



JINDAL
D.P. JINDAL GROUP

D.P. Jindal Group

Maharashtra Seamless Limited



**A Seamless
Vision....**





JINDAL
D.P. JINDAL GROUP



To see the company emerge as an integrated and leading manufacturer of high quality Seamless Pipes and become a reliable Pipe solution provider.



To work consistently and dauntlessly in providing quality products and services to our customers, create value for our shareholders, to develop human resources and be environment friendly by conservation of resources.



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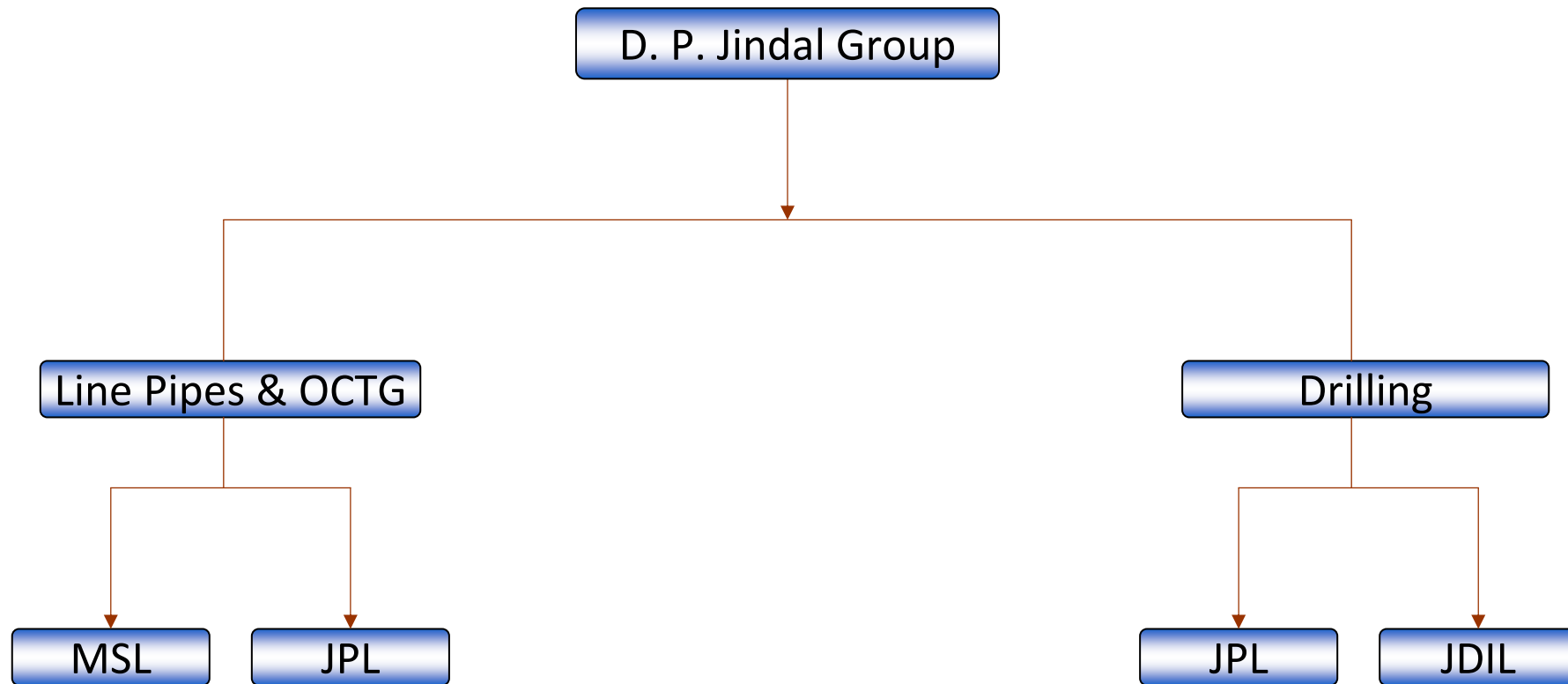
- Jindal's embarked into business activity way back in 1952.
- Today D. P. Jindal Group is one of the leading industrial houses in India.
- Jindal's are pioneer & major contributors of growth in Seamless, ERW Pipe & Tube Industry in India.
- Largest producer (both in capacity and range) of Seamless Steel Pipes, Tubes & OCTG in India.
- JINDAL is a brand synonymous with "Steel Pipes, Tubes & OCTG" within & outside India.
- Having turnover of in excess of US\$ 800 Million



D.P. JINDAL (CHAIRMAN)



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- * MSL: Maharashtra Seamless Ltd JPL: Jindal Pipes Ltd JDIL: Jindal Drilling & Industries Ltd
- * MSL Exports are handled by M/S. GVN Fuels Ltd.



Maharashtra Seamless Limited

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Saket Jindal
(Managing Director)

Maharashtra Seamless Limited, the flagship Company of D.P. Jindal Group, is the largest manufacturer of Seamless and Welded steel Pipes, Tubes and OCTG in India, with a production capacity of over 7,50,000 M.T/year.

The plant is situated at Raigad, Maharashtra, and is equipped with latest plant and machinery capable of producing wide range of ERW & Seamless Pipes and Tubes both in HOT FINISHED and COLD DRAWN/ COLD PILGERED CONDITION.

A wide product range covers sizes & specifications catering to diverse application areas like Oil & Gas sector, Hydrocarbon Industry, Boilers & Heat Exchangers, Automotive, Bearing and General Engineering industries etc.



MSL Milestones

- 1988 • **Company Incorporated**
- 1992 • **Seamless plant up to 7"OD Commissioned**
- 1993 • **API Certification and Production of Casing & Line Pipes**
- 1995 • **IBR Certification by Central Boiler Board**
- 1996 • **ISO Certification by BVQI**
- 2000 • **ERW plant up to 20" OD Commissioned**
- 2001 • **7 MW Wind Power Plant Commissioned**
- 2004 • **Higher dia Seamless Pipe Mill up to 14" OD Commissioned**
- 2005 • **JV facility with Hydril USA for premium Connections Commissioned**
- 2006 • **Commissioning of 3 LPE/LPP and FBE Coating Plant.**
- 2012 • **3rd Seamless Plant (MPM) up to 6" OD Commissioned.**
- 2012 • **5 MW Solar Power Plant Commissioned**



MSL HIGHLIGHTS

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- ▶ **Leading manufacturer of Seamless & ERW Carbon & Alloy Steel Pipes & Tubes in India.**
- ▶ **A unique track record of putting up the plant at the lowest CAPEX levels.**
- ▶ **Is an ISO 9001 : 2008 Company and having API (5L, 5CT & 5D) and IBR Licenses.**
- ▶ **Plant is strategically located at Nagothane, about 100 Kms. from Mumbai Port.**
- ▶ **Both Seamless & ERW Plants are first of its kind in India and are having Technical Tie-up with MANNESMANN DEMAG of Germany.**
- ▶ **“CPE Technology”, used for Seamless Pipes & Tubes production (upto 7” OD), is the world renowned technology.**
- ▶ **“Plug Mill Technology”, used for Higher Dia Seamless Pipes & Tubes production (from 7” to 20” OD), is the most reliable technology.**
- ▶ **High Frequency Induction Welding Technology, is used for ERW Pipes & Tubes (upto 21” OD).**
- ▶ **Having made a strategic business decision of foraying into Wind Power Generation business for captive consumption**



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QUALITY POLICY

- **System:** To continually improve Quality Management system through periodic review and monitoring of Quality objectives
- **Strategy:** To have strategic up-gradation of technology and product innovation on an ongoing basis
- **Structure:** To have an organizational structure that promotes work efficiency at all levels
- **Skill** To enhance skill of employees through appropriate training programs
- **Satisfaction:** To achieve customer satisfaction through timely delivery of Quality Products, conforming to National and International Standards

Saket Jindal
(Managing Director)



Product Portfolio

ERW PIPES

- MS Black
- Galvanized
- Casing & Tubing (OCTG)

SEAMLESS PIPES AND TUBES

- Hot Finished
- Cold Drawn
- Boiler Tubes
- Casing & Tubing (OCTG)
- Drill Pipe (OCTG)

COATED PIPES

- FBE
- 3LPE
- 3LPP
- Internal Coating

PIPE ACCESSORIES

- IBR Pipe Fittings
- Butt Weld fittings
- Pup Joints
- Couplings
- Coupling Stock



PRODUCT RANGE : SEAMLESS



Hot Finished Pipes and Tubes

- Outside Diameter (OD)
1/2" (21.3 mm) - 14" (355.6 mm)
- Wall Thickness (WT)
2.8 mm - 45 mm

Cold Pilgered / Cold Drawn Tubes

- Outside Diameter (OD)
1/2" (21.30 mm) – 3 1/2" (88.9 mm)
- Wall Thickness (WT)
1 mm - 10 mm

OIL Country Tubular Goods (OCTG)

- **A) Pipe Size Range :**
 - 1. Casing:**
 - Upto 13 3/8" (339.72 mm)
O.D Plain End / Threaded and Coupled with STC, LTC & BTC Threads
 - 2. Tubing:**
 - NUE / EUE upto 4 1/2" O.D
Plain End or Threaded & Coupled with API Round Threads
 - 3. Drill Pipes:**
 - Internal Upset (IU): 3 1/2" to 4 1/2"
 - External Upset (EU): 2 7/8" to 4 1/2"
 - Internal - External Upset (IEU): 4 1/2" to 5"

GRADES

- **B) Grades:**
 - **Casing:**
API 5CT (J55, K55, N80Q, N80, L80, P110, Q125, T95, C110)
API Connections (BTC, LTC, STC)
 - **Tubing:**
API 5CT (J55, N80Q, N80, L80, P110, Q125, T95, C110).
 - **Drill Pipe:**
API 5D, E, X, G & S PSL 1 & 2
 - **Line Pipe:**
API 5L (Grade-B to X-70)
ASTM (A106 Gr-B, A 53, A333 Gr-6 EN 10216, EN10210, EN 10255, EN 10297.



ERW Pipes & Tubes

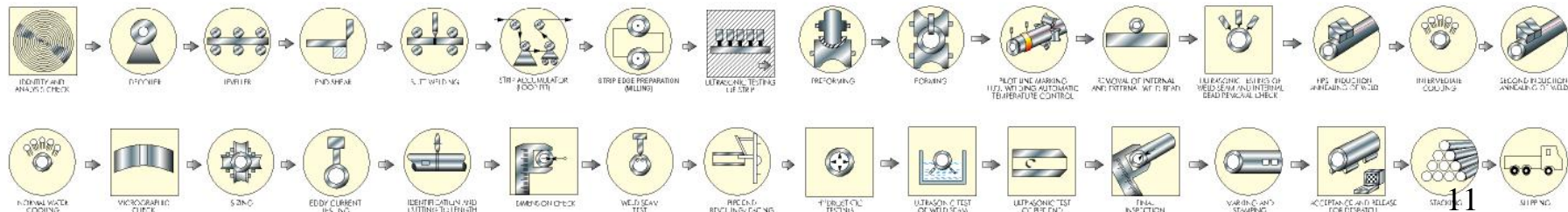
Nagothane, Maharashtra

MSL diversified into large diameter ERW pipes from size 6" to 20" and wall thickness from 3.2 mm to 16.00 mm.

Its state-of-the-art ERW Plant from Mannesmann, Germany, is India's first and par excellence "largest outside diameter" ERW pipe manufacturing facility in the region.



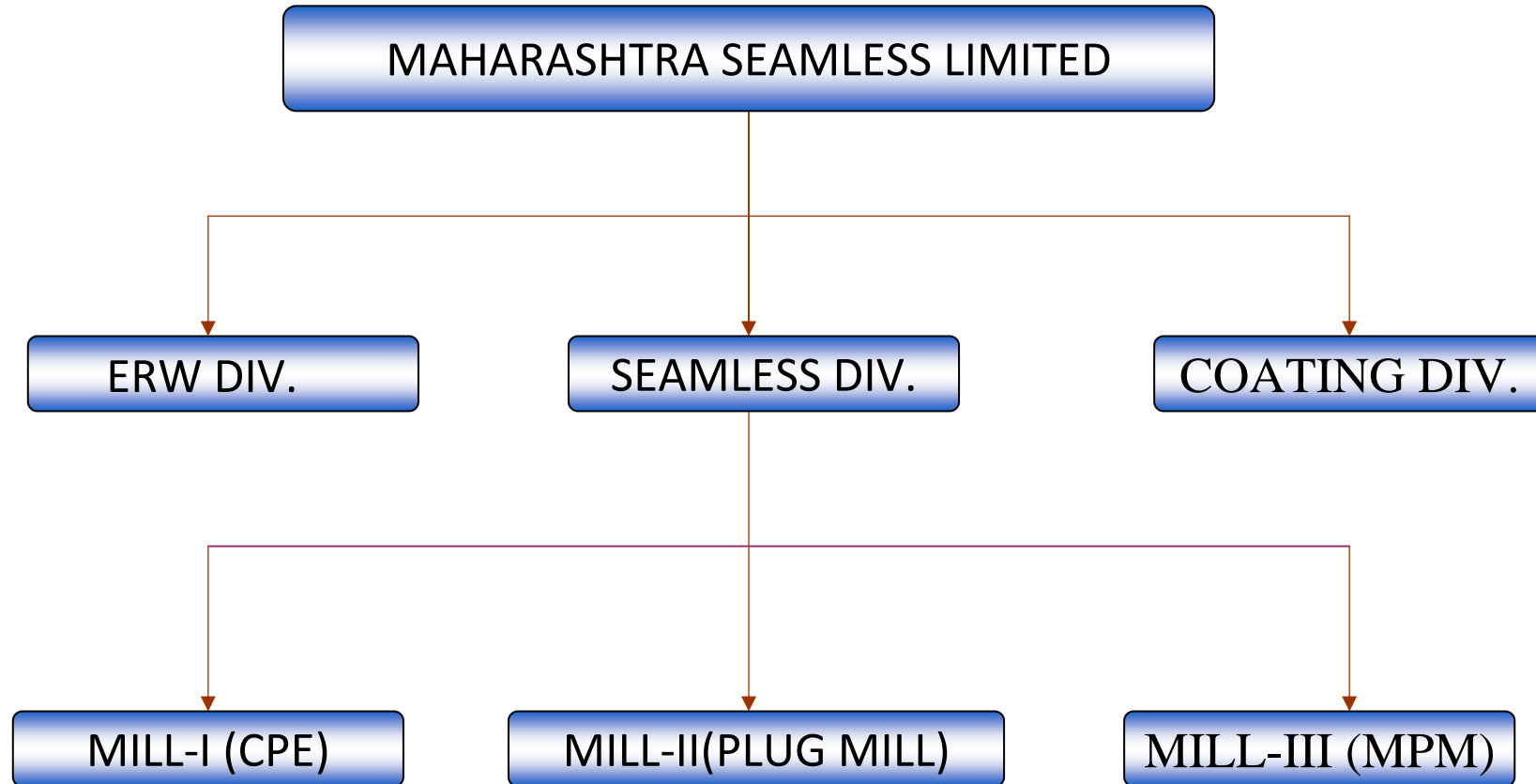
MANUFACTURING AND TESTING FLOW DIAGRAM OF H.F.I. WELDED PIPES HIGH FREQUENCY INDUCTION WELDED/ELECTRIC RESISTANCE WELDED





Product Range : ERW

PIPES SIZE RANGE	APPLICATION	GRADE COVERED
<ul style="list-style-type: none"> • Outer Dia: 6" (168.3 mm) – 20" (508.00 mm OD) • Wall Thickness: 4.0 mm to 12.70 mm 	<ul style="list-style-type: none"> • Oil & Gas Sector • Line Pipes: • Plain End: 6" (168.30 mm) to 20" (508.00 mm OD) • Threaded & Coupled with API Threads 6" (168.30 mm) to 12" (323.90 mm OD) • Casing: Plain End / Threaded and Coupled with STC, LTC & BTC Threads 6" (168.30 mm) to 10 ¾" (273.05 mm OD) 	<ul style="list-style-type: none"> • Line Pipes: API 5L Grade B to Gr. X-70 (PSL-1 and PSL-2) • Casing: (API 5CT) J-55 & N-80





INSTALLED CAPACITIES

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➤ Raigad (Maharashtra)

- ❑ 5,50,000 MT p.a. of Seamless Pipes & Tubes
 - Mill-I (CPE) Up to 7" - 1,50,000 MT
 - Mill-II (Plug Mill) Up to 20"- 2,00,000 MT
 - Mill-III (MPM) Up to 6" - 2,00,000 MT
- ❑ 2,00,000 MT p.a. of ERW Pipes (upto 20" OD).
- ❑ 700 Sq. Mtrs. Per Hour Coating Capacity for Cross Country Application.

➤ Satara (Maharashtra)

- ❑ 20 Wind Turbine Generators (WTG) of 350 KW each, aggregating to 7 MW.

➤ Pokhran (Rajasthan)

- ❑ Solar Power Plant of 5 MW.



MSL Seamless Pipe Manufacturing Technology

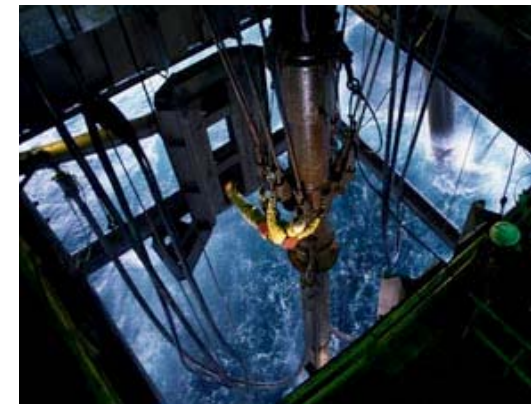
CPE Technology



Plug Mill Technology



MPM Process





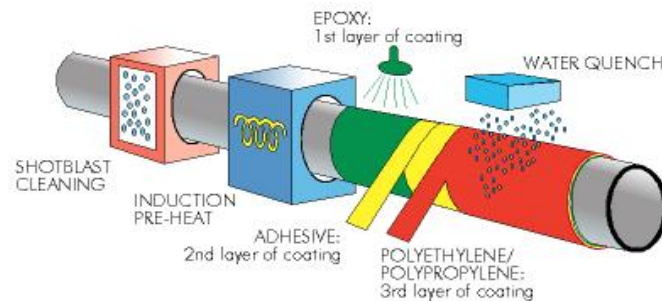
3 Layer PE/PP Coating facility

3L PE/PP, FBE, DFBE and Internal Coating (Liquid Epoxy)

The coat begins on bare pipe with surface preparation by abrasive blast cleaning, phosphoric acid treatment, chromate treatment prior to the application of coat followed by electrostatic fusion bonded epoxy layer as primer, adhesive as tie layer, followed by high density Polyethylene/ Polypropylene layer as top coat.

3 LPE / 3 LPP Coating is anti corrosive coating of 3 layers of epoxy, adhesive and PE / PP respectively on pipes, as per following details:

- 1st Layer is of Epoxy coating which acts as Anti Corrosive Layer.
- 2nd Layer is of Adhesive coating which acts as Tie layer between Epoxy and PE/PP.
- 3rd Layer is of Polyethylene / Polypropylene coating which provides mechanical strength to the coating.





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CSR, HSE System & Human Resources

Jindal's strong belief in Corporate Social Responsibility is inspired through its commitment to take care of Environment, Health and Safety of our employees / population, in and around the plant

With our goal of becoming the leader in the industry, our aim in human resource management is at par with the industry. It is our continuous endeavour to reform our organizational structure to maintain an optimum level of human resource for better productivity and performance.





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HSE System and Practices

MSL has established, implemented and maintained HSE System in accordance with Environment, Health and Safety Policy. In brief, following practices are maintained for implementation of HSE System.



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- Centralized drinking water filter plant has been installed and periodical analysis of drinking water has been ensured.
- Annual health check-up of employees has been ensured as a preventive measure of health and safety.
- A well – equipped **B.C Jindal Charitable Hospital** is located in the close vicinity of the plant, to take care of any health related problems of employees, their families and of nearby villagers.





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- A mobile ambulance cum dispensary has been provided to take care of day-to-day medical requirements of nearby villagers.
- Our Group Company is engaged in generation of Green Power by installing a **7 MW Wind Mill Power Plant** in Maharashtra and we are getting Carbon Credit for the same.
- Approximately 1000 nos. of plants have been planted inside the factory premises in order to keep environmental friendly atmosphere



- **Jindal Mount Litera Zee School** is a noble initiative by D.P. Jindal Group. In the picturesque campus at Nagothane, Jindal Mount Litera Zee School provides an ideal atmosphere for learning.

The curriculum includes a highly interactive skills-based program, designed to promote positive health and personal development for students. It helps students navigate the challenges of the school years and prepares them for the independence and responsibilities that they will encounter as young adults. The program uses developmentally appropriate and collaborative learning strategies to help students achieve competency in the skills the student needs to be successful in society.



REGULAR 3RD PARTY INSPECTION AGENCIES

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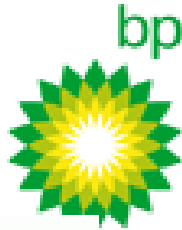
FEW NOTABLE INTERNATIONAL CUSTOMERS **JINDAL** D.P. JINDAL GROUP

ExxonMobil



MURPHY
OIL CORPORATION

KNPC



Anadarko
Petroleum Corporation



ecopETROL

PremierOil



PGNiG



PEMEX

BR PETROBRAS

ThyssenKrupp



FEW NOTABLE DOMESTIC CUSTOMERS

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Awards and Accolades



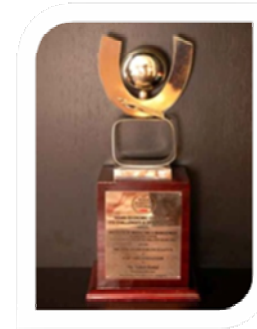
Business Sphere Award



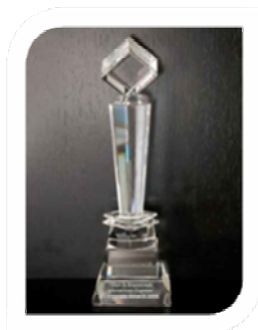
Excellence Award as a Top Organization



Dun & Bradstreet American Express Corporate Awards



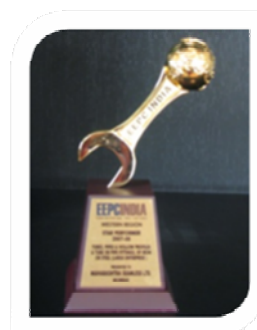
"Steel Pipe Manufacturer Of The Year"



"India's Top 500 Companies" Dun & Bradstreet



Asia's Top 200 SME Companies Best Under a Billion – Forbes



"Export Excellence Star Performer Award" - EEPIC India

The **journey** continues.
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GLOBAL PRESENCE





SUSTAINING SUCCESS : KEY POINTS

1. Innovation

2. Strong Financial Discipline

3. Valued Customer Experiences

4. Right move at very early stage of cycle

5. The Constant Creation/Addition of Value

6. Valued business transactions/relationships

7. Ability to contain both Capital and Operating Cost



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