**EI Site**

**GI Metal Sheet Products • Octagonal • Square • Rectangle Poles [NPCS/5279/23821]**

**EI Site--Production of Galvanized Iron (GI) Metal Sheets Products (Octagonal, Square, Rectangle Poles). Business Plan in Iron and Steel Industry.**

Galvanization is the process of applying a protective zinc coating to steel or iron in order to prevent it from rusting. The term is derived from the name of Italian scientist Luigi Galvani. Galvanized iron (GI) sheets are steel sheets which are basically coated with zinc and include a range of hot dip galvanized and electro-galvanized steel sheets. Zinc weathers at a very slow rate, so the coating generally has a long life. Zinc has a greater electro-negativity than iron and hence provides cathodic (or sacrificial) protection to the steel.

**Related projects:-** [**Steel and Steel Products, Iron and Steel, Ferrous Metals Products**](https://niir.org/profile-project-reports/profiles/steel-steel-products-iron-steel-ferrous-metals-products-alloy-steel-cold-rolling-foundry-hot-rolling-pelletizing-rolling-rolling-mill-stainless-steel-steel-mill-tinplate-carbon-steel-forge-products-mild-steels-projects/z%2C%2C21%2C0%2Ca/index.html)

**Advantages with use of GI sheets**

**Low cost** – Galvanizing is lower in first cost than many other commonly specified protective coatings for steel.

Less maintenance cost – GI sheets are virtually maintenance free and last longer.

Long life -The life expectancy of GI sheets is quite high in rural, urban and coastal environments.

Reliability. Galvanizing is usually carried out as per standards and minimum coating thicknesses are applied. Coating life and performance are reliable and predictable.

**Related books:** [**Steel, Iron, Ferrous, Non-Ferrous Metals**](https://niir.org/books/books/steel-iron-ferrous-non-ferrous-metals-with-casting-forging-aluminium-ferroalloys-technology/z%2C%2Ca%2Cf%2C0%2Ca/index.html)

Toughest coating – A galvanized coating has a unique metallurgical structure which gives outstanding resistance to mechanical damage in transport, erection and service.

Automatic protection for damaged areas – Galvanized coatings corrode preferentially to steel, providing cathodic or sacrificial protection to small areas of steel exposed through damage. Unlike organic coatings, small damaged areas need no touch up.

Complete protection – Every part of a galvanized iron sheet is protected.

 Ease of inspection – Galvanized coating is assessed readily by eye, and simple non-destructive thickness testing methods can be used.

Galvanizing process is not dependent on weather conditions.

The surface of GI sheet is aesthetically pleasing.

**Related videos**:- [Steel and Steel Products, Iron and Steel, Ferrous Metals Products, Alloy Steel](https://youtube.com/playlist?list=PL61bSU5tvb-WxHXRK76c_uknb0fX1TbJy)

**Market outlook**

The global Sheet Metal market is forecasted to grow at a rate of 4.6% in terms of value, from 2020 to reach USD 398.62 billion by 2027. Sheet metal is among the standard building materials which are used in the construction sector for a variety of applications. Consistent expansion of the building & construction industry is one of the critical drivers for the sheet metal market.

**Related project:-** [**Business Plan-GI Metal Sheet Products (Octagonal, Square, Rectangle Poles)**](https://www.entrepreneurindia.co/project-and-profile-details/Business%20Plan-GI%20Metal%20Sheet%20Products%20%28Octagonal%2C%20Square%2C%20Rectangle%20Poles%29)

In the coming years, demand for titanium is anticipated to grow for its extensive use in the aerospace sector for applications including aircraft skin, engine components, structural parts, missiles, hydraulic systems, and rockets. The rising trend among automakers to partner with manufacturers of carbon fiber is likely to emerge as a key factor restraining the growth of the market. Carbon fiber is also experiencing growing demand in heavy industries, where a reduction in the machine arms weight can improve its speed and working life, thus increases operational efficiency, resulting in significant savings. The carbon fiber made components are 50% lighter in comparison to parts made from aluminum and five times lighter in contrast to steel components.

**Market Research; -** [**Market Research Report**](https://www.entrepreneurindia.co/market-research-report)

**Key Players:**

Chetna Steel Tubes Pvt. Ltd.

Electro Poles Products Pvt. Ltd.

Jindal (India) Ltd.

Utkal Galvanizers Ltd.

Utkarsh India Ltd.

**For More Details, Click Here:-**

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**Tags:-**

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