 Watts Osram LED's assembled on aluminium PCB of size 700mm X 20mm and having 11 LED's per PCB for boards. from 5 strips to 20 strips.	5.00	Each		325.00	1625.00	2200.00	11000.00	4000.00	20000.00	3494.00	17470.00	1625.00	Techno Electricals
35.00	Supply of LED strip with high luminous long life typically 50,000 hrs type, 0.5 watts Osram LED's assembled on aluminium PCB of size 700mm X 20mm X 2mm and having 11 LED's per PCB for boards. (make- Poshdecor) At one end single non-reversible jack to be provided for easy replacement of LED without tools at site.	10.00	Each		950.00	9500.00	800.00	8000.00	1200.00	12000.00	699.00	6990.00	6990.00	Yash Energy Pvt Ltd
36.00	Supply of loop wire with non-reversible male jack of length 1 Mtr each for LED strips.	4.00	Each		400.00	1600.00	600.00	2400.00	400.00	1600.00	466.00	1864.00	1600.00	Techno Electricals, Manish Electricals
37.00	1000 W Halogen Lamp for High mast	5.00	Each		500.00	2500.00	200.00	1000.00	90.00	450.00	466.00	2330.00	450.00	Manish Electricals
38.00	Supply of 12 V, 180 Ah SMF lead acid batteries for DG Set	2.00	Each		15250.00	30500.00	15000.00	30000.00	16000.00	32000.00	16307.00	32614.00	30000.00	CENTRE TAP ENGINEERI NG

Intender
Dr. Ex (ED)



Sl.No	Description of Work / Item(s)	No. of Qty	Units	Estimated Rate	Techno Electricals (GSTN- 24AAAGFT9086M1ZG)		CENTRE TAP ENGINEERING (GSTN- 24AGPPPP8172K1ZP)		Manish Electricals (GSTN- 22ABLP0012E1ZY)		Yash Energy Pvt. Ltd (GSTN- 24AAAC0Y3771H1ZA)		L1 Amount	L1 Vendor
					Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount		
39.00	Supply of PAPI calibration stick holder/bracket with cover all as reqd. (as per sample)	2.00	Each		1250.00	2500.00	650.00	1300.00	500.00	1000.00	11648.00	23296.00	1000.00	Manish Electricals
40.00	Supply of halogen lamp holder suitable for AMA make PAPI unit complete with insulated leads etc. as reqd. (as per sample)	9.00	Each		560.00	5040.00	450.00	4050.00	450.00	4050.00	460.00	4140.00	4050.00	CENTRE TAP ENGINEERING NG, Manish Electricals
41.00	Supply of following Plug in type relays suitable for 20/4 KW CCR													
41.10	24 VDC	2.00	Each		400.00	800.00	600.00	1200.00	350.00	700.00	1013.00	2026.00	700.00	Manish Electricals
41.20	48 VDC suitable for 11 pin socket	2.00	Each		400.00	800.00	100.00	200.00	400.00	800.00	1165.00	2330.00	200.00	CENTRE TAP ENGINEERING NG
41.30	240 VAC	2.00	Each		400.00	800.00	850.00	1700.00	350.00	700.00	1281.00	2562.00	700.00	Manish Electricals
42.00	Supply of T1 300 Trip indication fuses for 20/4 KW CCR.	2.00	Each		750.00	1500.00	900.00	1800.00	600.00	1200.00	1456.00	2912.00	1200.00	Manish Electricals
43.00	Supply of following High speed Semi-conductor Protection Fuses :													
43.10	GS 1000/100 (Suitable for 20 KW CCR)	2.00	Each		750.00	1500.00	1200.00	2400.00	900.00	1800.00	1864.00	3728.00	1500.00	Techno Electricals
43.20	GSB 50 (Suitable for 4 KW)	2.00	Each		750.00	1500.00	1000.00	2000.00	900.00	1800.00	1572.00	3144.00	1500.00	Techno Electricals
44.00	Supply of following HRC Fuse Link :													
44.10	100 Amps (2 Nos each for 20 KW CCR)	2.00	Each		700.00	1400.00	1000.00	2000.00	600.00	1200.00	1572.00	3144.00	1200.00	Manish Electricals
44.20	32 Amps (Suitable for 20 KW & 4 KW CCR)	2.00	Each		700.00	1400.00	900.00	1800.00	300.00	600.00	1281.00	2562.00	600.00	Manish Electricals
45.00	Power Transistors MJ11016 suitable for all rating of CCRs.	2.00	Each		500.00	1000.00	850.00	1700.00	1200.00	2400.00	1107.00	2214.00	1000.00	Techno Electricals
Total in Figures						1968787.00		2016080.00		2109232.00		2406736.00		

Lowest Amount Quoted BY: Techno Electricals (1968787.00)



Signature
S. R. (EE)