

HW8419911267 : HIGH BAY LED LUMINAIRE IN PRESSURE DIE CAST AL. HOUSING WITH HEAT RESISTANT TOUGHENED GLASS / GLASS LENS COVER, SYSTEM LUMENS  $\geq$  15000, POWER  $\leq$  150W, VOLT: 220VAC $\pm$ 10%, 50HZ, CCT  $\geq$ 5000K, INTEGRATED OPTICS, IN-BUILT FIELD REPLACEABLE ELECTRONIC DRIVER. (AS PER ANNEXURE EM-3/1)

OFFERED MAKE : \_\_\_\_\_, MODEL : \_\_\_\_\_

| S.No. | Parameter                                                                                                                                                                                                                                                                                       | Offered / Complied by Vendor | Remarks/ Deviation if any. |
|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|----------------------------|
| 1.    | <b>System Wattage :</b> Maximum 150W                                                                                                                                                                                                                                                            |                              |                            |
| 2.    | <b>Total System Lumens :</b> 15000 or more                                                                                                                                                                                                                                                      |                              |                            |
| 3.    | <b>Operating Voltage :</b> 220 VAC $\pm$ 10%, 50 Hz                                                                                                                                                                                                                                             |                              |                            |
| 4.    | <b>CCT :</b> 5000 K or more                                                                                                                                                                                                                                                                     |                              |                            |
| 5.    | <b>Housing :</b> Pressure Die Cast Aluminium Housing                                                                                                                                                                                                                                            |                              |                            |
| 6.    | <b>Cover:</b> Heat Resistant Toughened Glass Cover/Glass Lens Cover.                                                                                                                                                                                                                            |                              |                            |
| 7.    | <b>Driver :</b> In-Built, Field Replaceable Electronic Driver                                                                                                                                                                                                                                   |                              |                            |
| 8.    | <b>Mounting:</b> Single Point Hanging Type Roof Mounting with Eye Bolt or J-Hook. All mounting items required for mounting to be supplied by the Vendor.                                                                                                                                        |                              |                            |
| 9.    | <b>Acceptable LED Chip Make:</b> Cree / Nichia / BridgeLux / Philips Lumileds / Osram / Toshiba                                                                                                                                                                                                 |                              |                            |
| 10.   | <b>Luminaire Test Report:</b> The complete Luminaire should confirm LM-79 test report for all relevant parameters like Power, System Lumen, Voltage, CCT, CRI, PF Etc. The Vendor should submit the LM-79 Test Report of the Offered Model from NABL / Govt. approved Lab along with the offer. |                              |                            |
| 11.   | <b>LED Test Report:</b> The LED Chip should confirm LM-80 test report for all relevant parameters. The Vendor should submit the LM-80 Test Report from LED Chip Manufacturer along with the offer.                                                                                              |                              |                            |
| 12.   | <b>Warranty:</b> on site replacement warranty of 30 Months warranty from the date of dispatch or 24 Months from the date of acceptance of material at BHEL, Haridwar whichever is earlier. Warranty should be on complete supplied unit.                                                        |                              |                            |
| 13.   | <b>Catalog:</b> Vendor to submit technical Catalog of the offered model along with the offer.                                                                                                                                                                                                   |                              |                            |

(Signature & Stamp of the Vendor)

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## Annexure EM-3/2

HW8419911275 : HIGH BAY LED LUMINAIRE IN PRESSURE DIE CAST AL. HOUSING WITH HEAT RESISTANT TOUGHENED GLASS / GLASS LENS COVER, SYSTEM LUMENS  $\geq 8000$ , POWER  $\leq 90W$ , VOLT: 220VAC  $\pm 10\%$ , 50HZ, CCT  $\geq 5000K$ , INTEGRATED OPTICS, IN-BUILT FIELD REPLACEABLE ELECTRONIC DRIVER. (AS PER ANNEXURE EM-3/2)

OFFERED MAKE : \_\_\_\_\_, MODEL : \_\_\_\_\_

| S.No. | Parameter                                                                                                                                                                                                                                                                                        | Offered / Complied by Vendor | Remarks/ Deviation if any. |
|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|----------------------------|
| 1.    | <b>System Wattage</b> : Maximum 90W                                                                                                                                                                                                                                                              |                              |                            |
| 2.    | <b>Total System Lumens</b> : 8000 or more                                                                                                                                                                                                                                                        |                              |                            |
| 3.    | <b>Operating Voltage</b> : 220 VAC $\pm 10\%$ , 50 Hz                                                                                                                                                                                                                                            |                              |                            |
| 4.    | <b>CCT</b> : 5000 K or more                                                                                                                                                                                                                                                                      |                              |                            |
| 5.    | <b>Housing</b> : Pressure Die Cast Aluminum Housing                                                                                                                                                                                                                                              |                              |                            |
| 6.    | <b>Cover</b> : Heat Resistant Toughened Glass Cover/Glass Lens Cover.                                                                                                                                                                                                                            |                              |                            |
| 7.    | <b>Driver</b> : In-Built, Field Replaceable Electronic Driver                                                                                                                                                                                                                                    |                              |                            |
| 8.    | <b>Mounting</b> : Single Point Hanging Type Roof Mounting with Eye Bolt or J-Hook. All mounting items required for mounting to be supplied by the Vendor.                                                                                                                                        |                              |                            |
| 9.    | <b>Acceptable LED Chip Make</b> : Cree / Nichia / BridgeLux / Philips Lumileds / Osram / Toshiba                                                                                                                                                                                                 |                              |                            |
| 10.   | <b>Luminaire Test Report</b> : The complete Luminaire should confirm LM-79 test report for all relevant parameters like Power, System Lumen, Voltage, CCT, CRI, PF Etc. The Vendor should submit the LM-79 Test Report of the Offered Model from NABL / Govt. approved Lab along with the offer. |                              |                            |
| 11.   | <b>LED Test Report</b> : The LED Chip should confirm LM-80 test report for all relevant parameters. The Vendor should submit the LM-80 Test Report from LED Chip Manufacturer along with the offer.                                                                                              |                              |                            |
| 12.   | <b>Warranty</b> : on site replacement warranty of 30 Months warranty from the date of dispatch or 24 Months from the date of acceptance of material at BHEL, Haridwar whichever is earlier. Warranty should be on complete supplied unit.                                                        |                              |                            |
| 13.   | <b>Catalog</b> : Vendor to submit technical Catalog of the offered model along with the offer.                                                                                                                                                                                                   |                              |                            |

(Signature & Stamp of the Vendor)





## Annexure EM-3/3

HW8419911283 : HIGH BAY LED LUMINAIRE IN PRESSURE DIE CAST AL. HOUSING WITH HEAT RESISTANT TOUGHENED GLASS / GLASS LENS COVER, SYSTEM LUMENS  $\geq 3200$ , POWER  $\leq 40W$ , VOLT: 220VAC $\pm 10\%$ , 50HZ, CCT  $\geq 5500K$ , INTEGRATED OPTICS, IN-BUILT FIELD REPLACEABLE ELECTRONIC DRIVER. (AS PER ANNEXURE EM-3/3)

OFFERED MAKE : \_\_\_\_\_, MODEL : \_\_\_\_\_

| S.No. | Parameter                                                                                                                                                                                                                                                                                              | Offered / Complied by Vendor | Remarks/ Deviation if any. |
|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|----------------------------|
| 1.    | <b>System Wattage:</b> Maximum 40W                                                                                                                                                                                                                                                                     |                              |                            |
| 2.    | <b>Total System Lumens:</b> 3200 or more                                                                                                                                                                                                                                                               |                              |                            |
| 3.    | <b>Operating Voltage:</b> 220 VAC $\pm 10\%$ , 50 Hz                                                                                                                                                                                                                                                   |                              |                            |
| 4.    | <b>CCT:</b> 5000 K or more                                                                                                                                                                                                                                                                             |                              |                            |
| 5.    | <b>Housing:</b> Pressure Die Cast Aluminum Housing                                                                                                                                                                                                                                                     |                              |                            |
| 6.    | <b>Cover:</b> Heat Resistant Toughened Glass Cover/Glass Lens Cover.                                                                                                                                                                                                                                   |                              |                            |
| 7.    | <b>Driver:</b> In-Built, Field Replaceable Electronic Driver                                                                                                                                                                                                                                           |                              |                            |
| 8.    | <b>Mounting:</b> Single Point Hanging Type Roof Mounting with Eye Bolt or J-Hook. <b>All mounting items required for mounting to be supplied by the Vendor.</b>                                                                                                                                        |                              |                            |
| 9.    | <b>Acceptable LED Chip Make:</b> Cree / Nichia / BridgeLux / Philips Lumileds / Osram / Toshiba                                                                                                                                                                                                        |                              |                            |
| 10.   | <b>Luminaire Test Report:</b> The complete Luminaire should confirm LM-79 test report for all relevant parameters like Power, System Lumen, Voltage, CCT, CRI, PF Etc. <b>The Vendor should submit the LM-79 Test Report of the Offered Model from NABL / Govt. approved Lab along with the offer.</b> |                              |                            |
| 11.   | <b>LED Test Report:</b> The LED Chip should confirm LM-80 test report for all relevant parameters. <b>The Vendor should submit the LM-80 Test Report from LED Chip Manufacturer along with the offer.</b>                                                                                              |                              |                            |
| 12.   | <b>Warranty:</b> on site replacement warranty of 30 Months warranty from the date of dispatch or 24 Months from the date of acceptance of material at BHEL, Haridwar whichever is earlier. Warranty should be on complete supplied unit.                                                               |                              |                            |
| 13.   | <b>Catalog:</b> Vendor to submit technical Catalog of the offered model along with the offer.                                                                                                                                                                                                          |                              |                            |

(Signature & Stamp of the Vendor)

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*20/11/18*