

## **SECTION –7**

### **Technical specification for LED fixtures**

<b>Sl.No</b>	<b>Parameter</b>	<b>Specification for outdoor light</b>	<b>Specification for indoor light</b>
1	Efficiency of LED fixture ( Efficacy)	Min 95 lumen/watt	Min 95 lumen/watt
2	Life of LED fixture	Not less than 50000 burning hours	Not less than 50000 burning hours.
3	Approved make of LED	Nichia/Cree/Osram/Philips( Lumiled)/Sharp/Seoul/	Nichia/Cree/Osram/Philips(Lumiled)/Sharp/Seoul
4	CRI (Color rendering Index)	Min 70	Min 80
5	THD (Total Harmonic Distortion)	Less than 10%	Less than 10%
6	Voltage range	140 V to 270 V	140 V to 270 V
7	Type of housing	High pressure die cast Aluminium/standard alloy for outdoor applications	Extruded aluminium/ /standard alloy
8	IP Category	>= IP 65	>= IP 20
9	Surge protection	> 4 kV	> 2 kV
10	Labeling and identification mark	Manufacturer's name/logo shall be engraved/embossed on housing/ body or on aluminium plate labels or screen printed on housing/body	Manufacturer's name/logo shall be engraved/embossed on housing/ body or on aluminium plate labels or screen printed on housing/body
11	Warranty period	5 year warranty from actual date of completion of work on complete luminaire including driver/control gear, LED, all accessories etc.	5 year warranty from actual date of completion of work on complete luminaire including driver/control gear, LED, all accessories etc.
12	Power factor	Equal to 0.95 or more	Equal to 0.95 or more
13	Total power consumption of fitting	Not more than 110% of rated capacity of LED light fitting	Not more than 110% of rated capacity of LED light fitting
14	Undertaking from OEM on make of LED chip used	Required	Required

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