CHECKLIST FOR REVIEW OF FIRE FIGHTING & ALARM INSTALLATION

Building: _____ **Unit No:** _____

Tenant: _____

Contractor: _____

		Yes	NA	Comments by ACEPL
A	**DRAWING STANDARD**			
1.	All drawings are legible and drawn to scale in metric units with the scale used stated clearly on plan.	☐		
2.	All drawings are complete with title block indicating the details of the tenant and contractor/ID.	☐		
3.	All floor plans and sectional view are completed with appropriate gridlines.	☐		
4.	All amendments and addition/alteration works are indicated in distinct colour except for existing works.	☐		
5.	Activities/usages of all rooms/areas/compartments are indicated on floor plan.	☐		
6.	A complete legend of symbols, abbreviations and colour schemes of fire doors and fire protection installations are provided on plan.	☐		
7.	All plans are endorsed by the Professional Engineer (PE).	☐		
B	**SPRINKLER SYSTEM**	**Yes**	**NA**	
1.	All sprinkler head and pipes are indicated on plan complete with pipe sizes.	☐		
2.	Affected sprinkler control valve number and location indicated on the plans.	☐		
3.	Hydraulic calculation for sprinkler pipe pressure loss of the system submitted.	☐	☐	
4.	Area covered by affected sprinkler control valve does not exceed 9,000 sq m. for new sprinkled area.	☐	☐	
5.	2nd layer of sprinkler points provided at new false ceiling area.	☐	☐	
6.	Additional sprinkler points provided under M&E equipment/ permanent fixture/decoration more than 800mm width.	☐	☐	
7.	Sprinkler point provided with mechanical guard at low head room areas.	☐	☐	

		Yes	NA	Comments by ACEPL
8.	2nd layer sprinkler points tee-off from the provision by the Landlord's base fire contractor.	☐	☐	
9.	Temperature rating of sprinkler heads indicated.	☐		
10.	Existing concealed sprinkler layer have been adjusted due to erection of full height partitions to soffit of slab.	☐	☐	
11.	Exposed sprinkler point layout has taken into consideration differences in the ceiling height. Sections and ceiling height indicated on plan.	☐	☐	
C	**FIRE ALARM SYSTEM**	**Yes**	**NA**	
1.	All new/relocated smoke/heat detectors or manual call points are shown on plan c/w proposed zones.	☐		
2.	For conventional system, single line diagram of existing/new alarm panels are submitted together with new zone charts.	☐	☐	
3.	For addressable system, new detector/device layout and updated mimic panel are submitted.	☐	☐	
4.	Existing building fire alarm contractor/supplier engaged for connection of fire alarm system including testing & commissioning with building management.	☐		
D	**FIRE SUPPRESSION SYSTEM FOR OPEN FLAME COOKING**	**Yes**	**NA**	
1.	Plan drawing showing exhaust hood and cooking equipment with open flame c/w relevant section/elevations.	☐		
2.	Plan drawing showing fire suppression system which shall include:			
	a) Type and location of all discharge nozzles	☐		
	b) Piping layout c/w material, size and length	☐		
	c) Detection devices or fusible links c/w temperature ratings	☐		
	d) Manual pull stations, electrical disconnect, gas shut off locations c/w interfacing to building fire alarm system	☐		
	e) Gas/chemical tank location c/w volume and type	☐		
	f) Control panel dimensions and location	☐		
3.	Schematic drawing of system.	☐		
4.	Block diagram for Sequence of Operation.	☐		
5.	Calculations for the tank capacity and piping pressure loss c/w appropriate references from system supplier and acceptable code of practice.	☐		

		Yes	NA	Comments by ACEPL
E	**GAS/CLEAN AGENT FIRE EXTINGUISHING SYSTEM**		☐	
1.	Plan drawing showing extent of room protected c/w relevant section/elevations.	☐		
2.	Plan drawing showing fire extinguishing system which shall include:			
	a) Type and location of all discharge nozzles	☐		
	b) Piping layout c/w material, size and length	☐		
	c) Gas/clean agent tank location c/w volume and type	☐		
	d) Detection devices c/w zones	☐		
	e) Control panel dimensions and location	☐		
	f) Manual pull stations, warning signs, siren/bell/buzzer locations c/w interfacing to building fire alarm system	☐		
	g) Relieve dampers	☐		
3.	Schematic drawing of system.	☐		
4.	Block diagram for Sequence of Operation.	☐		
5.	Calculations for the tank capacity and piping pressure loss c/w appropriate reference from system supplier and acceptable code of practice.	☐		
6.	Post activation exhaust system.	☐	☐	
F	**PRE-ACTION SPRINKLER SYSTEM**	**Yes**	**NA**	
1.	Tap-off to be done at sprinkler main riser before the water flow switch.	☐		
2.	Location of pre-action valve accepted by building management c/w drainage provision.	☐		
3.	Schematic drawing of system.	☐		
4.	Block diagram for Sequence of Operation.	☐		

Contractor:	**Tenant:**
Name: **Contact No:**	**Name:** **Contact No:**