

Khadi and Village Industries Commission Mumbai

**PROJECT PROFILE ON ELECTRONIC VIBRATION METERS/ANALYZER**

**Introduction :**

The electronic vibration meters/analyzers are used to measure and analyze the intensity of vibration in turbo machinery, generating stations, ships, aircraft, manufacturing plants, water, and sewerage heavy electrical equipments. Vibrations can be due to unbalance of rotating parts, misalignments or external force. For each of these measurements various types of transducers are used. In general, vibration measurements are made to study the response of a body or structure. Study the vibratory environment surrounding a vibratory source viz., floor monitor and control a system such as in maintaining accelerations at a desired level etc. The vibration meter/analyzer consists of a transducer, signal conditioner and a display system. The transducer converts the mechanical vibration into an electrical signal. The signal conditioner converts the transducer output into a suitable electrical output. The output devices may either be digital display/analog panel meter, graphic recorder, oscilloscope or a magnetic tape recorder. In general application LVDT or piezo-electric transducers are used for vibration measurement.

**1 Name of the Product :** **ELECTRONIC VIBRATION METERS/ANALYZER**

**2 Project Cost :**

a Capital Expenditure

Land	:		Rs.	Own
Work shed in sq.ft rented	:	0	Rs.	-
Equipment	:		Rs.	333,000.00

24 pin digital IC tester, Bench drilling machine 1/2" Vibration simulator (Micropower based), Digital Multimeter 4 1/2 digit, Electronic counter, Fly press, Hand lever shear, High voltage tester/insulation tester, Digital LCR meter, Oscilloscope (50 MHz), Portable Grinder, Power supply 0-30V,5A, Transistor tester, X-Y recorder plotter, Hand Tools/Jigs/Fixtures, Office equipment and furniture, Pre-operative expenses.

Total Capital Expenditure	Rs.	333,000.00
b Working Capital	Rs.	600,000.00
<b>TOTAL PROJECT COST :</b>	<b>Rs.</b>	<b>933,000.00</b>

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

Sr.No.	Particulars	Capacity in No./Q.	Rate	Total Value
1		180 Nos.	13353.00	2407.62
<b>TOTAL</b>		<b>0.00</b>	<b>13353.00</b>	<b>2407.62</b>

**4 Raw Material :** **Rs. 1,568,000.00**

**5 Labels and Packing Material :** **Rs. 125,000.00**

**6 Wages (2-Skilled & 1- Unskilled)** **Rs. 240,000.00**

**7 Salaries (1-Manager)** **Rs. 120,000.00**

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<b>8</b>	<b>Administrative Expenses</b>	<b>:</b>	<b>Rs.</b>	<b>100,000.00</b>
<b>9</b>	<b>Overheads</b>	<b>:</b>	<b>Rs.</b>	<b>85,000.00</b>
<b>10</b>	<b>Miscellaneous Expenses</b>	<b>:</b>	<b>Rs.</b>	<b>45,000.00</b>
<b>11</b>	<b>Depreciation</b>	<b>:</b>	<b>Rs.</b>	<b>33,300.00</b>
<b>12</b>	<b>Insurance</b>	<b>:</b>	<b>Rs.</b>	<b>3,330.00</b>
<b>13</b>	<b>Interest (As per the PLR)</b>			
	<b>a. C.E.Loan</b>	<b>:</b>	<b>Rs.</b>	<b>43,290.00</b>
	<b>b. W.C.Loan</b>	<b>:</b>	<b>Rs.</b>	<b>78,000.00</b>
	<b>Total Interest</b>		<b>Rs.</b>	<b>121,290.00</b>
<b>14</b>	<b>Working Capital Requirement</b>	<b>:</b>		
	<b>Fixed Cost</b>		<b>Rs.</b>	<b>311,620.00</b>
	<b>Variable Cost</b>		<b>Rs.</b>	<b>2,096,000.00</b>
	<b>Requirement of WC per Cycle</b>		<b>Rs.</b>	<b>601,905.00</b>

**15 Cost Analysis**

Sr.No.	Particulars	Capacity Utilization(Rs in '000)			
		100%	60%	70%	80%
<b>1</b>	<b>Fixed Cost</b>	311.62	186.97	218.13	249.30
<b>2</b>	<b>Variable Cost</b>	2096.00	1257.60	1467.20	1676.80
<b>3</b>	<b>Cost of Production</b>	2407.62	1444.57	1685.33	1716.50
<b>4</b>	<b>Projected Sales</b>	2800.00	1680.00	1960.00	2240.00
<b>5</b>	<b>Gross Surplus</b>	392.38	235.43	274.67	313.90
<b>6</b>	<b>Expected Net Surplus</b>	359.00	202.00	241.00	281.00

- Note :
- 1.All figures mentioned above are only indicative.
  - 2.This is model project profile for guidance
  - 3.Cost of Project, and its profitability will be changed depends on the area, availability of raw Material, man power, power requirement and various other factors etc..