



SMART CITY THIRUVANANTHAPURAM LIMITED

SCTL/PRJ/2769/AM-E/20

Date: 06.05.2025

NOTICE INVITING QUOTATION

Smart City Thiruvananthapuram Limited is inviting quotations for the *"Supply Installation, Testing and Commissioning of Flood Lights at Tensile Roof,Putharikandam"*.

Scope of Work

The scope of work includes Supply,installation ,Testing and Commissioning of Flood Lights at Tensile Roof,Putharikandam

Technical Specifications

Particulars	Specifications-Flood Light
Flux(lm)	18000 lm
System efficiency	Upto 120 lm/watts
System wattage	150W
IP Rating	66
IK Rating	07
SDCM	<5
CCT	5700K
Operating Voltage	140-270V
PF	0.95
THD%	<10%(At full load)
Inbuilt surge protection	4KV
Electrical Insulation	Class 1
Serviceability Electrical	Driver & SPD.



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General Conditions:

1. Delivery shall be completed within 10 days from the date of LOA.
2. Warranty of the product shall be for a minimum period of 3 year.

Submission Requirements

Vendors must submit:

- Company profile
- Valid Contractor License from KSELB (Kerala State Electricity Licencing Board)
- Technical data sheet of the Flood light
- Detailed quotation
- Warranty terms
- Delivery timeline

Payment Terms:

1. Payment shall be made as per Delivery and Successful commissioning of the product.

Sealed Quotations have to be submitted to Smart City Office on or before 13th May 2025, 11:00 AM. Quotations received after 13th May 2025,11.00 AM will not be entertained.

Sd/-

Chief Executive Officer
Smart City Thiruvananthapuram Limited





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Quotation

SITC of Flood Lights at Tensile Roof, Putharikandam					
Sl.No	Description	Qty	Unit	Rate	Amount
1	Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface / recessed steel/ PVC conduit as required.3 x 2.5 sq. mm	500	Mtr		
2	Supplying and fixing of following sizes of medium class PVC conduit along with accessories in surface/ recess including cutting the wall and making good the same in case of recessed conduit as required.25 mm	500	Mtr		
3	Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator2 + 8 way, Double door	1	No		
4	Supplying and fixing 5 amps to 32 amps rating, 240/415 volts, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required. Single pole	6	Nos		
5	Supplying and fixing following rating, double pole, 240 volts, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.40 amps	1	No		
6	Supplying and fixing following rating, double pole, (single phase and neutral), 240 V, residual current circuit breaker (RCCB), having a sensitivity current 30 mA in the existing MCB DB complete with connections, testing and commissioning etc. as required.25 amps	1	No		





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7	<p>Supply and fixing of LED Flood Light with a minimum system lumen of 18000 Lm and system wattage not more than 150W with a nominal efficiency 120 lumen/watt . The housing should be of single piece non- corrosive high-pressure ADC 12 Alloy die-cast aluminum with corrosion resistant coating to pass Natural salt spray test of 500 Hrs with IP66 protection.The Luminaire should be having Minimum 50000 Burning hours(L70B50) with CRI
70, SDCM< 5 and co-related color temperature (CCT) of 5700K. LED used in the luminaire shall be of make of Lumileds, Osram, Nichia, and CREE. The luminaire should be capable of withstanding voltage stress of 440V for 8 Hrs , should have an auto shutdown at 325V and have an auto recovery feature , Under Voltage protection with Input Voltage Stress of 100V for 48 Hrs Pf>0.95,Thd<10 and 10 Kv SPD bolted inside the luminaire. The SPD should be able to sustain a minimum 15 hits of 10KV rating i.e . Total of 45 hits across all the three modes as per IEEE 62.41.2. Luminaire and driver shall be separately BIS approved. LM80,LM79 ,Type Test certificate and Bis certificate need to be submitted for approval.</p>	12	No		
8	<p>Structural steel work riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.</p>	25.2	Kg		
	Total				
	Total in words				

Note: The rates for the work shall be quoted exclusive of GST.



MATERIAL LIST			
PART 3 - ELECTRICAL WORKS			REVISION - R3
Sl.No	Item Description	Make of Materials/Equipment	
1	HT VCB Panel	Siemens,Schneider,ABB or equivalents as approved.	Category 1
2	Compact Sub Station	Siemens,Schneider,ABB, Intrans, ResiTech Electricals, Unitech, Lucy Electric or equivalents as approved.	Category 1
3	Transformer	Siemens,Schneider,ABB, Intrans,KEL,Voltamp, ResiTech Electricals, Unitech or equivalents as approved.	Category 1
4	HT RMU	Siemens, Schneider, ABB, EATON or equivalents as approved.	Category 1
5	Diesel Engine	Kirtoskar, Cummins,Volvo penta,Perkins or equivalents as approved.	Category 1
6	Alternator	Stamford, LeroySomer,KEL,KOEL or equivalents as approved.	Category 1
7	11kV XLPE Al. Cable	RPG,KEI,Polycab,Havells, Unistar or equivalents as approved.	Category 1
8	1.1 kV grade XLPE insulated PVC sheathed Al./Cu. Cable	RPG,KEI,Polycab,Havells or equivalents as approved.	Category 1
9	ACB	Siemens(3WL), Schneider(Master Pact), L&T(U Power omega), ABB (Emax) or equivalents as approved.	Category 2
10	MCCB for panels	Siemens(3VL), Schneider(Compact NSX), L&T(D SINE), Havells (HIM) or equivalents as approved.	Category 2
11	MCCB for DB & VDB	Siemens, Schneider, L&T(D SINE), Havells (HIM),Legrand or equivalents as approved.	Category 2
12	Capacitor Banks	L&T, Saha Sprague, Schneider, Epcos or equivalents as approved.	Category 1
13	Starters, Timer & Contactors	Siemens, L&T, Schneider, ABB or equivalents as approved.	Category 3
14	Push Buttons	Schneider, Siemens, L&T or equivalents as approved.	Category 4
15	LT PANEL (OEM & Type tested IEC 61439-1&2)	ABB, Schneider, Siemens, L&T, or Type tested Panel manufacturer as per IEC 61439-1&2)	Category 1
16	Indicating lamps (LED type)	Tecnic, Schneider, Siemens, L&T, C&S or equivalents as approved.	Category 3
17	Indicating meters	AE, MECO, L&T, Schneider, Secure or equivalents as approved.	Category 3
18	Relays	Siemens, L&T, Schneider, Woodward or equivalents as approved.	Category 2
19	Potential Transformer	AE, Intrans, Kappa, L&T or equivalents as approved.	Category 3
20	Current Transformer	AE, Intrans, Kappa, L&T or equivalents as approved.	Category 3
21	Selector switches	Tecnic, Schneider, Kaycee, L&T, Reco,Salzer or equivalents as approved.	Category 4
22	Sandwich Bus duct	Schneider,L & T,Legrand (Zucchini),Siemens or equivalents as approved.	Category 1
23	660/1100 volt grade stranded unsheathed wire with copper conductor- Premium range	RR Kabel, Polycab,Havells or equivalents as approved.	Category 2
24	660/1100 volt grade stranded unsheathed wire with copper conductor- Medium range	V-guard,Standard,Traco or equivalents as approved.	Category 2
25	Cable glands, lugs, End termination kits	Lapp Kabel,Multipressings,Dowells, Comet,Jaison or equivalents as approved.	Category 3
26	SMF Batteries	Bosch,Amaron,Panasonic or equivalents as approved.	Category 3
27	HT/LT Termination	Raychem, Multishrink, 3M or equivalents as approved.	Category 3
28	LED Light Fittings	Philips(Indoor/outdoor),Wipro(Indoor/outdoor), Jaquar(outdoor), Osram (Indoor/outdoor), Havells (Indoor/outdoor) or equivalents as approved.	Category 2
29	LED Lamps	Osram,Philips ,Wipro,Havells or equivalents as approved.	Category 2
30	Modular type switches, sockets, bell push, fan regulator etc- Medium range	Honeywell (Blenz), Legrand (Myrius), Wipro - North West (Nowa), Schneider (Opale),Crab Tree(Verona),ABB (Tvisha) or equivalents as approved.	Category 3
31	Modular type switches, sockets, bell push, fan regulator etc- Premium range	Legrand (Arteor), Panasonic (Vision), Schneider (Zencelo),Crab Tree(Amare) or equivalents as approved.	Category 4
32	Outdoor Enclosures, IP Rated	CAPE, Hensel,OBO Betterman or equivalents as approved.	Category 2
33	Occupancy Sensor	Wipro, Philips, Siemens,Schneider or equivalents as approved.	Category 2
34	MCB, RCCB,RCBO	Legrand, Siemens, Schneider,L&T,Havells(STADX) or equivalents as approved.	Category 2
35	MCB Distribution Boards-Premium Range	Legrand, Siemens, Schneider,L&T or equivalents as approved.	Category 2
36	MCB Distribution Boards-Medium range	IndoAsian,Standard,Havells or equivalents as approved.	Category 2



MATERIAL LIST			
PART 3 - ELECTRICAL WORKS			REVISION - R3
Sl.No	Item Description	Make of Materials/Equipment	
37	Metalclad plug/socket/Decontactor	Legrand, Siemens, Schneider,L&T or equivalents as approved.	Category 3
38	Industrial socket with sheet steel enclosure with MCB	Legrand, Siemens, Schneider, L&T or equivalents as approved.	Category 4
39	Change Over Switch	Legrand, Siemens, Schneider,L&T or equivalents as approved.	Category 3
40	Timer	Legrand, Siemens, Schneider,L&T or equivalents as approved.	Category 2
41	Lightning Conductor	OBO Betterman , CAPE, Dehn or equivalents as approved.	Category 3
42	Surge protection devices	Raycap,Schneider,Siemens,OBO Betterman or equivalents as approved.	Category 3
43	FRP Cable tray, panel board	Ercon,Sumip, Hensel, Cape or equivalents as approved.	Category 3
44	Synthetic Insulating Mats	CPRI certified for required voltage level or equivalents as approved.	Category 2
45	Ceiling fans/Wall fans	Usha, Crompton, Atomberg, Havells,Orient electric or equivalents as approved.	Category 3
46	Exhaust fans/Ventilating fans	Usha, Crompton, Havells, Almonard, Bajaj,Orient electric or equivalents as approved.	Category 2
47	PVC Conduit	Precision ,Balco,Clipsal,(with ISI mark) or equivalents as approved.	Category 3
48	GI conduit	Any ISI marked.	Category 3
49	Outdoor Junction boxes	Cape, Spelsberg, Hensel,OBO Betterman or equivalents as approved.	Category 3
50	UPS	Emerson, Eaton, APC,SOCOMEK or equivalents as approved.	Category 2
51	Street light poles	Bajaj, K-Lite, CG,Keselec or equivalents as approved.	Category 3
52	G.I Cable Tray	OBO Betterman / Indiana / Profab Engg or equivalents as approved.	Category 3
53	M.S Cable Tray	OBO Betterman / Indiana / Profab Engg or equivalents as approved.	Category 3
54	GI Under floor trunking / metallic pop up outlet	Legrand, OBO Betterman ,Honeywell or equivalents as approved.	Category 3
55	Unperforated cable tray/ PVC under floor duct	Honeywell, OBO Betterman , Legrand or equivalents as approved.	Category 3
56	Elevators	Kone, Otis, Schindler,Mitsubishi,Thyssen Krupp or equivalents as approved.	Category 2

CATEGORY REQUIREMENT OF TEST CERTIFICATE / INSPECTION

CATEGORY -1:

- a) Type test certificate for similar item done if not, one of the items offered to be type tested.
- b) OEMs routine test certificate.
- c) Acceptance test to be conducted in the presence of SCTL/PMC representative at OEMs factory.

CATEGORY-2:

- a) Type test certificate for similar item done if not, one of the items offered to be type tested.
- b) OEMs routine test certificate.
- b) Visual and functional check by SCTL/PMC official at site.

CATEGORY -3:

- a) OEM / Dealer/ Contractor routine test certificate.
- b) Visual and functional check by SCTL/PMC official at site.

CATEGORY -4:

- b) Visual and functional check by SCTL/PMC official at site.

