



**I . T . E**

# **IMEN TIAR**

**Engineering Co.**

**WITH IMEN TIAR**

**THERE IS NO CHANCE FOR FIRE**

## **FIRE FIGHTING ATV**

**MODEL: TR-ATV-FR1**



**Relying on heavy firefighting vehicles and equipment to cross the difficult terrain of mountains, forests and etc. during firefighting operations is an inappropriate strategy.**

**By using the **Firefighting ATV** of I.T.E. , Model: **TR-ATV-FR1**,  
There remains NO CHANCE FOR **FIRE**.**



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## **FIRE FIGHTING ATV**

### ❖ **BENEFITS :**

The Firefighting ATV has remarkable mobility and maneuverability in rough terrain due to the utilization of an excellent suspension system, a powerful four-stroke engine, large tires and a robust chassis.

The ATV is four-wheel drive (4WD) but it can also be switched to 2WD.

The ATV can carry firefighting or aid and rescue equipment to the hazard zone.

It is issued with a cargo trunk to carry the necessary equipment.

### ❖ **APPLICATIONS :**

The ITE Firefighting ATVs are Firefighting/ aid and rescue vehicles which can be paired with different equipment according to the application intended and can be used in various situations such as:

- Forests, pastures and mountainous terrain.
- Areas recently struck by catastrophes or natural disasters (Earthquake, flood, etc.). Mobilization of heavy Firefighting vehicles in such areas is tedious or totally impaired due to the damaged roads network.
- Very dense urban areas with narrow streets and passes such as old neighborhoods.
- Town and villages with narrow and impassable roads.
- Farms, plains and deserts in the suburban areas.
- Oil and gas sites, mines, power lines and pipelines.





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## **FIRE FIGHTING ATV**

### ❖ TECHNICAL SPECIFICATIONS :

Technical specifications of the ATV:

Dimensions	2120 x 1170 x 1230 mm
Engine size	493 cc
Net weight	340 kg
Engine type	Four-stroke -single cylinder- water and air cooled with fan
Transmission type	Automatic - 4WD
front and rear brakes type	Front : double disc - rear : single disc
Maximum speed	80 km/h
Maximum rear towing load	1000 kg
Maximum front towing load	1133 kg



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### ❖ FIREFIGHTING EQUIPMENT :

Two main types of the firefighting equipment are designed and can be installed on this ATV:

1. Firefighting equipment setup for areas having water available for firefighting purposes.
2. Firefighting equipment setup for areas *without* enough water.

The two types can be conveniently and quickly swapped according to the situation.

### ➤ The Firefighting equipment based on the accessibility of water are :

1. Firefighting pumping engine
2. Water mist extinguishing system





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### ❖ FIREFIGHTING PUMPING ENGINE, TECHNICAL DATA :

Firefighting pumping engine is used when there is enough water available. The pump extracts water from nearby sources such as rivers, ponds or pools. A hand nozzle then can be used in order to extinguish the fire.

ENGINE SPECIFICATIONS	
Engine type	Two-stroke –Air cooled
Engine size	126 cc
Fuel type	Gasoline
Fuel tank capacity	4 Liters
Engine Power	4.4 kW
Engine start switch	Manual

PUMP SPECIFICATIONS	
Pump type	Centrifugal
Inlet	2 in.
Outlet	2 in.
Suction depth	9 m
Pumping elevation	90 m

FIREFIGHTING EQUIPMENT SPECIFICATION	
Suction hose (No./Size)	2 loops - 2 in. x 4 m
Firefighting hose (No./Size)	2 loops - 1½ in. x 30 m
Nozzle ( Model/Capacity)	TR-WN-F2 / 450LPM
Coupling (Model)	Storz Adaptor 1½ in. – 2½ in.
Strainer (Size)	2 in.







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### ❖ WATER MIST EXTINGUISHING SYSTEM –MODEL : TR-WMI-500

The water mist system manufactured by ITE specially designed to be used in situations when sufficient water is *not* available. This system is very effective in extinguishing fire because of its sufficient water storage and a special nozzle with a special mechanism.

This system functions by decreasing the size of water drops to form a water mist cloud consisted of very fine water droplets which prevents the oxygen to be supplied to the fire. These fine droplets are also excellent absorbents of the heat, thus they can swiftly and effectively extinguish the fire.

Very low water consumption, being environment friendly and minimizing the negative impacts of extinguishing are of major benefits of the water mist system.

#### - Technical Specifications of the water mist system:

ENGINE SPECIFICATIONS	
Engine type	Two-stroke
Engine size	126 cc
Fuel Type	Gasoline
Fuel tank capacity	4 liters
Engine power	13 hp
Engine start switch	Manual

PUMP SPECIFICATION	
Pump type	Piston pump
Inlet	1/2 in.
Outlet	3/8 in.
Discharge flow rate	17.2 LPM
Pressure	240 Bar



FIREFIGHTING EQUIPMENT SPECIFICATIONS		
Water tank capacity		60-80 Liters
Foam tank		Premix
Hose reel		½ in. x 30 m
Water mist nozzle type		Two state : Fog/Jet
Flow rate		11 LPM @ 60 Bar
Nozzle projection range	Jet	10- 12 m
	Fog	6-8 m
Working pressure		40-100 Bar
Maximum pressure		120 Bar



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### ❖ OPTIONAL EQUIPMENT:

The firefighting ATV can also be issued with optional sets of equipment which can be attached to the ATV as trailers. These sets of equipment enhance the capabilities of the firefighting ATV in remote areas and makes firefighting possible in longer durations.

#### - Technical specifications of the optional equipment of the Firefighting ATV :

ENGINE SPECIFICATIONS	
Engine type	Four-stroke engine
Engine size	200 cc
Fuel type	Gasoline
Fuel tank capacity	10 Liters
Engine power	13.8 kW
Engine start switch	Electrical

PUMP SPECIFICATIONS	
Pump type	Piston pump
Inlet	1 in.
Outlet	½ in.
Discharge flow rate	36 LPM
Pressure	160 Bar



FIREFIGHTING EQUIPMENT SPECIFICATIONS		
Water tank capacity		200 Liters
Foam tank capacity		18 Liters
Working Pressure		40-100 Bar
Flow rate		20/28/32 LPM @ 60 Bar
Hose reel		½ in x 30 m
Nozzle type		Two state : fog/jet
Nozzle Projection range	Jet	10-12 m
	Fog	6-8 m





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The 2/4 wheeled ITE Trailers are designed and manufactured for the purpose of engaging in larger firefighting operations. These units are capable of operating for longer durations. They can be attached to the Firefighting ATV and include the following equipment:

1. 200 Lit. Stainless steel tank with internal baffles to minimize shaking of the fluid within the tank.
2. Hose reel
3. Special water mist nozzle
4. 30 m long high pressure hose
5. Japanese made Robin engine
6. Italian made Bertolini piston pump





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### ❖ ADDITIONAL OPTIONAL FIREFIGHTING EQUIPMENT:

1. Fire extinguisher
2. Hose
3. Nozzle
4. Coupling wrench and hydrant wrench
5. Ejector pump
6. Escape mask
7. Strainer
8. Foam maker

### ❖ ADDITIONAL OPTIONAL AID AND RESCUE EQUIPMENT:

1. First aid kit
2. Trolley\*
3. Axe
4. Rope
5. Oxygen cylinder
6. Respirator mask
7. Spade
8. Scissors
9. Flashlight/torch
10. Magnetic light and flashers
11. Safety goggles
12. Safety belts

\* The trolley is intended for carrying injured individuals .It can be easily attached to the ATV.



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