Control Panel Manufacturing Industry.

Production of Control Cabinets.

Electrical Panel Manufacturing

Business









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.

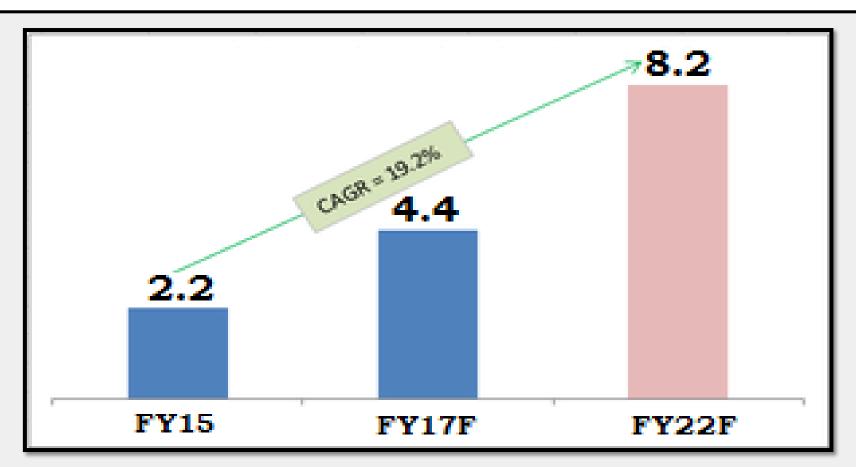


Global Automotive Control Panel Market is driven by factors such as development of electronics and communications industry is also contributing extensively in the growth of the automotive control panel market. The other factors leading to the growth of the automotive control panel market are the introduction 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)





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

PROJECT AT A GLANCE							(`in lacs)
COST O	F PROJE	CT		MEANS	OF FINAN	ICE	
			_			Propose	
Particulars	Existing	Proposed	Total	Particulars	Existing	d	Total
Land & Site Development							
Exp.	0.00	10.00	10.00	Capital	0.00	124.92	124.92
Buildings	0.00	145.50	145.50	Share Premium	0.00	0.00	0.00
				Other Type Share			
Plant & Machineries	0.00	163.65	163.65	Capital	0.00	0.00	0.00
Motor Vehicles	0.00	8.00	8.00	Reserves & Surplus	0.00	0.00	0.00
Office Automation							
Equipments	0.00	40.50	40.50	Cash Subsidy	0.00	0.00	0.00
Technical Knowhow Fees							
& Exp.	0.00	15.00	15.00	Internal Cash Accruals	0.00	0.00	0.00
Franchise & Other				Long/Medium Term			
Deposits	0.00	0.00	0.00	Borrowings	0.00	374.76	374.76
Preliminary& Pre-operative							
Exp	0.00	3.00	3.00	Debentures / Bonds	0.00	0.00	0.00
Provision for				Unsecured			
Contingencies	0.00	16.00	16.00	Loans/Deposits	0.00	0.00	0.00
Margin Money - Working							
Capital	0.00	98.03	98.03				

499.68 TOTAL



0.00

0.00

499.68

TOTAL

	oject at	a Gi	and	E
Year	Annualised	Book	Debt	Divid
		Value		nd

CEPS

8.55

11.45

14.35

17.10

19.66

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EPS

4.67

8.07

14.51

17.38

3-4 11.39

1-

2-3

4-5

5-6

2

	ojoot at		<u> </u>	
Year	Annualised	Book	Debt	Div
		\ / I		

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ed	Book	Debt	Divide

Per Share

14.67 24.00

22.74 18.00

34.13 12.00

66.02 0.00

6.00

48.64

Per

Share

0.00

0.00

0.00

0.00

0.00

Retained

Earnings

Per Share

4.67

8.07

11.39

14.51

17.38

%

100.0

0

100.0

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Payou Probab

%

0.00

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Market

Price

4.67

8.07

11.39

14.51

17.38

P/E

No.of

Times

1.00

1.00

1.00

1.00

1.00

Yield Price/

%

0.00

0.00

0.00

0.00

0.00

Ratio Book Value

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Yea r	D. S. C. R.		Equity as-	

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%

4.88

3.20

2.19

1.57

1.18

Depo Equity Wort

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Debt

3.00

1.64

0.79

0.35

0.12

0.00

2.04

(Number of

times)

3.00

1.64

0.79

0.35

0.12

0.00

Net

Wort

h

%

GPM

%

PBT

%

5.64% 1.89% 1.35%

6.40% 3.03% 1.99%

6.90% 3.83% 2.46%

7.23% 4.39% 2.79%

7.43% 4.75% 3.01%

Profitability Ratio

PAT

%

Net

bution

Contri Ratio

672.9 15.53

773.5 15.30

883.7 15.29

994.0 15.29

1104. 15.29

25

P/V

%

%

%

%

%

Asset Curre

Turno Ratio

S

ver

Ratio

4.07

4.28

4.29

4.19

4.03

nt

1.08

1.16

1.27

1.38

1.63

a	D. S. C. R.	

Individ Cumula Over

(Number of times)

1.27

1.45

1.63

1.83

2.04

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ual

Initi al

1-

2-3

4-5

5-6

1.27

1.63

2.55

3.12

3-4 2.06

2

Project at a Glance

BEP

66.17%

68.75%

28.61%

32.975

2 Years 4

Months

Cash BEP (% of Installed Capacity) Total BEP (% of Installed Capacity)

IRR, PAYBACK and FACR

Internal Rate of Return .. (In %age)

Payback Period of the Project is (In Years) Fixed Assets Coverage Ratio (No. of times)

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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)?



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- 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?



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- This report helps you to identify a profitable project for investing or diversifying into by throwing light to crucial areas like industry size, market potential of the product and reasons for investing in the product
- This report provides vital information on the product like it's characteristics and segmentation
- This report helps you market and place the product correctly by identifying the target customer group of the product



- This report helps you understand the viability of the project by disclosing details like machinery required, project costs and snapshot of other project financials
- The report provides a glimpse of government regulations applicable on the industry
- The report provides forecasts of key parameters which helps to anticipate the industry performance and make sound business decisions



Our Approach:

- Our research reports broadly cover Indian markets, present analysis, outlook and forecast for a period of five years.
- The market forecasts are developed on the basis of secondary research and are cross-validated through interactions with the industry players
- We use reliable sources of information and databases. And information from such sources is processed by us and included in the report



Scope of the Report

The report titled "Market Survey cum Detailed Techno Economic Feasibility Report on Control Panels (Cabinet)." provides an insight into Control Panels (Cabinet) market in India with focus on uses and applications, Manufacturing Process, Process Flow Sheets, Plant Layout and Project Financials of Control Panels (Cabinet) project. The report assesses the market sizing and growth of the Indian Control Panels (Cabinet) Industry. While expanding a current business or while venturing into new business, entrepreneurs are often faced with the dilemma of zeroing in on a suitable product/line. And before diversifying/venturing into any product, they wish to study the following aspects of the identified product:



- Good Present/Future Demand
- Export-Import Market Potential
- Raw Material & Manpower Availability
- Project Costs and Payback Period

We at NPCS, through our reliable expertise in the project consultancy and market research field, have demystified the situation by putting forward the emerging business opportunity in the Control Panels (Cabinet) sector in India along with its business prospects. Through this report we have identified Control Panels (Cabinet) project as a lucrative investment avenue.



Tags

Manufacturing, Industrial Control Panels, Control Panel Manufacture, Panel Manufacturing of Control Panels, Manufacturing of Electrical Panel, Control Panel Production, Control Panels Manufacturing Industry, Electrical Control Panel Manufacturing Process, Electrical Panel Manufacturing Process Pdf, Electrical Control Panel Manufacture, Electrical Panel Manufacturing Project Report, Industrial Control Panel Manufacturers, Electrical Control Panel Manufacturing Industry, Panel Manufacture, Control Panel Manufacturing Company, Control Panels Boxes & Boards Manufacturing, Integrated Control Panels, Electric Control Panel, Panel Manufacturing, Electrical Control Panel Manufacturing, Control Cabinets, Control Panel Cabinet, Control Panel Boards Cabinet Manufacture, Custom Control Panels & Cabinets for Industrial, Control Cabinet Manufacturing, Manufacturing an Electrical Control Cabinet, Panel and Control Cabinets, Electrical Cabinets, Production of Electric Cabinets, Project Report on Control Panel Manufacturing Industry, Detailed Project Report on Control Cabinet Manufacturing, Project Report on Control Panel Manufacturing, Pre-Investment Feasibility Study on Control Panel Manufacturing, Techno-Economic feasibility study on Control Cabinet Manufacturing, Feasibility report on Control Cabinet Manufacturing, Free Project Profile on Control Cabinet Manufacturing, Project profile on Control Cabinet Manufacturing, Download free project profile on Control Panel Manufacturing

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And before diversifying/venturing into any product, they wish to study the following aspects of the identified product:

- Good Present/Future Demand
- Export-Import Market Potential
- Raw Material & Manpower Availability
- Project Costs and Payback Period

The detailed project report covers all aspect of business, from analyzing the market, confirming availability of various necessities such as Manufacturing Plant, Detailed Project Report, Profile, Business Plan, Industry Trends, Market Research, Survey, Manufacturing Process, Machinery, Raw Materials, Feasibility Study, Investment Opportunities, Cost and Revenue, Plant Economics, Production Schedule,



Working Capital Requirement, uses and applications, Plant Layout, Project Financials, Process Flow Sheet, Cost of Project, Projected Balance Sheets, Profitability Ratios, Break Even Analysis. The DPR (Detailed Project Report) is formulated by highly accomplished and experienced consultants and the market research and analysis are supported by a panel of experts and digitalized data bank.

We at NPCS, through our reliable expertise in the project consultancy and market research field, have demystified the situation by putting forward the emerging business opportunity in India along with its business prospects.....Read more



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- Business Plan
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- Industry Trend
- Databases on CD-ROM
- Laboratory Testing Services
- Turnkey Project Consultancy/Solutions
- Entrepreneur India (An Industrial Monthly Journal)



How are we different?

- We have two decades long experience in project consultancy and market research field
- We empower our customers with the prerequisite know-how to take sound business decisions
- We help catalyze business growth by providing distinctive and profound market analysis
- We serve a wide array of customers, from individual entrepreneurs to Corporations and Foreign Investors
- We use authentic & reliable sources to ensure business precision



Our Approach

Requirement collection

Thorough analysis of the project

Economic feasibility study of the Project

Market potential survey/research

Report Compilation



Contact us

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