

TECHNICAL SPECIFICATION FOR LED TUBE LIGHT 18-20Watts			VENDOR TO PROVIDE
1	Input voltage	: 100V to 240 V	Vendor has to confirm
2	LDE lamp efficacy	: Equal or greater than 110 lumens/watt	Vendor has to confirm
3	Energy efficiency Lable	: A grade	Vendor has to confirm
4	Power factor	: >0.95	Vendor has to confirm
5	Life period	: Equal or greater than 40,000 hours	Vendor has to confirm
6	Rated watt	: 18-20 W (cool day white)	Vendor has to confirm
7	Luminous flux	: Equal or greater than 1980 lumens	Test Certificate Has to be provided
8	Working Humidity	: 10% to 90%	Vendor has to confirm
9	Colour Temperature	: 6500 to 7,000 K	Test Certificate Has to be provided
10	Ingress protection	: IP 20	Test Certificate Has to be provided
11	Total harmonic distortion (THD)	: < 10%	Test Certificate Has to be provided
12	Colour rendering index	: Equal or greater than 80	Vendor has to confirm
13	Working Temperature	: 20 deg to 45 deg C	Vendor has to confirm
14	Average lighting/ beam angle	: Equal or greater than 150 deg	Vendor has to confirm
15	Lamp starting time	: Not more than 0.5 sec	Vendor has to confirm
16	Protection	: Over Load, Over Current, Short Circuit , high voltage and Surge Protection	Vendor has to confirm
17	System power efficiency	: > 95 %	Test Certificate Has to be provided
18	Luminary Casing	: UV stabilised polycarbonate diffusers or Tempered glass diffusers	Vendor has to confirm
19	LED thermal management	: LED shall be mounted on heat sink conductive aluminum with fins to dissipate the heat to ambient air	Vendor has to confirm
20	Warranty	: 1 Years	Vendor has to confirm
21	Driver board	:Details shall be given for getting spare or vendor must ensure for providing driver board after warranty period is over	Vendor has to confirm