IFFCO
DEVELOPED PROJECTS LLC
BUILDING A PROGRESSIVE TOMORROW

COMPANY PROFILE

ENGINEERED FIRE & SAFETY SOLUTIONS

ASSESSMENT | DESIGN | SUPPLY | INSTALLATION | TESTING & COMMISSIONING | MAINTENANCE

SAFER PEOPLE
STRONGER BUSINESSES



ABOUT IFFCO

Protection begins with the right engineering decision.

From assessment to maintenance, IFFCO delivers coordinated fire and safety solutions built around the actual risk of each facility.

ENGINEERING FIRST

Assess the building, occupancy, hazard, existing systems and project objectives before selecting equipment.

END-TO-END DELIVERY

Design, supply, installation, testing, commissioning, documentation and handover.

LIFECYCLE SUPPORT

New construction, rehabilitation, upgrades, corrective works and planned annual maintenance.

Our commitment

Practical, maintainable protection solutions aligned with the real risk of the facility - not a one-size-fits-all equipment list.



IFFCO
DEVELOPED PROJECTS LLC
BUILDING A PROGRESSIVE TOMORROW

HOW WE WORK

A complete fire protection lifecycle.

01 ASSESS

Site survey, risk review, existing-system condition and gap assessment.

02 DESIGN

Code-based engineering, calculations, layouts, cause & effect and technical selection.

03 SUPPLY

Approved equipment selected for performance, compatibility and maintainability.

04 INSTALL

Coordinated installation, interfaces, quality control and site supervision.

05 TEST

Testing, commissioning, integrated cause & effect verification and handover.

06 MAINTAIN

PPM, inspections, fault rectification, upgrades and annual maintenance support.

IFFCO
DEVELOPED PROJECTS LLC
BUILDING A PROGRESSIVE TOMORROW

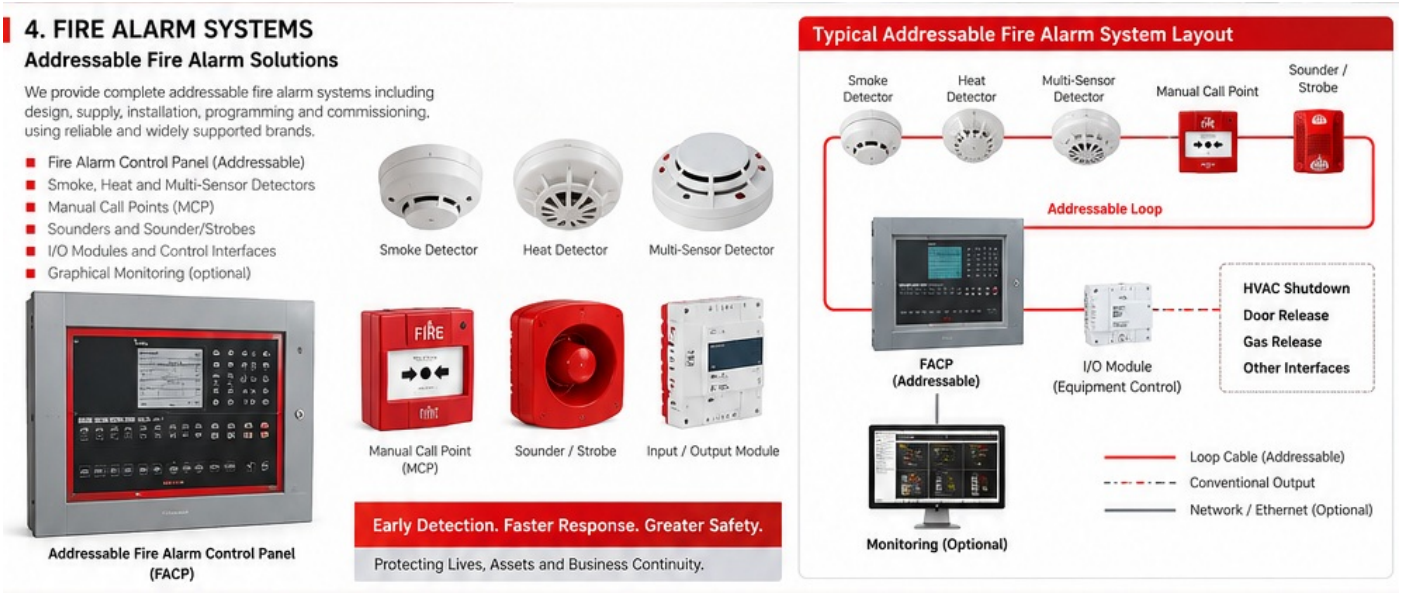
HOTELS • RESIDENTIAL • COMMERCIAL

Life safety that works quietly in the background.

Integrated fire alarm and water-based firefighting systems designed around occupancy, architecture, evacuation and operational continuity.

ADDRESSABLE FIRE ALARM SYSTEM

FACP, smoke/heat/multi-sensor detectors, MCP, sounder/strobe, I/O modules and monitored interfaces.



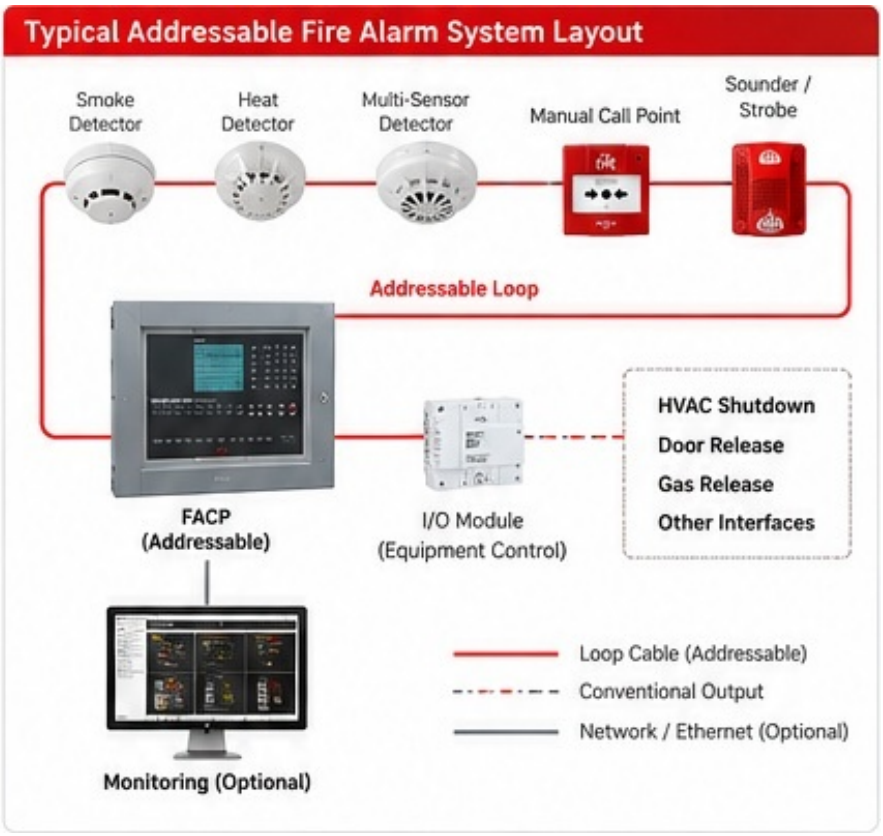
- Automatic sprinkler systems, hose reels, fire pumps, hydrants and associated valves.
- Portable extinguishers selected by hazard: water, foam, dry powder, CO2 and wet chemical where applicable.

IFFCO
DEVELOPED PROJECTS LLC
BUILDING A PROGRESSIVE TOMORROW

SYSTEM ARCHITECTURE

Typical addressable fire alarm architecture.

An illustrative concept showing how field devices, the addressable loop, the FACP and building interfaces work together.



- Field devices: smoke / heat detectors, manual call points and sounder/strobes.
- Addressable loop: supervised communication with individual device identification.
- FACP: alarm processing, zoning, event display and system control.
- Interfaces: HVAC shutdown, fire doors, lifts and clean-agent releasing interfaces as required.

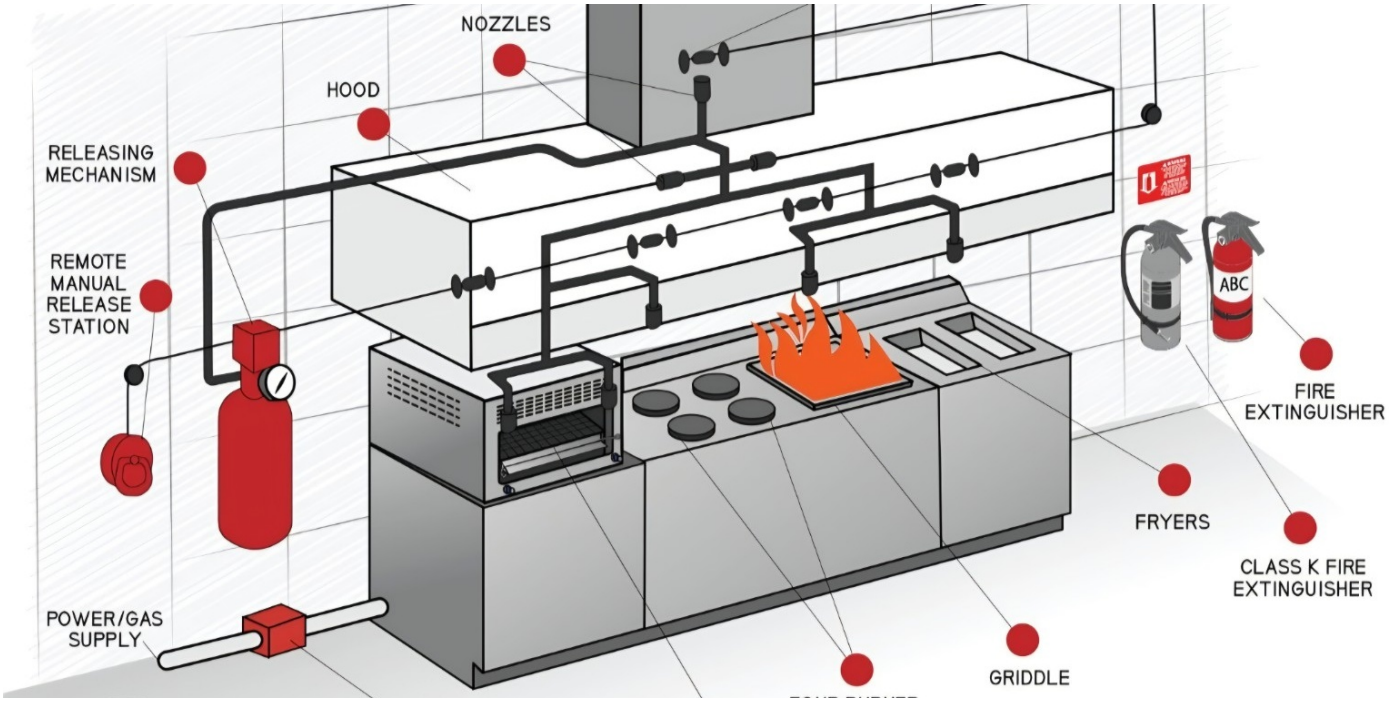
IFFCO
DEVELOPED PROJECTS LLC
BUILDING A PROGRESSIVE TOMORROW

HOTELS & RESTAURANTS

Commercial kitchen protection.

High-temperature cooking operations require dedicated protection coordinated with the kitchen hood, fuel supply and alarm strategy.

WET CHEMICAL KITCHEN SUPPRESSION



- Wet chemical suppression for commercial cooking appliances, hood and plenum hazards.
- Nozzle arrangement and appliance coverage based on approved system listing and kitchen layout.
- Automatic/manual actuation, local alarm and gas/electrical shutdown interfaces.
- Inspection, recharge, component replacement and periodic maintenance.

IFFCO
DEVELOPED PROJECTS LLC
BUILDING A PROGRESSIVE TOMORROW

INDUSTRIAL FACILITIES

Protection designed around the process hazard.

Factories and workshops can combine ordinary building hazards with process, storage, electrical and flammable-material risks.

DETECTION & ALARM

Detection, notification, interfaces and cause & effect.

WATER SYSTEMS

Sprinklers, hose reels, hydrants, pumps and valves.

PORTABLE FIRE FIGHTING

Extinguisher selection, placement, inspection and replacement.

WATER-BASED FIRE FIGHTING EQUIPMENT



IFFCO
DEVELOPED PROJECTS LLC
BUILDING A PROGRESSIVE TOMORROW

BANKS • TELECOM • DATA CENTRES

Protect critical assets without water damage.

Clean-agent systems are engineered for enclosed critical spaces where rapid suppression and continuity are essential.



CLEAN AGENT SYSTEMS

- FM-200 (HFC-227ea), IG-541, IG-55 and IG-100 solutions selected according to the protected hazard and project requirements.
- Room review, hydraulic design, releasing logic, installation, testing, commissioning and handover.
- Designed for critical spaces such as data centres, telecom rooms, banks and other sensitive equipment areas.

IFFCO
DEVELOPED PROJECTS LLC
BUILDING A PROGRESSIVE TOMORROW

CLEAN AGENT ENGINEERING

Design. Supply. Install. Commission.

For critical rooms, the quality of the engineering is as important as the extinguishing agent itself.

ROOM & RISK REVIEW

Protected volume, raised floor, ceiling void, openings, ventilation and occupancy.

AGENT SELECTION

Selection based on hazard, room constraints, equipment sensitivity and project requirements.

HYDRAULIC DESIGN

Cylinder capacity, piping, nozzles, discharge performance and approved calculations.

RELEASING LOGIC

Detection zones, manual release, abort, alarms, shutdowns and cause & effect.

INTEGRITY

Leakage control and enclosure integrity verification where required.

HANDOVER

Testing, commissioning, as-built drawings, calculations, programming records and O&M documentation.

IFFCO
DEVELOPED PROJECTS LLC
BUILDING A PROGRESSIVE TOMORROW

OIL & GAS • AIRPORTS

Foam systems for flammable-liquid hazards.

High-hazard facilities require engineered foam application, proportioning and discharge equipment selected for the fuel and scenario.



FOAM FIRE FIGHTING SYSTEMS

- Foam concentrates, bladder tanks, proportioning equipment, tank protection, foam chambers and monitors.
- AFFF / AR-AFFF / fluorine-free concentrates as appropriate to the approved application.
- Fuel-storage tank, process-area, helipad and other special-hazard protection.

IFFCO
DEVELOPED PROJECTS LLC
BUILDING A PROGRESSIVE TOMORROW

OIL & GAS SAFETY

PPE solutions by hazard category.

A practical PPE programme starts with the task and exposure - then selects compatible protection from head to toe.



Safety helmet



Eye & face



Respiratory / SCBA



Hearing protection



Safety gloves



FR coverall



Safety footwear



Fall protection



Gas detector



Emergency escape hood



Chemical protective suit



Emergency / rescue equipment

PPE is selected according to task, exposure, compatibility and applicable site requirements.

NEW PROJECTS

Built right from the beginning.

IFFCO supports owners, developers and contractors from design development through final handover.

ENGINEERING & DESIGN

Fire protection layouts, system selection, calculations, specifications, cause & effect and coordinated technical submissions.

SUPPLY & INSTALLATION

Procurement, site execution, interfaces, quality control, testing, commissioning and documentation.

A coordinated system reduces rework, interface failures and future maintenance problems.



REHABILITATION & UPGRADES

Old system? Start with an engineering re-assessment.

Building changes, obsolete equipment and undocumented modifications can leave an installed system no longer aligned with the actual risk.

- Survey actual site condition and compare with available drawings and original design intent.
- Re-measure modified rooms and protected volumes where necessary.
- Assess equipment condition, obsolescence, spare-parts availability and maintainability.
- Identify compliance and performance gaps and prioritize critical corrective actions.
- Redesign affected systems and interfaces before modification works begin.
- Retain serviceable components where technically appropriate and replace obsolete/incompatible equipment.
- Re-test the complete system and issue updated as-built documentation.



IFFCO
DEVELOPED PROJECTS LLC
BUILDING A PROGRESSIVE TOMORROW

ANNUAL MAINTENANCE

Readiness is maintained - not assumed.

Planned maintenance helps owners detect deterioration early, control faults and keep critical systems available.

PPM VISITS

Scheduled inspection and preventive maintenance.

FUNCTIONAL TESTING

Device, alarm, pump, valve, interface and system tests.

FAULT MANAGEMENT

Diagnosis, technical evaluation and corrective recommendations.

REPAIR & REPLACEMENT

Approved corrective works, spares and component replacement.

SYSTEM STATUS

Clear reporting of healthy, faulted, impaired and restored conditions.

LIFECYCLE ADVICE

Recommendations for obsolete systems, phased upgrades and future budgets.

ENGINEERING ASSESSMENT

Before you replace a system, understand the problem.

For owners, the most valuable first step is often an independent technical assessment of the existing fire protection strategy.

A proper assessment can answer:

- Is the existing system suitable for the current use of the building?
- Have room sizes, partitions, occupancy or hazards changed since the original design?
- Which equipment can remain in service and which should be replaced?
- Are spare parts, programming tools and technical support still available?
- Are fire alarm, suppression, HVAC, shutdown and other interfaces working as intended?
- What should be corrected immediately, and what can be planned as a phased upgrade?



IFFCO
DEVELOPED PROJECTS LLC
BUILDING A PROGRESSIVE TOMORROW

OUR CORE CAPABILITIES

One partner across multiple fire & safety disciplines.

Solutions are selected according to the building, process and hazard - with engineering coordination at the centre.

Fire Alarm Systems

Design • Supply • Installation • Testing • Maintenance

Water-Based Fire Fighting

Design • Supply • Installation • Testing • Maintenance

Clean Agent Systems

Design • Supply • Installation • Testing • Maintenance

Foam Systems

Design • Supply • Installation • Testing • Maintenance

Portable Extinguishers

Design • Supply • Installation • Testing • Maintenance

PPE & Safety Equipment

Design • Supply • Installation • Testing • Maintenance

IFFCO
DEVELOPED PROJECTS LLC
BUILDING A PROGRESSIVE TOMORROW

LICENSES & CIVIL DEFENCE APPROVAL

Officially registered. Civil Defence approved.

IFFCO Developed Projects LLC operates in Khartoum, Sudan under its commercial registration and Civil Defence activity approval.

COMMERCIAL REGISTRATION


جمهورية السودان
وزارة العدل
إدارة التسجيلات التجارية
قانون الشركات لسنة ١٩٢٥م
شهادة تأسيس
(خاصة)
النمرة / ش: ٤٥٨٨٠ شهادة نمرة ١
بهذا أشهد بأن :
شركة افكو للمشاريع المتطورة المحدودة
قد تأسست اليوم تحت قانون الشركات لسنة ١٩٢٥م
و أن الشركة محدودة
صدرت تحت توقيعي في الخرطوم في
هذا اليوم السابع من شهر ديسمبر سنة ألفين و اربع عشرة م
رسوم التسجيل : ١٠ ج س
ضريبة رأس المال : ١٢٥ ج س
وفاء مضوي محمد
مسجل الشركات
بالإنابة

CIVIL DEFENCE APPROVAL


وزارة الداخلية
رئاسة قوات الدفاع المدني
الإدارة العامة للوقاية والسلامة
شهادة مزاولة النشاط
شركة افكو للمشاريع المتطورة المحدودة
تصدق باعتماد شركة: شركة افكو للمشاريع المتطورة المحدودة ضمن قائمة الشركات العاملة
في المجال المرخص لها: -
• استيراد وبيع وتداول معدات الإطفاء والسلامة.
• تركيب وصيانة أنظمة الإطفاء والانذار.
على أن تلتزم الشركة بكل اللوائح المنظمة لإجراءات وضوابط الوقاية والسلامة.
ملحوظة :
المدير
مقدم شرطة /
عبد الله الامين الصافي
مدير الإدارة العامة للوقاية والسلامة
لواء شرطة /
قرشي حسين عبد القادر
مساعد المدير العام للشئون الفنية والتوازي
رائد شرطة مهندس /
ايمان محمود ضو البيت
مدير دائرة الأنظمة والترخيص

Approved by the General Directorate of Civil Defence for the supply and trading of firefighting & safety equipment, and for the installation and maintenance of firefighting and fire alarm systems.

COMPANY CREDENTIALS

Registered and approved for fire & safety activities.

Our formal credentials support clients who require a qualified local partner for fire protection works and ongoing system support.

REGISTERED COMPANY

IFFCO Developed Projects LLC is commercially registered in Sudan.

CIVIL DEFENCE APPROVED

Approved activity includes firefighting & safety equipment trading and installation/maintenance of firefighting and fire alarm systems.

Location

Khartoum - Sudan



IFFCO
DEVELOPED PROJECTS LLC
BUILDING A PROGRESSIVE TOMORROW

LIFE SAFETY SYSTEMS

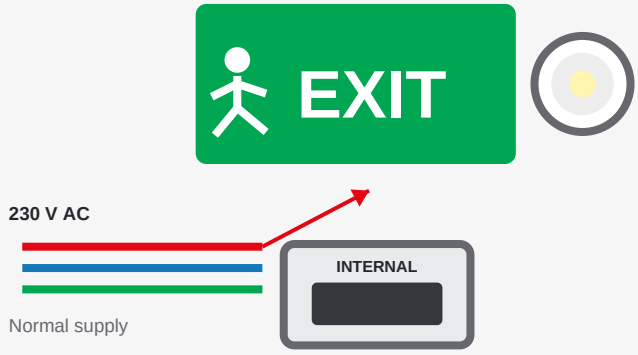
Emergency & Exit Lighting Systems.

Three practical architectures for safe evacuation: self-contained, monitored and central battery systems.

1

01 SELF-CONTAINED

Battery integrated in each emergency / exit luminaire.

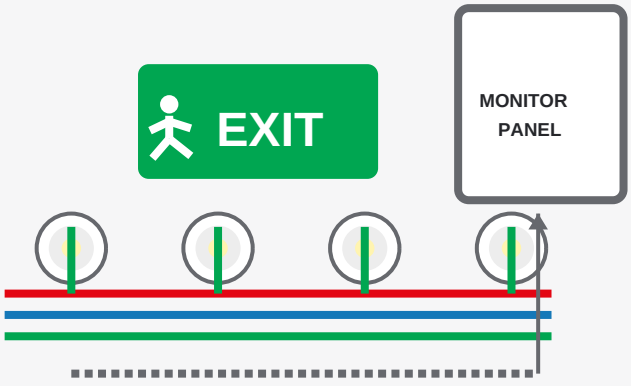


Local battery operates on mains failure

2

02 MONITORED TYPE

Self-contained luminaires with central status monitoring.

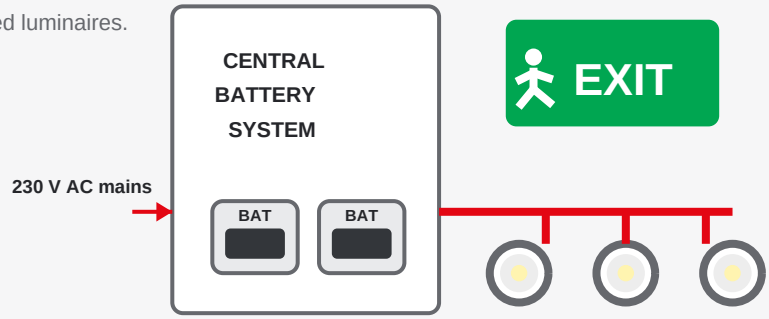


Power + monitoring communication

3

03 CENTRAL BATTERY SYSTEM

Centralized emergency power feeding dedicated luminaires.



SYSTEM SELECTION Select the architecture according to project scale, monitoring requirements, maintainability and the approved fire & life-safety design.

IFFCO
DEVELOPED PROJECTS LLC
BUILDING A PROGRESSIVE TOMORROW

FIRE PROTECTION EQUIPMENT

Portable Fire Extinguishers.

Clear selection by extinguishing agent, fire class and common portable capacity.

CO2
Carbon Dioxide



SUITABLE FOR

- Electrical equipment
- Class B liquids

COMMON SIZES

2 kg | 5 kg

Typical application

Server / electrical rooms

DCP
Dry Chemical Powder



SUITABLE FOR

- Class A solids
- Class B liquids
- Class C gases
- Electrical equipment

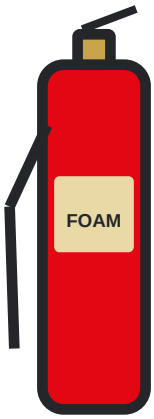
COMMON SIZES

1 kg | 2 kg
4 kg | 6 kg
9 kg | 12 kg

Typical application

General / industrial risks

FOAM
AFFF



SUITABLE FOR

- Class A solids
- Class B liquids

COMMON SIZES

6 L | 9 L

Typical application

Flammable liquid risks

WET CHEMICAL
Kitchen agent



SUITABLE FOR

- Class F cooking oils & fats

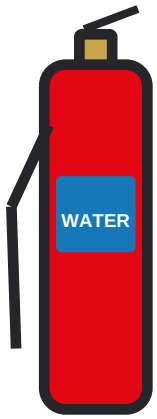
COMMON SIZES

2 L | 6 L

Typical application

Commercial kitchens

WATER
Water



SUITABLE FOR

- Class A solids

COMMON SIZES

6 L | 9 L

Typical application

Ordinary combustibles

SELECTION NOTE Final extinguisher type, rating, quantity and capacity are selected to suit the hazard, fire class, travel distance and approved project requirements.

IFFCO

DEVELOPED PROJECTS LLC

BUILDING A PROGRESSIVE TOMORROW

BUILDING A PROGRESSIVE TOMORROW

Protecting people, assets and continuity starts with the right engineering assessment.

Assessment • Design • Supply • Installation • Testing & Commissioning • Maintenance

KHARTOUM - SUDAN

IFFCO DEVELOPED PROJECTS LLC