

TECHNICAL SPECIFICATIONS

ANNEXURE - I

1. TECHNICAL PARAMETERS - LED FLOOD LIGHT FITTING:

| S.No. | TECHNICAL PARAMETER | OUTDOOR LIGHT |
|-------|--|--|
| 1 | Efficiency of LED light fitting (Efficacy) | Min 110 Lumens/Watt |
| 2 | Life of LED light fitting | Not less than 50000 burning Hours |
| 3 | Approved make for LED | Nichia/Cree/Osram/Phillips (Lumiled) / Sharp/Seoul/Everlite/Citizen(Japan)/ Bridgelux(USA)/Samsung. |
| 4 | CRI(Colour Rendering Index) | Min 70 for outdoor applications. |
| 5 | THD (Total Harmonic Distortion) | Less than 10% |
| 6 | Voltage Range | 140V to 270V |
| 7 | Type of Housing | High pressure die cast aluminium/Standard alloy for outdoor applications. |
| 8 | IP Category | ≥IP65 |
| 9 | Surge Protection | >4KV |
| 10 | Labeling/identification Mark | Manufactures Name / Logo shall be engraved / Embossed on housing / body or on aluminum plate Labels or screen printed on housing / body. |

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| 11 | Warranty Period | 5 years 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 |
| 13 | Total Power consumption of fitting | Not More than 110 % of rated capacity of LED Light Fitting. |
| 14 | Approved make of Driver | Meanwell / Inventronics/C&S/Moso Power/ BAG/ Phillips/Wipro/ Osram/Bajaj/Pharos/Fulham/ Helver/ OEM of Light Fixture |
| 15 | Type of Driver | Enclosed/Encapsulated |
| 16 | Efficiency of Driver | $\geq 85\%$ |
| 17 | BIS Registration | All luminaries & drivers shall be BIS registered |
| 18 | Housing thickness | Housing of luminaires shall $\geq 0.5\text{mm}$ for CRCA or 1mm for extruded aluminium or 1.5mm for PDC aluminium or heavier if so required to meet the application requirement. |
| 19 | IK Rating | IK 07 or above |
| 20 | LED Binning (Standard Deviation Colour Matching) | < 5 (SDCM) |
| 21 | Unified Glare Rating(UGR) | NA |