



Taikisha Engineering India Pvt. Ltd.

(Electrical Automation & Control Panel Manufacturing Division)

COMPANY PROFILE



Plant : Plot No.-19, Sector-3, IMT Manesar, Gurgaon, Haryana, India. Pin-122 050
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Visit us : www.taikishaindia.com

Taikisha Ltd. Japan was established in 1913 & has experience of more than 100 years, it started with work of air conditioning systems. In 1950, the company ventured into its first automotive painting solution (in Japan) and in 1963 executed its first international paint finishing project. Taikisha Ltd., Japan has a strong global presence, with full-fledged design and engineering offices in Tokyo, Osaka, Nagoya, an R&D center in Hirakata and robotic assembly and trial at Zama, Japan.

Our Principals M/s Taikisha Ltd. Japan is also one of top leading company & pioneer in Green Technology (GT) undertaking turnkey project works for clean room systems, HVAC system, mechanical & electrical installation etc. and have installed number of projects all over the world.

Taikisha Engineering India Pvt. Ltd. (TEI) was set up in 1995 with the vision of supplying high quality, cost-effective solutions with strong after sale support to clients. TEI is operating successfully for more than 20 years catering to various Japanese and non-Japanese customers. Currently TEI has about well-trained 390 employees with project engineering and head office in Gurgaon, a registered office in New Delhi and sales & execution offices in Mumbai, Pune, Bangalore & Chennai.

From year 1999-2000 started on control panel manufacturing at its own electrical automation control panel manufacturing plant at IMT Manesar, Haryana, it ensures precise plant control & very high reliability & confidence to our clients having gained high expertise now manufacturers & supplies electrical panels to various Industries.

TEI has set-up own manufacturing plants at Pune & Vadodara for sheet metal & special laser fabrications. This activity was started from 2007 onwards and as of today these factories are established having international level of quality, state of art sophisticated manufacturing machines, and have impressive clientele in India and across the globe.



TAIKISHA ENGINEERING INDIA PVT. LTD – HEAD OFFICE

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TEI Factory



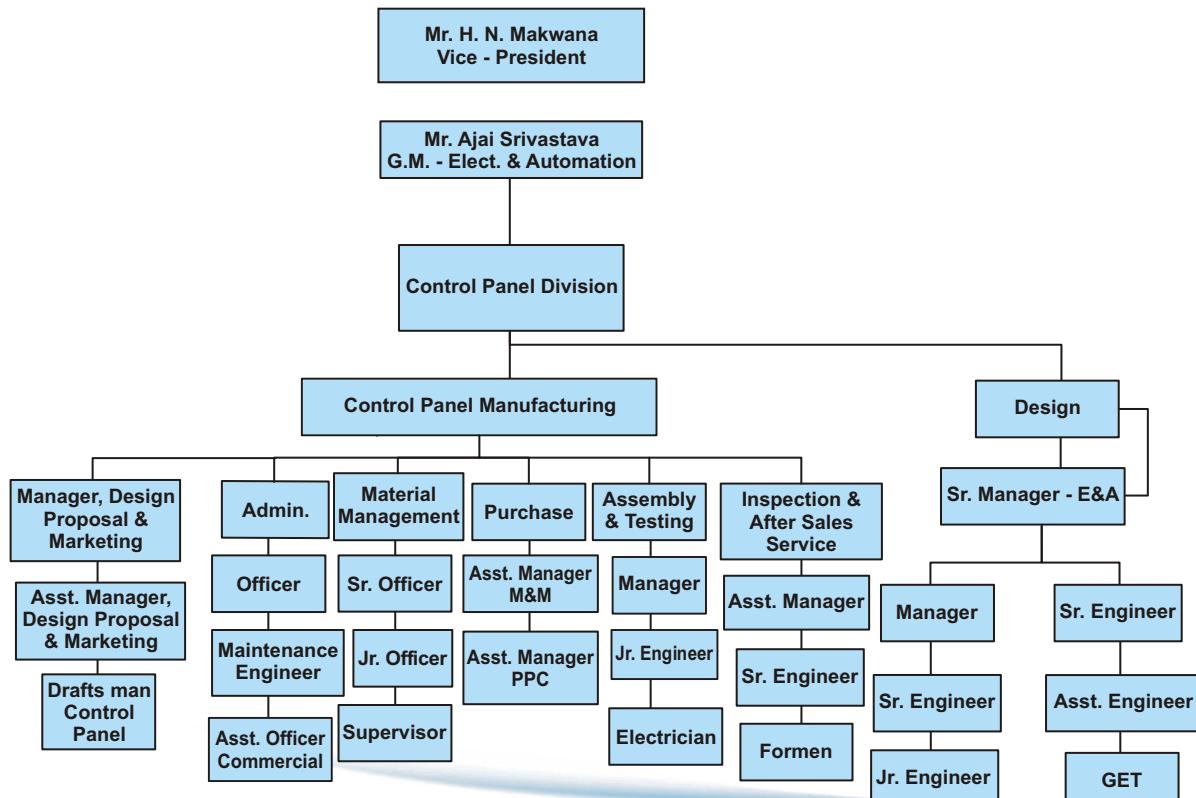
Taikisha Engineering India Pvt. Ltd. Electrical & Automation Division successfully operates with high expertise in field of Electrical and Automation and committed to Designs & Manufactures various based Control Panels with customized Automation solutions, Control and Power Panels for FMCG, Government Sector, Automobile Industries & other industries.

Taikisha India is Japanese joint venture EPC based Company and have experience of 20 years in Automotive and HVAC industries in India, already successfully executed many turnkey Projects out rightly with all safety. Manufactured Control Panels & executed site installation for various clients like Daimler, Maruti, Toyota, Honda, Tata, Ashok Leyland, Denso, Unicharm and many more. All paint finishing plants are including including pre-treatment and entire plant is fully atomized & robotic. All operations are high tech automation control & products produced on this plant are of international standard.

All our automation control panels are accurately design & manufacture at our Manesar factory. These panels are manufacture according to companies specification & standards like Indian, Japanese, American, and European. TEI can make any international standard panels based upon client requirement.

All automobile car body fabrication is done in weld shop then body transfer to paint shop and pass through entire process of PT, ED & final paint etc. are robotic pre-programmed. All these plants are fully automatic & operational also specific, therefore control panel are to perfectly work. Similarly any turnkey project manufacturing like paper plant, cement plant & steel plant have similar type of control panel automation and require similar technology, therefore TEI is full confidence to manufacture high quality of control panels for turnkey projects.

Electrical & Automation (E & A) Division



Our Aim & Quality Commitment

TEI Aim of Business

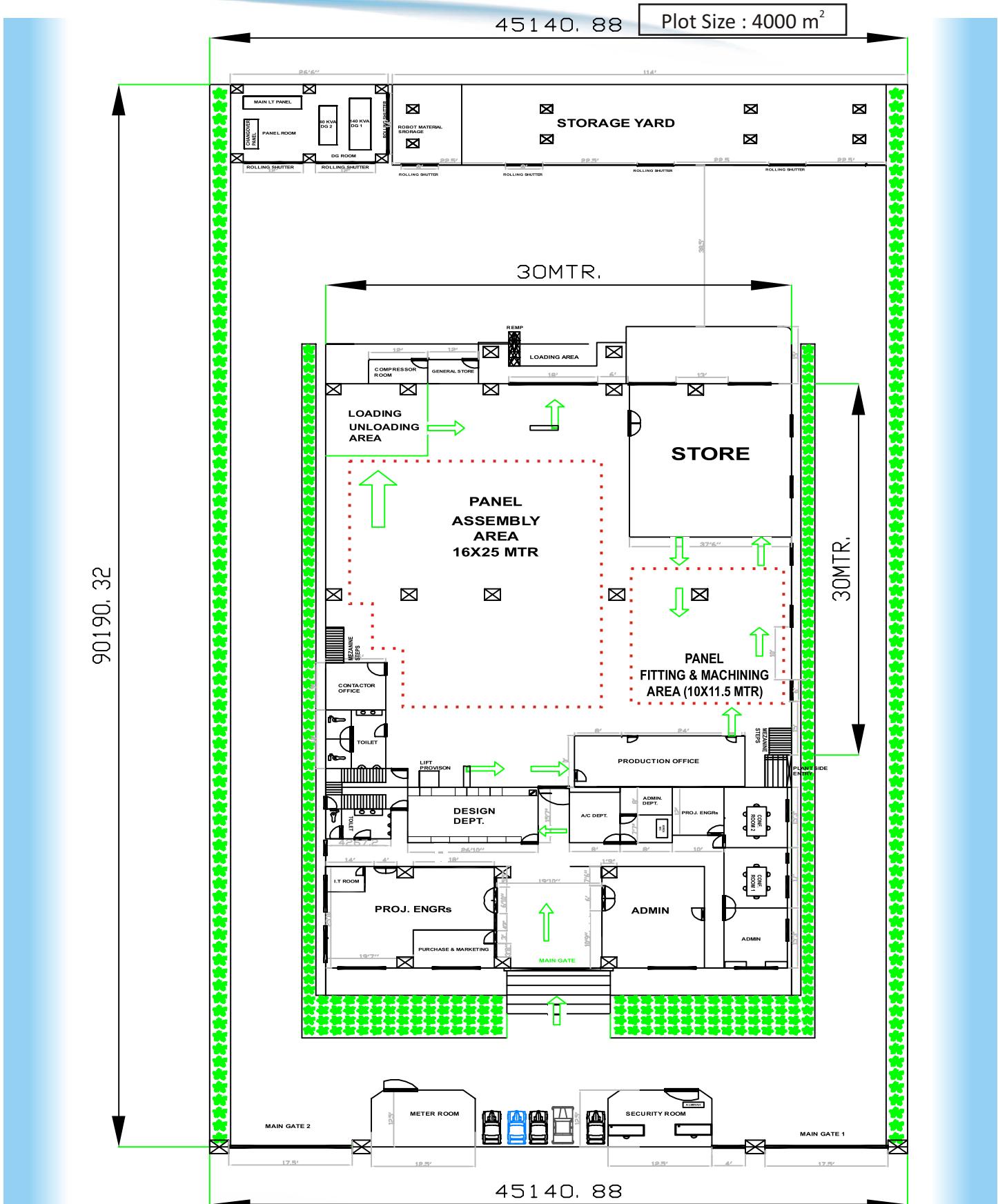
- Quality product with zero defect
- On time delivery & committed service with continuous upgradation
- Cost effective solutions

TEI Quality Commitment

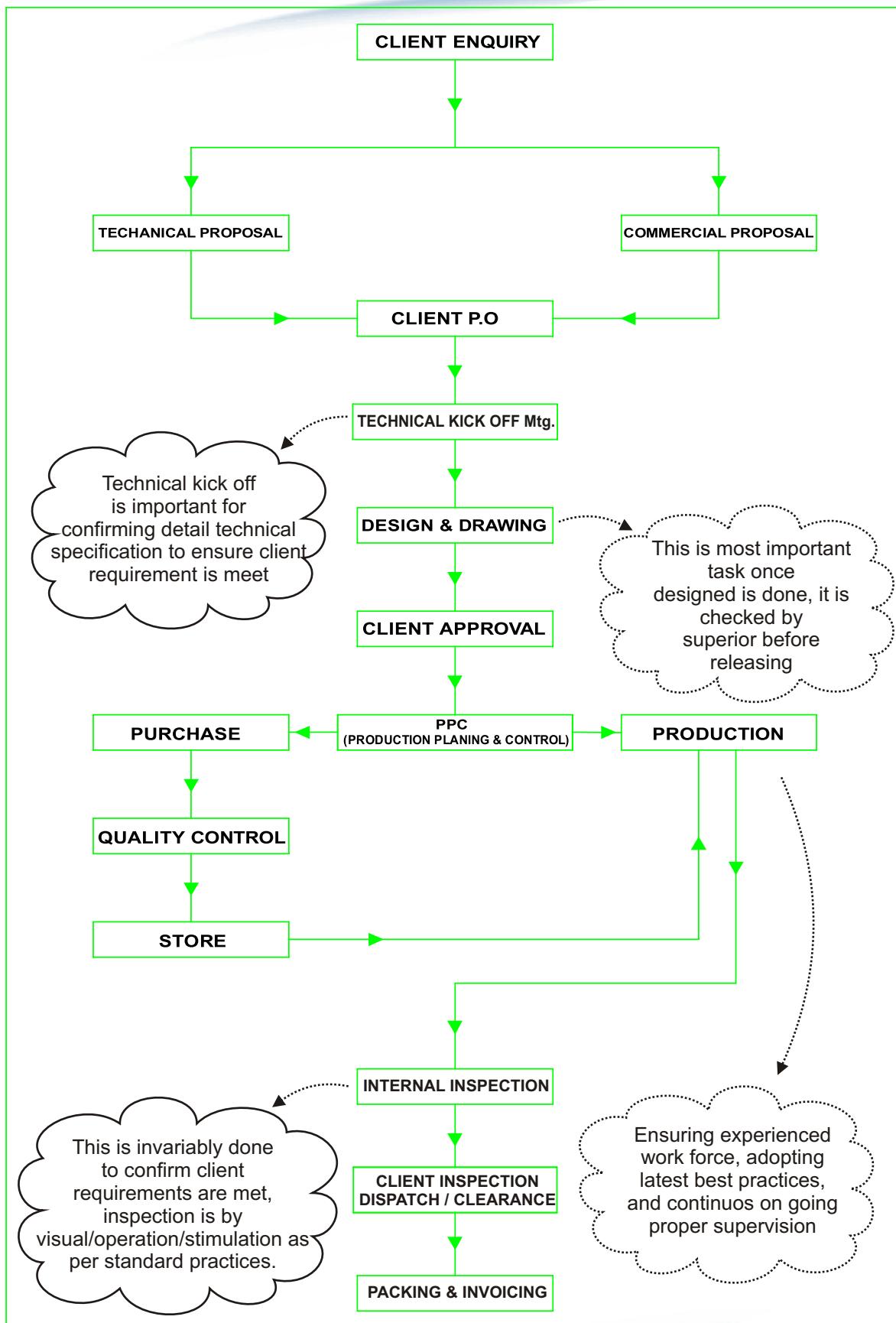
- Quality starts from concept & design stage . Quality consideration for electrical panel also means, functional reliability of component, easy maintenance facility, clear indication and detection of fault occurrence in connect equipment or electrical wiring, etc.in other words Electrical Panel should be user friendly.
- Quality is by in-built culture, being Japanese company each member maintains high standards of quality at his working level and performing continuous kaizen activities to uplift panel quality.
- Using international maker's latest improved components, which brings up the Panel quality to international level.
- Stage Inspection – In control panels stage inspection is very important.As standard procedure most of the time we do not find any defect in assembly at any stage and we are always aiming to zero defect. Normally no defect is found,hence no need to inspect is not our consideration but guaranteed performance is the main aim.
- Functional simulation of the panel at actual site condition to ensure no trouble to the client after installation.
- Total panel operation check and thorough inspection prior to the dispatch and appropriate packing & handling method ensuring safety & quality.
- Submitting detail drawing, operation manual & list of components with specification and maker details for maintenance spares & providing technical service and support to the client at site.

Taikisha India's Unique Feature

■ Various Standards	-----	IEC, JIS, BIS
■ Designing	-----	E PLAN,AUTOCAD & ELCAD
■ Safety	-----	SAFETY CATEGORY 3-4
■ Automation	-----	SENSOR TO MANAGEMENT LEVEL
■ Competency	-----	50 fully SKILLED ENGINEERS
■ Support	-----	COMMISSIONING, ERECTION & AMC
■ Consultancy	-----	TURNKEY SOLUTION PROVIDER
■ Experience	-----	EXPERIENCED IN AUTOMATED PRODUCTS



Work Flow Chart of Control Panel Division





Power Distribution Board (PDB)

- In all industries power supply distribution Panels are required to distribute power from incommers to the various utilities.
- We manufacture Customized Panels as per client requirement of number of Incommers, Bus coupler, connected load with safety and interlocks up to 4000Amps.

Motor Control Center (MCC)

- Motor control center houses various starters for driving various motors. Manufactured in compartmentalized and non-compartmentalized constructions.
- Big MCC Panels are manufactured in sections and joined together at project site
- Standard switchgears, reputed accessories and Copper/Aluminum bus bar are used in the Panels starting from 0.25kW to 500kW.



PLC Based Process Control Panel

- For the ease of operation, maintenance, reduction in size, remote communications and unlinking with plant network we make PLC based Control Panels an edge over conventional relay based systems.
- We have provided PLC based Automation Panels of Mitsubishi, Siemens and Allen Bradley by using Digital/ Analogue I/O, Intelligent modules and different network protocol to our various European, Japanese and Indian clients to fulfil their need of automation and smart control & Monitoring.

VFD PANEL

- Adjustment and variation of speed of motor is an application, which required in almost all the process industries & machinery.
- To achieve it Drive are used. Drives are also used as energy saving device for some of the machines to save power.
- We make dedicated VFD panel from 0.4 to 500kW to cater client requirement and to counter standing wave effect in the motor.



Photos of project executed by TEI-Manesar



Robot Integration Panel

- Normally Robots comes with their standard control Panel to control manipulator movement and to integrate applicator with manipulator interface and control panels are required.
- We make control and Pneumatic panels for such interface and control with different PLCs and communication protocol.



PLC Based Control Panel for Food Industry

- As Food industry is different with other process industry.
- It require different ways and material to make panels which are exposed to manufacturing area.
- We make panels for food industry with stainless Steel SS-304 enclosure and as per costumer requirement and Process need.

Other Panels

We also make panels for many other utilities and client needs such as Outdoor Panels, Lighting Panels, Fire Fighting Panels, MIMIC, APFC, Auto Changeover panels etc.



OUTDOOR PANEL



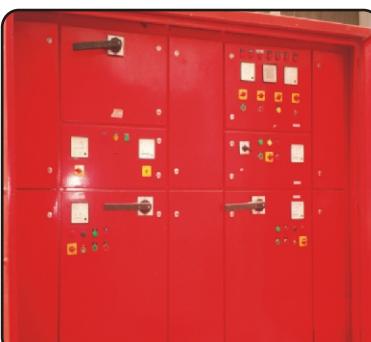
LIGHTING PANEL



FLAME-PROOF PANEL



APFC PANEL



FIRE FIGHTING PANEL



CHANGEOVER PANEL

Photos of work done by TEI-Manesar



I) Automation system & Control Panel designing

- Dedicated team of Electrical and Automation Engineers.
- Equipped with E-plan, EL-CAD and Auto- CAD.
- Fulfill client requirement and designing, quick design changes & client accurate review, etc.
- Error free engineering & auto BOQ generation.

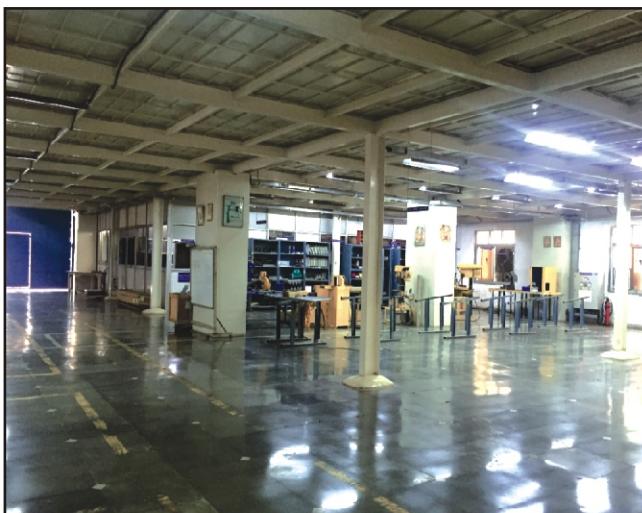


II) PLC & SCADA Programming

We have team of Automation Engineers trained on various PLC, HMI and SCADA software to cater all client need under one roof.

III) Production Space

TEIPL have total 20,000 Sq. ft. area for control panel production at the center of IMT Manesar





IV) Mounting and fitting Section

- Have ample space for mounting & fitting.
- For cutting, fitting and mounting of precise component we have specially designed mounting Stations to provide which give accuracy and reliability to the end product.
- Care being taken for tools, process, etc.

V) Utilization of Space

Work in factory indicating effectively utilization & good production planning.



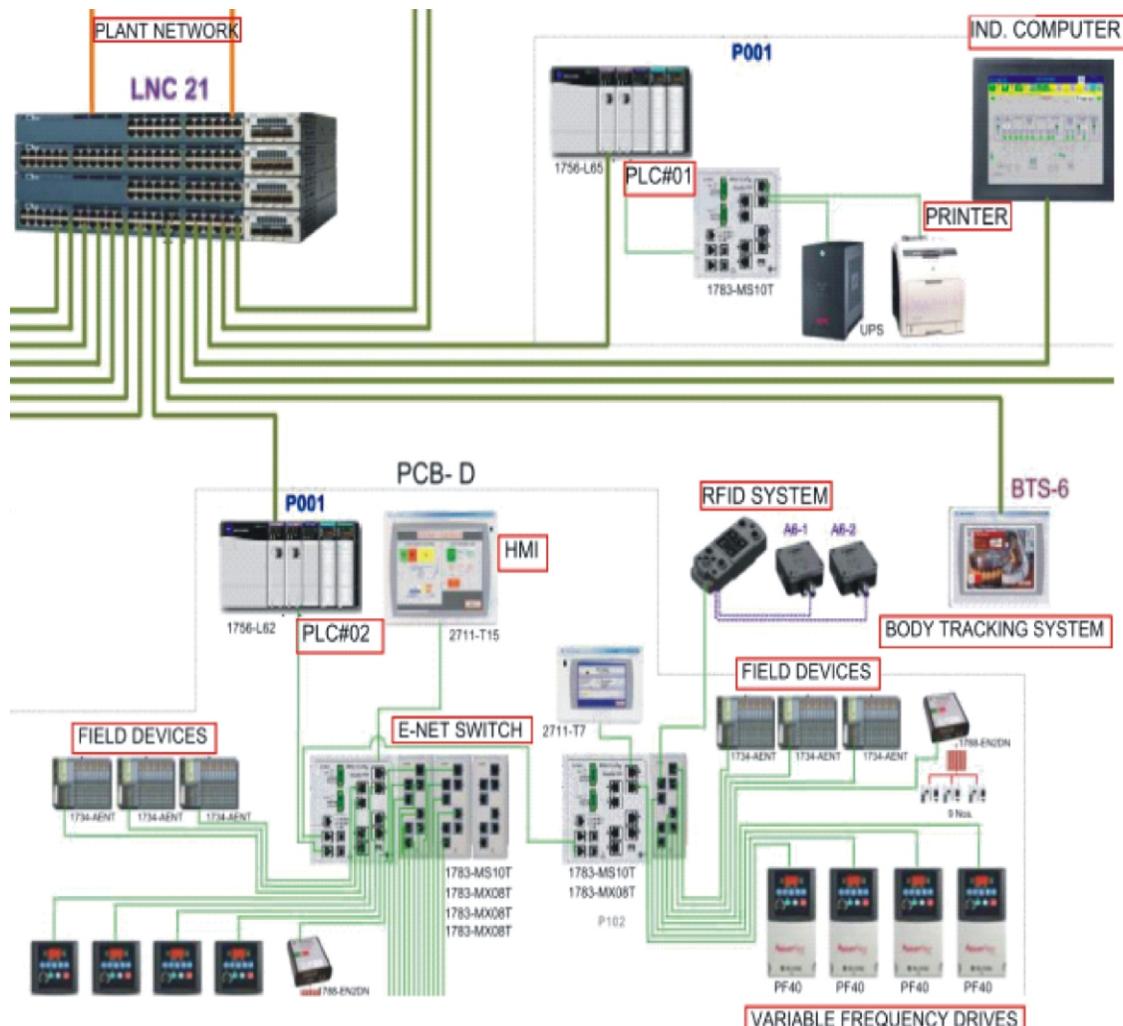
VI) Material Storage & Stores

- A proper material storage and retrieval system is the basic necessity for any plant. We have adequate material storage space of 33'X37'
- All electrical items are adequately checked & properly place in store.
- Main components ordering is based on projects & client orders so that it is cost effective (to avoid unnecessary inventory & finance cost)
- General items like wires, lugs, etc are stocked & managed to optimum level.

Complete Automation Solution

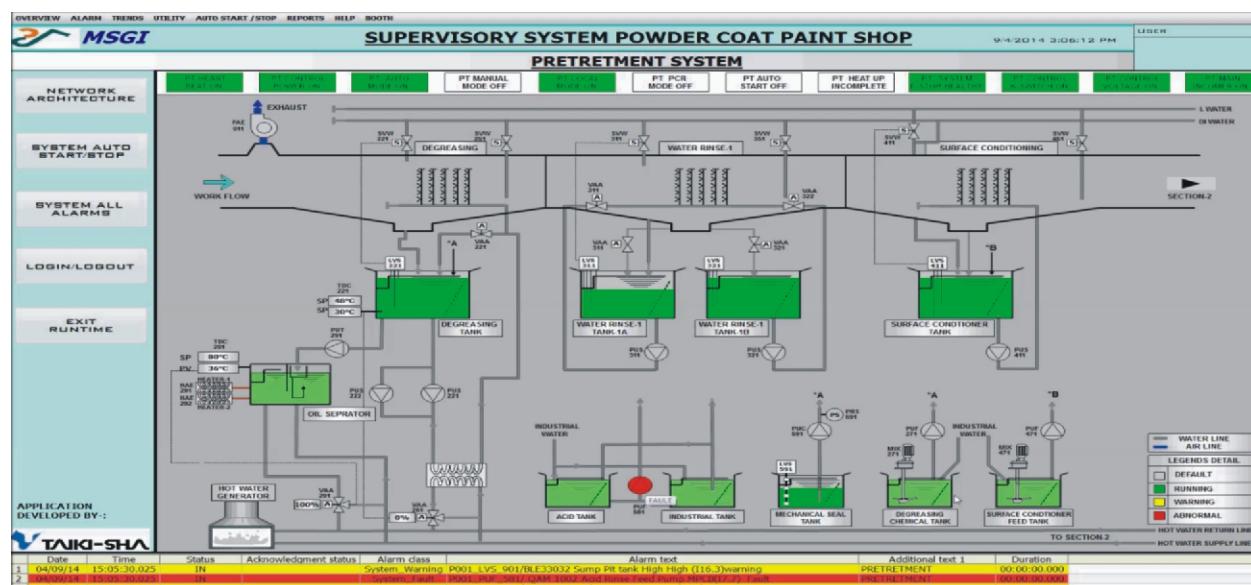
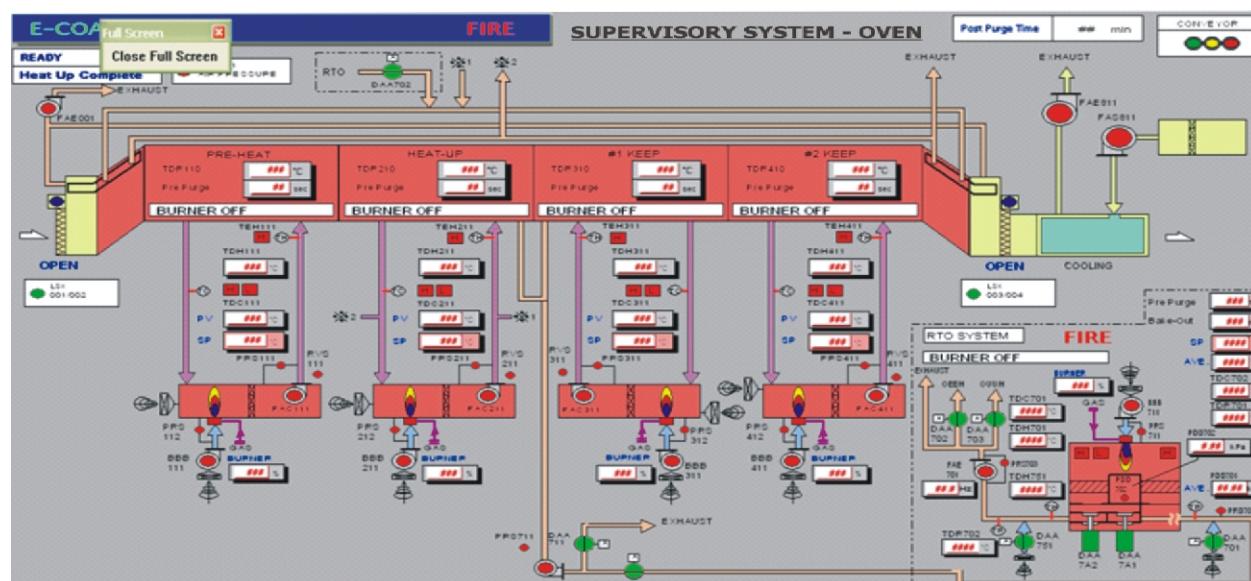
We have a team of qualified engineers and state of the art facility for network architecture designing, manufacturing, programming and implementation to provide complete automation solution to our client under one roof for all Automation levels.

PLANT NETWORK ARCHITECTURE



SCADA (Supervisory Control And Data Acquisition)

- Now SCADA has become a basic need of a process plant for central monitoring, data recording and controlling.
- We provide SCADA solutions for complete plant to our esteem clients, which gives them flexibility to monitor, control and analyze the process parameters i.e. temperature, humidity, utility consumption, production etc. for optimum use of process and utility.



Short Circuit with Stand Strength

CPRI

**SHORT CIRCUIT LABORATORY
CENTRAL POWER RESEARCH INSTITUTE**
P.B NO 8066, SADASHIVNAGAR POST OFFICE,
SIR C V RAMAN ROAD, BANGALORE - 560 080 (INDIA)
Phone +91 (0) 80 - 23602662 Fax +91 (0) 80 - 23601213

TEST REPORT

Test Report Number SC00636A **Dated** 9th October, 2009

Name & Address of the Customer
M/s. Tekisha Engineering India Ltd
19, Section - III, IMT Manesar
Gurgaon - 122 050, Haryana

Name & Address of the Manufacturer
M/s. Tekisha Engineering India Ltd
19, Section - III, IMT Manesar
Gurgaon - 122 050, Haryana

Particulars of sample tested
Low-voltage switchgear and controlgear assembly
415 V 3200 A LT Panel
New

Condition of the sample on Receipt
Indoor, cubicle, drawout
DDF-3200, Double Front Drawout PMCC

Type One
Designation 5th October, 2009
Serial Number NC09031844
Number of samples tested
Date (s) of test (s)
CPRI sample code no(s)

Particulars of tests conducted
Verification of the short-circuit withstand strength
Sub-clause 8.2.3 of IS:8823 (Part 1) - 1993 /
IEC Pub 439-1 (1985) (Reaffirmed 2004)
& Customer's instructions
Not applicable
Test to be conducted on Horizontal & Vertical bus-bars
of section - 1F only

Particulars of tests conducted
Test in accordance with
Standard / specification

Sampling plan
Customer's requirement

Deviations if any

Name of the witnessing persons
Customer's representative
Mr. Rakesh Gupta - Dy. General Manager &
Mr. Amalendu Sil - Technical Advisor
None

Other than customer's representative

Test subcontracted with
address of the laboratory

Documents constituting this report (in words)
Four
Number of sheets
Two
Number of Oscillograms
Nil
Number of Graphs
Two
Number of Test Circuit Diagrams
Two
Number of Drawings
Seven


(G. Venkateswaran)
Test Engineer


(K. Ravishankar)
Joint Director

Sheet 1 of 4

Temperature Rise Test

CPRI

**HEAT RUN TEST LABORATORY
DIAGNOSTIC, CABLES & CAPACITORS DIVISION
CENTRAL POWER RESEARCH INSTITUTE**
P.B NO 8066 SADASHIVNAGAR SUB P.O.
PROF SIR C V RAMAN ROAD, BANGALORE - 560 080, INDIA
Phone +91 (0) 80-2360 4435 Fax 080 - 2360 4435

TEST REPORT

Test Report Number DCCC-11132 **Dated** 08.10.2009

Name & Address of the Customer
M/s. Tekisha Engineering India Ltd.
19, Section - III, IMT Manesar
Gurgaon, HARYANA - 122 050

Name & Address of the Manufacturer
M/s. Tekisha Engineering India Ltd.
19, Section - III, IMT Manesar
Gurgaon, HARYANA - 122 050

Particulars of sample tested
415V, LT, 3200A, Draw out PMCC
Good

Condition of the Sample on Receipt
Indoor, Double Front Draw out PMCC

Type One
Designation 07.10.2009
Serial Number NC09031844
Number of samples tested
Date(s) of Test(s)
CPRI sample code no(s)

Particulars of tests conducted
Test in accordance with
standard/specification

Sampling plan
Customer's requirement

Deviations if any

Name of the witnessing persons
Customer's representatives

Other than Customer's representatives

Test subcontracted with address of the laboratory

Documents constituting this report (in words)
Number of Sheets
Four
Number of Oscillograms
Nil
Number of Graphs
Nil
Number of Test Circuit Diagrams
Nil
Number of Drawings
Nil


(G. P. VITTAL)
Test Engineer


(A. SUDHINDRA)
Additional Director

Sheet 1 of 4

TEST REPORT

Test Report Number DCCC-11132 **Dated** 08.10.2009

Name & Address of the Customer
M/s. Tekisha Engineering India Ltd.
19, Section - III, IMT Manesar
Gurgaon, HARYANA - 122 050

Name & Address of the Manufacturer
M/s. Tekisha Engineering India Ltd.
19, Section - III, IMT Manesar
Gurgaon, HARYANA - 122 050

Particulars of sample tested
415V, LT, 3200A, Draw out PMCC
Good

Condition of the Sample on Receipt
Indoor, Double Front Draw out PMCC

Type One
Designation 07.10.2009
Serial Number NC09031844
Number of samples tested
Date(s) of Test(s)
CPRI sample code no(s)

Particulars of tests conducted
IS: 8823 Part-1-1993/ IEC 60439 Part-I-1985

Sampling plan
Nil
Temperature rise test at 3200 Amps, thermocouple
points & temporary connections as per drawings

Deviations if any
Nil

Name of the witnessing persons
Mr. Rakesh Gupta- Dy General Manager &
Mr. Narendra Singh, Engineer
Nil
NA

Documents constituting this report (in words)
Number of Sheets
Four
Number of Oscillograms
Nil
Number of Graphs
Nil
Number of Test Circuit Diagrams
Nil
Number of Drawings
Nil

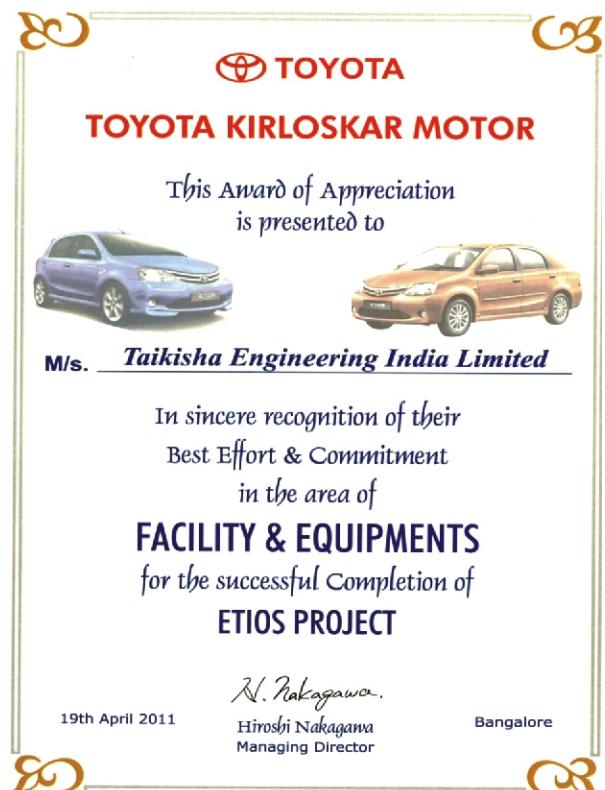
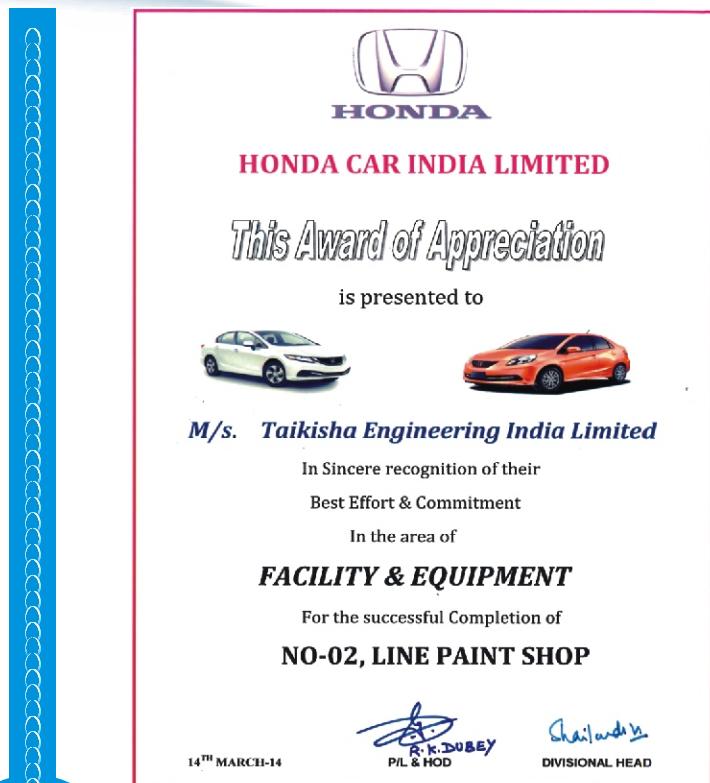
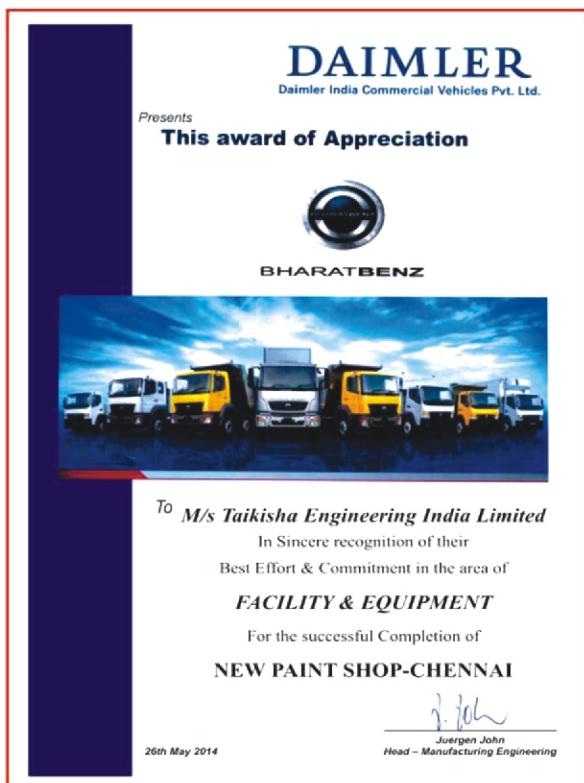

A. Sudhindra

AUTHORISED SIGNATORIES

Sheet 1 of 4



Appreciation Certificate from Clients





Internal Improvement Meeting



External Training Seminar

Health Check-Up & Care of Members



FMCG Sector

- Nestle India Ltd.(Gurgaon)
- HUL (Haridawar)
- Unicharm India Ltd.(Rajshatan) Panasonic Indl.Asiapte Ltd.(Delhi)
- LLYOD Engineering (Bhiwadi)- on-going

Government Sector

- Indian Railways, Cofmow (Delhi)
- Ircon International Ltd.(RCF- Kapurthala)
- Steel Authority of India (Bokaro)
- Indian Railway (Varanasi)- on-going

Automobile Sector

- Honda Motorcycle and Scooter India Pvt. Ltd.(Manesar)
- Honda Siel Cars India Ltd.(Noida)
- Honda Siel Cars India Ltd.(Rajasthan)
- JCB India Ltd.(Faridabad)
- Maruti Suzuki Automobiles India Ltd.(Manesar)
- Maruti Udyog Limited(Gurgaon)
- Maruti Udyog Limited(Mundra Port- Gujarat)
- Mothersan Sumi System Ltd.(Noida)
- Nissan Motors India Pvt. Ltd.(Chennai)

Automobile Sector

- Piaggio Vehicle Pvt. Ltd.(Baramati Pune)
- Sandhar Locking Device Ltd.(Gurgaon)
- Steels Strip Wheels Ltd.(Chandigarh)
- Suzuki Motorcycle India Pvt. Ltd.(Manesar)
- Ashok Leyland (Chennai)
- Badve Engineering Pvt.Ptd. (Aurangabad)
- Bajaj Auto Ltd.(Aurangabad)
- Bajaj Auto Ltd. (Pune)
- Bajaj Auto Ltd. (Uttrakhand)
- Delphi Automotive System Pvt. Ltd. (Noida)
- Escort Farmtrac Limited (Faridabad)
- Escort Yamaha Motor Ltd(Noida)
- Hindustan Motors Ltd., (Madras)
- Denso Haryana Pvt. Ltd. (Manesar)
- Suzuki Power train India Ltd.(Manesar)
- Tata Motors Ltd.(Jamshedpur)
- Tata Motors Ltd.(Pune)
- TVS Motors Company(Bangalore)
- Tata Motors Ltd. (Uttrakhand)
- Terex Vectra Equipment Pvt. Ltd.(Noida)
- TG Kirlosakar Automotive Pvt. Ltd. (Bangalore)
- Daimler India Commercial Vehicle Pvt. Ltd. (Chennai)
- Toyota Kirlosakar Motors Ltd.(Bangalore)
- Varroc Engineering Pvt. Ltd.(Pune)
- Varroc Engineering Pvt. Ltd.(Uttrakhand)
- Varroc Engineering Pvt. Ltd.(Noida)
- Varroc Engineering Pvt. Ltd.(Binola)

M/s Taikisha Engineering India Pvt. Ltd (TEI) from last 20 years continues delivering customer delight in all the endeavors it takes up for their clients.

Above result is due to our strong & expert team with total strength of about 390 members with project engineering and head office in Gurgaon, a registered office in New Delhi and sales & execution offices in Mumbai, Pune, Bangalore & Chennai, And with excellent technology support of our principals M/s Taikisha Ltd. Japan who have more than 100 years of industrial experience.

Taikisha India's different business divisions are:

- (a) **Paint Finishing Systems**, setting up of painting plant on full turnkey basis for all vehicle & parts. Some of our esteemed clients are M/s Maruti Suzuki, M/s Honda, M/s Toyota, M/s Renault Nissan, M/s Tata Motors, M/s Ashok Leyland, M/s Daimler Chennai, M/s John Deere, M/s Indian Railways, M/s Suzuki 2Wheeler, M/s Yamaha, etc.
- (b) **GT Division (Green Technology)** focuses on all types of mechanical and electrical installations. These include clients complete plant set-up, industrial ventilation systems, clean rooms, plant utilities set ups and the supply of special equipment. Some of customers are M/s. Denso India Haryana, Unicharm India, Horiba, Tata Motors, etc. this business is expected to increase due to the influx of Japanese companies entering the market in India.
- (c) Material handling systems for painting, assembly, welding lines, etc.

Some of TEI - Esteemed Clients



Paint Shop



Robotics & Auto Painting

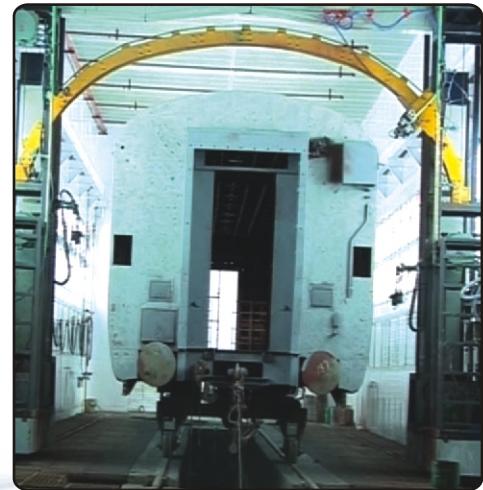


Photo of TEI Green Technology Work



GARDEN BY THE BAY, SINGAPORE

(Mechanical system, humidification system for plant areas, air conditioning for visitor areas & control sunlight)



ELECTRONICS DEVICE PLANTS

(Mechanical & Electrical systems, process utilities, clean rooms & water systems)



PRECISION MACHINERY PLANTS

(Mechanical & Electrical systems, process utilities & plumbing - sanitary systems)



PHARMACEUTICAL & BIOTECH PLANTS

(Mechanical & Electrical systems, clean rooms, process utilities & interior works)

TEI Sheet Metal & Laser Factory in Pune

Taikisha India is a Joint Venture of Taikisha Japan started its manufacturing operation from Pune since 2007. The State of Art facility is built on a land measuring approx. 57,937 sq. meters and had got a constructed area of 10,000 sq. meters of office area. Total having around 275 committed employees. With various laser machine, CNC punching, CNC bending, flattening machine, special welding machine etc.

The facility was started to manufacture Taikisha's own product involving painting systems sheet metal components & sub assemblies as per international standards for many worked renowned auto giants.

The company took a major decision to diversify into other areas of sheet metal forming & assembly, using the latest technologies beginning from Oct 2009, and has become an OEM supplier to many renowned MNCs operating from in and out of Pune namely M/s. ABB, Bombardier, JCB, Writgen, Chromwell – John Deer, GE & others.

Accredited with ISO 9001-2008 standards Det Norske Veritas AS & EN 15085 Class I Welding certification accredited by TUV Rheinland, our company has made a huge impact on quality & deliverables.

TEI Sheet Metal & Laser Factory in Vadodara

Taikisha India has embarked on expanding the business in the model of Taikisha Pune Sheet metal forming & assembly located at Vadodara, Gujarat state, India.

Laid out on industrial land of 11200 sq mtrs. at Vadodara city, Gujarat state, India and plant is functional from year 2013 catering to various clients.

This plant also has latest international high quality machines are installed to meet exports & high quality domestic requirements of our various esteemed clients.



TAIKISHA INDIA - GEOGRAPHICAL REGIONS

Head Office:

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Phase-IV, Gurgaon-122 015.
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Elect Automation Plant:

Plot No.19, Sector 3
IMT, Manesar, Gurgaon, Haryana.
Tel : 0124-4669000
asrivastava@taikishaindia.com

Vadodara Factory:

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Survey No. 1158
Lambdapura Road,
Post Manjusar, Tal Savli,
Dist. Vadodara – 391775
Gujarat

Pune Plant:

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District – Pune, Maharashtra
Tel.: 02137-666000
skshirsagar@taikishaindia.com

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Pune-411035
Ph.: 020-46703146

Mumbai Office:

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Thane - 400 606.
Tel: 022-25885130, 25885131
Fax-2582 47 93

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Vijay Nagar, Bangalore-560040

Andaman and
Nicobar islands

Chennai Branch Office:

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Vadapalani, Chennai - 600026
Tamil Nadu
Tel: 044 - 42290721
Email: teichennai@taikishaindia.com

● TEI Offices

● TEI Factories