

Table 6.3: Specifications of Monitored Type Self-contained Emergency Lighting

ITEMS	REQUIREMENTS
4. SPARE CAPACITY	<ul style="list-style-type: none"> i. Any Emergency lighting system should be able to expand its network during later stage of the building life and it should be considered during design stage. ii. 5% spare capacity shall be included when selecting the monitored type self contained emergency lighting system.
5. MONITORING FEATURES	<p><u>1. GENERAL</u></p> <ul style="list-style-type: none"> i. The control equipment, self contained luminaire and accessories shall be tested and approved by the laboratories as an assembly and as a “system” to be acceptable as Monitored Type self contained emergency lighting system. ii. System shall be addressable, self diagnostic and automatic testing of luminaires. iii. Control unit operating temperature for indoor application shall be 10⁰C TO 40⁰C. iv. For outdoor applications, operating temperature of the control unit shall be –34⁰C to 50⁰C. (or the maximum forecast outdoor temperature) <p><u>2. MONITORING</u></p> <ul style="list-style-type: none"> i. The load source shall be monitored for undervoltage and overvoltage on all of its ungrounded input lines. ii. Monitoring control unit shall automatically diagnose the health of batteries, battery output, luminary output level, circuit integrity. iii. Any abnormality in charging unit, mains supply, circuitry, low battery etc. shall be signaled as specific trouble indication on the control unit. <p><u>3. TESTING</u></p> <ul style="list-style-type: none"> i. All the connected self contained luminaries shall be able to be tested and perform ‘walk test’ through central monitoring unit. ii. A test feature shall be available that simulates failure of the mains power supply. <p><u>4. INTERFACE</u></p> <ul style="list-style-type: none"> i. Monitored type self contained system shall be interfaced with the Building Monitoring System, computer and the Fire Alarm control unit.
6. EXIT SIGNS	<ul style="list-style-type: none"> i. Where Exit signs are internally illuminated with self contained emergency lighting system (maintained type), the exit sign designs and specifications shall comply with Chapter 5. Exit Signs.
7. WIRING	<ul style="list-style-type: none"> i. Wiring of all the self contained luminaires into central monitoring unit shall not be required to be fire rated.
8. CROSS ZONING	<ul style="list-style-type: none"> i. Not required