

6.5. Fire Detection and Alarm System Acceptance Test

- 6.5.1.** The Fire Detection and Alarm System acceptance tests and criteria shall be as per **Table 8.16.**
- 6.5.2.** The acceptance tests required by **Table 8.16.** are minimum guideline. The complete tests shall be as per **Manufacturer's guidelines, NFPA 70, and NFPA 72.**

Table 8.16.: Acceptance Tests for Fire Detection and Alarm System

ITEM	REQUIREMENTS
1. DOCUMENTATION	<ul style="list-style-type: none"> i. Lead Consultant shall prepare pre-handover test reports, update drawings as per site conditions (prepare shop drawings), battery calculations, document all the manufacturer's design, installation and maintenance guidelines. ii. Prepare documentation for any performance based design approach was adopted. iii. Emergency plans and sequence of operation, sequence of alarm signals, sequence matrix shall be documented to be handed over to the owner.
2. ACCEPTANCE TESTS	<p><u>1. RESPONSIBILITY</u></p> <ul style="list-style-type: none"> i. Lead consultant shall carry out the following acceptance tests with Fire Detection and Alarm System contractors and other relevant contractors. <p><u>2. POWER SUPPLY</u></p> <ul style="list-style-type: none"> i. Primary Power and Secondary Power is available and satisfactory. ii. Batteries /UPS are of right rating and installed properly. iii. Primary Mains disconnect switch location and switch number is mentioned on drawing and inside FACP. <p><u>3. FACP</u></p> <ul style="list-style-type: none"> i. FACP location is as per approved drawings. ii. FACP controls are working, displays are satisfactory. iii. LAMP test of the FACP is satisfactory. iv. Remote annunciators are working and displays are satisfactory. <p><u>4. VISUAL INSPECTION OF INITIATING DEVICES</u></p> <ul style="list-style-type: none"> i. Detectors are installed as per approved locations and spacing. ii. Detectors are free of obstructions. iii. Detectors are at satisfactory distance from air diffusers, air movement areas. iv. Manual call points are installed near exits satisfactorily. v. Manual call points are installed at acceptable height. <p><u>5. VISUAL INSPECTION OF NOTIFICATION DEVICES</u></p> <ul style="list-style-type: none"> i. Notification devices are installed at proper heights and location. ii. Visible notifications are free of obstruction iii. Alarm audibility and visibility is clear and understandable. iv. Alarm notification is both in English and Arabic.