**APPENDICES**

These Appendices form part of the Agreement.

**GENERAL AREA TABULATION**

**BOH** - 2 793.1 sq.m.

**FOH** - 2 062.6 sq.m. (Includes Guestroom Corridors - 817.7 sq.m.)

**204 Hotel Rooms** - 3 764.1 sq.m. (On 4-16 Floors)

**Appendix 1: Scope of Services**

**General**

Fire and Life Safety design services include:

* General guidance on fire safety.
* Evacuation Strategy and means of escape.
* Fire detection/ alarm, escape signage, emergency lighting performance requirements.
* Structural fire resistance and compartment division principles/performance requirements.
* External and internal fire spread controls.
* Firefighting access facilities and systems on site and within buildings.
* Smoke management, automatic suppression and first aid firefighting requirements.

The fire strategy will address life safety requirements per applicable building codes.

* Fire and smoke models.
* Identification of code compliance issues

##  PHASE 1 | CONCEPT & SCHEMATIC DESIGN

**Scope**

* Architectural Design Review & Consultancy
* Review of Architectural Design
* Reporting and Correction of Architectural Design Incompliance
* Interdisciplinary coordination of architecture, structure, mechanical and electrical installations
* Interdisciplinary Design Consultancy
* Review of all the concept designs (structural, interior, mechanical, electrical, landscape, etc.) on the basis of Life & Fire Safety Requirements
* Review of all the calculations on the basis of Life & Fire Safety Requirements
* Reporting and Correction of Design Incompliance
* Life & Fire Safety Concept Design Phase Consultancy
* Providing Life & Fire Safety Basis of Design Report
* Interdisciplinary coordination
* Concept Design Compliance Sign-off
* Providing Deviation List from ----------------------------------- Standards
* Life & Fire Safety Systems Engineering Concept Design
* Fire Alarm & Detection System Drawings
* Automatic Sprinkler System Drawings
* Smoke Exhaust System Drawings
* Stairwell & Lift Pressurization System Drawings

**Deliverables**

* Architectural Concept Design Review Report
* Mechanical & Electrical Concept Design Review Report
* Life & Fire Safety Basis of Design Report
* Deviation List from -------------- Standards
* Fire Zoning Layouts
* Schematic Design Drawings Indicating Fire Zoning, Life Safety, Fire Fighting and Fire Alarms.
* Fire Fighting Systems Proposal.
* Fire Alarm Schematics.
* Fire Fighting Schematics.
* Fire Suppression Schematics.
* Life Safety Layouts.
* Emergency System Layouts.
* Wet and Dry Riser Layouts.
* Sprinkler System Layouts.
* Wet Fire Single Line Layouts.
* Fire Detection Layouts.
* Layout of all Pull Stations, Fire and Heat Detection, Main Annunciation Control and Remote Panels as required, Alarm Bells, Horns, Sirens, Public Address, Gas Shutdown and other design.
* Fire Central Control Room Layout.
* Fire Alarm Layouts.
* Dry System Layouts.
* Fire Water Storage for Key Areas.
* Extinguisher and hose cabinets.
* Outline MEP fire specification.
* Fire Safety Design Specifications and Schedules.

## PHASE 2 | DESIGN DEVELOPMENT PHASE

**Scope**

* Architectural Design Review & Consultancy
* Review of Detailed Architectural Design
* Reporting and Correction of Architectural Design Incompliance
* Providing Means of Egress and Fire Compartments Split Drawings
* Providing Egress Width Calculations
* Interdisciplinary coordination of architecture, structure, mechanical and electrical installations
* all documents/drawings and other documentarion must be complied with local and brand requirements
* Interdisciplinary Design Consultancy
* Review of all the detailed designs (structural, interior, mechanical, electrical, landscape, etc.) on the basis of Life & Fire Safety Requirements
* Review of all the calculations on the basis of Life & Fire Safety Requirements
* Reporting and Correction of Design Incompliance
* Life & Fire Safety Detailed Design Phase Consultancy
* Providing Life & Fire Safety Design Report
* Providing Life & Fire Safety Sequence of Operation and Scenario
* Interdisciplinary coordination
* Detailed Design Compliance Sign-off
* Providing Deviation List from ---------------------Standards
* Life & Fire Safety Systems Engineering Detailed Design (if requested, optional)
* Fire Alarm & Detection System Drawings
* Automatic Sprinkler System Drawings
* Hydraulic Calculations for Automatic Sprinkler System
* Smoke Exhaust System & Pressurization System Drawings
* Smoke Exhaust System & Pressurization System Flow Rate Calculations
* Life & Fire Safety Technical Specifications & Material Lists

**Deliverables**

* Drawings List.
* Life & Fire Safety Design Report
* Fire Zoning Layouts
* Means of Egress and Fire Compartmentation Drawings
* Egress Width Calculations
* Code, Life Safety and Fire Protection Summary
* Deviation List from ----------------- Standards
* Site plan indicating escape routes, assembly areas and entrances/exits.
* MEP Fire System Drawings.
* Fire Safety Design Specifications and Schedules
* Contribute to Specifications to Describe the Fire/ Life Safety Design Requirements.
* Construction Documentation Details, Schedule, Final Specifications, Final Calculations in coordination with all other disciplines.
* Plans, sections & elevations

## PHASE 3 | TENDER & DESIGN SUPERVISION

**Scope**

* Participate in the tender evaluation of the Fire & Life Safety packages of work, attending contractor interviews as required.
* Review of shop drawings, site visits to review the progress of the works and general conformance to the contract drawings, a substantial and final completion inspection and review of the contractor’s pay application.
* Review and approval of the Contractor’s design submissions including Final design, IFC, Shop Drawings and material submissions.
* Review and approval of contractor’s proposals and alternatives.
* Resolution of design queries as they arise from site.
* Advise on Contractor’s proposals relating to elements of Works designed by Consultant.
* Comment on Contractor’s method statements insofar as they reflect on design intent for Works.
* Advice on need for special inspections or tests during construction.
* Attendance at and witnessing of Fire & Life Safety tests and review of results.
* site visiting and inspection requirement

**Deliverables**

* Design and document integrations over the course of construction as may be required.