Porcelain Insulator Manufacturing Industry.

Production of Ceramic Electrical Insulator

Electric Insulator Market worth $13.34 billion by 2023
Introduction

An insulator is a material that does not conduct electrical current. Insulating materials include paper, plastic, rubber, glass and air. Vacuum is also an insulator, but is not actually a material. Most electrical conductors are covered by insulation. Magnet wire is coated with an extremely thin layer of insulation so that more turns or larger wire may be used in the winding of transformers etc. Insulators are generally rated at hundreds of volts, but some that are used in power distribution are rated as high as hundreds of thousands of volts. Insulators support and/or keep electrical conductors from making unintended contact with each other.
Insulator made by hard paste of Porcelain is also known as true porcelain insulator. Out of all the wide varieties of ceramics & true porcelain is the hardest, the most durable – which is one of the reasons porcelain insulator are largely replaced glass insulators.
Advantages of Porcelain Insulators:

- Environmental friendly. At its disposal, the porcelain insulator is not dangerous waste.
- In comparison to the polymer, electrical strength of porcelain is higher: 25+ kV/mm v. 20 kV/mm at the polymer.
- The porcelain insulator has demonstrably higher resistance to degradation of the surface, does not degrade or carbonate during charges; the conductive path is created very slowly in comparison of the surface of a composite-material insulator.
- The ceramic material is resistant to rodents, termites, birds and other animals capable of compromising the integrity of polymers.
- The porcelain insulator has a wide scope of application: Contactors, disconnections, equipment transformers, condensers, and grommets also with extreme surface, atypical insulators (filters).
- The porcelain insulator is suitable for extreme hot/cold changes in the environment. It is suitable for environments with dust, salt and high moisture, or for combination of all of the above.
- The ceramic material offers very high mechanical strength under pressure and hardness.
- The design is modified to suit the environment.
Market Outlook

The demand for porcelain & ceramic insulators in India is experiencing rising demand due to various driving factors which, in turn, have been instrumental in providing immense opportunities to manufacturers to grow and operate in the market lucratively. Growing Indian economy is having a strong impact on the Indian porcelain & ceramic insulators market. Apart from the large and established players, a number of local players operate in the market. Moreover, demand for ceramic insulators is high in India owing to their easy availability and cost effectiveness.
Indian Electric Insulator Market

India Electric Insulators Market size was valued over USD 300 million in 2017 and is set to expand over 7% by 2024. Increasing investments toward the modernization of aging grid infrastructure along with rapid urbanization will drive the India electric insulators market. Rising investments for the expansion of electric networks along with investment targets supporting the complete value chain of power transmission, generation, and distribution will further propel the industry dynamics.

India transformers electric insulators market will witness growth on account of escalating electric infrastructure spending coupled the ongoing industrial expansions being carried out in the country. Increasing investments made by government authorities for the reduction of transmission losses will further complement the industry growth.
India Electric Insulators Market Size, By Material, (USD Million)
Global Electric Insulator Market

The electric insulator market is expected to expand at a moderate rate during the forecast period, 2018 to 2023. The rapid growth and increasing investments in the transmission and distribution sector and for the up-gradation of aging grid infrastructure, to establish a sustainable electricity network, is expected to boost the electric insulator market. Increasing demand for smart grids, along with stringent policies for energy efficiency, is expected to have a good impact on the electric insulator market. Technological developments in the emerging economies like China, Japan, and India, coupled with the government initiatives for energy efficiency to obtain a reliable and efficient grid infrastructure, along with rapid urbanization, is expected to further drive the electric insulator market.
The ceramic insulator market is expected to witness a good growth during the forecast period, owing to its increasing applications in various industrial sectors and rural areas. Rapid development in technology is leading to the adoption of ceramic insulators in several transmission lines, because of their light weight and good mechanical strength to weight ratio. Increasing focus toward railway projects in countries, such as India, is expected to boost the demand for ceramic insulators market.

Refurbishment of old transmission and distribution lines, along with new electrification projects are some of the factors driving the growth of the ceramic insulators market, over the forecast period.
Global Electric Insulator Market: Market Share by Region (%), 2017
Increasing investments in T&D networks, refurbishment of the existing grid networks, and growing adoption of renewable energy sources across the globe are likely to drive the electric insulator market. Increasing investments in smart grid projects and growing demand for HVDC transmission projects can lead to opportunities in the electric insulator market.

The low voltage segment led the electric insulator market in 2017 as these types of insulators are mostly used in residential applications and across various industries such as chemical plants, food & beverage, cement, steel manufacturing, and other industries. Increasing industrialization and urbanization is one of the major drivers for the growth of the low voltage segment during the forecast period. Factors such as increasing demand for electricity, rising power generation capacity, and increasing usage of renewable sources to generate electricity are expected to boost the demand for the low voltage segment.
The ceramic insulator market is expected to witness potential growth, owing to increasing applications of ceramic insulators in various industrial sectors and rural areas. With rapid development in technology, several transmission lines are expected to adopt ceramic insulator products as they are light weight and have higher mechanical strength-to-weight ratio. Increasing focus towards railway projects in emerging countries, such as India, which have the most rail lines in the world is expected to boost the demand for ceramic insulators in electrical and thermal insulation. Moreover, an increase in the development of smart grids in North America and Europe is expected to drive the demand for ceramic insulators over the forecast period. Renovation and remodeling of old transmission and distribution lines along with new electrification projects are some of the factors driving growth of the ceramic insulators market over the forecast period.
Based on the geographic segmentation, the ceramic insulator market is anticipated to remain prevalent in the Asia-Pacific region, which includes countries, such as India and China. This can be attributed to increasing construction activities and electrification provided for rural development. Also, high temperature is a problem in tropical areas where thermal insulation could be the solution for high voltage transformers. Thus, such regions are projected to emerge as lucrative prospects for the ceramic insulator market over the forecast period.
Few Indian Major Players are as under:

- Sampat Ceramics Private Limited
- CJI Porcelain Pvt. Ltd.
- Aditya Birla Insulators
- Bikaner Porcelain Private Limited
- Jaipuria Brothers Trans Electrical Private Limited
## Project at a Glance

### PROJECT AT A GLANCE

<table>
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<tr>
<th>COST OF PROJECT</th>
<th>MEANS OF FINANCE (US$ in Thousands)</th>
</tr>
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<tr>
<td><strong>Particulars</strong></td>
<td><strong>Existing</strong></td>
</tr>
<tr>
<td>Land &amp; Site Development Exp.</td>
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<tr>
<td>Buildings</td>
<td>0.00</td>
</tr>
<tr>
<td>Plant &amp; Machineries</td>
<td>0.00</td>
</tr>
<tr>
<td>Motor Vehicles</td>
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<tr>
<td>Office Automation Equipments</td>
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<tr>
<td>Technical Knowhow Fees &amp; Exp.</td>
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<tr>
<td>Franchise &amp; Other Deposits</td>
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<tr>
<td>Preliminary &amp; Pre-operative Exp</td>
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</tr>
<tr>
<td>Provision for Contingencies</td>
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</tr>
<tr>
<td>Margin Money - Working Capital</td>
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<tr>
<td><strong>TOTAL</strong></td>
<td>0.00</td>
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### Project at a Glance

<table>
<thead>
<tr>
<th>Year</th>
<th>Annualised Book Value</th>
<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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<tr>
<td></td>
<td>EPS US$</td>
<td>CEPS US$</td>
<td>Per Share US$</td>
<td>Per Share US$</td>
<td>%</td>
<td>US$</td>
<td>%</td>
<td>US$</td>
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<td>861.57</td>
<td>563.6</td>
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<td>1400.0</td>
<td>1800.0</td>
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<td>0.00</td>
<td>100.00</td>
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<td>1628.0</td>
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</table>
## Project at a Glance

<table>
<thead>
<tr>
<th>Year</th>
<th>D. S. C. R.</th>
<th>Debt / Equity as-Deposits Debt</th>
<th>Total Net Worth</th>
<th>Return on Net Worth</th>
<th>Profitability Ratio</th>
<th>Asset Turnover Ratio</th>
<th>Current Ratio</th>
</tr>
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<tbody>
<tr>
<td></td>
<td>Individual</td>
<td>Cumulative</td>
<td>Overall</td>
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<tr>
<td></td>
<td>(Number of times)</td>
<td>(Number of times)</td>
<td>%</td>
<td>%</td>
<td>%</td>
<td>%</td>
<td>%</td>
</tr>
<tr>
<td>Initial</td>
<td>3.00</td>
<td>3.00</td>
<td>30.21</td>
<td>19.26%</td>
<td>12.64%</td>
<td>1212.82</td>
<td>71.30%</td>
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<td>1-2</td>
<td>1.28</td>
<td>1.28</td>
<td>1.54</td>
<td>1.54</td>
<td>1.77</td>
<td>33.82</td>
<td>16.37%</td>
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<tr>
<td>2-3</td>
<td>1.59</td>
<td>1.43</td>
<td>0.75</td>
<td>0.75</td>
<td>0.92</td>
<td>36.24</td>
<td>19.03%</td>
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<tr>
<td>3-4</td>
<td>1.96</td>
<td>1.59</td>
<td>1.95</td>
<td>0.34</td>
<td>0.47</td>
<td>37.84</td>
<td>29.91%</td>
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<td>4-5</td>
<td>2.38</td>
<td>1.76</td>
<td>0.12</td>
<td>0.12</td>
<td>0.22</td>
<td>38.86</td>
<td>20.94%</td>
</tr>
</tbody>
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### Project at a Glance

<table>
<thead>
<tr>
<th>BEP</th>
<th></th>
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</thead>
<tbody>
<tr>
<td>BEP - Maximum Utilisation Year</td>
<td>5</td>
</tr>
<tr>
<td>Cash BEP (% of Installed Capacity)</td>
<td>46.86%</td>
</tr>
<tr>
<td>Total BEP (% of Installed Capacity)</td>
<td>50.54%</td>
</tr>
<tr>
<td>IRR, PAYBACK and FACR</td>
<td></td>
</tr>
<tr>
<td>Internal Rate of Return .. ( In %age )</td>
<td>24.70%</td>
</tr>
<tr>
<td>Payback Period of the Project is ( In Years )</td>
<td>2 Years 4 Months</td>
</tr>
<tr>
<td>Fixed Assets Coverage Ratio ( No. of times )</td>
<td>2.682</td>
</tr>
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<td>Employees Expenses</td>
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<tr>
<td>23</td>
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<td>24</td>
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<tr>
<td>25</td>
<td>Repairs &amp; Maintenance Expenses</td>
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<td>26</td>
<td>Other Manufacturing Expenses</td>
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Reasons for Buying our Report:

• 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.
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Scope of the Report

The report titled “Market Survey cum Detailed Techno Economic Feasibility Report on Porcelain Insulator.” provides an insight into Porcelain Insulator market in India with focus on uses and applications, Manufacturing Process, Process Flow Sheets, Plant Layout and Project Financials of Porcelain Insulator project. The report assesses the market sizing and growth of the Indian Porcelain Insulator 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 Porcelain Insulator sector in India along with its business prospects. Through this report we have identified Porcelain Insulator project as a lucrative investment avenue.
Niir Project Consultancy Services (NPCS) can provide Detailed Project Report on Porcelain Insulator Manufacturing Industry.

Production of Ceramic Electrical Insulator

Electric Insulator Market worth $13.34 billion by 2023

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Our Market Survey cum Detailed Techno Economic Feasibility Report provides an insight of market in India. The report assesses the market sizing and growth of the 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
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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
Contact us

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- Project Identification
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- Market Research Reports
- Business Plan
- Technology Books and Directory
- 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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