



KP Green Engineering Limited

(Formerly known as K P Buildcon Pvt. Ltd.)

A COMPANY TO SOLVE THE DIFFICULTIES

BSE  Listed company

KP Green Engineering Limited

An ISO 9001: 2015 certified and
BSE Listed company

info@kpgroup.co



Since 1994



GROUP

www.kpgroup.co

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Introduction

KP Green Engineering Limited (KPG) is the parent company among all the existing Companies of the group. It was established by Mr. Faruk Patel in 1994, with an aim to provide single window solutions to all infrastructural requirements of the telecom service providers.

- Executed large projects of Mobile Telecommunications in 15 major states of India as TSP
- Supplied Telecom Towers from own Dabhasa Factory.
- Executed OFC Project work of more than 1700 KM
- Vodafone, 2000 KM of OFC O&M for patrolling, fault rectification

2001 Established	160 Employees	39 Projects	980 Annual Turnover (Millions)
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Now, it has the well-established business of FRT, OFC, and is also having state of an art manufacturing facility of Fabrication and Hot Dip Galvanizing all under one roof located at Dabhasa, Tal.: Padra, Dist. Vadodara – 391440, Gujarat



Manufacturing Infrastructure

Our Manufacturing Unit is spread across an area of 2,00,000 Sq. Ft., and equipped with latest CNC Machinery and Equipment. It is our state-of-art in house system & Infrastructure that permits us to cater any type of customer's requirement of Fabrications and Hot-Dip Galvanizing of Transmission Line Structure, Substation & Switch yard Structures and Windmill Structures. We are well equipped with CNC Angle Lines Machines which enables punching, drilling, stamping, cutting of steel in any shape & size. Along with, we also have various CNC Shearing & Bending Machines, Power Press Machines, Drilling Machines and MIG Welding Machines.



About KP Group

"Right from Infrastructure Development to harnessing the power of Renewable Energy. We are leaving no stone unturned to build a better and clean future."



The group has taken full advantage of rapid industrialization and economic progress of Gujarat by developing business in renewable energy sector (Solar & Wind). KP Group has successfully completed Initial Public Offer in both Solar and Wind renewable energy and has its three companies listed on BSE Limited.

KP Green Engineering Limited set up on 2,00,000 sq. feet land area has large facility of Fabrication and Galvanizing Plants with an annual installed capacity of 53,000 MTs, equipped with latest modern machineries to handle heavy fabrication jobs. It's an ISO certified and BSE Listed company engaged in Fabrication & Galvanizing of all types of Structures, Transmission Line Towers, etc.

KP Energy Limited provides complete solutions from concept till completion of the project life-cycle of a Wind Project. Activities covered are Siting of Wind-farms, Lands & Permits acquisition, EPCC (Engineering, Procurement, Construction & Commissioning) of Wind Project Infrastructure including power transmission and Operations & Maintenance of entire Balance of Plant of a Utility Scale Windfarm.

KPI Green Energy Limited (Formerly known as K.P.I. Global Infrastructure Limited) incorporated in 2008, is the vertical of KP Group and a prominent Gujarat based solar power generating company, focused on providing solar power through different business verticals. The Company develops, builds, owns, operates and maintains solar power plants as an Independent Power Producer (IPP) and as service provider to Captive Power Producer (CPP) under the brand name of 'Solarism'.

Vision, Mission, Goal

Vision

"Powering India by the power of Nature"

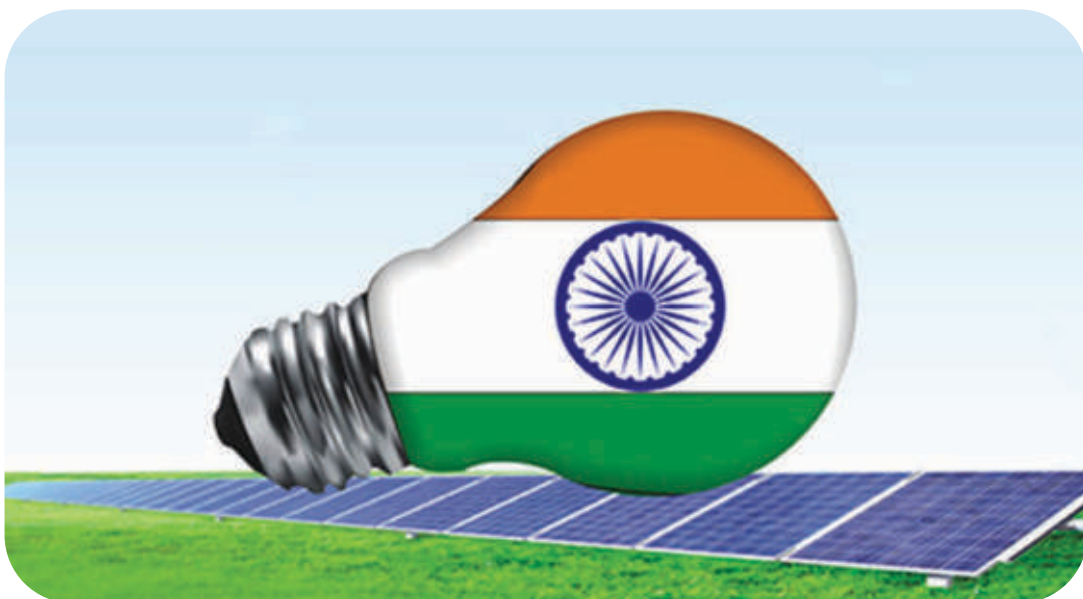
Mission

Accelerate the adoption of renewable technology across India to conserve Our environment and provide an environment friendly and sustainable source of energy through economical and sustainable solar renewable energy generating models for our customers and thereby transit them from fossil fuel energy to renewable energy

Values

Ethical, Transparent, Equal Opportunity to all, Respect for Diversity (gender, geography, religion, language, etc.),

Respect for the individual, Environmentalism



Our Management Team



Dr. Faruk G. Patel

Chairman & Non-Executive Director



Mr. Moinul Kadva

Whole Time Director



Mr. Hassan Faruk Patel

Non-Executive Director



Mr. Amitkumar Subhashchandra Khandelwal

Non-Executive Director



Dr. Indu Gupta Rao

Independent Director



Mr. Surinder Kumar Negi

Independent Director



CA Ekta Aagam Sanghavi

Independent Director



Dr. Tejpalsingh Jagatsingh Bisht

Independent Director



Mr. Pravin Kumar Singh

Chief Financial Officer



Mr. Saurabh Sharma

Company Secretary & Compliance Officer



Mr. Sirish Thakker

Vice President Business Development



Mr. Sarfaraz Patel

Telecom Head



Mr. Ashfak Khan

Chief Account Officer



Behind the success of KP Green Engineering Limited is a team of innovative brains under the flagship of CMD Dr. Faruk Patel. The leadership team brings rich experience & proficiency to our business, leading our company to the next altitudes.

Manufacturing Facilities

Our Manufacturing Unit is spread across an area of 2,00,000 sq. Ft., and equipped with the latest CNC Machinery and Equipment.

It is our state-of-art in-house system & Infrastructure that permits us to cater to any type of customer's requirement of Fabrication and Hot-Dip Galvanizing of Transmission Line Structure, Substation & Switchyard Structures, and Windmill Structures.

We are well equipped with CNC Angle Lines Machines which enables punching, drilling, stamping, cutting of steel in any shape & size. Along with this, we also have various CNC Shearing & Bending Machines, Power Press Machines, Drilling Machines, and MIG Welding Machines.

We also have the latest Roll-forming Lines to manufacture C & Z Profiles ideal for Solar Module Mounting Support Structures, Pre-Engineered Building Construction, and Metal Beam Crash Barriers.





Our trained inspectors, periodic maintenance check-ups of machines, system upgrades, and a streamlined production flow-chart enable us to offer products and services as per excellence.

Our **Dabhasa** Fabrication plant has integrated facilities from Design, Engineering, Fabrication of all types of structures as per various indian and international standards and **Manufacturing of Disconnecter (Isolator)**

At KPG, every stage of production and execution is managed with the help of more than 12 strong load-bearing EOT cranes and 2 mobile cranes, ensuring efficient, safe, and easy material handling at different stages.

Each & Every product undergoes a series of stringent quality checks before they reach the customers. With an in-house testing facility, the product is assured of quality and compliance with required standard norms.

With our latest Galvanizing Kettle setup (8 Mtr. Long X 1 Mtr. Wide X 1.8 Mtr. Deep), we ensure that our structures are strong, corrosion-resistant, and aesthetically well finished.

The three main steps in the hot-dip galvanizing process are

- **Surface Preparation**
- **Galvanizing**
- **Dichromate Treatment**

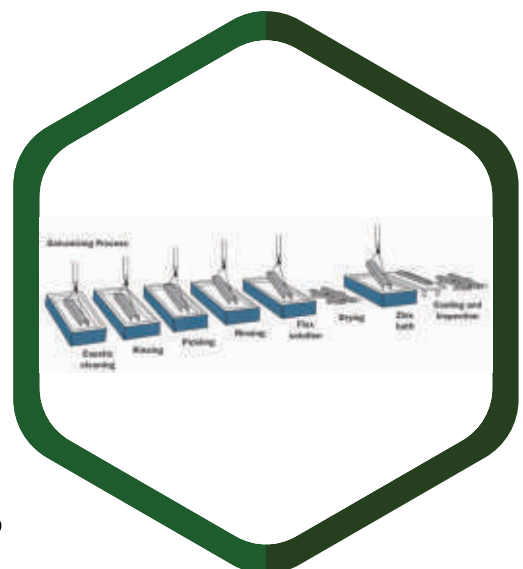
Surface Preparation includes Degreasing, Pickling, and Fluxing. The purpose of surface preparation in the hot-dip galvanizing process is to obtain the cleanest possible steel surface by removing all of the oxides and other contaminating residues.

Degreasing baths have an alkaline caustic solution that removes organic contaminants such as dirt, oil, and grease from the surface of the steel. After degreasing the steel is rinsed with water.

Pickling Tank has diluted solution of HCL which removes oxides and mill scale. Once all oxidation has been removed from the steel, it is again rinsed with water.

The fluxing purpose is to clean the steel of all oxidation developed since the pickling of the steel and to create a protective coating to prevent any oxidation before entering the galvanizing kettle.

After degreasing, pickling, and fluxing, the surface of the steel is a near-white metal, clean and completely free of any oxides or other contaminants. And it is further moved for Galvanizing Process into Galvanizing Kettle.

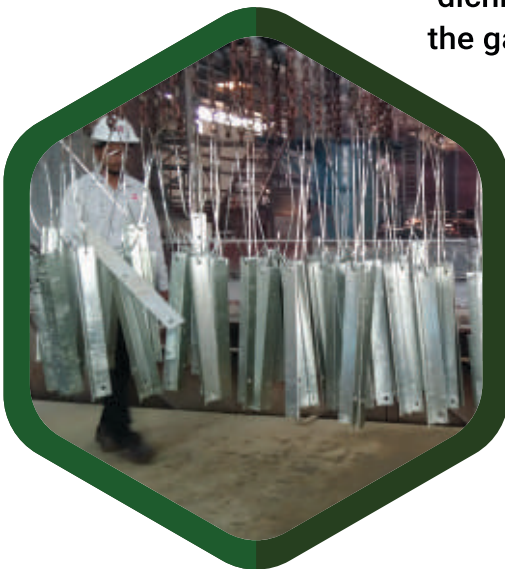


The galvanizing process is commonly known as HDG (Hot Dip Galvanizing). In this process after surface preparation, Steel components are dipped into a molten zinc bath a series of corrosion-resistant, zinc-iron alloy layers are formed by a metallurgical reaction between the steel and zinc.

This reaction is a diffusion process, so the coating forms perpendicular to all surfaces creating a uniform thickness throughout the part. This process has a distinct advantage over all other corrosion protection methods.

Dichromate Treatment is considered as post-treatment to enhance the galvanizing coating minimizing white rust. One of the most commonly used treatments is quenching.

This quenching tank contains water with sodium dichromate to create a passivation layer that protects the galvanized steel during storage and transportation.



Thus, in short, Hot Dip Galvanizing forms a sacrificial protection Zinc – Iron Alloy coating, Metallurgical bonded to the base steel. This coating is abrasion, resistant, reliable, and durable, thus providing maintenance-free protection to steel structures.

Galvanizing provides superior corrosion protection through a metallurgically bonded finish which reduces maintenance cost and environmental impact over the life of the steel.

Isolator Division

KP Green Engineering Limited has been a name to reckon with in the global electrical arena. We bring all our products with leading-edge technology which supplement the existing range of products in order to complete the scope of the substation equipment such as outdoor offload Disconnecter (Isolator) as per IEC 62271-102.

We started manufacturing and supply of the isolators in the year 2020 and within a short span of time, we have made our presence in Gujarat as well as in India.



• Double Break Isolator / Disconnecter

Standards	IEC 62271-102: 2018
Design	Double Break Centre Post Rotating
Voltage Rating	12 to 420 kV
Current Rating	200 to 3150 Amps
Short-Time Current Rating	From 16 kA/1s to 50 kA/3s
Operating Mechanism	Motor Operated, Gear Operated, Handle Operated
Special Purpose Applications	Underhung, Tandem, Vertically Mounted, Double break with Double ES



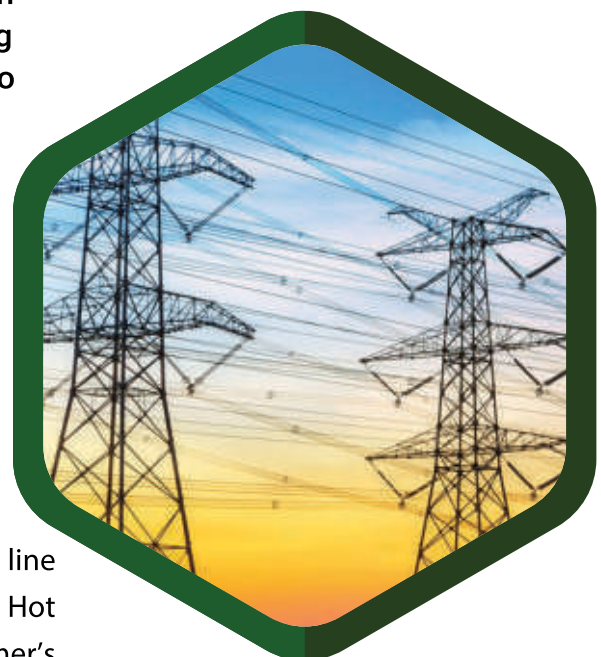
Our Business Verticals

• Transmission Line Towers

Transmission line towers are being used in the Electrification of projects for transmitting the power from power generating units to Substations.

The design of different types of transmission line towers depends on various factors such as voltage (33 kV to 800 kV), conductor & earth wire, wind zone, line deviation angle (suspension, tension & terminal, tee off the tower)

We manufacture all types of lattice transmission line towers structures as per customer requirements with Hot Dip Galvanizing coating thickness as per customer's specification & requirement as per the weather conditions of the location of the tower.



• **Substation & Switch Yard Structures**

The substation is a high-voltage electric system facility. The purpose of a substation is to step down high voltage electricity from the transmission system to lower voltage electricity so it can be easily supplied to homes and businesses in the area through lower-voltage distribution lines. It also is used to change AC voltages from one level to another, and/or change alternating current to direct current or direct current to alternating current.

We manufacture substation & switchyard structures which include Gantries & Equipment support structures as per customers' requirements.

Gantry structures are mainly used to guide the power conductors from the last tower near the substation to the electrical equipment and for line crossing. This structure consists of a number of columns and beams, which depend on the number of circuits of the line. Equipment Support Structures are columns, supporting electric equipment in a substation. Depending upon the site and client's requirement, the Gantry and Equipment support structures can be mounted on substation building also.



• **Windmill Lattice Towers**



We manufacture steel structures suitable for WTG Lattice Towers with any type of material specification as per required height & high wind speed zones.

• Cable Tray

We are the manufacturer and supplier of CABLE TRAYS. We manufacture both industrially applicable cable trays range of Hot Dip Galvanized Perforated and Ladder type cable trays that are accompanied with cable support systems and accessories.

- **Thickness** 1.6mm, 2mm, 2.5mm & 3mm
- **Width** Ranging from 50 to 1200mm
- **Length** 2400 mm 3000 mm 6000 mm
- **Side Rail Height** 50 mm, 100 mm, 150 mm
- **Tray Type** Perforated Cable Tray,
Ladder Type Cable Tray.
- **Materials** Mild Steels, Pre-Galvanize sheet,
FRP
- **Finishing** Hot Dip Galvanized

A. Perforated Cable Tray

B. Ladder Type Tray

A. Perforated Cable Tray

We manufacture a wide range of Perforated Cable Trays, which are ideal to install/lay a large volume of power cables. Overheating and consecutive damaging of cable is avoided, coupler holes inside facilities easy connecting of cable trays to each other. Perforated cable trays can be hung using a centre rod support, C-hanger, or two-trapeze configuration. They can also be mounted on the wall using brackets.

Range of Width

50 mm to 600 mm

Range of Span

2.5 m to 6 m

Sheet Thickness

1.6 mm to 2.5 mm & 3 mm

Finish Types

Hot Dip Galvanized, Pre-Galvanised

Range of Height

40mm, 50mm, 75 mm

RF/IB

12mm, 15mm

Material

Mild Steel, Pre-Galvanized Iron



B. Ladder Type Tray

We manufacture a wide range of Perforated Cable Trays, which are ideal to install/lay a large volume of power cables. Overheating and consecutive damaging of cable is avoided, coupler holes inside facilities easy connecting of cable trays to each other. Perforated cable trays can be hung using a centre rod support, C-hanger, or two-trapeze configuration. They can also be mounted on the wall using brackets.

Range of Width

150 mm to 1500 mm

Range of Span

2.5 m to 6 m

Sheet Thickness

1.5 mm to 3 mm

Rung Spacing

250 mm, 300 mm

Range of Height

20 mm to 150 mm

Finish Types

Hot Dip Galvanized

Material

Mild Steel, Pre-Galvanized Iron

- **Solar Panel Module Mounting Structures**

KPGEL has set up manufacturing facilities for various types of profiles covering all types of Solar Panel Module Mounting Structure required for SPV Power Plant Projects and manufacturing product profile comprises of Hot Dip Galvanized Solar Structures as well as Galvalume sheet & pre-galvanized structures such as Rafter, Purlins, Column, Bracing (side, rear, back, etc), C & Lip Channels, HAT sections, MS Angle sections, Joint plates, & Beam, etc., based on customer drawings & specifications.



- **Solar Tracker Mounting Structures**



- **Roofing Chanel - C & Z Purlins for Pre-Engineering Building construction**

We manufacture both type of C & Z purlins which is also known as cold-form or roll formed structural steel section. In today's modern world C and Z steel purlins are best for fast construction of steel industrial buildings (Pre-Engineered Building)

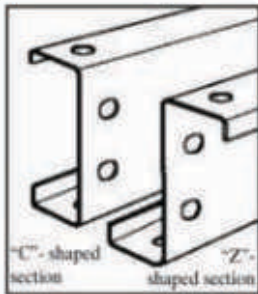


PEBs can be delivered to a site in just 4 to 6 weeks conventional steel structures take as much as 25 weeks to complete. The unique techniques employed during fabrication help PEBs be up to 30% lighter than regular steel products. No welding or fabrication is required at the construction site, resulting in greater speed and efficiency.

Pre-engineered buildings have gained a global reputation for durability, water, and earthquake resistance. PEBs are tremendously versatile – they are easy to set up, expand, modify, and transport to different locations



• Pre-Engineered Building



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Pre-engineered buildings have gained a global reputation for durability, water, and earthquake resistance. PEBs are tremendously versatile – they are easy to set up, expand, modify, and transport to different locations

• Solar Water Pump Structures

KPGEL, manufactures Module Mounting Structures for SPV based agricultural and water pumping structures.

The solar-powered pump is used for providing water to isolated locations. Solar pumps are more popular among farmers and are used to irrigate agricultural land. But now, these pumps are increasingly used for fountains, swimming pool pumps, water circulation pumps, mono-block home pumps, and other similar applications.

TAAlmost all states as well as central government is promoting use of Solar Energy all of over the country for agricultural as well as Potable Water Pumping.

Government of India has recently launched KUSUM (Kisan Urja Suaraksha Evam Utthaan Mahaabhiyan) scheme in which state governments & central government plan to install Solar Water Pumps all over India.

These pumps are more economical since they don't need grid electricity and reduce carbon footprints too



• Galvanized (GI) Earthing Strips and Flats



We at KPGEL provides a wide range of GI (Galvanized) Earthing Strips/Flats as per customer's specification & requirements.

Galvanized Earthing Strips/Flats are connected to the actual Earthing bar, and in some places, they are used instead of insulation cables due to lower cost and high benefits, and it result in maximum Earthing resistance and meet all the required installation requirement. It is used to provide earthing to various areas like industrial, residential, commercial, etc.

• Sectors Served



Solar Power Plant



Wind Mills (WTC)



Power Transmission



Pharma Industries



Oil & Gas Refineries



**Railway & Metro
Electrifications**



**Chemical & Fertilizers
Industries**



**Pre Engineered
Buildings/Constructions**

Quality & Testing

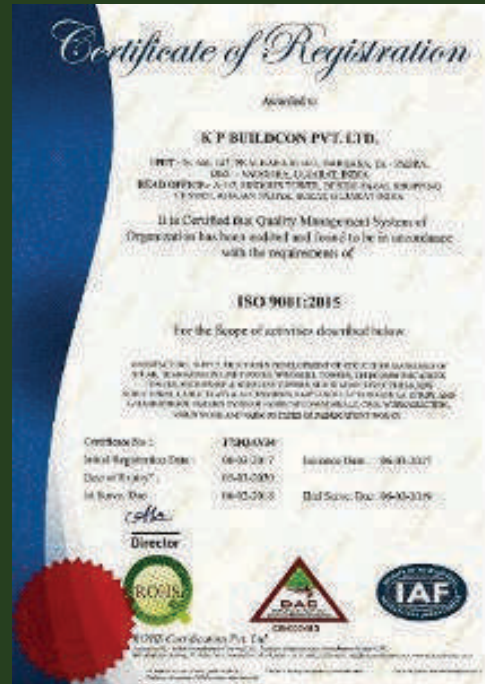
We are constantly dedicated to upholding the highest standards of quality in all our endeavours.

Dimensions in accordance with drawings are checked after every operation using accurate and precise instruments like Vernier Calliper, Micrometre which are Calibrated on a Regular basis.

The coating of zinc is checked regularly with Elcometer after quenching to ensure it meets client requirements.

Various tests in accordance with Indian Standard (IS); IS:2629, IS:4759, IS:2633 & American society for testing and material (ASTM); ASTM: A123 is carried out in the plant itself.

Following is the test carried out.:



Thus, our stringent quality control is well reflected in our quality systems and latest in-house laboratory which ensures the reliability of our products with the best quality. Our quality systems are certified and in compliance with ISO 9001:2015.

Standard	Indian Standard	International Standards
Fabrication Standard	IS:802 Part II 1978	ICEI ICE 60826
Tower Materials- Mild Steel	IS:2062 - 2006(E250A), IS:1852	BSEN 10025-1/2, BSEN 10056-1/2, (S275JR/JO), ASTM A36/A 36M
Tower Materials- High Tensile	IS:2062 - 2006(E350A), IS:1852	IS:1852BSEN 10024-1/2, BSEN 10056-1/2, (S355JR/JO), ASTM A572 (Grade 42 Y.S 290, Grade 50 Y.S 345
Galvanizing	IS:2029, IS:2633, IS:4749	BS 729, BSEN ISO 1461, ASTM A-123, AASTM A-153

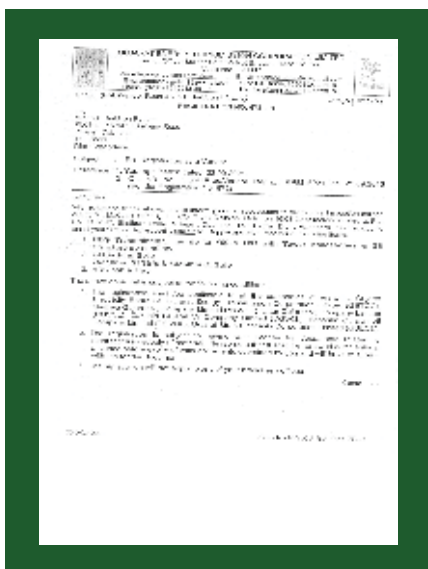
• Credentials & Accreditations

At KP Green Engineering Limited, our manufactured items and services are thoroughly checked and tested for quality and adhere to all prescribed national & global standards. With our excellence in areas of manufacturing and service, we are an ISO 9001-2015 certified company.

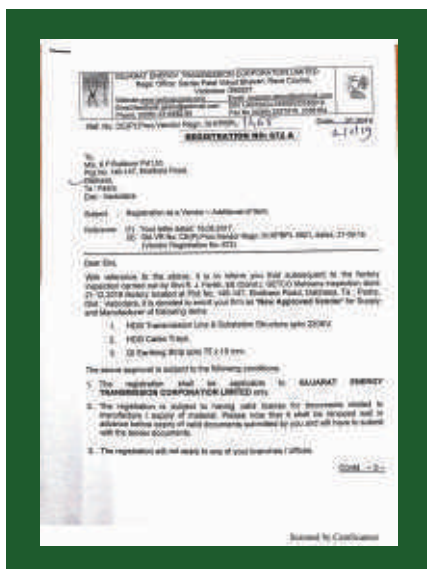
ISO Certificate



GETCO Vendor Approval



GETCO Vendor Approval



MSETCL Vendor Approval



Past

New Manufacturing Facility Coming Up

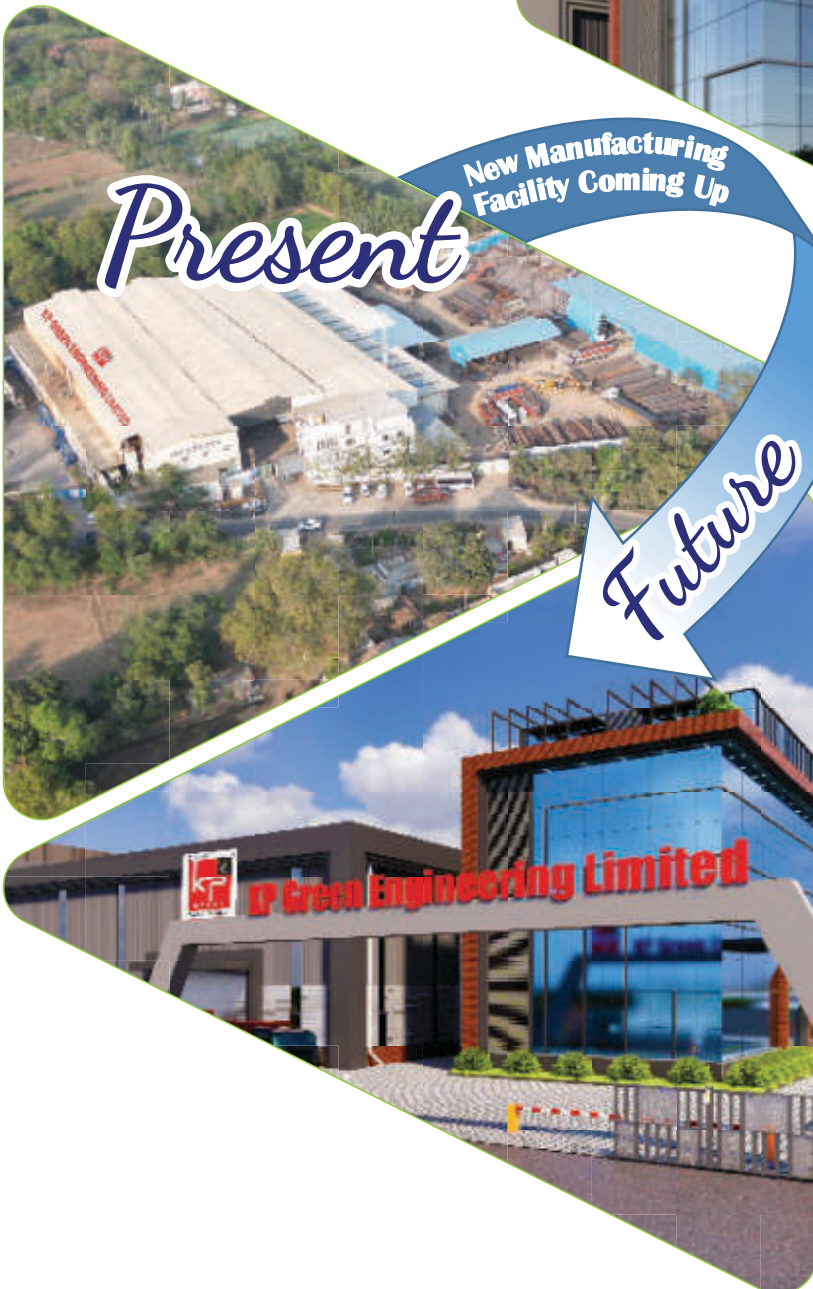
Future



Present

New Manufacturing Facility Coming Up

Future



• IPO Listing Ceremony









Contact Us :



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