

## LIQUID LEVEL INDICATORS

### 1. INTRODUCTION

These devices are used to measure the level of liquid or hydrostatic head in a container/tank/storage system. Mainly used in process industries, a variety of sensors like transducers, electronic emissions are used to detect the levels and display the result on electronic display devices. If the system is integrated with a closed loop control circuit, then a desired level of liquid can be constantly maintained at predetermined levels. This system finds great usage in chemical and automated process control industries. Thus the potential for the product is steadily on the increase.

### 2. RAW MATERIALS

Liquid level transducers, ICs, resistors, capacitors, PCBs, relays and switches, casing etc.

### 3. MANUFACTURING PROCESS

The electronic subassembly consists of mounting the parts on the PCB as per design and testing. This is then integrated with the mechanical portion and the whole unit is put into casing with display device and tested for performance. Quality checks are carried out and the product is packed.

### 4. MANPOWER REQUIREMENT : 8

### 5. PROJECT COST

<b>A. Fixed Capital</b>	<b>Rs.</b>
Land & Building	Rented
Plant & Machinery	1,85,000
<b>Total</b>	<b>1,85,000</b>
<b>B. Working Capital ( per month)</b>	
Raw Material & Packing	1,36,000
Utilities	2,500
Salary & wages	20,500

Other expenses	21,000
<b>Total</b>	<b>1,80,000</b>
<b>Total (A+B)</b>	<b>3,65,000</b>

## 6. COST OF PRODUCTION / ANNUM

	<b>(Rs.)</b>
Raw materials etc. ( per annum )	21,60,000
Depreciation on machinery	19,600
Interest on investment	87,000
<b>Total</b>	<b>22,66,600</b>

## 7. PROFITABILITY

Sales turnover	27,60,000
Operating expenses	22,66,600
Annual profit	493400
Percentage of profit on investment / sales	60%

### Market potential :

Conventional liquid level controllers / indicators are giving way for the high sensitive and fast acting electronic liquid level controllers/indicators in industries. As level monitoring is a major activity in many process control industries, the demand for the electronic liquid level controller / indicator is likely to increase.

### Annual Production capacity :

It is envisaged to produce goods worth Rs. 27,80,000/-

### List of Plant, Machinery & equipment :

- 1 Drilling machine
- 2 Portable grinder

- 3 Assembly lines system / equipment
  - 4 Oscilloscope
  - 5 General purpose digital multimeter
  - 6 Analog multimeter
  - 7 Frequency counter
  - 8 Digital IC tester
- 

