

Justification Statement

Name of work: ARMO 21-22 SH: Operation and Maintenance contract for all Electrical and Mechanical installations related to Colony and Cargo areas at Mangaluru International Airport.

S.No	Description	Qty	Unit	Rate without GST	Amount without GST
SH:I Operation & Maintenance					
1	Operation & Maintenance contract of all E&M Installations of Colony and cargo areas which involves maintenance, attending to complaint/fault/breakdowns, carrying out minor repairs and taking rectification action ensuring serviceability/ satisfactory working condition of the system, carrying out preventive maintenance, maintenance of records and documentation etc. on all days including sundays & holidays. The work shall be carried out as per General & Special conditions of the contract and instructions issued time to time by engineer-in-charge.	24	Months	136298.00	3271152.00
2	Providing unskilled workers for temprary nature of work/works unsusceptible to measure as and when required including necessary T&P works like (shifting of store items/office, verification of annual stock, shifting of material / ladders and other similar type of works) as directed by EIC.	100	Labour	626.00	62600.00
Total of SH:I					3333752.00
SH:II General work					
3	Lifting & lowering of different size submersible pump including pipe line, cable, dismantling the defective motor pump set and installing the new repaired motor & pump set, arranging T & P and consumables as and when required basis. (charges for repairing or rectification of pump/motor need not be included)	2	Job	7500.00	15000.00
4	Rewinding of 3phase, 415 V, 50HZ submersible pump motors of upto 7.5 HP with suitable size super enameled electrical grade copper wire and insulation including transportation from site to workshop and back as and when required basis. (Credit for burnt copper winding wire shall be considered while quating)	2	Job	7500.00	15000.00
5	Rewinding of 3phase, 415 V, 50HZ monoblock pump motors of upto 7.5 HP with suitable size super enameled electrical grade copper wire and insulation including transportation from site to workshop and back as and when required basis. (Credit for burnt copper winding wire shall be considered while quating)	2	Job	7500.00	15000.00
6	Supply & Replacement of faulty bearings of the ceiling/wall mounted/exhaust/cabin fan, overhauling etc complete as and when required basis	60	Each	200.00	12000.00
7	Rewinding of ceiling fan of all sizes as and when required basis. (Credit for burnt copper winding wire shall be considered while quating)	30	Each	750.00	22500.00

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Amle-6/18/10/21

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S.No	Description	Qty	Unit	Rate without GST	Amount without GST
8	Rewinding of exhaust fan of 300mm sizes as and when required basis. (Credit for burnt copper winding wire shall be considered while quoting)	10	Nos	800.00	8000.00
9	Carrying out dehydration / filtration of Transformer oil till the required BDV value is reached including conducting acidity test from recognised agency/institution and submission of reports of the above test and topping up of available Transformer oil etc as required 250 KVA, 11000/440V indoor Transformer with oil capacity of 300 ltrs.				
	First Year	1	Job	7000.00	7000.00
	Second Year	1	Job	7700.00	7700.00
10	Supply of transformer oil of the required grade as used in present transformer as and when required.	20	Litre	130.00	2600.00
11	Supply of silica gel crystals for use in transformer breather as and when required	1	Kg	450.00	450.00
	Total of SH II				105250.00
	SH III - Supply of Spares as and when required				
1	Supply of ISI marked 6 Amps piano type One Way switch suitable to operate in 230V, 50Hz single phase AC supply complete as required as per list of approved makes.	100	Each	15.00	1500.00
2	Supply of ISI marked 6 Amps 3 pin piano type socket outlet suitable to operate in 230V, 50Hz single phase AC supply complete as required as per list of approved makes.	40	Each	33.00	1320.00
3	Supply of ISI marked 6 Amps, 3 Pin Plug Top suitable to operate in 230V, 50Hz single phase AC supply complete as required as per list of approved makes.	20	Each	58.00	1160.00
4	Supply of ISI marked 6 Amps Piano type Two Way switch suitable to operate in 230V 50 Hz single phase AC supply complete as required as per list of approved makes.	10	Each	28.00	280.00
5	Supply of ISI marked 6 Amps bell switch suitable to operate in 230V, 50Hz single phase AC supply complete as required as per list of approved makes.	10	Each	28.00	280.00
6	Supply of piano type, rotary step type 100W fan regulator (1 module) suitable to operate in 230V, 50Hz single phase AC supply complete as required as per list of approved makes.	50	Each	183.00	9150.00
7	Supply of piano type, rotary step type 100W Fan regulator (2 module) suitable to operate in 230V, 50Hz single phase AC supply complete as required as per list of approved makes.	50	Each	207.00	10350.00

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S.No	Description	Qty	Unit	Rate without GST	Amount without GST
8	Supply of ISI marked 15/20 Amps Piano type One Way switch with two fixing holes suitable to operate in 230V, 50Hz single phase AC supply complete as required as per list of approved makes.	20	Each	75.00	1500.00
9	Supply of ISI marked 15 Amps, 3 pin Plug Top suitable to operate in 230V, 50Hz single phase AC supply complete as required as per list of approved makes.	10	Each	78.00	780.00
10	Supply of ISI marked single pole MCB, C series, 6 Amps, 230V, breaking capacity of 10kA suitable to operate in 230V, 50Hz single phase AC supply complete as required as per list of approved makes.	15	Each	182.00	2730.00
11	Supply of ISI marked single pole MCB, C series, 20 Amps, 230V, breaking capacity of 10kA suitable to operate in 230V, 50Hz single phase AC supply complete as required as per list of approved makes.	20	Each	182.00	3640.00
12	Supply of ISI marked double pole MCB, C series, 25 Amps, 230/415V, breaking capacity of 10kA suitable to operate in 230V, 50Hz single phase AC supply complete as required as per list of approved makes.	10	Each	581.00	5810.00
13	Supply of ISI marked four pole MCB, C series, 40 Amps, 415V, breaking capacity of 10kA suitable to operate in 230V, 50Hz single phase AC supply complete as required as per list of approved makes.	4	Each	1718.00	6872.00
14	Supply of ISI marked 1.5 Sqmm PVC insulated single core unsheathed industrial, multistrand bare copper conductor FRLSH flexible cables of 1.1 KV grade confirming to IS 694 amendments upto date complete as required as per list of approved makes - Red colour	90	Metres	23.00	2070.00
15	Supply of ISI marked 1.5 Sqmm PVC insulated single core unsheathed industrial, multistrand bare copper conductor FRLSH flexible cables of 1.1 KV grade confirming to IS 694 amendments upto date complete as required as per list of approved makes - Yellow colour	90	Metres	23.00	2070.00
16	Supply of ISI marked 1.5 Sqmm PVC insulated single core unsheathed industrial multistrand bare copper conductor FRLSH flexible cables of 1.1 KV grade confirming to IS 694 amendments upto date complete as required as per list of approved makes - Blue colour	90	Metres	23.00	2070.00
17	Supply of ISI marked 1.5 Sqmm PVC insulated single core unsheathed industrial multistrand bare copper conductor FRLSH flexible cables of 1.1 KV grade confirming to IS 694 amendments upto date complete as required as per list of approved makes - Black colour	90	Metres	23.00	2070.00
18	Supply of ISI marked 2.5 Sqmm PVC insulated single core unsheathed industrial multistrand bare copper conductor FRLSH flexible cables of 1.1 KV grade confirming to IS 694 amendments upto date complete as required as per list of approved makes - Red colour	90	Metres	36.00	3240.00

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S.No	Description	Qty	Unit	Rate without GST	Amount without GST
19	Supply of ISI marked 2.5 Sqmm PVC insulated single core unsheathed industrial multistrand bare copper conductor FRLSH flexible cables of 1.1 KV grade confirming to IS 694 amendments upto date complete as required as per list of approved makes - Yellow colour	90	Metres	36.00	3240.00
20	Supply of ISI marked 2.5 Sqmm PVC insulated single core unsheathed industrial multistrand bare copper conductor FRLSH flexible cables of 1.1 KV grade confirming to IS 694 amendments upto date complete as required as per list of approved makes - Blue colour	90	Metres	36.00	3240.00
21	Supply of ISI marked 2.5 Sqmm PVC insulated single core unsheathed industrial, multistrand bare copper conductor FRLSH flexible cables of 1.1 KV grade confirming to IS 694 amendments upto date complete as required as per list of approved makes - Black colour	90	Metres	36.00	3240.00
22	Supply of ISI marked 4 Sqmm PVC insulated single core unsheathed industrial, multistrand bare copper conductor FRLSH flexible cables of 1.1 KV grade confirming to IS 694 amendments upto date complete as required as per list of approved makes - Red colour	90	Metres	55.00	4950.00
23	Supply of ISI marked 4 Sqmm PVC insulated single core unsheathed industrial, multistrand bare copper conductor FRLSH flexible cables of 1.1 KV grade confirming to IS 694 amendments upto date complete as required as per list of approved makes - Yellow colour	90	Metres	55.00	4950.00
24	Supply of ISI marked 4 Sqmm PVC insulated single core unsheathed industrial, multistrand bare copper conductor FRLSH flexible cables of 1.1 KV grade confirming to IS 694 amendments upto date complete as required as per list of approved makes - Blue colour	90	Metres	55.00	4950.00
25	Supply of ISI marked 4 Sqmm PVC insulated single core unsheathed industrial, multistrand bare copper conductor FRLSH flexible cables of 1.1 KV grade confirming to IS 694 amendments upto date complete as required as per list of approved makes - Black colour	90	Metres	55.00	4950.00
26	Supply of 14W-CDL (cool day light) LED bulb with B-22 base suitable to operate in 230V, 50Hz single phase AC supply complete as required as per list of approved makes.	20	Each	264.00	5280.00
27	Supply of 4 feet 20W LED tubelight suitable to retrofit for existing T8 FTL lamps (Make: Philips, Model No: Stellar Bright TLED or equivalent) suitable to operate in 230V, 50Hz single phase AC supply complete as required as per list of approved makes.	50	Each	266.00	13300.00
28	Supply of Angle Holder 6A, with metal ring, white/ivory colour suitable to operate in 230V, 50Hz single phase AC supply complete as required as per list of approved makes.	10	Each	30.00	300.00

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S.No	Description	Qty	Unit	Rate without GST	Amount without GST
29	Supply of 2.5 Micro Farad Capacitor for use with ceiling fans suitable to operate in 230V, 50Hz single phase AC supply complete as required as per list of approved makes.	50	Each	29.00	1450.00
30	Supply of Ding Dong type Door call bell suitable to operate in 230V, 50Hz single phase AC supply complete as required as per list of approved makes.	10	Each	159.00	1590.00
31	Supply of 3 phase, 7.5HP, 415 V, 50 Hz, DOL Starter with start-stop button in sheet steel enclosure, relay range of 9-14/15A with all accessories confirming to relevant standard etc complete as required.	2	Each	1747.00	3494.00
32	Supply of G13 Lamp Holder for T8 Tube light fixture suitable to operate in 230V, 50Hz single phase AC supply complete as required as per list of approved makes.	10	Each	40.00	400.00
33	Supply of Add-On auxillary contact block front mounting (1NO+1NC) suitable for L&T make MNX single phase power contactors confirms relavent IS (Make: L&T, Type: MNX A2) or equivalent as per list of approved makes.	5	Each	289.00	1445.00
34	Supply of 3 pole power contactor confirms relevent IS (Make: L&T, Type: MNX 18) or equivalent as per list of approved makes.	2	Each	908.00	1816.00
35	Supply of 3 pole power contactor confirms relevent IS (Make: L&T, Type: MNX 32) or equivalent as per list of approved makes.	2	Each	2426.00	4852.00
36	Supply of Red coloured LED type Indication Lamp suitable to operate with 240V AC/24V DC for panels as required as per list of approved makes.	20	Each	95.00	1900.00
37	Supply of Yellow coloured LED Indication Lamp suitable to operate with 240V AC/24V DC for panels as required as per list of approved makes.	20	Each	95.00	1900.00
38	Supply of Blue coloured LED Indication Lamp suitable to operate with 240V AC/24V DC for panels as required as per list of approved makes.	20	Each	163.00	3260.00
39	Supply of Green coloured LED Indication Lamp suitable to operate with 240V AC/24V DC for Panels as required as per list of approved makes.	20	Each	95.00	1900.00

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S.No	Description	Qty	Unit	Rate without GST	Amount without GST
40	Supply of ISI marked 1 KVAR, 3 phase, 440V, 50Hz Square type heavy duty NPCB impregnated capacitor (Make: EPCOS, Model: ENDC - B32457L5001A011) or equivalent as per list of approved makes.	1	Each	402.00	402.00
41	Supply of ISI marked 2 KVAR, 3 phase, 440V, 50Hz Square type heavy duty NPCB impregnated capacitor (Make: EPCOS, Model: ENDC - B32457L5002A011) or equivalent as per list of approved makes.	1	Each	805.00	805.00
42	Supply of ISI marked 3 KVAR, 3 phase, 440V, 50Hz Square type heavy duty NPCB impregnated capacitor (Make: MEHER, Model: MPP-D, Cat.No. 26D3030B1) or equivalent as per list of approved makes.	1	Each	1207.00	1207.00
43	Supply of ISI marked 4 KVAR, 3 phase, 440V, 50Hz Square type heavy duty NPCB impregnated capacitor (Make: MEHER, Model: MPP-D, Cat.No. 26D3040B1) or equivalent as per list of approved makes.	1	Each	1610.00	1610.00
44	Supply of ISI marked 5 KVAR, 3 phase, 440V, 50Hz Square type heavy duty NPCB impregnated capacitor (Make: EPCOS, Model: ENDC - B32457L5005A011) or equivalent as per list of approved makes.	1	Each	1707.00	1707.00
45	Supply of automatic transfer switch (ATS) for rated ampere 125A, upto 440V, 50Hz, four pole, with enclosure comply with IS/IEC:60947-6-1 suitable for automatic and manual operation for replacement of existing automatic transfer switch (Make: Havells, Cat. No.: IHYFCDE125) as required as per list of approved makes. (Replacement of existing automatic transfer switch).	1	Each	42018.00	42018.00
46	Supply of 8 steps automatic power factor controller of dimension 144x144x100 with single CT sensing, suitable to operate at 415V, 50Hz (Make: L&T, Model: Reactive Power Manager (RPM-8)) or equivalent as required as per list of approved makes.	1	Each	10266.00	10266.00
47	Supply of LCD type energy meter flush mounting accuracy class 1 having dimensions 96x96mm, CT/PT site programmable suitable to operate with 3 phase AC supply suitable for panels (Make: L&T, Model: 400 series, Cat: WC4000100000) or equivalent as per list of approved makes.	2	Each	2318.00	4636.00
48	Supply of Ring type Current Transformer (CT) made of cast resin, having ratio 400/5 A, burden 15VA, accuracy class 1 suitable work at 440V, 50Hz as required.	3	Each	395.00	1185.00
49	Supply of single phase electronic energy meter in polycarbonate body with LCD type display in accuracy class 1.0 of rating 5-30A, 240V, 50Hz, only kWh compact meter with meter box with sealing screw provision complete as required suitable for residential use (Make L&T, Cat. no. WM101BC5DL0BOX) or equivalent as per list of approved makes.	5	Each	1278.00	6390.00

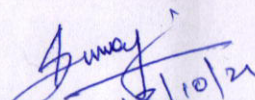
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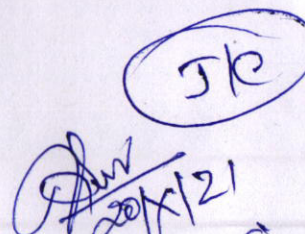
S.No	Description	Qty	Unit	Rate without GST	Amount without GST
50	Supply of three phase electronic energy meter in polycarbonate body with LCD type display in accuracy class 1.0 of rating 10-60A, 3x240V, 50Hz with transparent box complete as required suitable for residential use (Make L&T, Cat. no. WR301BC7D10) or equivalent as per list of approved makes.	2	Each	3886.00	7772.00
51	Supply of ISI marked RCCB double pole, 40 Amps, 230 Volts, 30mA sensitivity, breaking capacity of 10kA as per list of approved makes.	20	Each	2191.00	43820.00
	Total of SH III				251117.00
	Total of SH I + SH II + SH III				3690119.00
	(Rupees Thirty Six Lakhs Ninety Thousand One Hundred and Nineteen Only)				
	GST will be paid as per actual at the time of submission of invoice				

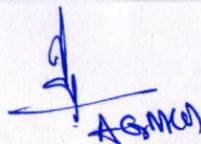
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Asst. Manager (Engg-E)
Managaluru International Airport


18/10/21
Manager (Engg-E)
Managaluru International Airport


18/10/21
Asst. Gen. Manager (Engg-E)
Managaluru International Airport


25/10/21
Asst. Manager (Engg-E)


20/10/21
Asst. Manager (Engg-E)


Asst. Manager (Engg-E)

Tender Inviting Authority:Asst. Gen. Manager(Engg-E), AAI Mangaluru International Airport.

Name of Work: ARMO 21-22 SH: Operation and Maintenance contract for all Electrical and Mechanical installations related to Colony and Cargo areas at Mangaluru International Airport.

Tender ID: 2021_AAI_85003_1

SCHEDULE OF WORK / ITEM(S)																								
Sl.No	Description of Work / Item(s)	No.of Qty	Units	Estimat ed Rate	Sri Skanda Consultancy(GSTN-29AFCPK1991H1Z9)		LAKSHMI ELECTRICAL ENTERPRISES(GSTN-33AACFL6352N1Z4)		Manish Electricals(GSTN-22ABLPM9012E1ZY)		Bharat Electrical And Instrumentation(GSTN-29AABPF4977E1ZN)		BANESHWAR ELECTRICAL AND ELECTRONICS A. S. SANSTHA , AURANGABAD(GSTN-27AAIAB1544C1Z0)		S S ELECTRICALS(GSTN-29ASDPS9111M1Z6)		POWER WAY SOLUTIONS(GSTN-NA)		Raaj Power solutions and Facilities(GSTN-NA)		ABHISHEK INTEGRATIONS LIMITED(GSTN-NA)			
					Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount	L1 Amount	L1 Vendor
1.00	Operation & Maintenance contract of all E&M Installations of Colony and cargo areas which involves maintenance, attending to complaint/fault/breakdowns, carrying out minor repairs and taking rectification action ensuring serviceability/ satisfactory working condition of the system, carrying out preventive maintenance, maintenance of records and documentation etc. on all days including sundays & holidays. The work shall be carried out as per General & Special conditions of the contract and instructions issued time to time by engineer-in-charge.	24.00	Months	0.00	120000.00	2880000.00	141000.00	3384000.00	128578.00	3085872.00	138000.00	3312000.00	122340.00	2936160.00	108000.00	2592000.00	199999.00	4799976.00	120000.00	2880000.00	123483.00	2963592.00	2592000.00	S S ELECTRICALS
2.00	Providing unskilled workers for temporary nature of work/works unsusceptible to measure as and when required including necessary T&P works like (shifting of store items/office, verification of annual stock, shifting of material / ladders and other similar type of works) as directed by EIC.	100.00	Labour	0.00	625.00	62500.00	570.00	57000.00	600.00	60000.00	800.00	80000.00	539.00	53900.00	1500.00	150000.00	500.00	50000.00	605.00	60500.00	577.00	57700.00	50000.00	POWER WAY SOLUTIONS
3.00	Lifting & lowering of different size submersible pump including pipe line, cable, dismantling the defective motor pump set and installing the new repaired motor & pump set, arranging T & P and consumables as and when required basis. (charges for repairing or rectification of pump/motor need not be included)	2.00	Job	0.00	6500.00	13000.00	4500.00	9000.00	7000.00	14000.00	7600.00	15200.00	9500.00	19000.00	10000.00	20000.00	6500.00	13000.00	6500.00	13000.00	4500.00	9000.00	9000.00	LAKSHMI ELECTRICAL ENTERPRISES, ABHISHEK INTEGRATIONS LIMITED
4.00	Rewinding of 3phase, 415 V, 50HZ submersible pump motors of upto 7.5 HP with suitable size super enameled electrical grade copper wire and insulation including transportation from site to workshop and back as and when required basis. (Credit for burnt copper winding wire shall be considered while quoting)	2.00	Job	0.00	6500.00	13000.00	7500.00	15000.00	3500.00	7000.00	7800.00	15600.00	4700.00	9400.00	10000.00	20000.00	7500.00	15000.00	6450.00	12900.00	6000.00	12000.00	7000.00	Manish Electricals
5.00	Rewinding of 3phase, 415 V, 50HZ monoblock pump motors of upto 7.5 HP with suitable size super enameled electrical grade copper wire and insulation including transportation from site to workshop and back as and when required basis. (Credit for burnt copper winding wire shall be considered while quoting)	2.00	Job	0.00	6500.00	13000.00	7500.00	15000.00	6500.00	13000.00	7000.00	14000.00	3700.00	7400.00	12000.00	24000.00	6500.00	13000.00	6450.00	12900.00	6000.00	12000.00	7400.00	BANESHWAR ELECTRICAL AND ELECTRONICS A. S. SANSTHA , AURANGABAD
6.00	Supply & Replacement of faulty bearings of the ceiling/wall mounted/exhaust/cabin fan, overhauling etc complete as and when required basis	60.00	Each	0.00	150.00	9000.00	150.00	9000.00	150.00	9000.00	400.00	24000.00	150.00	9000.00	650.00	39000.00	450.00	27000.00	160.00	9600.00	80.00	4800.00	4800.00	ABHISHEK INTEGRATIONS LIMITED
7.00	Rewinding of ceiling fan of all sizes as and when required basis. (Credit for burnt copper winding wire shall be considered while quoting)	30.00	Each	0.00	500.00	15000.00	650.00	19500.00	400.00	12000.00	800.00	24000.00	250.00	7500.00	1000.00	30000.00	800.00	24000.00	520.00	15600.00	300.00	9000.00	7500.00	BANESHWAR ELECTRICAL AND ELECTRONICS A. S. SANSTHA , AURANGABAD

Sl.No	Description of Work / Item(s)	No.of Qty	Units	Estimat ed Rate	Sri Skanda Consultancy(GSTN- 29AFCPK1991H1Z9)	LAKSHMI ELECTRICAL ENTERPRISES(GSTN- 33AACFL6352N1Z4)	Manish Electricals(GSTN- 22ABLPm9012E1ZY)	Bharat Electrical And Instrumentation(GSTN- 29AABPF4977E1ZN)	BANESHWAR ELECTRICAL AND ELECTRONICS A. S. SANSTHA , AURANGABAD(GSTN- 27AAAJAR4544C4Z0)	S S ELECTRICALS(GSTN- 29ASDPS9111M1Z6)	POWER WAY SOLUTIONS(GSTN-NA)	Raaj Power solutions and Facilities(GSTN-NA)	ABHISHEK INTEGRATIONS LIMITED(GSTN-NA)											
					Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount	L1 Amount	L1 Vendor		
8.00	Rewinding of exhaust fan of 300mm sizes as and when required basis. (Credit for burnt copper winding wire shall be considered while quoting)	10.00	Nos	0.00	700.00	7000.00	650.00	6500.00	300.00	3000.00	800.00	8000.00	650.00	6500.00	1200.00	12000.00	750.00	7500.00	710.00	7100.00	350.00	3500.00	3000.00	Manish Electricals
9.10	Carrying out dehydration / filtration of Transformer oil till the required BDV value is reached including conducting acidity test from recognized agency/institution and submission of reports of the above test and topping up of available Transformer oil etc as required 250 KVA, 11000/440V indoor Transformer with oil capacity of 300 ltrs. First Year	1.00	Job	0.00	7000.00	7000.00	12000.00	12000.00	5000.00	5000.00	5000.00	5000.00	2500.00	2500.00	28000.00	28000.00	500.00	500.00	6950.00	6950.00	5000.00	5000.00	500.00	POWER WAY SOLUTIONS
9.20	Carrying out dehydration / filtration of Transformer oil till the required BDV value is reached including conducting acidity test from recognized agency/institution and submission of reports of the above test and topping up of available Transformer oil etc as required 250 KVA, 11000/440V indoor Transformer with oil capacity of 300 ltrs. Second Year	1.00	Job	0.00	7500.00	7500.00	13000.00	13000.00	5000.00	5000.00	5000.00	5000.00	3000.00	3000.00	35000.00	35000.00	4000.00	4000.00	7400.00	7400.00	5000.00	5000.00	3000.00	BANESHWAR ELECTRICAL AND ELECTRONICS A. S. SANSTHA , AURANGABAD
10.00	Supply of transformer oil of the required grade as used in present transformer as and when required.	20.00	Litre	0.00	120.00	2400.00	150.00	3000.00	210.00	4200.00	180.00	3600.00	150.00	3000.00	500.00	10000.00	200.00	4000.00	125.00	2500.00	130.00	2600.00	2400.00	Sri Skanda Consultancy
11.00	Supply of silica gel crystals for use in transformer breather as and when required	1.00	Kg	0.00	400.00	400.00	400.00	400.00	600.00	600.00	300.00	300.00	350.00	350.00	1500.00	1500.00	1260.00	1260.00	425.00	425.00	350.00	350.00	300.00	Bharat Electrical And Instrumentation
12.00	Supply of ISI marked 6 Amps piano type One Way switch suitable to operate in 230V, 50Hz single phase AC supply complete as required as per list of approved makes.	100.00	Each	0.00	18.00	1800.00	20.00	2000.00	20.00	2000.00	60.00	6000.00	12.00	1200.00	50.00	5000.00	25.00	2500.00	17.00	1700.00	13.00	1300.00	1200.00	BANESHWAR ELECTRICAL AND ELECTRONICS A. S. SANSTHA , AURANGABAD
13.00	Supply of ISI marked 6 Amps 3 pin piano type socket outlet suitable to operate in 230V, 50Hz single phase AC supply complete as required as per list of approved makes.	40.00	Each	0.00	30.00	1200.00	50.00	2000.00	30.00	1200.00	75.00	3000.00	21.00	840.00	55.00	2200.00	33.75	1350.00	30.50	1220.00	24.00	960.00	840.00	BANESHWAR ELECTRICAL AND ELECTRONICS A. S. SANSTHA , AURANGABAD
14.00	Supply of ISI marked 6 Amps, 3 Pin Plug Top suitable to operate in 230V, 50Hz single phase AC supply complete as required as per list of approved makes.	20.00	Each	0.00	60.00	1200.00	40.00	800.00	30.00	600.00	100.00	2000.00	37.00	740.00	60.00	1200.00	50.00	1000.00	59.50	1190.00	42.00	840.00	600.00	Manish Electricals
15.00	Supply of ISI marked 6 Amps Piano type Two Way switch suitable to operate in 230V 50 Hz single phase AC supply complete as required as per list of approved makes.	10.00	Each	0.00	30.00	300.00	25.00	250.00	30.00	300.00	75.00	750.00	22.00	220.00	65.00	650.00	26.25	262.50	29.00	290.00	23.00	230.00	220.00	BANESHWAR ELECTRICAL AND ELECTRONICS A. S. SANSTHA , AURANGABAD
16.00	Supply of ISI marked 6 Amps bell switch suitable to operate in 230V, 50Hz single phase AC supply complete as required as per list of approved makes.	10.00	Each	0.00	25.00	250.00	30.00	300.00	30.00	300.00	75.00	750.00	25.00	250.00	65.00	650.00	27.50	275.00	24.00	240.00	23.00	230.00	230.00	ABHISHEK INTEGRATIONS LIMITED
17.00	Supply of piano type, rotary step type 100W fan regulator (1 module) suitable to operate in 230V, 50Hz single phase AC supply complete as required as per list of approved makes.	50.00	Each	0.00	170.00	8500.00	190.00	9500.00	150.00	7500.00	750.00	37500.00	131.00	6550.00	500.00	25000.00	181.25	9062.50	171.00	8550.00	166.00	8300.00	6550.00	BANESHWAR ELECTRICAL AND ELECTRONICS A. S. SANSTHA , AURANGABAD
18.00	Supply of piano type, rotary step type 100W Fan regulator (2 module) suitable to operate in 230V, 50Hz single phase AC supply complete as required as per list of approved makes.	50.00	Each	0.00	200.00	10000.00	210.00	10500.00	150.00	7500.00	225.00	11250.00	157.00	7850.00	700.00	35000.00	203.75	10187.50	201.00	10050.00	187.00	9350.00	7500.00	Manish Electricals

Sl.No	Description of Work / Item(s)	No.of Qty	Units	Estimat ed Rate	Sri Skanda Consultancy(GSTN- 29AFCPK1991H1Z9)	LAKSHMI ELECTRICAL ENTERPRISES(GSTN- 33AACFL6352N1Z4)	Manish Electricals(GSTN- 22ABLPM9012E1ZY)	Bharat Electrical And Instrumentation(GSTN- 29AABPF4977E1ZN)	BANESHWAR ELECTRICAL AND ELECTRONICS A. S. SANSTHA , AURANGABAD(GSTN- 27AAJAB4544C4Z0)	S S ELECTRICALS(GSTN- 29ASDPS9111M1Z6)	POWER WAY SOLUTIONS(GSTN-NA)	Raaj Power solutions and Facilities(GSTN-NA)	ABHISHEK INTEGRATIONS LIMITED(GSTN-NA)											
					Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount	L1 Amount	L1 Vendor		
19.00	Supply of ISI marked 15/20 Amps Piano type One Way switch with two fixing holes suitable to operate in 230V, 50Hz single phase AC supply complete as required as per list of approved makes.	20.00	Each	0.00	70.00	1400.00	90.00	1800.00	50.00	1000.00	140.00	2800.00	61.00	1220.00	60.00	1200.00	70.00	1400.00	70.50	1410.00	63.00	1260.00	1000.00	Manish Electricals
20.00	Supply of ISI marked 15 Amps, 3 pin Plug Top suitable to operate in 230V, 50Hz single phase AC supply complete as required as per list of approved makes.	10.00	Each	0.00	70.00	700.00	85.00	850.00	40.00	400.00	180.00	1800.00	52.50	525.00	80.00	800.00	62.50	625.00	70.50	705.00	89.00	890.00	400.00	Manish Electricals
21.00	Supply of ISI marked single pole MCB, C series, 6 Amps, 230V, breaking capacity of 10kA suitable to operate in 230V, 50Hz single phase AC supply complete as required as per list of approved makes.	15.00	Each	0.00	180.00	2700.00	140.00	2100.00	160.00	2400.00	125.00	1875.00	96.00	1440.00	280.00	4200.00	168.75	2531.25	182.00	2730.00	112.00	1680.00	1440.00	BANESHWAR ELECTRICAL AND ELECTRONICS A. S. SANSTHA , AURANGABAD
22.00	Supply of ISI marked single pole MCB, C series, 20 Amps, 230V, breaking capacity of 10kA suitable to operate in 230V, 50Hz single phase AC supply complete as required as per list of approved makes.	20.00	Each	0.00	180.00	3600.00	140.00	2800.00	210.00	4200.00	250.00	5000.00	96.00	1920.00	450.00	9000.00	168.75	3375.00	182.00	3640.00	112.00	2240.00	1920.00	BANESHWAR ELECTRICAL AND ELECTRONICS A. S. SANSTHA , AURANGABAD
23.00	Supply of ISI marked double pole MCB, C series, 25 Amps, 230/415V, breaking capacity of 10kA suitable to operate in 230V, 50Hz single phase AC supply complete as required as per list of approved makes.	10.00	Each	0.00	550.00	5500.00	425.00	4250.00	210.00	2100.00	230.00	2300.00	380.00	3800.00	500.00	5000.00	495.00	4950.00	545.00	5450.00	400.00	4000.00	2100.00	Manish Electricals
24.00	Supply of ISI marked four pole MCB, C series, 40 Amps, 415V, breaking capacity of 10kA suitable to operate in 230V, 50Hz single phase AC supply complete as required as per list of approved makes.	4.00	Each	0.00	1500.00	6000.00	660.00	2640.00	1015.00	4060.00	350.00	1400.00	1081.50	4326.00	550.00	2200.00	1562.50	6250.00	1450.00	5800.00	1207.00	4828.00	1400.00	Bharat Electrical And Instrumentation
25.00	Supply of ISI marked 1.5 Sqmm PVC insulated single core unsheathed industrial, multistrand bare copper conductor FRLSH flexible cables of 1.1 KV grade confirming to IS 694 amendments upto date complete as required as per list of approved makes - Red colour	90.00	Metres	0.00	20.00	1800.00	18.50	1665.00	15.00	1350.00	15.00	1350.00	17.00	1530.00	60.00	5400.00	18.35	1651.50	21.00	1890.00	20.00	1800.00	1350.00	Manish Electricals, Bharat Electrical And Instrumentation
26.00	Supply of ISI marked 1.5 Sqmm PVC insulated single core unsheathed industrial, multistrand bare copper conductor FRLSH flexible cables of 1.1 KV grade confirming to IS 694 amendments upto date complete as required as per list of approved makes - Yellow colour	90.00	Metres	0.00	20.00	1800.00	18.50	1665.00	15.00	1350.00	15.00	1350.00	17.00	1530.00	60.00	5400.00	18.35	1651.50	21.00	1890.00	20.00	1800.00	1350.00	Manish Electricals, Bharat Electrical And Instrumentation
27.00	Supply of ISI marked 1.5 Sqmm PVC insulated single core unsheathed industrial multistrand bare copper conductor FRLSH flexible cables of 1.1 KV grade confirming to IS 694 amendments upto date complete as required as per list of approved makes - Blue colour	90.00	Metres	0.00	20.00	1800.00	18.50	1665.00	15.00	1350.00	15.00	1350.00	17.00	1530.00	60.00	5400.00	18.35	1651.50	21.00	1890.00	20.00	1800.00	1350.00	Manish Electricals, Bharat Electrical And Instrumentation
28.00	Supply of ISI marked 1.5 Sqmm PVC insulated single core unsheathed industrial multistrand bare copper conductor FRLSH flexible cables of 1.1 KV grade confirming to IS 694 amendments upto date complete as required as per list of approved makes - Black colour	90.00	Metres	0.00	20.00	1800.00	18.50	1665.00	15.00	1350.00	15.00	1350.00	17.00	1530.00	60.00	5400.00	18.35	1651.50	21.00	1890.00	20.00	1800.00	1350.00	Manish Electricals, Bharat Electrical And Instrumentation

Sl.No	Description of Work / Item(s)	No.of Qty	Units	Estimat ed Rate	Sri Skanda Consultancy(GSTN- 29AFCPK1991H1Z9)	LAKSHMI ELECTRICAL ENTERPRISES(GSTN- 33AACFL6352N1Z4)	Manish Electricals(GSTN- 22ABLPm9012E1ZY)	Bharat Electrical And Instrumentation(GSTN- 29AABPF4977E1ZN)	BANESHWAR ELECTRICAL AND ELECTRONICS A. S. SANSTHA , AURANGABAD(GSTN- 27AAJAB4544C4Z0)	S S ELECTRICALS(GSTN- 29ASDPS9111M1Z6)	POWER WAY SOLUTIONS(GSTN-NA)	Raaj Power solutions and Facilities(GSTN-NA)	ABHISHEK INTEGRATIONS LIMITED(GSTN-NA)											
					Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount	L1 Amount	L1 Vendor		
29.00	Supply of ISI marked 2.5 Sqmm PVC insulated single core unsheathed industrial multistrand bare copper conductor FRLSH flexible cables of 1.1 KV grade confirming to IS 694 amendments upto date complete as required as per list of approved makes - Red colour	90.00	Metres	0.00	30.00	2700.00	29.00	2610.00	30.00	2700.00	22.00	1980.00	25.00	2250.00	75.00	6750.00	29.64	2667.60	30.00	2700.00	31.00	2790.00	1980.00	Bharat Electrical And Instrumentation
30.00	Supply of ISI marked 2.5 Sqmm PVC insulated single core unsheathed industrial multistrand bare copper conductor FRLSH flexible cables of 1.1 KV grade confirming to IS 694 amendments upto date complete as required as per list of approved makes - Yellow colour	90.00	Metres	0.00	30.00	2700.00	29.00	2610.00	30.00	2700.00	22.00	1980.00	25.00	2250.00	100.00	9000.00	29.64	2667.60	30.00	2700.00	31.00	2790.00	1980.00	Bharat Electrical And Instrumentation
31.00	Supply of ISI marked 2.5 Sqmm PVC insulated single core unsheathed industrial multistrand bare copper conductor FRLSH flexible cables of 1.1 KV grade confirming to IS 694 amendments upto date complete as required as per list of approved makes - Blue colour	90.00	Metres	0.00	30.00	2700.00	29.00	2610.00	30.00	2700.00	22.00	1980.00	25.00	2250.00	100.00	9000.00	29.64	2667.60	30.00	2700.00	31.00	2790.00	1980.00	Bharat Electrical And Instrumentation
32.00	Supply of ISI marked 2.5 Sqmm PVC insulated single core unsheathed industrial, multistrand bare copper conductor FRLSH flexible cables of 1.1 KV grade confirming to IS 694 amendments upto date complete as required as per list of approved makes - Black colour	90.00	Metres	0.00	30.00	2700.00	29.00	2610.00	30.00	2700.00	22.00	1980.00	25.00	2250.00	100.00	9000.00	29.64	2667.60	30.00	2700.00	31.00	2790.00	1980.00	Bharat Electrical And Instrumentation
33.00	Supply of ISI marked 4 Sqmm PVC insulated single core unsheathed industrial, multistrand bare copper conductor FRLSH flexible cables of 1.1 KV grade confirming to IS 694 amendments upto date complete as required as per list of approved makes - Red colour	90.00	Metres	0.00	50.00	4500.00	43.00	3870.00	50.00	4500.00	30.00	2700.00	35.00	3150.00	100.00	9000.00	45.00	4050.00	51.00	4590.00	47.00	4230.00	2700.00	Bharat Electrical And Instrumentation
34.00	Supply of ISI marked 4 Sqmm PVC insulated single core unsheathed industrial, multistrand bare copper conductor FRLSH flexible cables of 1.1 KV grade confirming to IS 694 amendments upto date complete as required as per list of approved makes - Yellow colour	90.00	Metres	0.00	50.00	4500.00	43.00	3870.00	50.00	4500.00	30.00	2700.00	35.00	3150.00	100.00	9000.00	45.00	4050.00	51.00	4590.00	47.00	4230.00	2700.00	Bharat Electrical And Instrumentation
35.00	Supply of ISI marked 4 Sqmm PVC insulated single core unsheathed industrial, multistrand bare copper conductor FRLSH flexible cables of 1.1 KV grade confirming to IS 694 amendments upto date complete as required as per list of approved makes - Blue colour	90.00	Metres	0.00	50.00	4500.00	43.00	3870.00	50.00	4500.00	30.00	2700.00	35.00	3150.00	80.00	7200.00	45.00	4050.00	51.00	4590.00	47.00	4230.00	2700.00	Bharat Electrical And Instrumentation
36.00	Supply of ISI marked 4 Sqmm PVC insulated single core unsheathed industrial, multistrand bare copper conductor FRLSH flexible cables of 1.1 KV grade confirming to IS 694 amendments upto date complete as required as per list of approved makes - Black colour	90.00	Metres	0.00	50.00	4500.00	43.00	3870.00	50.00	4500.00	30.00	2700.00	35.00	3150.00	80.00	7200.00	45.00	4050.00	51.00	4590.00	47.00	4230.00	2700.00	Bharat Electrical And Instrumentation
37.00	Supply of 14W-CDL (cool day light) LED bulb with B-22 base suitable to operate in 230V, 50Hz single phase AC supply complete as required as per list of approved makes.	20.00	Each	0.00	200.00	4000.00	270.00	5400.00	180.00	3600.00	300.00	6000.00	185.00	3700.00	4500.00	90000.00	237.50	4750.00	190.00	3800.00	248.00	4960.00	3600.00	Manish Electricals
38.00	Supply of 4 feet 20W LED tubelight suitable to retrofit for existing T8 FTL lamps (Make: Philips, Model No: Stellar Bright TLED or equivalent) suitable to operate in 230V, 50Hz single phase AC supply complete as required as per list of approved makes	50.00	Each	0.00	200.00	10000.00	310.00	15500.00	450.00	22500.00	380.00	19000.00	301.00	15050.00	6500.00	325000.00	225.00	11250.00	195.00	9750.00	798.00	39900.00	9750.00	Raaj Power solutions and Facilities
39.00	Supply of Angle Holder 6A, with metal ring, white/ivory colour suitable to operate in 230V, 50Hz single phase AC supply complete as required as per list of approved makes.	10.00	Each	0.00	25.00	250.00	40.00	400.00	30.00	300.00	80.00	800.00	25.00	250.00	6500.00	65000.00	33.75	337.50	25.00	250.00	72.00	720.00	250.00	Sri Skanda Consultancy, Raaj Power solutions and Facilities, BANESHWAR ELECTRICAL AND ELECTRONICS A. S. SANSTHA , AURANGABAD

Sl.No	Description of Work / Item(s)	No.of Qty	Units	Estimat ed Rate	Sri Skanda Consultancy(GSTN- 29AFCPK1991H1Z9)	LAKSHMI ELECTRICAL ENTERPRISES(GSTN- 33AACFL6352N1Z4)	Manish Electricals(GSTN- 22ABLPM9012E1ZY)	Bharat Electrical And Instrumentation(GSTN- 29AABPF4977E1ZN)	BANESHWAR ELECTRICAL AND ELECTRONICS A. S. SANSTHA , AURANGABAD(GSTN- 27AAJAB24540A3B)	S S ELECTRICALS(GSTN- 29ASDPS9111M1Z6)	POWER WAY SOLUTIONS(GSTN-NA)	Raaj Power solutions and Facilities(GSTN-NA)	ABHISHEK INTEGRATIONS LIMITED(GSTN-NA)											
					Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount	L1 Amount	L1 Vendor		
40.00	Supply of 2.5 Micro Farad Capacitor for use with ceiling fans suitable to operate in 230V, 50Hz single phase AC supply complete as required as per list of approved makes.	50.00	Each	0.00	25.00	1250.00	20.00	1000.00	25.00	1250.00	200.00	10000.00	22.00	1100.00	350.00	17500.00	33.75	1687.50	25.00	1250.00	17.00	850.00	850.00	ABHISHEK INTEGRATIONS LIMITED
41.00	Supply of Ding Dong type Door call bell suitable to operate in 230V, 50Hz single phase AC supply complete as required as per list of approved makes.	10.00	Each	0.00	250.00	2500.00	260.00	2600.00	160.00	1600.00	450.00	4500.00	103.00	1030.00	300.00	3000.00	125.00	1250.00	245.00	2450.00	168.00	1680.00	1030.00	BANESHWAR ELECTRICAL AND ELECTRONICS A. S. SANSTHA , AURANGABAD
42.00	Supply of 3 phase, 7.5HP, 415 V, 50 Hz, DOL Starter with start-stop button in sheet steel enclosure, relay range of 9-14/15A with all accessories confirming to relevant standard etc complete as required.	2.00	Each	0.00	1750.00	3500.00	2750.00	5500.00	5000.00	10000.00	3000.00	6000.00	1921.00	3842.00	6500.00	13000.00	3000.00	6000.00	1750.00	3500.00	5350.00	10700.00	3500.00	Sri Skanda Consultancy, Raaj Power solutions and Facilities
43.00	Supply of G13 Lamp Holder for T8 Tube light fixture suitable to operate in 230V, 50Hz single phase AC supply complete as required as per list of approved makes.	10.00	Each	0.00	35.00	350.00	150.00	1500.00	50.00	500.00	100.00	1000.00	15.00	150.00	50.00	500.00	18.75	187.50	35.00	350.00	64.00	640.00	150.00	BANESHWAR ELECTRICAL AND ELECTRONICS A. S. SANSTHA , AURANGABAD
44.00	Supply of Add-On auxilliary contact block front mounting (1NO+1NC) suitable for L&T make MNX single phase power contactors confirms relavent IS (Make: L&T, Type: MNX A2) or equivalent as per list of approved makes.	5.00	Each	0.00	290.00	1450.00	620.00	3100.00	3000.00	15000.00	425.00	2125.00	254.00	1270.00	3500.00	17500.00	350.00	1750.00	285.00	1425.00	2093.00	10465.00	1270.00	BANESHWAR ELECTRICAL AND ELECTRONICS A. S. SANSTHA , AURANGABAD
45.00	Supply of 3 pole power contactor confirms relevent IS (Make: L&T, Type: MNX 18) or equivalent as per list of approved makes.	2.00	Each	0.00	900.00	1800.00	2850.00	5700.00	4800.00	9600.00	1100.00	2200.00	841.00	1682.00	4500.00	9000.00	1110.00	2220.00	905.00	1810.00	910.00	1820.00	1682.00	BANESHWAR ELECTRICAL AND ELECTRONICS A. S. SANSTHA , AURANGABAD
46.00	Supply of 3 pole power contactor confirms relevent IS (Make: L&T, Type: MNX 32) or equivalent as per list of approved makes.	2.00	Each	0.00	2450.00	4900.00	2260.00	4520.00	6000.00	12000.00	2500.00	5000.00	2257.00	4514.00	4500.00	9000.00	2250.00	4500.00	2440.00	4880.00	2525.00	5050.00	4500.00	POWER WAY SOLUTIONS
47.00	Supply of Red coloured LED type Indication Lamp suitable to operate with 240V AC/24V DC for panels as required as per list of approved makes.	20.00	Each	0.00	95.00	1900.00	140.00	2800.00	200.00	4000.00	120.00	2400.00	27.00	540.00	300.00	6000.00	56.25	1125.00	90.00	1800.00	128.00	2560.00	540.00	BANESHWAR ELECTRICAL AND ELECTRONICS A. S. SANSTHA , AURANGABAD
48.00	Supply of Yellow coloured LED Indication Lamp suitable to operate with 240V AC/24V DC for panels as required as per list of approved makes.	20.00	Each	0.00	95.00	1900.00	140.00	2800.00	200.00	4000.00	120.00	2400.00	27.00	540.00	300.00	6000.00	56.25	1125.00	90.00	1800.00	128.00	2560.00	540.00	BANESHWAR ELECTRICAL AND ELECTRONICS A. S. SANSTHA , AURANGABAD
49.00	Supply of Blue coloured LED Indication Lamp suitable to operate with 240V AC/24V DC for panels as required as per list of approved makes.	20.00	Each	0.00	95.00	1900.00	140.00	2800.00	200.00	4000.00	120.00	2400.00	27.00	540.00	300.00	6000.00	93.75	1875.00	90.00	1800.00	193.00	3860.00	540.00	BANESHWAR ELECTRICAL AND ELECTRONICS A. S. SANSTHA , AURANGABAD
50.00	Supply of Green coloured LED Indication Lamp suitable to operate with 240V AC/24V DC for Panels as required as per list of approved makes.	20.00	Each	0.00	95.00	1900.00	160.00	3200.00	200.00	4000.00	120.00	2400.00	27.00	540.00	300.00	6000.00	56.25	1125.00	90.00	1800.00	128.00	2560.00	540.00	BANESHWAR ELECTRICAL AND ELECTRONICS A. S. SANSTHA , AURANGABAD
51.00	Supply of ISI marked 1 KVAR, 3 phase, 440V, 50Hz Square type heavy duty NPCB impregnant capacitor (Make: EPCOS, Model: ENDC - B32457L5001A011) or equivalent as per list of approved makes.	1.00	Each	0.00	400.00	400.00	230.00	230.00	1200.00	1200.00	1200.00	1200.00	175.00	175.00	2500.00	2500.00	400.00	400.00	405.00	405.00	856.00	856.00	175.00	BANESHWAR ELECTRICAL AND ELECTRONICS A. S. SANSTHA , AURANGABAD

Sl.No	Description of Work / Item(s)	No.of Qty	Units	Estimated Rate	Sri Skanda Consultancy(GSTN-29AFCPK1991H1Z9)		LAKSHMI ELECTRICAL ENTERPRISES(GSTN-33AACFL6352N1Z4)		Manish Electricals(GSTN-22ABLPm9012E1ZY)		Bharat Electrical And Instrumentation(GSTN-29AABPF4977E1ZN)		BANESHWAR ELECTRICAL AND ELECTRONICS A. S. SANSTHA , AURANGABAD(GSTN-27AAJAB4544C4Z0)		S S ELECTRICALS(GSTN-29ASDPS9111M1Z6)		POWER WAY SOLUTIONS(GSTN-NA)		Raaj Power solutions and Facilities(GSTN-NA)		ABHISHEK INTEGRATIONS LIMITED(GSTN-NA)			
					Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount	L1 Amount	L1 Vendor
52.00	Supply of ISI marked 2 KVAR, 3 phase, 440V, 50Hz Square type heavy duty NPCB impregnated capacitor (Make: EPCOS, Model: ENDC - B32457L5002A011) or equivalent as per list of approved makes.	1.00	Each	0.00	800.00	800.00	320.00	320.00	1800.00	1800.00	1800.00	1800.00	350.00	350.00	3000.00	3000.00	800.00	800.00	810.00	810.00	1712.00	1712.00	320.00	LAKSHMI ELECTRICAL ENTERPRISES
53.00	Supply of ISI marked 3 KVAR, 3 phase, 440V, 50Hz Square type heavy duty NPCB impregnated capacitor (Make: MEHER, Model: MPP-D, Cat.No. 26D3030B1) or equivalent as per list of approved makes.	1.00	Each	0.00	1200.00	1200.00	440.00	440.00	2400.00	2400.00	2000.00	2000.00	577.00	577.00	3500.00	3500.00	2400.00	2400.00	1220.00	1220.00	2568.00	2568.00	440.00	LAKSHMI ELECTRICAL ENTERPRISES
54.00	Supply of ISI marked 4 KVAR, 3 phase, 440V, 50Hz Square type heavy duty NPCB impregnated capacitor (Make: MEHER, Model: MPP-D, Cat.No. 26D3040B1) or equivalent as per list of approved makes.	1.00	Each	0.00	1650.00	1650.00	620.00	620.00	3000.00	3000.00	2500.00	2500.00	770.00	770.00	4500.00	4500.00	3200.00	3200.00	1650.00	1650.00	3424.00	3424.00	620.00	LAKSHMI ELECTRICAL ENTERPRISES
55.00	Supply of ISI marked 5 KVAR, 3 phase, 440V, 50Hz Square type heavy duty NPCB impregnated capacitor (Make: EPCOS, Model: ENDC - B32457L5005A011) or equivalent as per list of approved makes.	1.00	Each	0.00	1750.00	1750.00	650.00	650.00	4000.00	4000.00	4000.00	4000.00	874.00	874.00	5000.00	5000.00	4000.00	4000.00	1800.00	1800.00	4280.00	4280.00	650.00	LAKSHMI ELECTRICAL ENTERPRISES
56.00	Supply of automatic transfer switch (ATS) for rated ampere 125A, upto 440V, 50Hz, four pole, with enclosure comply with IS/IEC:60947-6-1 suitable for automatic and manual operation for replacement of existing automatic transfer switch (Make: Havells, Cat. No.: IHYFCDE125) as required as per list of approved makes. (Replacement of existing automatic transfer switch).	1.00	Each	0.00	40000.00	40000.00	25000.00	25000.00	3500.00	3500.00	9000.00	9000.00	48185.00	48185.00	3500.00	3500.00	75000.00	75000.00	39900.00	39900.00	42800.00	42800.00	3500.00	Manish Electricals, S S ELECTRICALS
57.00	Supply of 8 steps automatic power factor controller of dimension 144x144x100 with single CT sensing, suitable to operate at 415V, 50Hz (Make: L&T, Model: Reactive Power Manager (RPM-8)) or equivalent as required as per list of approved makes.	1.00	Each	0.00	10000.00	10000.00	2300.00	2300.00	16000.00	16000.00	10000.00	10000.00	9734.00	9734.00	3800.00	3800.00	12000.00	12000.00	9900.00	9900.00	17629.00	17629.00	2300.00	LAKSHMI ELECTRICAL ENTERPRISES
58.00	Supply of LCD type energy meter flush mounting accuracy class 1 having dimensions 96x96mm, CT/PT site programmable suitable to operate with 3 phase AC supply suitable for panels (Make: L&T, Model: 400 series, Cat: WC400010OOOO) or equivalent as per list of approved makes.	2.00	Each	0.00	2400.00	4800.00	720.00	1440.00	6000.00	12000.00	2000.00	4000.00	2071.00	4142.00	10010.00	20020.00	3800.00	7600.00	2390.00	4780.00	2996.00	5992.00	1440.00	LAKSHMI ELECTRICAL ENTERPRISES
59.00	Supply of Ring type Current Transformer (CT) made of cast resin, having ration 400/5 A, burden 15VA, accuracy class 1 suitable work at 440V, 50Hz as required.	3.00	Each	0.00	375.00	1125.00	800.00	2400.00	600.00	1800.00	900.00	2700.00	1200.00	3600.00	15000.00	45000.00	1450.00	4350.00	375.00	1125.00	8560.00	25680.00	1125.00	Sri Skanda Consultancy, Raaj Power solutions and Facilities
60.00	Supply of single phase electronic energy meter in polycarbonate body with LCD type display in accuracy class 1.0 of rating 5-30A, 240V, 50Hz, only kWh compact meter with meter box with sealing screw provision complete as required suitable for residential use (Make L&T, Cat. no. WM101BC5DL0BOX) or equivalent as per list of approved makes.	5.00	Each	0.00	1200.00	6000.00	1650.00	8250.00	2600.00	13000.00	2000.00	10000.00	1222.00	6110.00	20000.00	100000.00	2000.00	10000.00	1200.00	6000.00	1766.00	8830.00	6000.00	Sri Skanda Consultancy, Raaj Power solutions and Facilities
61.00	Supply of three phase electronic energy meter in polycarbonate body with LCD type display in accuracy class 1.0 of rating 10-60A, 3x240V, 50Hz with transparent box complete as required suitable for residential use (Make L&T, Cat. no. WR301BC7D10) or equivalent as per list of approved makes.	2.00	Each	0.00	3500.00	7000.00	4000.00	8000.00	3300.00	6600.00	4000.00	8000.00	4000.00	8000.00	22000.00	44000.00	6500.00	13000.00	3500.00	7000.00	3371.00	6742.00	6600.00	Manish Electricals

Sl.No	Description of Work / Item(s)	No.of Qty	Units	Estimat ed Rate	Sri Skanda Consultancy(GSTN- 29AFCPK1991H1Z9)	LAKSHMI ELECTRICAL ENTERPRISES(GSTN- 33AACFL6352N1Z4)	Manish Electricals(GSTN- 22ABLPm9012E1ZY)	Bharat Electrical And Instrumentation(GSTN- 29AABPF4977E1ZN)	BANESHWAR ELECTRICAL AND ELECTRONICS A. S. SANSTHA , AURANGABAD(GSTN- 27AAJAB1544C430)	S S ELECTRICALS(GSTN- 29ASDPS9111M1Z6)	POWER WAY SOLUTIONS(GSTN-NA)	Raaj Power solutions and Facilities(GSTN-NA)	ABHISHEK INTEGRATIONS LIMITED(GSTN-NA)											
					Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount	L1 Amount	L1 Vendor								
62.00	Supply of ISI marked RCCB double pole, 40 Amps, 230 Volts, 30mA sensitivity, breaking capacity of 10kA as per list of approved makes.	20.00	Each	0.00	2000.00	40000.00	2580.00	51600.00	3000.00	60000.00	2750.00	55000.00	1600.00	32000.00	10000.00	200000.00	2050.00	41000.00	2060.00	41200.00	2247.00	44940.00	32000.00	BANESHWAR ELECTRICAL AND ELECTRONICS A. S. SANSTHA , AURANGABAD

Total in Figures	3261275.00	3773840.00	3504082.00	3783670.00	3265576.00	4149670.00	5249413.65	3261025.00	3409708.00
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Lowest Amount Quoted BY: Raaj Power solutions and

BOQ Summary Details Tender Title: ARMO 21-22 SH- Operation and Maintenance contract for all Electrical and Mechanical installations related to Colony and Cargo areas at Mangaluru International Airport Tender ID: 2021_AAI_85003_1

Sheet Name	Sl.No	Bidder Name	Amount	Bid Rank
BoQ1	1	Raaj Power solutions and Facilities	3261025.00	L1
	2	Sri Skanda Consultancy	3261275.00	L2
	3	BANESHWAR ELECTRICAL AND ELECTRONICS A. S. SANSTHA , AURANGABAD	3265576.00	L3
	4	ABHISHEK INTEGRATIONS LIMITED	3409708.00	L4
	5	Manish Electricals	3504082.00	L5
	6	LAKSHMI ELECTRICAL ENTERPRISES	3773840.00	L6
	7	Bharat Electrical And Instrumentation	3783670.00	L7
	8	S S ELECTRICALS	4149670.00	L8
	9	POWER WAY SOLUTIONS	5249413.65	L9

Comparative statement
Name of work : ARMO 21-22 SH: Operation and Maintenance contract for all Electrical and Mechanical installations related to Colony and Cargo areas at Mangaluru International Airport.
Bid No. 2021_AA1_85003_1

Date of Financial Bid Opening : 20.10.2021 at 11.00 hrs

All rates are excluding of GST																							
Sl.No	Description	Unit	Qty	Justified		M/s Sri Skanda Consultancy, Mangalore		M/s Bharat Electrical & Instrumentation, Mangalore		M/s Manish Electricals,Gwalior		M/s Abhishek Integration Ltd, Ahmedabad		M/s Lakshmi Electrical Enterprises, Chennai		M/s Power Way Solutions, Bangalore		M/s Raaj Solutions and Facilities, Mangalore		M/s S S Electricals, Bangalore		M/s Baneshwar Electrical & Electronics, Aurangabad	
				Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount								
1	Operation & Maintenance contract of all E&M Installations of Colony and cargo areas which involves maintenance, attending to complain/fault/breakdowns, carrying out minor repairs and taking rectification action ensuring serviceability/ satisfactory working condition of the system, carrying out preventive maintenance, maintenance of records and documentation etc. on all days including sundays & holidays. The work shall be carried out as per General & Special conditions of the contract and instructions issued time to time by engineer-in-charge.	Months	24	136298	3271152	120000.00	2880000	138000.00	3312000	128578.00	3085872	123483.00	2963592	141000.00	3384000	199999.00	4799976	120000.00	2880000	108000.00	2592000	122340.00	2936160
2	Providing unskilled workers for temporary nature of work/works unsusceptible to measure as and when required including necessary T&P works like (shifting of store items/office, verification of annual stock, shifting of material / ladders and other similar type of works) as directed by EIC.	Labour	100	626	62600	625.00	62500	800.00	80000	600.00	60000	577.00	57700	570.00	57000	500.00	50000	605.00	60500	1500.00	150000	539.00	53900
3	Lifting & lowering of different size submersible pump including pipe line, cable, dismantling the defective motor pump set and installing the new repaired motor & pump set, arranging T & P and consumables as and when required basis. (charges for repairing or rectification of pump/motor need not be included)	Job	2	7500	15000	6500.00	13000	7600.00	15200	7000.00	14000	4500.00	9000	4500.00	9000	6500.00	13000	6500.00	13000	10000.00	20000	9500.00	19000
4	Rewinding of 3phase, 415 V, 50HZ submersible pump motors of upto 7.5 HP with suitable size super enameled electrical grade copper wire and insulation including transportation from site to workshop and back as and when required basis. (Credit for burnt copper winding wire shall be considered while quoting)	Job	2	7500	15000	6500.00	13000	7800.00	15600	3500.00	7000	6000.00	12000	7500.00	15000	7500.00	15000	6450.00	12900	10000.00	20000	4700.00	9400
5	Rewinding of 3phase, 415 V, 50HZ monoblock pump motors of upto 7.5 HP with suitable size super enameled electrical grade copper wire and insulation including transportation from site to workshop and back as and when required basis. (Credit for burnt copper winding wire shall be considered while quoting)	Job	2	7500	15000	6500.00	13000	7000.00	14000	6500.00	13000	6000.00	12000	7500.00	15000	6500.00	13000	6450.00	12900	12000.00	24000	3700.00	7400
6	Supply & Replacement of faulty bearings of the ceiling/wall mounted/exhaust/cabin fan, overhauling etc complete as and when required basis	Each	60	200	12000	150.00	9000	400.00	24000	150.00	9000	80.00	4800	150.00	9000	450.00	27000	160.00	9600	650.00	39000	150.00	9000
7	Rewinding of ceiling fan of all sizes as and when required basis. (Credit for burnt copper winding wire shall be considered while quoting)	Each	30	750	22500	500.00	15000	800.00	24000	400.00	12000	300.00	9000	650.00	19500	800.00	24000	520.00	15600	1000.00	30000	250.00	7500
8	Rewinding of exhaust fan of 300mm sizes as and when required basis. (Credit for burnt copper winding wire shall be considered while quoting)	Nos	10	800	8000	700.00	7000	800.00	8000	300.00	3000	350.00	3500	650.00	6500	750.00	7500	710.00	7100	1200.00	12000	650.00	6500
9	Carrying out dehydration / filtration of Transformer oil till the required BDV value is reached including conducting acidity test from recognized agency/institution and submission of reports of the above test and topping up of available Transformer oil etc as required 250 KVA, 11000/440V indoor Transformer with oil capacity of 300 ltrs. First Year	Job	1	7000	7000	7000.00	7000	5000.00	5000	5000.00	5000	5000.00	5000	12000.00	12000	500.00	500	6950.00	6950	28000.00	28000	2500.00	2500
10	Carrying out dehydration / filtration of Transformer oil till the required BDV value is reached including conducting acidity test from recognized agency/institution and submission of reports of the above test and topping up of available Transformer oil etc as required 250 KVA, 11000/440V indoor Transformer with oil capacity of 300 ltrs. Second Year	Job	1	7700	7700	7500.00	7500	5000.00	5000	5000.00	5000	5000.00	5000	13000.00	13000	4000.00	4000	7400.00	7400	35000.00	35000	3000.00	3000
11	Supply of transformer oil of the required grade as used in present transformer as and when required.	Litre	20	130	2600	120.00	2400	180.00	3600	210.00	4200	130.00	2600	150.00	3000	200.00	4000	125.00	2500	500.00	10000	150.00	3000
12	Supply of silica gel crystals for use in transformer breather as and when required	Kg	1	450	450	400.00	400	300.00	300	600.00	600	350.00	350	400.00	400	1260.00	1260	425.00	425	1500.00	1500	350.00	350
13	Supply of ISI marked 6 Amps piano type One Way switch suitable to operate in 230V, 50Hz single phase AC supply complete as required as per list of approved makes.	Each	100	15	1500	18.00	1800	60.00	6000	20.00	2000	13.00	1300	20.00	2000	25.00	2500	17.00	1700	50.00	5000	12.00	1200
14	Supply of ISI marked 6 Amps 3 pin piano type socket outlet suitable to operate in 230V, 50Hz single phase AC supply complete as required as per list of approved makes.	Each	40	33	1320	30.00	1200	75.00	3000	30.00	1200	24.00	960	50.00	2000	33.75	1350	30.50	1220	55.00	2200	21.00	840
15	Supply of ISI marked 6 Amps, 3 Pin Plug Top suitable to operate in 230V, 50Hz single phase AC supply complete as required as per list of approved makes.	Each	20	58	1160	60.00	1200	100.00	2000	30.00	600	42.00	840	40.00	800	50.00	1000	59.50	1190	60.00	1200	37.00	740
16	Supply of ISI marked 6 Amps Piano type Two Way switch suitable to operate in 230V 50 Hz single phase AC supply complete as required as per list of approved makes.	Each	10	28	280	30.00	300	75.00	750	30.00	300	23.00	230	25.00	250	26.25	263	29.00	290	65.00	650	22.00	220
17	Supply of ISI marked 6 Amps bell switch suitable to operate in 230V, 50Hz single phase AC supply complete as required as per list of approved makes.	Each	10	28	280	25.00	250	75.00	750	30.00	300	23.00	230	30.00	300	27.50	275	24.00	240	65.00	650	25.00	250
18	Supply of piano type, rotary step type 100W fan regulator (1 module) suitable to operate in 230V, 50Hz single phase AC supply complete as required as per list of approved makes.	Each	50	183	9150	170.00	8500	750.00	37500	150.00	7500	166.00	8300	190.00	9500	181.25	9063	171.00	8550	500.00	25000	131.00	6550
19	Supply of piano type, rotary step type 100W Fan regulator (2 module) suitable to operate in 230V, 50Hz single phase AC supply complete as required as per list of approved makes.	Each	50	207	10350	200.00	10000	225.00	11250	150.00	7500	187.00	9350	210.00	10500	203.75	10188	201.00	10050	700.00	35000	157.00	7850
20	Supply of ISI marked 15/20 Amps Piano type One Way switch with two fixing holes suitable to operate in 230V, 50Hz single phase AC supply complete as required as per list of approved makes.	Each	20	75	1500	70.00	1400	140.00	2800	50.00	1000	63.00	1260	90.00	1800	70.00	1400	70.50	1410	60.00	1200	61.00	1220
21	Supply of ISI marked 15 Amps, 3 pin Plug Top suitable to operate in 230V, 50Hz single phase AC supply complete as required as per list of approved makes.	Each	10	78	780	70.00	700	180.00	1800	40.00	400	89.00	890	85.00	850	62.50	625	70.50	705	80.00	800	52.50	525

Sl.No	Description	Unit	Qty	All rates are excluding of GST																			
				Justified		M/s Sri Skanda Consultancy, Mangalore		M/s Bharat Electrical & Instrumentation, Mangalore		M/s Manish Electricals,Gwalior		M/s Abhishek Integration Ltd, Ahmedabad		M/s Lakshmi Electrical Enterprises, Chennai		M/s Power Way Solutions, Bangalore		M/s Raaj Solutions and Facilities, Mangalore		M/s S S Electricals, Bangalore		M/s Baneshwar Electrical & Electronics, Aurangabad	
				Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount								
22	Supply of ISI marked single pole MCB, C series, 6 Amps, 230V, breaking capacity of 10kA suitable to operate in 230V, 50Hz single phase AC supply complete as required as per list of approved makes.	Each	15	182	2730	180.00	2700	125.00	1875	160.00	2400	112.00	1680	140.00	2100	168.75	2531	182.00	2730	280.00	4200	96.00	1440
23	Supply of ISI marked single pole MCB, C series, 20 Amps, 230V, breaking capacity of 10kA suitable to operate in 230V, 50Hz single phase AC supply complete as required as per list of approved makes.	Each	20	182	3640	180.00	3600	250.00	5000	210.00	4200	112.00	2240	140.00	2800	168.75	3375	182.00	3640	450.00	9000	96.00	1920
24	Supply of ISI marked double pole MCB, C series, 25 Amps, 230/415V, breaking capacity of 10kA suitable to operate in 230V, 50Hz single phase AC supply complete as required as per list of approved makes.	Each	10	581	5810	550.00	5500	230.00	2300	210.00	2100	400.00	4000	425.00	4250	495.00	4950	545.00	5450	500.00	5000	380.00	3800
25	Supply of ISI marked four pole MCB, C series, 40 Amps, 415V, breaking capacity of 10kA suitable to operate in 230V, 50Hz single phase AC supply complete as required as per list of approved makes.	Each	4	1718	6872	1500.00	6000	350.00	1400	1015.00	4060	1207.00	4828	660.00	2640	1562.50	6250	1450.00	5800	550.00	2200	1081.50	4326
26	Supply of ISI marked 1.5 Sqmm PVC insulated single core unsheathed industrial, multistrand bare copper conductor FRLSH flexible cables of 1.1 KV grade conforming to IS 694 amendments upto date complete as required as per list of approved makes - Red colour	Metres	90	23	2070	20.00	1800	15.00	1350	15.00	1350	20.00	1800	18.50	1665	18.35	1652	21.00	1890	60.00	5400	17.00	1530
27	Supply of ISI marked 1.5 Sqmm PVC insulated single core unsheathed industrial, multistrand bare copper conductor FRLSH flexible cables of 1.1 KV grade conforming to IS 694 amendments upto date complete as required as per list of approved makes - Yellow colour	Metres	90	23	2070	20.00	1800	15.00	1350	15.00	1350	20.00	1800	18.50	1665	18.35	1652	21.00	1890	60.00	5400	17.00	1530
28	Supply of ISI marked 1.5 Sqmm PVC insulated single core unsheathed industrial multistrand bare copper conductor FRLSH flexible cables of 1.1 KV grade conforming to IS 694 amendments upto date complete as required as per list of approved makes - Blue colour	Metres	90	23	2070	20.00	1800	15.00	1350	15.00	1350	20.00	1800	18.50	1665	18.35	1652	21.00	1890	60.00	5400	17.00	1530
29	Supply of ISI marked 1.5 Sqmm PVC insulated single core unsheathed industrial multistrand bare copper conductor FRLSH flexible cables of 1.1 KV grade conforming to IS 694 amendments upto date complete as required as per list of approved makes - Black colour	Metres	90	23	2070	20.00	1800	15.00	1350	15.00	1350	20.00	1800	18.50	1665	18.35	1652	21.00	1890	60.00	5400	17.00	1530
30	Supply of ISI marked 2.5 Sqmm PVC insulated single core unsheathed industrial multistrand bare copper conductor FRLSH flexible cables of 1.1 KV grade conforming to IS 694 amendments upto date complete as required as per list of approved makes - Red colour	Metres	90	36	3240	30.00	2700	22.00	1980	30.00	2700	31.00	2790	29.00	2610	29.64	2668	30.00	2700	75.00	6750	25.00	2250
31	Supply of ISI marked 2.5 Sqmm PVC insulated single core unsheathed industrial multistrand bare copper conductor FRLSH flexible cables of 1.1 KV grade conforming to IS 694 amendments upto date complete as required as per list of approved makes - Yellow colour	Metres	90	36	3240	30.00	2700	22.00	1980	30.00	2700	31.00	2790	29.00	2610	29.64	2668	30.00	2700	100.00	9000	25.00	2250
32	Supply of ISI marked 2.5 Sqmm PVC insulated single core unsheathed industrial multistrand bare copper conductor FRLSH flexible cables of 1.1 KV grade conforming to IS 694 amendments upto date complete as required as per list of approved makes - Blue colour	Metres	90	36	3240	30.00	2700	22.00	1980	30.00	2700	31.00	2790	29.00	2610	29.64	2668	30.00	2700	100.00	9000	25.00	2250
33	Supply of ISI marked 2.5 Sqmm PVC insulated single core unsheathed industrial, multistrand bare copper conductor FRLSH flexible cables of 1.1 KV grade conforming to IS 694 amendments upto date complete as required as per list of approved makes - Black colour	Metres	90	36	3240	30.00	2700	22.00	1980	30.00	2700	31.00	2790	29.00	2610	29.64	2668	30.00	2700	100.00	9000	25.00	2250
34	Supply of ISI marked 4 Sqmm PVC insulated single core unsheathed industrial, multistrand bare copper conductor FRLSH flexible cables of 1.1 KV grade conforming to IS 694 amendments upto date complete as required as per list of approved makes - Red colour	Metres	90	55	4950	50.00	4500	30.00	2700	50.00	4500	47.00	4230	43.00	3870	45.00	4050	51.00	4590	100.00	9000	35.00	3150
35	Supply of ISI marked 4 Sqmm PVC insulated single core unsheathed industrial, multistrand bare copper conductor FRLSH flexible cables of 1.1 KV grade conforming to IS 694 amendments upto date complete as required as per list of approved makes - Yellow colour	Metres	90	55	4950	50.00	4500	30.00	2700	50.00	4500	47.00	4230	43.00	3870	45.00	4050	51.00	4590	100.00	9000	35.00	3150
36	Supply of ISI marked 4 Sqmm PVC insulated single core unsheathed industrial, multistrand bare copper conductor FRLSH flexible cables of 1.1 KV grade conforming to IS 694 amendments upto date complete as required as per list of approved makes - Blue colour	Metres	90	55	4950	50.00	4500	30.00	2700	50.00	4500	47.00	4230	43.00	3870	45.00	4050	51.00	4590	80.00	7200	35.00	3150
37	Supply of ISI marked 4 Sqmm PVC insulated single core unsheathed industrial, multistrand bare copper conductor FRLSH flexible cables of 1.1 KV grade conforming to IS 694 amendments upto date complete as required as per list of approved makes - Black colour	Metres	90	55	4950	50.00	4500	30.00	2700	50.00	4500	47.00	4230	43.00	3870	45.00	4050	51.00	4590	80.00	7200	35.00	3150
38	Supply of 14W-CDL (cool day light) LED bulb with B-22 base suitable to operate in 230V, 50Hz single phase AC supply complete as required as per list of approved makes.	Each	20	264	5280	200.00	4000	300.00	6000	180.00	3600	248.00	4960	270.00	5400	237.50	4750	190.00	3800	4500.00	90000	185.00	3700
39	Supply of 4 feet 20W LED tubelight suitable to retrofit for existing T8 FTL lamps (Make: Philips, Model No: Stellar Bright TLED or equivalent) suitable to operate in 230V, 50Hz single phase AC supply complete as required as per list of approved makes.	Each	50	266	13300	200.00	10000	380.00	19000	450.00	22500	798.00	39900	310.00	15500	225.00	11250	195.00	9750	6500.00	325000	301.00	15050
40	Supply of Angle Holder 6A, with metal ring, white/ivory colour suitable to operate in 230V, 50Hz single phase AC supply complete as required as per list of approved makes.	Each	10	30	300	25.00	250	80.00	800	30.00	300	72.00	720	40.00	400	33.75	338	25.00	250	6500.00	65000	25.00	250
41	Supply of 2.5 Micro Farad Capacitor for use with ceiling fans suitable to operate in 230V, 50Hz single phase AC supply complete as required as per list of approved makes.	Each	50	29	1450	25.00	1250	200.00	10000	25.00	1250	17.00	850	20.00	1000	33.75	1688	25.00	1250	350.00	17500	22.00	1100
42	Supply of Ding Dong type Door call bell suitable to operate in 230V, 50Hz single phase AC supply complete as required as per list of approved makes.	Each	10	159	1590	250.00	2500	450.00	4500	160.00	1600	168.00	1680	260.00	2600	125.00	1250	245.00	2450	300.00	3000	103.00	1030
43	Supply of 3 phase, 7.5HP, 415 V, 50 Hz, DOL Starter with start-stop button in sheet steel enclosure, relay range of 9-14/15A with all accessories conforming to relevant standard etc complete as required.	Each	2	1747	3494	1750.00	3500	3000.00	6000	5000.00	10000	5350.00	10700	2750.00	5500	3000.00	6000	1750.00	3500	6500.00	13000	1921.00	3842
44	Supply of G13 Lamp Holder for T8 Tube light fixture suitable to operate in 230V, 50Hz single phase AC supply complete as required as per list of approved makes.	Each	10	40	400	35.00	350	100.00	1000	50.00	500	64.00	640	150.00	1500	18.75	188	35.00	350	50.00	500	15.00	150
45	Supply of Add-On auxillary contact block front mounting (1NO+1NC) suitable for L&T make MNX single phase power contactors confirms relavent IS (Make: L&T, Type: MNX A2) or equivalent as per list of approved makes.	Each	5	289	1445	290.00	1450	425.00	2125	3000.00	15000	2093.00	10465	620.00	3100	350.00	1750	285.00	1425	3500.00	17500	254.00	1270
46	Supply of 3 pole power contactor confirms relevent IS (Make: L&T, Type: MNX 18) or equivalent as per list of approved makes.	Each	2	908	1816	900.00	1800	1100.00	2200	4800.00	9600	910.00	1820	2850.00	5700	1110.00	2220	905.00	1810	4500.00	9000	841.00	1682
47	Supply of 3 pole power contactor confirms relevent IS (Make: L&T, Type: MNX 32) or equivalent as per list of approved makes.	Each	2	2426	4852	2450.00	4900	2500.00	5000	6000.00	12000	2525.00	5050	2260.00	4520	2250.00	4500	2440.00	4880	4500.00	9000	2257.00	4514

Sl.No	Description	Unit	Qty	All rates are excluding of GST																			
				Justified		M/s Sri Skanda Consultancy, Mangalore		M/s Bharat Electrical & Instrumentation, Mangalore		M/s Manish Electricals,Gwalior		M/s Abhishek Integration Ltd, Ahmedabad		M/s Lakshmi Electrical Enterprises, Chennai		M/s Power Way Solutions, Bangalore		M/s Raaj Solutions and Facilities, Mangalore		M/s S S Electricals, Bangalore		M/s Baneshwar Electrical & Electronics, Aurangabad	
				Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount								
48	Supply of Red coloured LED type Indication Lamp suitable to operate with 240V AC/24V DC for panels as required as per list of approved makes.	Each	20	95	1900	95.00	1900	120.00	2400	200.00	4000	128.00	2560	140.00	2800	56.25	1125	90.00	1800	300.00	6000	27.00	540
49	Supply of Yellow coloured LED Indication Lamp suitable to operate with 240V AC/24V DC for panels as required as per list of approved makes.	Each	20	95	1900	95.00	1900	120.00	2400	200.00	4000	128.00	2560	140.00	2800	56.25	1125	90.00	1800	300.00	6000	27.00	540
50	Supply of Blue coloured LED Indication Lamp suitable to operate with 240V AC/24V DC for panels as required as per list of approved makes.	Each	20	163	3260	95.00	1900	120.00	2400	200.00	4000	193.00	3860	140.00	2800	93.75	1875	90.00	1800	300.00	6000	27.00	540
51	Supply of Green coloured LED Indication Lamp suitable to operate with 240V AC/24V DC for Panels as required as per list of approved makes.	Each	20	95	1900	95.00	1900	120.00	2400	200.00	4000	128.00	2560	160.00	3200	56.25	1125	90.00	1800	300.00	6000	27.00	540
52	Supply of ISI marked 1 KVAR, 3 phase, 440V, 50Hz Square type heavy duty NPCB impregnant capacitor (Make: EPCOS, Model: ENDC - B32457L5001A011) or equivalent as per list of approved makes.	Each	1	402	402	400.00	400	1200.00	1200	1200.00	1200	856.00	856	230.00	230	400.00	400	405.00	405	2500.00	2500	175.00	175
53	Supply of ISI marked 2 KVAR, 3 phase, 440V, 50Hz Square type heavy duty NPCB impregnated capacitor (Make: EPCOS, Model: ENDC - B32457L5002A011) or equivalent as per list of approved makes.	Each	1	805	805	800.00	800	1800.00	1800	1800.00	1800	1712.00	1712	320.00	320	800.00	800	810.00	810	3000.00	3000	350.00	350
54	Supply of ISI marked 3 KVAR, 3 phase, 440V, 50Hz Square type heavy duty NPCB impregnated capacitor (Make: MEHER, Model: MPP-D, Cat.No. 26D3030B1) or equivalent as per list of approved makes.	Each	1	1207	1207	1200.00	1200	2000.00	2000	2400.00	2400	2568.00	2568	440.00	440	2400.00	2400	1220.00	1220	3500.00	3500	577.00	577
55	Supply of ISI marked 4 KVAR, 3 phase, 440V, 50Hz Square type heavy duty NPCB impregnated capacitor (Make: MEHER, Model: MPP-D, Cat.No. 26D3040B1) or equivalent as per list of approved makes.	Each	1	1610	1610	1650.00	1650	2500.00	2500	3000.00	3000	3424.00	3424	620.00	620	3200.00	3200	1650.00	1650	4500.00	4500	770.00	770
56	Supply of ISI marked 5 KVAR, 3 phase, 440V, 50Hz Square type heavy duty NPCB impregnated capacitor (Make: ENDC - B32457L5005A011) or equivalent as per list of approved makes.	Each	1	1707	1707	1750.00	1750	4000.00	4000	4000.00	4000	4280.00	4280	650.00	650	4000.00	4000	1800.00	1800	5000.00	5000	874.00	874
57	Supply of automatic transfer switch (ATS) for rated ampere 125A, upto 440V, 50Hz, four pole, with enclosure comply with IS/IEC:60947-6-1 suitable for automatic and manual operation for replacement of existing automatic transfer switch (Make: Havelis, Cat. No.: IHYFCDE125) as required as per list of approved makes. (Replacement of existing automatic transfer switch).	Each	1	42018	42018	40000.00	40000	9000.00	9000	3500.00	3500	42800.00	42800	25000.00	25000	75000.00	75000	39900.00	39900	3500.00	3500	48185.00	48185
58	Supply of 8 steps automatic power factor controller of dimension 144x144x100 with single CT sensing, suitable to operate at 415V, 50Hz (Make: L&T, Model: Reactive Power Manager (RPM-8)) or equivalent as required as per list of approved makes.	Each	1	10266	10266	10000.00	10000	10000.00	10000	16000.00	16000	17629.00	17629	2300.00	2300	12000.00	12000	9900.00	9900	3800.00	3800	9734.00	9734
59	Supply of LCD type energy meter flush mounting accuracy class 1 having dimensions 96x96mm, CT/PT site programmable suitable to operate with 3 phase AC supply suitable for panels (Make: L&T, Model: 400 series, Cat: WC400010O00O) or equivalent as per list of approved makes.	Each	2	2318	4636	2400.00	4800	2000.00	4000	6000.00	12000	2996.00	5992	720.00	1440	3800.00	7600	2390.00	4780	10010.00	20020	2071.00	4142
60	Supply of Ring type Current Transformer (CT) made of cast resin, having ration 400/5 A, burden 15VA, accuracy class 1 suitable work at 440V, 50Hz as required.	Each	3	395	1185	375.00	1125	900.00	2700	600.00	1800	8560.00	25680	800.00	2400	1450.00	4350	375.00	1125	15000.00	45000	1200.00	3600
61	Supply of single phase electronic energy meter in polycarbonate body with LCD type display in accuracy class 1.0 of rating 5-30A, 240V, 50Hz, only kWh compact meter with meter box with sealing screw provision complete as required suitable for residential use (Make L&T, Cat. no. WM101BCSDL0BOX) or equivalent as per list of approved makes.	Each	5	1278	6390	1200.00	6000	2000.00	10000	2600.00	13000	1766.00	8830	1650.00	8250	2000.00	10000	1200.00	6000	20000.00	100000	1222.00	6110
62	Supply of three phase electronic energy meter in polycarbonate body with LCD type display in accuracy class 1.0 of rating 10-60A, 3x240V, 50Hz with transparent box complete as required suitable for residential use (Make L&T, Cat. no. WR301BC7D10) or equivalent as per list of approved makes.	Each	2	3886	7772	3500.00	7000	4000.00	8000	3300.00	6600	3371.00	6742	4000.00	8000	6500.00	13000	3500.00	7000	22000.00	44000	4000.00	8000
63	Supply of ISI marked RCCB double pole, 40 Amps, 230 Volts, 30mA sensitivity, breaking capacity of 10kA as per list of approved makes.	Each	20	2191	43820	2000.00	40000	2750.00	55000	3000.00	60000	2247.00	44940	2580.00	51600	2050.00	41000	2060.00	41200	10000.00	200000	1600.00	32000
A	Total				3690119.00		3261275.00		3783670.00		3504082.00		3409708.00		3773840.00		5249413.65		3261025.00		4149670.00		3265576.00
B	Discount offered (if any) on total				-		-		-		-		-		-		-		-		-		-
C	Grand Total				3690119.00		3261275.00		3783670.00		3504082.00		3409708.00		3773840.00		5249413.65		3261025.00		4149670.00		3265576.00
					3690119.00		-11.62%		2.54%		-5.04%		-7.60%		2.27%		42.26%		-11.63%		12.45%		-11.50%
					L2				L7		L5		L4		L6		L9		L1		L8		L3

Certified that I have personally conducted check of all quotations duly computed checked and satisfied myself that the checking work been properly done and the rates quoted by the contractor ie. totals are carried over correctly in the comparative statement.

Signature of the Manager (E-E)

Signature of the Asst.Gen.Manager (E-E)
Certified that I have personally conducted a test check of the computed & checked tenders forwarded by Deptt. Of Engg. And satisfied myself that the checking work has been properly done.

Signature of the AGM (Finance)

MEMO FORWARDING e-TENDERS TO HIGHER AUTHORITIES

1	Name of work	:	<i>ARMO 21-22 SH: Operation and Maintenance contract for all Electrical and Mechanical installations related to Colony and Cargo areas at Mangaluru International Airport.</i>
2	Ref. to Admn. Approval & Expenditure sanction	:	<i>Approved Action Plan BE 21-22</i>
	(i) No. & Date	:	
	(ii) Amount	:	
	(iii) Proportionate amount available for the work included in the present Tenders	:	<i>Rs. 10.00 lakhs under S.No.1, ANS approved Action plan.</i>
3	Ref. To Tech Sanction		<i>AAI/ ML/ENGG(E)/21-22/TS-01 dt: 19.08.2021 Rs. 47,02,733/-</i>
	(i) No. & Date	:	
	(ii) Amount	:	
4	Scope of work for which Tenders have been called for clearly indicating the items omitted from the sanction estimate	:	<i>Operation & maintenance of E & M installations and associated works as per BOQ.</i>
5	Ref. To Approval of NIT		
	(i) Authority	:	<i>Asst. Gen. Manager, Engg (E) Mangaluru International Airport.</i>
	(ii) Date	:	<i>AAI/ML/ENGG (E)/AGM (E)/ NIT-01/2021-22 dt: 25.08.2021</i>
	(iii) Est. Amount put to Tender	:	<i>Rs. 36,90,119/-</i>
6	Ref. To Publicity		
	(i) Date on which notice inviting Tender was placed on notice Board	:	<i>25.08.2021</i>
	(ii) Date of which it was circulated to other offices	:	<i>25.08.2021 (Through CPP Portal, AAI website)</i>
	(iii) Name of News papers (with dates) in which the notice inviting Tender was actually advertised	:	<i>CPP Portal, AAI website</i>

7	(i) The date and time at which Tender were due to be received	:	08.09.2021 upto 14:00 hrs.		
	(ii) Postponed date and time if any	:	13.09.2021 upto 14:00 hrs.		
	(iii) Reasons for postponement	:			
	(iv) Reference to publicity in regard to postponement of tenders	:	-		
8	The date from which Tenders were available for sale contractors	:	11.09.2021		
9	Particulars of contractors to whom Tender were sold quoting authority for issue of tenders	:	Nil		
Sl. No	Name of contractor	Class in which registered	Department in which enlisted	Date of issue of Tenders	Remarks
(1)	(2)	(3)	(4)	(5)	(6)
1	M/s Sri Skanda Consultancy, Mangalore	-		07.09.2021	
2	M/s Manish Electricals, Gwalior	-		08.09.2021	
3	M/s Bharat Electrical & Instrumentation, Mangalore	-		09.09.2021	
4	M/s Abhishek Integration Ltd, Ahmedabad	-		11.09.2021	
5	M/s Baneshwar Electrical & Electronics, Aurangabad	-		13.09.2021	
6	M/s Lakshmi Developers, Belgaum	-		08.09.2021	
7	M/s Lakshmi Electrical Enterprises, Chennai	-		08.09.2021	
8	M/s Power Way Solutions, Bangalore	-		08.09.2021	
9	M/s Raaj Solutions and Facilities, Mangalore	-		08.09.2021	
10	M/s S S Electricals, Bangalore	-		13.09.2021	
10	Opening of Tenders		:		
	(i) Date and time at which Tenders were due to be open(Financial Bid)	:	Price bid –14.09.2021 at :1500hrs		
	a) Date and time at which Tenders were actually opened (Financial Bid)	:	Price bid –20.10.2021 at 1100hrs		
	b) Name and Designation of officers who actually opened the Tenders (price bid)	:	1. Sh. S Ram Mohan, Asst.Gen. Manager (E.E) 2. Sh. Sundara, Asst.Gen. Manager (F)		
	c) Name of contractors present at the time of opening of Tenders	:	E-Tender		
	(ii) Name and designation of any other person present	:	NIL		

POSITION OF TENDERS RECEIVED

Sl.No (i)	Name of contractor (ii)	Amount Excluding. GST (iii)	% age above or below the justified cost (excl. GST) (iv)
1	M/s Sri Skanda Consultancy, Mangalore	Rs. 32,61,275/-	11.62% Below
2	M/s Manish Electricals, Gwalior	Rs. 35,04,082/-	5.04 % Below
3	M/s Bharat Electrical & Instrumentation, Mangalore	Rs. 37,83,670/-	2.54 % Above
4	M/s Abhishek Integration Ltd, Ahmedabad	Rs. 34,09,708/-	7.60 % Below
5	M/s Baneshwar Electrical & Electronics, Aurangabad	Rs. 32,65,576/-	11.50 % Below
6	M/s Lakshmi Electrical Enterprises, Chennai	Rs. 37,73,840/-	2.27% Above
7	M/s Power Way Solutions, Bangalore	Rs. 52,49,414/-	42.26% Above
8	M/s Raaj Solutions and Facilities, Mangalore	Rs. 32,61,025/-	11.63% Below
9	M/s S S Electricals, Bangalore	Rs. 41,49,670/-	12.54% Above
11.	(i) Justified percentage as worked by AAI	:	Rs. 36,90,119/- (excluding GST)
12.	Date on which validity of Tenders expires	:	90 DAYS from date of opening. (i.e.- on 18.12.2021)
13.	Remarks & Recommendations of the Executive Engineer	:	
	(i) Available of site	:	Yes
	(ii) Available of stipulated materials	:	N/A
	(iii) Approval of layout plans	:	-
	(iv) Approval to building, plans clearance from local body	:	N/A
	(v) Comments on the capabilities of three lowest Tenders including their financial and technical resources	:	Capable
	(vi) Is this the first call of Tenders? If not details of previous calls and results	:	Yes
14.	Justification Based on market rate.		
15.	Comments on the Tenders: Tender was floated for the above said work on 25.09.2021. Cover-I (Fee/Prequalification Bid and Technical Bid) was opened on 13.09.2021 and out of Ten agencies who participated nine qualified for the Cover-II opening. Cover-II (Financial Bid) was opened on 20.10.2021. The comparative statement was prepared with justification cost as the base (comparative statement including portal generated is enclosed). The offer of M/s Raaj Power Solutions and Facilities, Mangalore who quoted Rs. 32,61,025/-(exc. GST) i.e. 11.63% below the justified cost of Rs. 36,90,119/- is the lowest. (without GST) The expenditure for this work will be realized from approved action plan for the ARMO electrical works BE 21-22 - S.No.1, ANS in which Rs 10 Lakhs was earmarked for this work. The rest of the amount can be accounted from RE 22-23 budget. Hence financial concurrence for an amount of Rs. 32,61,025/- without GST (Rupees Thirty-Two Lakhs Sixty One Thousand and Twenty Five Only) plus applicable GST, may be accorded for awarding the work to the lowest bidder i.e M/s Raaj Power Solutions and Facilities, Mangalore. Vide D.O.P.8.8(a). Submitted for approval and forwarding please. Asst.Gen. Manager (Engg.E) AAI, Mangaluru Intl. Airport		