

# CABLE FAULT LOCATORS

## 1. INTRODUCTION

Fault locators are used to pinpoint faults occurring in communication / control cables to facilitate quick repair. With the burgeoning growth in communication / telecom / infotainment industry in the country, the usage of cables has increased dramatically. In order to reduce down-time and facilitate easy maintenance, cable fault locators are indispensable. They use the principle of pulse reflection technique to quickly locate the point of occurrence of a fault, and are thus very flexible and time saving in nature. The demand for the product is bound to increase considering the growth of the telecom sector and cable operators in the entertainment sector in cities, metros and urban areas.

## 2. RAW MATERIALS

Cathode ray tubes, ICs, LEDs, resistors and capacitors, Ni-Cd battery, PCBs, switches, wires & cables, casing and other hardware.

## 3. MANUFACTURING PROCESS

The pulse generator circuitry at the heart of the cable fault locator is the main electronic system. It consists of the ICs, semiconductors and other electronic devices mounted on the pre-designed PCB. The PCB is then tested for performance and integrated with the display device and cathode ray tube. The control panel is mated with the system and the whole unit is tested in operation mode.

## 4. MANPOWER REQUIREMENT : 7

## 5. PROJECT COST

<b>A. Fixed Capital</b>	<b>Rs</b>
Land & Building	Rented
Plant & Machinery	2,00,000
	<b>2,00,000</b>

**B. Working Capital ( per month)**

Raw Material & Packing	2,20,000
Utilities	2,500
Salary & wages	18,000
Other expenses	20,000
	<b>2,60,500</b>
<b>Total (A+B)</b>	<b>4,60,500</b>

**6. COST OF PRODUCTION / ANNUM**

Raw materials etc. ( per annum )	31,26,000
Depreciation on machinery	20,000
Interest on investment	1,15,000
	<b>32,61,000</b>

**7. PROFITABILITY**

Sales turnover	36,00,000
Operating expenses	32,61,000
Annual profit	3,39,000
Percentage of profit on investment / sales	35%

**Market potential :**

The staggering growth of telecom sector is to be equally substantiated with the increased production of good quality test equipments and other accessories. The detection of cable fault being the most frequent and important inspection in telecommunication, created a need for quality instruments that can accurately locate the faulty part of the cable. Electronic cable fault locators are the only means to achieve this. As in the case of other telecom test instruments, the demand for electronic cable locator is also on the increase especially at an era when the communication networks

are reaching out to the remote parts of the country.

**Annual Production capacity : Rs. 36,00,000/-**

**List of Plant, Machinery & equipment :**

- 1 Bench drilling machine
- 2 Portable grinder
- 3 Testing equipments

