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E-BOOK 09 BEGINNER EDITION

Fire Extinguishers, Home & Office Safety

Classes of Fire, Choosing Cylinders, Inspection Tags and Mock Drills

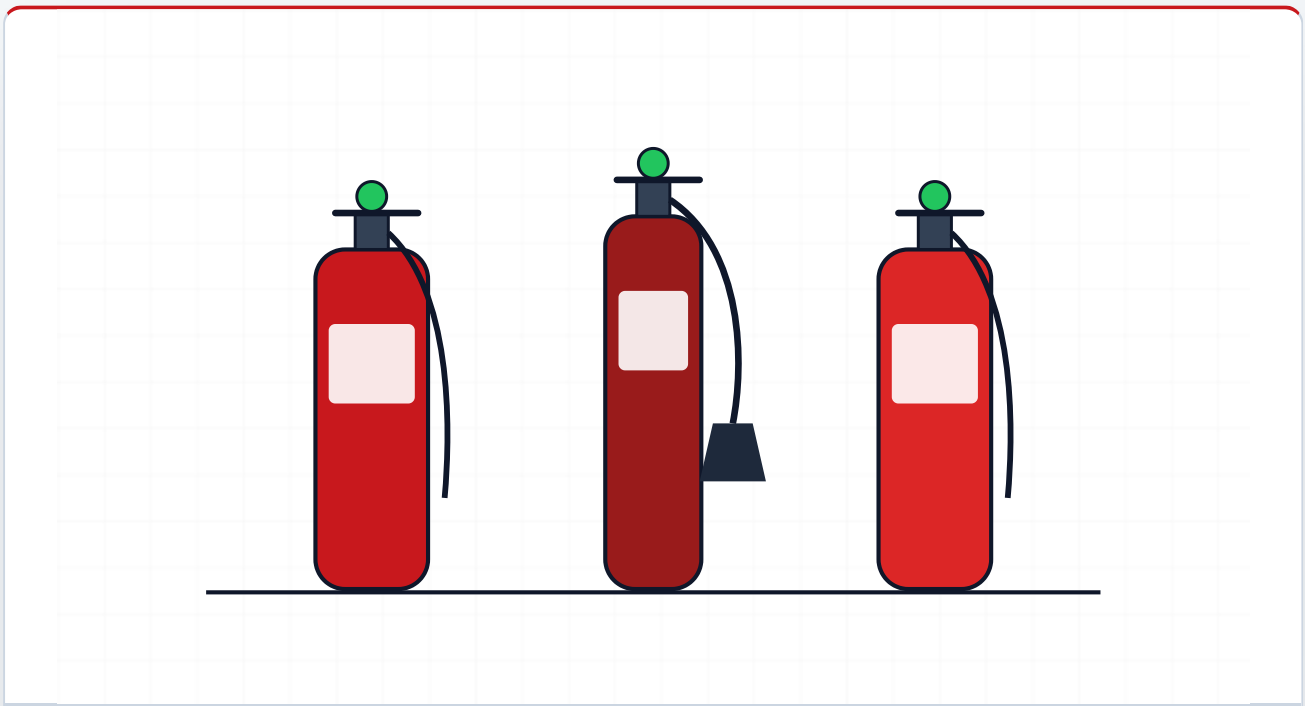


FIG 09.1 — ABC STORED PRESSURE, CO2 HORN & FOAM EXTINGUISHER CLASSES

SYLLABUS	CALCULATIONS	SITE READY
10 Structured Chapters	Worked SI Examples & Tables	Forms & Hinglish Glossary

Fire Extinguishers, Home & Office Safety

Classes of Fire, Choosing Cylinders, Inspection Tags and Mock Drills

An accessible, everyday safety manual for homeowners, office admins, schools, shops, and security teams covering classes of fire, IS 2190 portable extinguisher selection and mounting, the PASS operating technique, when to fight vs evacuate, kitchen/electrical/EV home hazards, gauge checks, and practical mock drill templates.

Intended Audience: Homeowners, RWA committees, office and shop managers, HR leads, school staff, security guards, and front-line workplace fire wardens.

Engineering Notice & Standards Policy

This publication is an educational and field-reference guide prepared by **Shree Ganesh Enterprises (SGE)**. It is **not** a substitute for a stamped project design, statutory approval, or the governing text of the National Building Code of India (NBC), Bureau of Indian Standards (BIS) codes, Indian Electricity Rules / CEA Regulations, or your State/Municipal Fire Service Bye-Laws. Standards are cited at document level; always verify the **current applicable edition**, manufacturer datasheets, and local amendments before design, procurement, testing, or certification.

Worked numerical examples across this book are illustrative engineering demonstrations. All design inputs, pipe friction factors, battery deratings, and protective clearances must be re-checked for project conditions by a competent licensed professional. High-voltage electrical testing, pump-room servicing, and gaseous fire suppression operations can be fatal if undertaken without qualified personnel, written Permits-to-Work, and Lockout-Tagout (LOTO) controls.

Roman-script Hindi/Hinglish site terms are included cleanly to assist execution teams; formal English engineering terminology governs contractual and code interpretations.

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What You Will Learn

- Identify Classes A, B, C, D, Electrical (E), and Cooking Oil (F/K) fires cleanly before picking a cylinder
- Match Water, Foam (AFFF), ABC Powder, CO2, Clean Agent, and Wet Chemical cylinders without deadly mistakes
- Calculate practical cylinder placement counts, mounting heights, and exit travel distances
- Operate any cylinder correctly using the PASS technique — and follow the 'waste-bin rule' for safe evacuation
- Eliminate silent home and office fire traps: LPG leaks, kitchen oil pans, overloaded extension strips, and EV charging
- Perform monthly cylinder gauge inspections and run timed 4-minute office evacuation mock drills

Chapter 1: Fire Behaviour for Everyone and Fire Classes

Why Water Can Make Some Fires Explode

Many household injuries happen not from the original spark, but because someone panics and throws a bucket of water onto a burning frying pan or sparkling electric main board. Understanding **classes of fire** takes five minutes and saves lives.

Fire grows fast: a tiny wastebasket spark can fill an entire bedroom with thick toxic black smoke inside **3 to 4 minutes**. Never spend precious seconds searching blindly—know what burns and which cylinder matches it!

Fire Class	Burning Fuel Type	Everyday Home & Office Examples	Safe Extinguishing Medium	NEVER USE THIS!
Class A	Solid ordinary combustibles	Wood, paper files, curtains, sofas, cardboard cartons	Water, Foam, ABC Dry Powder	—
Class B	Flammable liquids & melting solids	Petrol, diesel, thinner, paint, wax, kerosene	Foam (AFFF), CO2, ABC/BC Powder	**NEVER Water Jet** (splashes burning fuel!)
Class C	Flammable gases	LPG cylinder leak, PNG pipe leak, CNG, acetylene	**Shut Gas Valve First!**, Dry Powder	Water (doesn't stop invisible gas cloud!)
Class D	Combustible reactive metals	Magnesium, sodium, potassium, fine titanium swarf	Special Metal Dry Powder (TEC / Class D)	**NEVER Water or CO2** (explosive reaction!)
Electrical (Class E concept)	Energised live wires & boards	MCB distribution boards, AC motors, UPS racks, laptops	CO2, Clean Agent, Dry Powder	**NEVER Water or Foam** (fatal electrocution!)
Class F / K	Deep cooking oils & fats	Restaurant fryers, heavy commercial ghee kadai	Wet Chemical extinguisher, Metal Lid	**NEVER Water** (violently erupts into grease fireball!)

NOTE

Classifications and cylinder color markings depend on BIS code **IS 2190** and **IS 15683** (Indian standards) alongside international EN/NFPA labels. Read the clear pictorial fuel icons directly printed on each cylinder front label and confirm with current BIS editions!

HINGLISH

Class of fire = aag kis cheez se lagi hai uski pehchan. Live electrical fire = chalti bijli ke taar ya board mein aag (yahan paani bilkul nahi daalna hai!).

Chapter 2: Extinguisher Types, Colour Bands and Suitability Matrix

Decoding What Sits Inside Every Cylinder

Walk down any office corridor and you may notice red cylinders carrying different coloured identification bands or nozzle tips. Don't look only at the outer red paint—read the **Agent Name** and **Black / Cream / Blue / Red label**:

Extinguisher Agent Type	Distinct Physical Clue on Site	Suitable Fire Classes	Key Field Pros & Cons
Water / Water Mist	Plain metal nozzle / wide lever; **Red label**	**Class A only** (Wood, paper)	Cheap, clean cooling; **deadly on live wires/oil!**
Mechanical Foam (AFFF)	Long aerated foam aspirating horn; **Cream label**	**Class A & B** (Liquid spills)	Forms smothering film over diesel/petrol; conducts electricity!
ABC Dry Chemical Powder (MAP)	Narrow conical tip nozzle + pressure gauge; **Blue label**	**Class A, B, C & Electrical**	Best multi-purpose starter unit! Leaves thick sticky powder cleaning mess on servers
Carbon Dioxide (CO2)	**NO pressure gauge!** Thick wide hard black plastic flare horn; **Black label**	**Class B & Electrical**	Zero residue on servers/panels! **Watch out: freezes bare hands (hold insulated grip!), suffocates tiny sealed rooms!**
Clean Agent (e.g., HFC / FK gas)	Pressure gauge + metal narrow nozzle; **Green/Teal label**	**Class A, B & Electrical**	Best clean protection for server racks & medical scanners; zero dust, safe hold
Wet Chemical	Long stainless lance spray wand; **Canary Yellow label**	**Class F/K Kitchen Oils** + A	Converts hot cooking grease rapidly into cool non-flammable foam soap layer!

HINGLISH

Pressure gauge = cylinder ke upar laga chhota dabav meter (CO2 cylinder mein yeh meter nahi hota—use wajan tol kar check karte hain). Horn = CO2 cylinder ke aage laga kaala bhopu.

Chapter 3: Selection, Sizing, Mounting Height and Travel Distance

Where Cylinders Belong (Not Hidden Behind Filing Cabinets!)

Even the cleanest ABC cylinder fails if locked inside a pantry cupboard or too heavy for a receptionist to lift off high hooks!

- **Ergonomic Mounting Height:** Hang top valve handle at comfortable chest/shoulder level (**~1.0 m to 1.2 m** above floor for heavy 6–9 kg units, slightly higher ~1.5 m max for light 2–4 kg cylinders; bottom clear of floor mopping water!).
- **Exit Path Placement:** Mount directly beside exit doors and corridors so someone grabs a cylinder **with their back safely toward the exit**, never trapped deep inside a dead-end room!

- **Clear Photoluminescent Sign Directly Above:** Visible cleanly over office partition cubicles.

WORKED EXAMPLE 1

Office Floor Extinguisher Placement Count (Illustrative). Assume an open commercial office measures **800 m2** (`40 m x 20 m`), plus a dedicated electrical LT panel room and small hot tea/fryer pantry. Using an illustrative office planning assumption of ~200 m2 general area per multi-purpose unit and <= 15 m travel distance (verify exact table numbers against **IS 2190** / local NOC rules!):

General Office Area Units = `800 m2 / 200 m2 = 4 units` of **4 kg or 6 kg ABC Dry Powder** spaced near both exit doors and central columns. Add Specialized Electrical Hazard: **2 x 4.5 kg CO2** cylinders mounted directly outside/inside the Electrical DB panel bay. Add Kitchen/Pantry (if commercial fryer operates): **1 x Wet Chemical** (or ABC/Clean Agent for light induction pantry) + 1 Fire Blanket. Result: Total **6 to 7 well-positioned units** covering every hazard without leaving blind dead zones!

Chapter 4: Step-by-Step Operation (PASS) and Fight vs Evacuate Rules

Learn PASS Before You Ever Unpin a Cylinder

Every portable extinguisher operates cleanly using four intuitive words (**P-A-S-S**):

1. **P — PULL** the metal safety pin breaking the thin plastic tamper seal cleanly (twist gently first to snap seal!).
2. **A — AIM** the rubber hose/horn strictly at the **BASE OF THE FLAMES** (shooting high smoke flames achieves nothing—attack the fuel surface!), standing ~2 to 3 metres back with an open exit cleanly behind you!
3. **S — SQUEEZE** the upper carrying lever down firmly while holding the base steady.
4. **S — SWEEP** the nozzle smoothly side-to-side across the burning fuel edge until flames die—then step slowly backward watching closely for hot re-ignition!

When NOT to Fight — Evacuate Immediately!

WARNING

Use the **"Waste-Paper Bin Rule"**: If a fire has grown larger than an ordinary office dustbin, fills the ceiling with thick dark choking smoke, blocks your exit behind you, or involves pressurized LPG cylinders venting flames -> **DO NOT TRY TO BE A HERO! Drop the cylinder, shout "FIRE!", hit the nearest Manual Call Point (MCP), shut the room door gently behind you to slow smoke, and EVACUATE immediately via stairs!** Never hold bare metal CO2 discharge horns without insulated gloves—sub-zero dry ice causes instant severe frostbite burns!

HINGLISH

PASS formula = Pin kheenchho, Nishana base par lagao, Handle dabao, Aur Jhadu ki tarah ghumao. Waste-bin rule = agar aag ek dustbin se badi ho chuki hai toh ladne ke bajaye turant bahar bhaago!

Chapter 5: Monthly Visual Inspection, Pressure Gauges, Refilling and Hydro-Testing

Is That Cylinder Hanging on Your Wall Actually Alive?

An uninspected extinguisher is a ticking liability: compacted chemical cake inside old powder bottles turns rock-solid, leaking rubber valve seals let nitrogen pressure escape quietly overnight, and corroded bottoms explode during panic squeezing!

Monthly 30-Second Cylinder Checklist

☐ **Accessible & Unblocked:** No cardboard cartons, mops, or furniture hiding cylinder or wall sign.

☐ **Gauge Needle Inside GREEN Zone:** (For stored-pressure ABC/Foam/Water/Clean Agent). Red Left = depressurized/empty (re-service immediately!); Red Right = overcharged!

☐ **Tamper Seal & Safety Pin Intact:** Plastic loop unbroken confirming nobody triggered half the bottle cleanly without logging it.

☐ **Nozzle & Rubber Hose Clear:** No spiders, mud wasp nests, cracked rubber, or missing CO2 horn!

☐ **Cylinder Weight Check (For CO2 Bottles):** Weigh annually on calibrated scale—check stamped Gross vs Tare/Empty stamp on brass neck; if net CO2 loss exceeds ~10%, refill immediately!

☐ **Invert Powder Cylinders Gently Annually/Quarterly?** Check OEM/AMC guide—fluffing settled powder slightly or proper authorized servicing prevents hard bottom-caking!

☐ **Statutory Refill & Hydrostatic Pressure Testing:** Follow current **IS 2190** recharge and high-pressure hydrotest schedules strictly via an approved licensed workshop—never paint over corroded bottom pits!

> **HINGLISH**
> Green zone needle = meter ki sui hare hisse mein rehni chahiye (laal mein hone par dabav khatam hai). Annual weighing = CO2 bottle ko har saal kaante par tol kar dekhna.

Chapter 6: Room-by-Room Home Fire Safety (Kitchen, LPG, Bedroom, EV & Inverters)

Protecting Your Family While You Sleep

90% of fatal home fires happen late at night when families are asleep, triggered by simple overlooked traps:

1. **Kitchen & LPG Hygiene:**
   - Shut main **LPG regulator knob OFF** every night before bed—never leave rubber hose under cylinder pressure overnight!
   - Replace cracked orange/braided LPG hose promptly every 2–3 years; verify zero matches/lighters near kids; never use thin synthetic curtains blowing directly across open stove burners!
   - **Burning Oil/Ghee Pan on Stove: NEVER carry a burning pan toward the sink tap!** Calmly turn gas knob OFF, slide a flat metal pot lid or fire blanket horizontally across pan rim to starve oxygen, and leave covered until totally stone cool!

2. **Bedroom & Electrical Strips:**
   - Never plug room heaters, electric kettles, irons, or geysers into cheap flimsy multi-pin plastic power strips (overloaded loose contacts ignite wooden bedheads silently at 2 AM!).
   - Keep **standalone 9V/10-year Battery Photoelectric Smoke Alarms** mounted cleanly in living hallways and bedrooms—wakes sleeping families before toxic smoke knocks them unconscious!
3. **Inverter Batteries & Two-Wheeler EV Charging Traps:**
   - Ventilate lead-acid inverter corners safely away from sparks (charging releases explosive hydrogen traces!).
   - **Never charge Lithium-Ion Electric Scooters/Bikes overnight inside narrow locked home staircases or right beneath sleeping bedroom doors!** Use properly earthing-tested outdoor/ventilated sockets with timer cutoff and certified OEM chargers cleanly away from exit paths!

> **FIELD TIP**
> Memorize your country's primary Fire Emergency Helplines (**101** / unified **112** across India) and display them boldly beside kitchen landlines and building gates.

Chapter 7: Office, Shop and Warehouse Practical Fire Hygiene

Zero-Cost Habits That Cut Risk in Half

- Keep **minimum 1.0 m clear aisles** across all storage racks and electrical panel fronts—never store stationary cartons directly against floor DB cabinets!
- Enlist thermal cut-outs on tea-pantry kettles; switch off non-essential PCs/heaters cleanly at day end.
- Segregate flammable aerosol cans, thinners, and sanitizer drums inside steel cabinets cleanly away from hot grinder/welding maintenance sparks (enforce strict **Hot Work Permits** whenever contractors weld or grind inside occupied shops!).

Chapter 8: Evacuation Planning, Emergency Signage and Fire Warden Roles

Clear Command Prevents Stampedes

Without designated guides, terrified office staff run back toward desks to fetch laptop bags or blindly cram into elevators! Assign simple clear floor responsibilities:

Team Role	Primary Duty When Alarm Rings
Chief Fire Warden (Lobby/Admin)	Meets approaching Fire Brigade at gate, carries master floor headcount sheet & lift/pump keys
Floor Fire Warden (High-Vis Vest)	Walks corridor calmly shouting evacuation direction; **sweeps toilets, server nooks & closed cabins last!**
Assembly Point Marshal	Stands outdoors at safe open windward yard; ticks off department attendance sheets cleanly to prove zero staff trapped inside!
Electrical / Utility Isolator	Cuts non-essential building power/HVAC safely **WITHOUT cutting Fire Pump incomers!**

WORKED EXAMPLE 2

3-Storey Office Mock Drill Target Timeline (Illustrative). A three-storey office holds **120 employees**. Alarm sounder rings unannounced at **T = 00:00**:

- `00:00 – 00:35` : Staff stop work cleanly; do NOT grab bulky bags; exit via both left/right staircases (zero lift use!).
- `00:35 – 01:45` : Floor Wardens check washrooms/meeting rooms, shut wooden doors behind them (unlocked), and follow last employee down.
- `01:45 – 03:30` : Crowd moves well clear across main yard to safe marked Assembly Point Zone.
- `03:30 – 04:15` : Assembly Marshals complete department roll call confirming `120 / 120 Safe` in **4 minutes 15 seconds**! Log stragglers or broken hooter blind-spots immediately on debrief sheet!

Chapter 9: Running a Mock Drill + Register and Drill Report Templates

Practical Burn First-Aid Boundary Note (High-Level Only)

NOTE (NOT CLINICAL MEDICAL ADVICE)

For minor thermal skin burns, general basic first aid advises cooling gently under clean **cool (not icy) running water** for several minutes, never applying butter, toothpaste, oil, or popping blisters, covering loosely with sterile clean cloth, and seeking **immediate professional medical attention / ambulance** cleanly. For electric shock victims, isolate power safely BEFORE touching! Always obtain certified first-aid training for site responders.

WORKED EXAMPLE 3

Smart Annual Extinguisher Maintenance Rotation (Illustrative). A warehouse operates **25 ABC Powder** and **6 CO2** cylinders (`31 total`). Never send all 31 bottles out together on one van leaving walls empty for 5 days! Instead split inventory neatly into **Batch A (16 units)** and **Batch B (15 units)**—or insist your vendor leaves **100% standby loaner bottles** hanging on walls while yours go for IS 2190 statutory workshop refilling and hydraulic pressure tests!

Printable Extinguisher Monthly Register Template

Sl No.	Tag ID & Type/Cap	Exact Wall Location	Pressure Gauge Green?	Pin / Seal OK?	Next Refill / Hydro Due	Checked By & Date
01	`EXT-01` (ABC 6kg)	Reception Left Exit	[ ] YES	[ ] YES	//202_	_____
02	`EXT-02` (CO2 4.5kg)	Main LT Panel Room	Weight: ____ kg	[ ] YES	//202_	_____

Office Mock Drill Debrief Form

- **Date & Time of Drill:** `_____` | **Alarm Trigger Used:** `_____`
- **Total Occupants Evacuated:** `____ / ____` | **Total Time to Headcount Complete:** `____ mins ____ secs`
- **Issues Observed (Blocked corridor? Silent hooter room? Staff used lift?):** `_____`

Chapter 10: Quick-Reference Chart, FAQ and Hinglish Glossary

Fridge & Office Notice-Board Emergency Cheat Sheet

1. **See Smoke / Fire?** Break Glass MCP -> Shout **"FIRE!"** -> Call **101 / 112**.
2. **Small Dustbin Fire Only?** Grab Right Cylinder -> Back to Exit -> **PULL, AIM BASE, SQUEEZE, SWEEP**.
3. **Bigger Fire or Thick Smoke?** Leave Immediately! Stay Low Under Smoke! Shut Doors Behind! **NEVER USE LIFTS!**

Frequently Asked Questions (Home & Workplace)

1. **Can one 4 kg ABC cylinder put out an electrical room short circuit?** Yes safely (ABC powder is non-conductive for typical LT boards)—though **CO2 or Clean Agent** avoids corrosive chemical dust inside expensive circuit breakers! Clean powder off contacts thoroughly post-fire.
2. **Why should we turn an ABC powder cylinder upside down gently once a year?** Vibration settles loose dry chemical powder tightly inside the base; gentle inversion shakes cake dust lightly, though real clumped units need workshop nitrogen re-service.
3. **How do I check if a CO2 cylinder is full if it has NO pressure gauge?** Lift and read its **Tare (Empty) & Gross (Full) weight** stamped clearly near the brass neck ring, and weigh it on a clean bathroom/platform scale!
4. **Why does frost burn hands on a CO2 fire extinguisher?** Rapidly expanding liquid CO2 flashes to -78 C dry ice inside the plastic discharge horn—ALWAYS grip ONLY the insulated black plastic handle, NEVER the bare brass nozzle or cone!
5. **Do residential apartments really need Fire Blankets in home kitchens?** Highly recommended and inexpensive—wrapping a clean woven fiberglass **Fire Blanket** gently across a burning frying pot or someone's burning clothes smothers flames safely without toxic spray!

6. **Is a 1 kg mini car extinguisher strong enough for a full office floor?** No—car 1 kg bottles discharge inside ~6 seconds; offices and homes need solid **4 kg to 6 kg** ratings for meaningful attack duration.
7. **Should bedrooms have smoke detectors if nobody smokes?** Yes! Most nighttime bedroom fires start silently from overloaded phone/laptop chargers, mosquito coil embers, or AC stabilizer shorts while occupants sleep deeply.
8. **How often should families/offices practice mock drills?** Residential societies every 6–12 months; busy offices/schools/hospitals typically every **6 months** cleanly verifying alarm reach and roll-call speed.
9. **Can we repaint chipped red extinguishers with silver paint to match modern office decor? NEVER!** Statutory fire cylinders must stay recognizable emergency red with readable un-painted original label/testing codes intact!
10. **What if the extinguisher gauge points slightly above Green toward high Red?** Over-pressurized due to extreme direct afternoon sunlight baking an unshaded cylinder on an outdoor wall—fit sunshade box and get safety valve inspected!
11. **Does an ABC cylinder expire even if unused?** Stored pressure seals creep and powders clump over years—strict **IS 2190** refilling and pressure vessel hydrotest cycles maintain safe integrity!
12. **Who takes charge at the Assembly Point until Fire Brigade arrives?** The designated **Chief Fire Warden**, handing clear headcount verification ("2 staff missing near Floor 2 toilet!") directly to incoming fire officers!

Hindi–English Bilingual Glossary

English Term	Hinglish / Site Hindi	Everyday Meaning
Portable Fire Extinguisher	Aag bujhane wala chhota cylinder	Hand-carried first-aid cylinder
PASS Technique	Pin-Aim-Squeeze-Sweep tareeka	Standard 4-step operating sequence
Tamper Seal	Suraksha plastic lock patti	Thin band proving cylinder wasn't used secretly
Safety Pin	Lohe ki rok pin	Pin blocking accidental squeeze of trigger
Pressure Gauge	Dabav batane wala chhota meter	Dial showing green vs dead pressure zone
Discharge Horn	CO2 ke aage ka kaala bhopu	Insulated cone freezing fire with carbon dioxide
ABC Dry Powder	Neeli patti wala sukkha powder	Multi-purpose chemical powder stopping A/B/C/E fires
AFFF Foam	Cream patti wala jhaag	Film-forming foam smothering liquid oil fires
Wet Chemical	Kitchen ke tel ki aag ka cylinder	Soap-forming kitchen deep-fryer extinguisher
Clean Agent	Bina ganda kiye gas cylinder	Server-safe zero-residue extinguishing gas
Frostbite	Baraf jaisi thand se haath jalna	Severe freeze burn gripping bare CO2 cone
Tare Weight	Khali cylinder ka wajan	Stamped empty bottle kg on brass neck
Gross Weight	Poora bhare cylinder ka wajan	Weight checking full CO2 fill level
Hydro-Test	Paani ke dabav se bottle janch	Workshop burst-margin pressure safety test
Travel Distance	Cylinder tak pahunchne ki doori	Safe max walking steps to nearest bottle
Mounting Bracket	Deewar par taangne ki kundi	Heavy wall hook holding valve body safely
Fire Blanket	Aag rodhi fiberglass chadar	Woven sheet smothering pan/clothing flames
Smoke Alarm	Dhuen se bajne wala ghanti sensor	Standalone battery warning buzzer in rooms
Assembly Point	Surakshit jama hone ki jagah	Open yard safe zone far clear of flames
Fire Warden	Floor ki suraksha dekhne wala neta	Trained staff sweeping rooms during drill
Evacuation	Imarat khali karke bahar nikalna	Orderly non-lift exit progression down stairs
Mock Drill	Bachav ki nakli practice	Timed real-world emergency practice session
Debrief	Drill ke baad ki baatcheet	Short post-drill note fixing hidden bottlenecks
Hot Work Permit	Welding/grinding ki likhit anumati	Control stopping stray sparks igniting stock
Overload Socket	Ek board mein zyada load lagana	Primary electrical short-circuit ignition cause
LPG Regulator	Gas tanki ka dabav valve	Must shut OFF nightly before bed!

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COMPLETE 12-VOLUME SGE ENGINEERING LIBRARY

01 Fire Fighting System A to Z
02 Fire Protection Design Handbook
03 The Fire Pump House Manual
04 Pressure Switch & Pump Controller Field Manual
05 Sprinkler System Design Workbook
06 Fire Alarm Design & Cable Calculation Guide
07 Special Hazard Suppression Guide
08 Fire NOC & Building Approval Playbook
09 Fire Extinguishers, Home & Office Safety
10 Cable Sizing, LT Panel & Short-Circuit (kA) Guide
11 HT Cable Hi-Pot Testing & Fault Location
12 The Site Engineer's Calculation Handbook

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