

Introduction :

Digital panel meter is basically a voltage measuring device. It consists of analog switches, integrator, comparator, control circuitry with display unit. With the modern technique of production in the field of chemical refineries and fertilizers, it is expected that yearly requirement is high. The requirement of the country for this item at present is being met through imports. It has a very good export market. Raw materials required for the production of Digital Panel Meters are Hole Printed circuit boards, chips, electrolytic capacitors, poly carbonate capacitors, metal film resistors, leakage & switching transistors, zenor diodes, transformers etc.

Process of Manufacture: Various electronic components such as resistors, capacitors, chips and transistors are soldered on printed, circuit board. Sub assemblies of power supply, switching circuit, integrator, comparator circuit and counter are assembled and tested for resolution, accuracy, drift, operational amplifier characteristics, input impedance, common mode rejection etc. The output is checked on a jig fitted with nixie tubes. The standard voltage are fed to the input circuit and it is again calibrated and tested.

1 Name of the Product : DIGITAL PANEL METERS

2 Project Cost :

a Capital Expenditure

Land : Own

Workshed in sq.ft : Rs. -

Equipment : Rs. 200,000.00

Digital voltage standard, drilling machine, shearing machine, Bendig machine, Instrument lathe painting unit, Oscilloscope, Signal generator, Multimeter, LCR Bridge, PCB

Total Capital Expenditure Rs. 200,000.00

b Working Capital Rs. 165,000.00

TOTAL PROJECT COST : Rs. 365,000.00

3 Estimated Annual Production Capacity: (Rs. in 000)

Sr.No.	Particulars	Capacity in No./Q.	Rate	Total Value
1	DIGITAL PANEL METERS			978.00
TOTAL		0.00	0.00	978.00

4 Raw Material : Rs. 525,000.00

5 Labels and Packing Material : Rs. 20,000.00

6 Wages (1-Skilled & 1-Unskilled) Rs. 144,000.00

7 Salaries (MANAGER-1) Rs. 120,000.00

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8	Administrative Expenses	:	Rs.	40,000.00
9	Overheads	:	Rs.	60,000.00
10	Miscellaneous Expenses	:	Rs.	20,000.00
11	Depreciation	:	Rs.	20,000.00
12	Insurance	:	Rs.	2,000.00
13	Interest (As per the PLR)			
	a. C.E.Loan	:	Rs.	26,000.00
	b. W.C.Loan	:	Rs.	21,450.00
	Total Interest		Rs.	47,450.00
14	Working Capital Requirement	:		
	Fixed Cost		Rs.	208,000.00
	Variable Cost		Rs.	770,450.00
	Requirement of WC per Cycle		Rs.	163,075.00

15 Cost Analysis

Sr.No.	Particulars	Capacity Utilization(Rs in '000)			
		100%	60%	70%	80%
1	Fixed Cost	208.00	124.80	145.60	166.40
2	Variable Cost	770.00	462.00	539.00	616.00
3	Cost of Production	978.00	586.80	684.60	705.40
4	Projected Sales	1050.00	630.00	735.00	840.00
5	Gross Surplus	72.00	43.20	50.40	57.60
6	Expected Net Surplus	52.00	23.00	30.00	38.00

- Note :
1. All figures mentioned above are only indicative.
 2. If the investment on Building is replaced by Rental then
 - a. Total Cost of Project will be reduced.
 - b. Profitability will be increased.
 - c. Interest on C.E.will be reduced.