

Table 9.16: Clean Agent Systems Requirements

ITEMS	REQUIREMENTS
18. APPLICATION OF INERT GASES	<ul style="list-style-type: none"> i. Application of Inert Gas Agents shall comply with Table 9.16.E. ii. Inert gas agents are compressed and stored in very high pressurized containers. All containers shall be listed for such high pressures, allowable filling density and operating temperatures. iii. Inert gas containers shall not be located in the hazard they protect. The exposure to high temperatures of fires cause rupture and explosions of containers. iv. The rooms where inert gas containers are stored, shall be temperature controlled and protected with sprinklers or clean agents. v. The Inert Agents and their application acceptable to Civil Defence are based on EPA's SNAP (Significant New Alternatives Policy) program, as of October 2016. vi. The EPA continuously reviews and updates their policy of these alternate substitutes and same shall be adopted by Civil Defence based on their periodic evaluation of environmental and health risks, including factors such as ozone depletion potential, global warming potential, toxicity, flammability, exposure potential and acceptance in occupied spaces etc., of all the fire suppression agents. vii. Where EPA's SNAP or manufacturers comment or recommend any of the precautionary and safety measures such as <ul style="list-style-type: none"> a. Avoid unnecessary exposure b. Asphyxiation at high concentrations c. High CO₂ d. Low residual oxygen levels e. Container labels of potential hazard and handling procedures to reduce risk f. Only manual activation in occupied areas g. Install ventilation h. Immediate spillage cleaning in accordance with good hygiene practices i. Training of the personnel involved j. Eye wash, <p>for any clean agent, such installations shall not be acceptable in occupied spaces unless all of the additional justifications mentioned below are furnished to Civil Defence acceptance and approval.</p> <ul style="list-style-type: none"> a. NOC from concerned authority such as Municipality environment control department's disposal of hazardous wastes. b. NOC from concerned authority such as Health Authority which ensures that the clean agent is not toxic to humans and animals before and after release. c. Manufacturer's training certificate for the engineers and technicians who are involved in handling, installing, maintaining and servicing such clean agent installations.