Control Panel Manufacturing Industry.

Production of Control Cabinets.

Electrical Panel Manufacturing Business

[NPCS/4996/23235]
www.entrepreneurindia.co
Introduction

Control Panel and cabinet design is fundamental in allowing the user to interact efficiently with the industrial process right on the front line. Industrial control panels consist of power circuits or control circuits (or both) which provide signals that direct the performance of machinery or equipment. Industrial control panels don’t include the main power, nor do they include the controlled equipment; rather, the panel is mounted on a back panel (or subpanel) or in an enclosure, depending on the application.
The control panels are enclosures fabricated out of sheet metal which can be open, semi enclosed or totally enclosed type. They direct and control electric power to equipment and appliances.

A control panel is a flat, often vertical, area where control or monitoring instruments are displayed or it is an enclosed unit that is the part of a system that users can access, as the control panel of a security system (also called control unit).
The electrical control panel is an essential item in industrial electrification. It regulates the function of the electrical equipment. Electrical panels fitted with necessary relays are also used to protect electrical equipment from being damaged due to short circuit and overloading.

Furthermore, the control panels are enclosures fabricated out of sheet metal. It is open type, semi enclosed or totally enclosed type. In addition, they indicate the parameters like voltage, current, frequency & PF on the face of the panel. Also, they can regulate the power supply with the help of switches/circuit breakers.
Types of Control Panel

There are several different combinations when it comes to these devices and some of the most basic types include:

- Low Tension Control Panels
- High Tension Control Panels
- Instrument Control Panels
- Motor Control Panels
- Lighting Control Panels
- Generator Control Panels
Switchgears and control panels form a part of power distribution equipment and are widely used in power grid or electricity distribution systems. Low-voltage and medium-voltage switchgear are used in many industries such as oil and gas, and paper and pulp, while high-voltage switchgears are primarily used in power substations. Capacitors are widely used as parts of electrical circuits in many common electrical devices and also in power distribution systems.

The rising demand in the power capacity addition is marginally boosting the demand for distribution machinery such as switchgears and control gears.
The demand for the panels is increasing day-by-day. Rapid electrification and industrialization are the main reason for the growth. Functionally, it is an integral part of all electrical equipment like Motor, Generator, Transformer, Motor Control Centre, Incinerator etc. However, it is a B2B business.

The automotive control panel market is projected to grow at a CAGR of 8.10% from 2016 to 2021, to reach a market size of USD 110.18 billion by 2021. Key factors driving the growth of this market include rapid urbanization, increasing luxury car sales, and growing demand for interior comfort.
Growth drivers Today, highly-efficient control panel and switchgear applications are in huge demand across end-user segments such as industrial, construction (residential/ commercial), power generation, and transmission and distribution (T&d) utilities. Growth in key sectors such as oil and gas, petrochemicals, steel, cement, and telecom are the major growth drivers for control panel and switchgear industry. The other factors leading to the growth of the automotive control panel market are the introduction of stringent safety norms and increasing vehicle electrification. Increase in demand for enhanced cabin comfort and convenience features in high end passenger vehicles owing to the increase in purchasing power, also helps in the growth of the automotive control panel market.
Based on components, the automotive control panel market has been segmented as rotary switch, roof light, touch pad, smart roof, locking function, side mirror, door panel light, driver monitoring camera, electric window and others. Amongst these, driver monitoring camera is expected to grow significantly over the forecast period. These cameras detect any risky behavior on the part of the driver, thereby helping in avoiding potentially dangerous situations during driving. The rise in the number of road accidents caused by driver drowsiness or fatigue, is driving the installation of driver monitoring camera systems. Increasing traffic in urban areas, is also a key factor responsible for the rising number of road accidents. The rising demand for safety features in vehicles, would accelerate the growth of the driver monitoring camera market.
Automotive control panels are electrical and displaying controls that are being used for the operation of vehicles. The control panel provides the driver with operational knowledge of various systems of the vehicle. Control panels form an integral part of passenger cars, motorcycles, airplanes, ship, boats and other vehicles.

Highly-efficient control panel and switchgear applications are in huge demand across end-user segments such as industrial, construction (residential/ commercial), power generation, and transmission and distribution (T&D) utilities. Planned investment across major infrastructures projects such as airports, metro rail, mono rail, industrial corridor are expected to drive the growth further. Plus investments in renewable and alternative energy sources, modernization of power plants and various government schemes are also expected to boost the market.
Global Automotive Control Panel Market is driven by factors such as development of electronics and communications industry is also contributing extensively in the growth of the automotive control panel market. The other factors leading to the growth of the automotive control panel market are the introduction of stringent safety norms and increasing vehicle electrification. Increase in demand for enhanced cabin comfort and convenience features in high end passenger vehicles owing to the increase in purchasing power, also helps in the growth of the automotive control panel market.

Indian switchgear and control panel market size is approx. $4.4 Billion (2017) and projected to reach $8.2 Billion by 2022.
Size of Indian Switchgear and Control Panel Market (in Billion)

- FY15: 2.2 Billion
- FY17F: 4.4 Billion
- FY22F: 8.2 Billion

CAGR = 19.2%
Few Indian major players are as under:

- Aartech Solonics Ltd.
- Annanya Interface & Controls Pvt. Ltd.
- Bonfiglioli Renewable Power Conversion India Pvt. Ltd.
- C G-Ziv Power Automation Solutions Ltd.
- Eimco Elecon Electricals Ltd.
- H B Electro Control Pvt. Ltd.
- Impression Automation & Robotics Pvt. Ltd.
Machinery Photographs

CNC TURRET PUNCH PRESS MACHINE

CNC PRESS BREAK MACHINE SINGLE AXIS MACHINE HYDRAULITE
TAPPING MACHINE

PORTABLE GRINDER
## Project at a Glance

### COST OF PROJECT

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<th>Particulars</th>
<th>Existing</th>
<th>Proposed</th>
<th>Total</th>
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## Project at a Glance

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<th>Debt (`)</th>
<th>Dividend (`)</th>
<th>Retained Earnings (`)</th>
<th>Payout (%)</th>
<th>Probable Market Price (`)</th>
<th>P/E Ratio</th>
<th>Yield Price/Book Value (%)</th>
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## Project at a Glance

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<th>Asset Turnover Ratio</th>
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## Project at a Glance

### BEP

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<td>BEP - Maximum Utilisation Year</td>
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<tr>
<td>Cash BEP (% of Installed Capacity)</td>
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<td>Total BEP (% of Installed Capacity)</td>
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### IRR, PAYBACK and FACR

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<td>Payback Period of the Project is (In Years)</td>
<td>2 Years 4 Months</td>
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<tr>
<td>Fixed Assets Coverage Ratio (No. of times)</td>
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Major Queries/Questions Answered in the Report?

1. What is Control Panels (Cabinet) Manufacturing industry?

2. How has the Control Panels (Cabinet) Manufacturing industry performed so far and how will it perform in the coming years?

3. What is the Project Feasibility of Control Panels (Cabinet) Manufacturing Plant?

4. What are the requirements of Working Capital for setting up Control Panels (Cabinet) Manufacturing plant?
5. What is the structure of the Control Panels (Cabinet) Manufacturing Business and who are the key/major players?

6. What is the total project cost for setting up Control Panels (Cabinet) Manufacturing Business?

7. What are the operating costs for setting up Control Panels (Cabinet) Manufacturing plant?

8. What are the machinery and equipment requirements for setting up Control Panels (Cabinet) Manufacturing plant?
9. Who are the Suppliers and Manufacturers of Plant & Machinery for setting up Control Panels (Cabinet) Manufacturing plant?

10. What are the requirements of raw material for setting up Control Panels (Cabinet) Manufacturing plant?

11. Who are the Suppliers and Manufacturers of Raw materials for setting up Control Panels (Cabinet) Manufacturing Business?

12. What is the Manufacturing Process of Control Panels (Cabinet)?
13. What is the total size of land required for setting up Control Panels (Cabinet) Manufacturing plant?

14. What will be the income and expenditures for Control Panels (Cabinet) Manufacturing Business?

15. What are the Projected Balance Sheets of Control Panels (Cabinet) Manufacturing plant?

16. What are the requirement of utilities and overheads for setting up Control Panels (Cabinet) Manufacturing plant?

17. What is the Built up Area Requirement and cost for setting up Control Panels (Cabinet) Manufacturing Business?
18. What are the Personnel (Manpower) Requirements for setting up Control Panels (Cabinet) Manufacturing Business?

19. What are Statistics of Import & Export for Control Panels (Cabinet)?

20. What is the time required to break-even of Control Panels (Cabinet) Manufacturing Business?

21. What is the Break-Even Analysis of Control Panels (Cabinet) Manufacturing plant?

22. What are the Project financials of Control Panels (Cabinet) Manufacturing Business?
23. What are the Profitability Ratios of Control Panels (Cabinet) Manufacturing Project?

24. What is the Sensitivity Analysis-Price/Volume of Control Panels (Cabinet) Manufacturing plant?

25. What are the Projected Pay-Back Period and IRR of Control Panels (Cabinet) Manufacturing plant?

26. What is the Process Flow Sheet Diagram of Control Panels (Cabinet) Manufacturing project?
27. What are the Market Opportunities for setting up Control Panels (Cabinet) Manufacturing plant?

28. What is the Market Study and Assessment for setting up Control Panels (Cabinet) Manufacturing Business?

29. What is the Plant Layout for setting up Control Panels (Cabinet) Manufacturing Business?
Table of Contents of the Project Report
1. PROJECT LOCATION
1.1. DISTRICT PROFILE & GEOTECHNICAL SITE CHARACTERIZATION
  1.1.1. General
  1.1.2. Physical Characteristics
  1.1.3. Climate
  1.1.4. Map
  1.1.5. Transportation and Communications
  1.1.6. Economy
  1.1.7. Major Industries

2. INTRODUCTION

3. TYPES OF CONTROL PANEL

4. USES AND APPLICATIONS

5. B.I.S SPECIFICATIONS
  5.1. IS:12063:1987—SPECIFICATION FOR DEGREE OF PROTECTION PROVIDED FOR THE ENCLOSURE OF ELECTRICAL EQUIPMENTS
  5.2. IS:2147:1962—SPECIFICATION FOR DEGREE OF PROTECTION PROVIDED FOR THE ENCLOSURE FOR LOW VOLTAGE SWITCH GEAR AND CONTROL GEAR
  5.3. IS:6005:1998—CODE OF PRACTICE FOR PHOSPHATING OF IRON AND STEEL
  5.4. IS:13871:1993—FOR POWDER COATINGS
  5.5. IS:3618:1966— FOR PHOSPHATE TREATMENT OF IRON AND STEEL FOR PROTECTION AGAINST CORROSION
  5.6. IS:14503:1998—FOR TESTING OF PHOSPHATE I METHODS COATINGS
6. MARKET SURVEY
6.1. GROWTH DRIVERS
6.2. INDUSTRY TRENDS
6.3. MIDDLE EAST DISTRIBUTION PANEL MARKET
6.4. MIDDLE EAST DISTRIBUTION PANEL MARKET
6.5. COMPETITIVE MARKET SHARE
6.6. MIDDLE EAST DISTRIBUTION PANEL INDUSTRY BACKGROUND

7. EXPORT & IMPORT: ALL COUNTRIES
7.1. EXPORT: ALL COUNTRIES
7.2. IMPORT: ALL COUNTRIES

8. FINANCIALS & COMPARISON OF MAJOR INDIAN PLAYERS/COMPANIES
8.1. ABOUT FINANCIAL STATEMENTS OF CMIE DATABASE
8.2. PROFITS & APPROPRIATIONS
8.3. TOTAL LIABILITIES
8.4. TOTAL ASSETS
8.5. NET CASH FLOW FROM OPERATING ACTIVITIES
8.6. SECTION – I
8.6.1. Name of Company with Contact Details
8.6.2. Name of Director(S)
8.6.3. Plant Capacity
8.6.4. Location of Plant
8.6.5. Name of Raw Material(S) Consumed with Quantity & Cost
8.7. SECTION – II
8.7.1. Assets
8.7.2. Cash Flow
8.7.3. Cost as % Ge of Sales
8.7.4. Forex Transaction
8.7.5. Growth in Assets & Liabilities
8.7.6. Growth in Income & Expenditure
8.7.7. Income & Expenditure
8.7.8. Liabilities
8.7.9. Liquidity Ratios
8.7.10. Profitability Ratio
8.7.11. Profits
8.7.12. Return Ratios
8.7.13. Structure of Assets & Liabilities (%)
8.7.14. Working Capital & Turnover Ratios

9. EXPORT & IMPORT STATISTICS DATA OF INDIA
9.1. EXPORT STATISTICS DATA ON CONTROL PANEL CABINET
9.2. IMPORT STATISTICS DATA ON CONTROL PANEL CABINET

10. PRESENT MANUFACTURERS

11. MANUFACTURING PROCESS
11.1. POWDER COATING PROCESS
11.2. COMPONENTS OF POWDER COATING SYSTEM
11.3. MAIN STEPS
11.4. QUALITY CONTROL

12. PROCESS FLOW DIAGRAM

13. BUYER’S LIST
13.1. CONTACT DETAILS OF BUYER’S
13.2. NAME OF DIRECTOR(S)
13.3. PLANT CAPACITY
13.4. LOCATION OF PLANT
13.5. COMPANY WISE CONSUMPTION DETAIL OF THE RAW MATERIALS

14. SUPPLIERS OF PLANT & MACHINERY

15. SUPPLIERS OF RAW MATERIAL

16. PHOTOGRAPHS/IMAGES FOR REFERENCE

16.1. MACHINERY PHOTOGRAPHS
16.2. RAW MATERIAL PHOTOGRAPHS
16.3. PRODUCT PHOTOGRAPHS

17. PLANT LAYOUT
Project Financials

- Project at a Glance
- Assumptions for Profitability workings
- Plant Economics
- Production Schedule
- Land & Building

Annexure

- Factory Land & Building Site Development Expenses
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<td>Consumable Store</td>
<td></td>
</tr>
</tbody>
</table>
- Overheads Required Per Month and Per Annum..........................8
  Utilities & Overheads (Power, Water and Fuel Expenses etc.)
  Royalty and Other Charges
  Selling and Distribution Expenses

- Salary and Wages ........................................................................9

- Turnover Per Annum .....................................................................10

- Share Capital.............................................................................11

  Equity Capital
  Preference Share Capital
• Annexure 1 :: Cost of Project and Means of Finance

• Annexure 2 :: Profitability and Net Cash Accruals

- Revenue/Income/Realisation
- Expenses/Cost of Products/Services/Items
- Gross Profit
- Financial Charges
- Total Cost of Sales
- Net Profit After Taxes
- Net Cash Accruals
• Annexure 3 :: Assessment of Working Capital requirements

- Current Assets
- Gross Working Capital
- Current Liabilities
- Net Working Capital
- Working Note for Calculation of Work-in-process

• Annexure 4 :: Sources and Disposition of Funds
• **Annexure 5 :: Projected Balance Sheets**
  - ROI (Average of Fixed Assets)
  - RONW (Average of Share Capital)
  - ROI (Average of Total Assets)

• **Annexure 6 :: Profitability Ratios**
  - D.S.C.R
  - Earnings Per Share (EPS)
  - Debt Equity Ratio
Annexure 7 :: Break-Even Analysis

- Variable Cost & Expenses
- Semi-Variable/Semi-Fixed Expenses
- Profit Volume Ratio (PVR)
- Fixed Expenses / Cost
- B.E.P
Annexure 8 to 11 :: Sensitivity Analysis-Price/Volume

- Resultant N.P.B.T
- Resultant D.S.C.R
- Resultant PV Ratio
- Resultant DER
- Resultant ROI
- Resultant BEP
• **Annexure 12 :: Shareholding Pattern and Stake Status**
  - Equity Capital
  - Preference Share Capital
• **Annexure 13 :: Quantitative Details-Output/Sales/Stocks**
  - Determined Capacity P.A of Products/Services
  - Achievable Efficiency/Yield % of Products/Services/Items
  - Net Usable Load/Capacity of Products/Services/Items
  - Expected Sales/ Revenue/ Income of Products/ Services/ Items
• Annexure 14 :: Product wise Domestic Sales Realisation

• Annexure 15 :: Total Raw Material Cost

• Annexure 16 :: Raw Material Cost per unit

• Annexure 17 :: Total Lab & ETP Chemical Cost

• Annexure 18 :: Consumables, Store etc.

• Annexure 19 :: Packing Material Cost

• Annexure 20 :: Packing Material Cost Per Unit
<table>
<thead>
<tr>
<th>Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Annexure 21</td>
<td>Employees Expenses</td>
</tr>
<tr>
<td>Annexure 22</td>
<td>Fuel Expenses</td>
</tr>
<tr>
<td>Annexure 23</td>
<td>Power/Electricity Expenses</td>
</tr>
<tr>
<td>Annexure 24</td>
<td>Royalty &amp; Other Charges</td>
</tr>
<tr>
<td>Annexure 25</td>
<td>Repairs &amp; Maintenance Expenses</td>
</tr>
<tr>
<td>Annexure 26</td>
<td>Other Manufacturing Expenses</td>
</tr>
<tr>
<td>Annexure 27</td>
<td>Administration Expenses</td>
</tr>
<tr>
<td>Annexure 28</td>
<td>Selling Expenses</td>
</tr>
</tbody>
</table>
• Annexure 29 :: Depreciation Charges – as per Books (Total)
• Annexure 30 :: Depreciation Charges – as per Books (P & M)
• Annexure 31 :: Depreciation Charges - as per IT Act WDV (Total)
• Annexure 32 :: Depreciation Charges - as per IT Act WDV (P & M)
• Annexure 33 :: Interest and Repayment - Term Loans
• Annexure 34 :: Tax on Profits
• Annexure 35 :: Projected Pay-Back Period and IRR
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