

PRATIBHA INDUSTRIES LIMITED
SAW PIPES
DIVISION



ARIAL VIEW OF PLANT



THE PRATIBHA GROUP

INTRODUCTION OF GROUP COMPANIES

Pratibha Industries Ltd.:

The flagship company of the Pratibha Group is dedicated and committed to providing the society at large with quality infrastructure in its field of expertise which currently include design, engineering & execution/construction of complexes & integrated water transmission & distribution projects, water treatment plants, elevated & underground reservoirs, mass housing projects, commercial complexes, pre-cast design and construction, road construction and real estate. The company which started with pre-cast products, in just over two decades, has created a technical niche for itself graduating into a multifunctional construction and infrastructure development company of repute with annual turn over of INR 5600 million (~USD140million) and an order book position of INR 24000 million (~USD 600 million). Our rapid and consistent growth over the years bear testimony to our focus on dedication, quality of production & services through continuously evolving technologies along with timely execution of projects which has won us accolades and repeated business from our clientele.

Pratibha Pipes & Structural Pvt.Ltd.:

The Longitudinal conventional SAW (Large diameter) pipes manufacturing & mechanical division of the multifaceted Pratibha group. The company has created a niche for itself in manufacturing of large diameter pipes, especially heavy walled thickness pipes having utility in off-shore piling, use as structural members, water, sewerage, dredging industry and other allied industries. It also manufactures custom built structures meeting the structural steel requirements of construction industry and other industries creating landmark & engineering marvels. Its facility is duly accredited by certification from API (Grade 2B) for on-shore & off-shore pipes (structural purpose) and Bureau of Indian Standards for water pipes. Today, PPSPL boasts of an esteemed list of domestic and international customers with an annual turn-over of INR 1760 million (~USD 45 million) of which more than 30% share is from export markets.

PRATIBHA INDUSTRIES LTD.

Launches

SAW PIPES DIVISION

Pratibha Industries Ltd - Saw Pipes Division is a part of the USD 185 million Pratibha Group. Its foray into the Helical (Spiral) SAW pipes & Coating Plant is an extension of its vision owing to its technical capabilities and core competency areas of manufacturing of large diameter SAW pipes, custom built structural steel sections and execution of integrated water supply projects amongst others.

In the era of globalisation and thriving economies, the energy requirements to meet higher productivity are ever increasing. Conventional methods of transportation are proving expensive and in-efficient day-by-day thereby the need arising for cost efficient, safe, environment friendly and pilfer proof transmission system of OIL & GAS through well developed pipe networks. Besides Oil & Gas, Helical SAW pipes are having a huge potential for town/city water supply and sewerage transportation & structural requirements.



The Pratibha-SAW Pipe Division envisages a surge in demand in the coming years and to meet the growing global requirements has set up an integrated manufacturing unit of Helical (Spiral) SAW Pipes and Protective Coatings. Our product is certified by American Petroleum Institute (API 5L Monogram), IS 3589, IS 5504 and ISO 9001:2000 certified. We envisage servicing the ever expanding requirements of Line Pipes in the Transmission & Distribution of Water, Oil & Gas and structural applications.







PRODUCTS CATALOGUE :

- Helical (Spiral) SAW Pipes
- Protective Coatings

HELICAL (SPIRAL) SAW PIPES

Manufacturing Facility :

The forthcoming manufacturing facility for Helical (Spiral) Submerged Arc Welded Pipes employing Electrical Fusion Welding promises to be a state of the art facility. The Off Line Adaptable Technology Spiral welded Pipe Mill imported from BYARD SPIRAL MILL Sdn. Bhd., along with the other equipments provides the company with State of the Art Technology and an impetus to compete with the best in the industry to provide high quality pipes conforming to all international quality standards & specifications. The plant located at Wada (Thane District) is just 70 kms from the commercial capital of India - Mumbai and is well connected by an extensive network of Express Highways & Railway to reach each corner of the country with ease. Added to it, the plant's close proximity to India's largest & advanced sea port of Nhava Sheva gives us a tremendous logistical advantage for Exports as well.

The latest equipment coupled with company's philosophy of strict adherence to production parameters and in-built quality systems ensures conformity to internationally accepted quality standards laid down by the American Petroleum Institute (API), BS, AWWA, DIN and other important international standards.

Manufacturing Process :



Helical (Spiral) Line Pipe

Product Parameters	Product Profile
Production Capacity	90,000 MTPA
Outside Diameter	16" (406.4 mm) to 100" (2540 mm)
Wall Thickness	6 mm to 25 mm
Pipe Length	Upto 12.5 meters
Grades	Upto API 5L X-80
Pipe Ends	Bevelled or Plain
Protective Coating	Bare or Rust Preventive Coating
End Protection	Protected with Metallic Caps

TARGETED APPLICATIONS

Applications

- Water Supply Transmission Mains & Distribution Pipelines.
- Sewerage Pipelines
- Oil & Gas Transmission Mains & Distribution Pipelines.
- Low & Medium Pressure City gas Mains.
- Steam, Gas and Other Piping requirements in Petrochemical & Chemical Plants / Petroleum Refineries.

High Strength Steel Pipe of High Wall Thickness for :

- Structural Purpose - Piling & Casing Pipes, etc.
- Mining & Dredging Pipes.

Pipes conforming to the followings Specifications, Grades & Standards

IS 3589-Gr. 330, 410 & 510. IS 5504, AWWA C202, API 5L (PSL1 & 2) [Gr. A25, A, B, X42, X46, X52, X56, X60, X65, X70 & X80]. ASTM A139, ASTM A134, DIN 17172, DIN 1626, JIS G3457, BS 4360.

ASTM A252, BS 1775, JIS G3444, JIS A5525

NOTE :

Pipes as per other International Standards & Customised Specifications will also be supplied

PROTECTIVE COATINGS

PIL's SAW Pipes manufacturing facility is fully integrated with in-house Protective Coatings facility offering various option to meet the anti-corrosive treatments required to enhance the life-span of pipes. We are proud to mention that our coatings facility is being built on a strong platform using state of the art technology coating equipment from INITECH (South Korea), one of the leading coating technology providers in the world, well supported by an entire range Quality Testing Equipments with quality conforminh to DIN, NACE, AWWA, API, and other reputed International Standards & Specifications.

We shall cover a wide range of coating options commensurate with contemporary technologies covering applications across the entire spectrum of the industry being serviced.

Our coating facility besides catering to in-house production demands has capacity to cater the coating requirements of other pipe manufacturers and customers for ERW, LSAW, HSAW, DI and Seamless Pipes & Tubes.

Coating Options :

External coating :

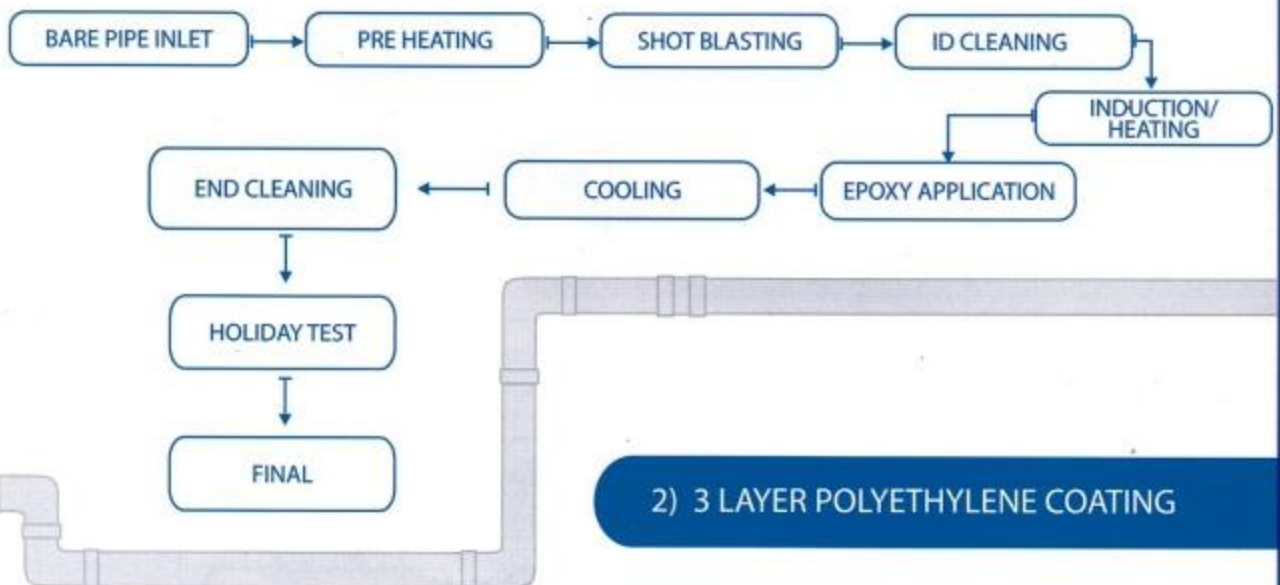
- ⇒ Fusion Bonded Epoxy Coating (FBE) / Dual Layer Epoxy Coating
- ⇒ 3 Layer Polyethylene Coating
- ⇒ 3 Layer Polypropylene Coating
- ⇒ Concrete Weight Coating

Internal Coating :

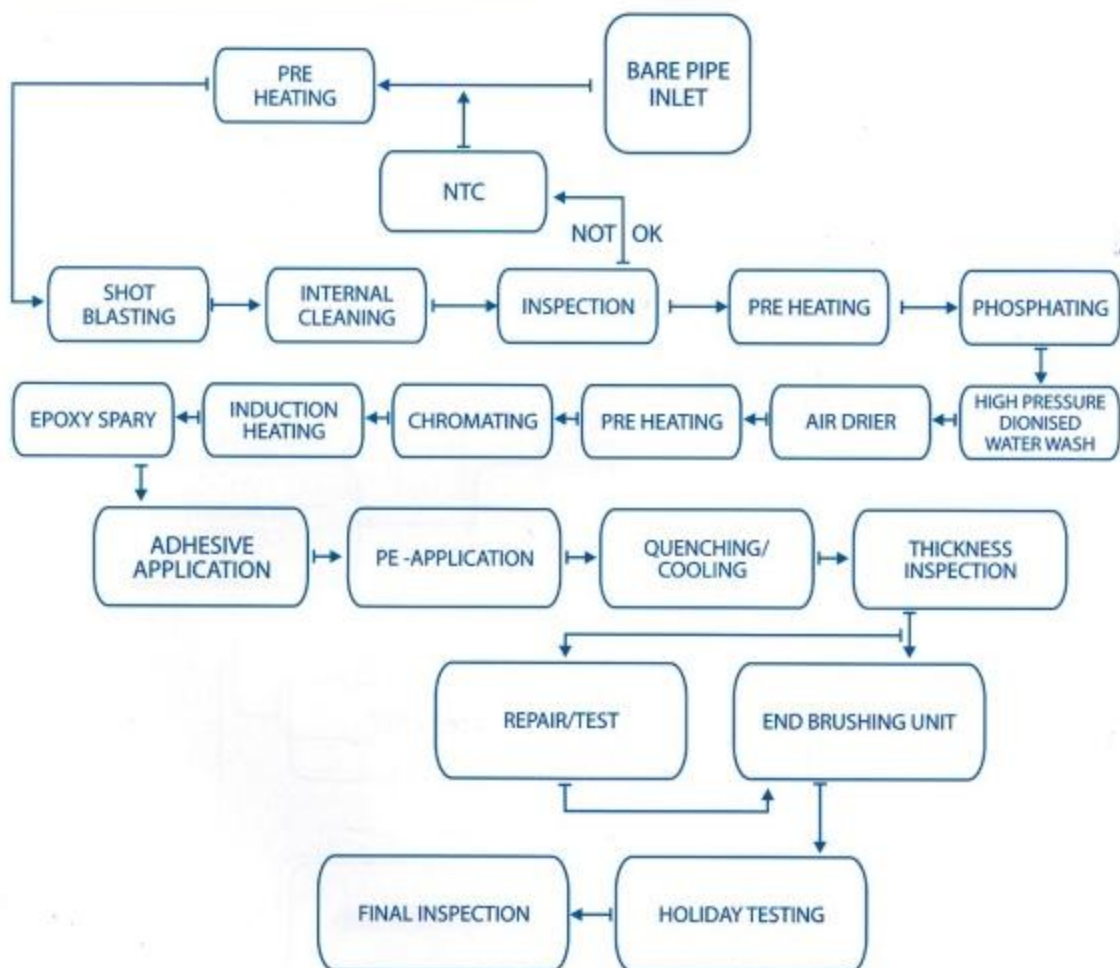
- ⇒ Liquid Epoxy Coating
- ⇒ Cement Mortar Lining
- ⇒ PY Coating

MANUFACTURING PROCESSES

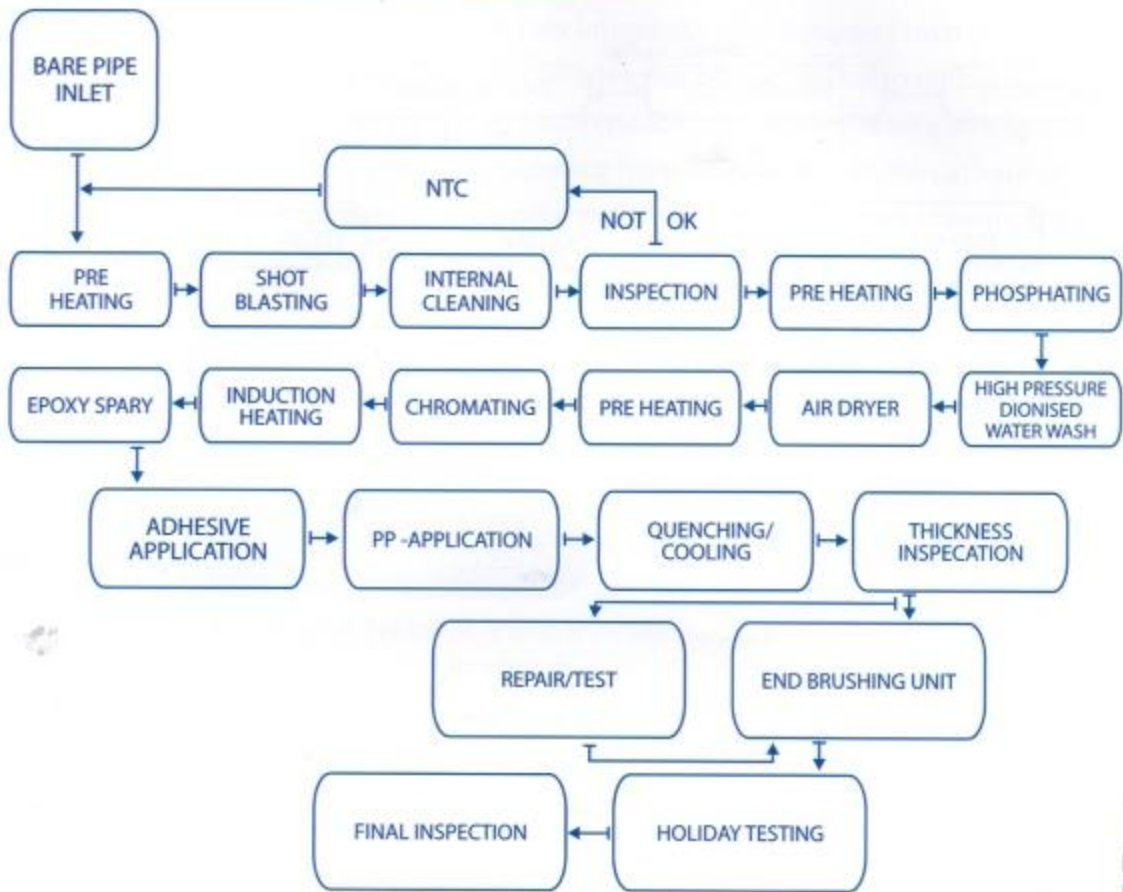
1) FUSION BONDED EPOXY COATING



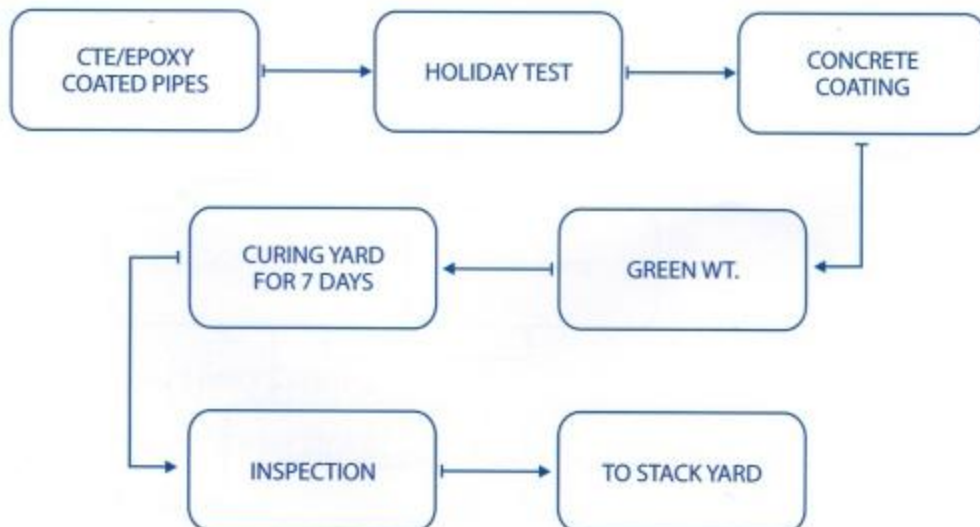
2) 3 LAYER POLYETHYLENE COATING



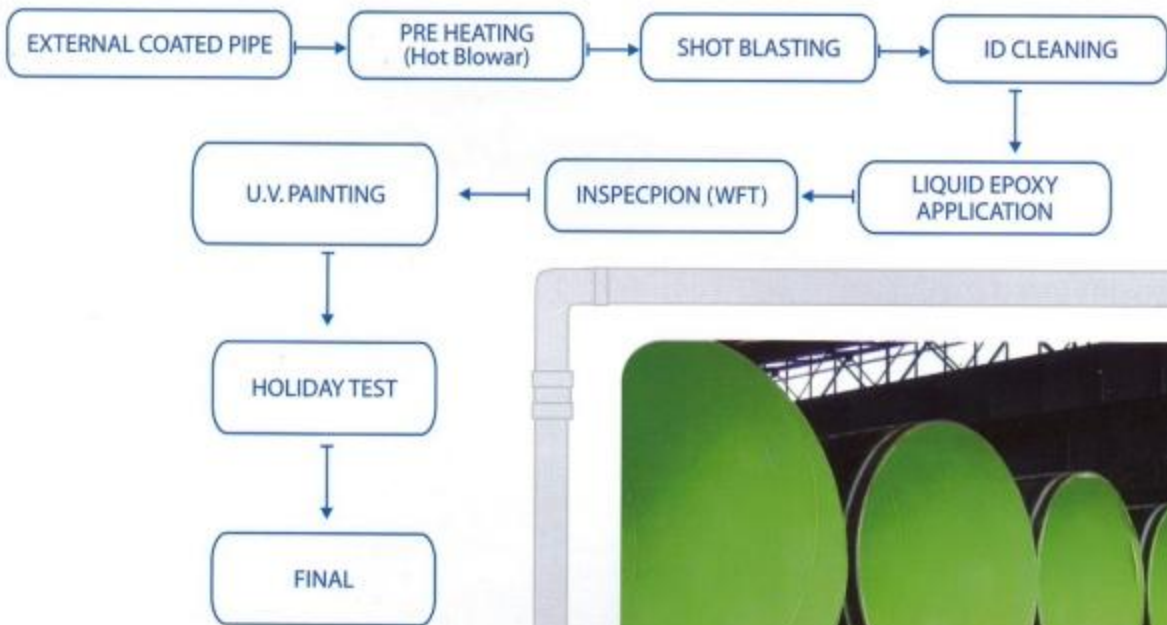
3) 3 LAYER POLYPROPYLENE COATING



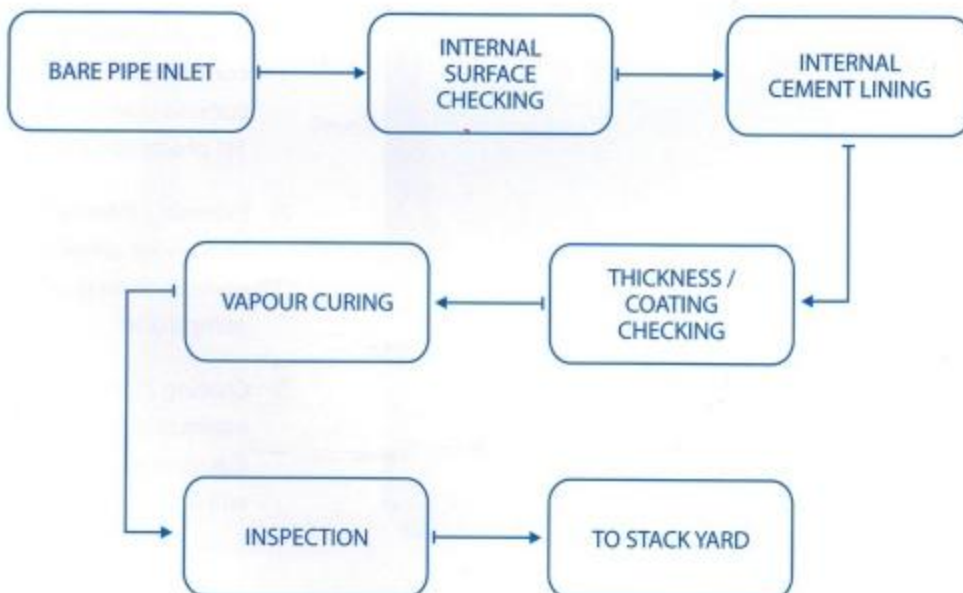
4) CONCRETE WEIGHT COATING



5) LIQUID EPOXY COATING



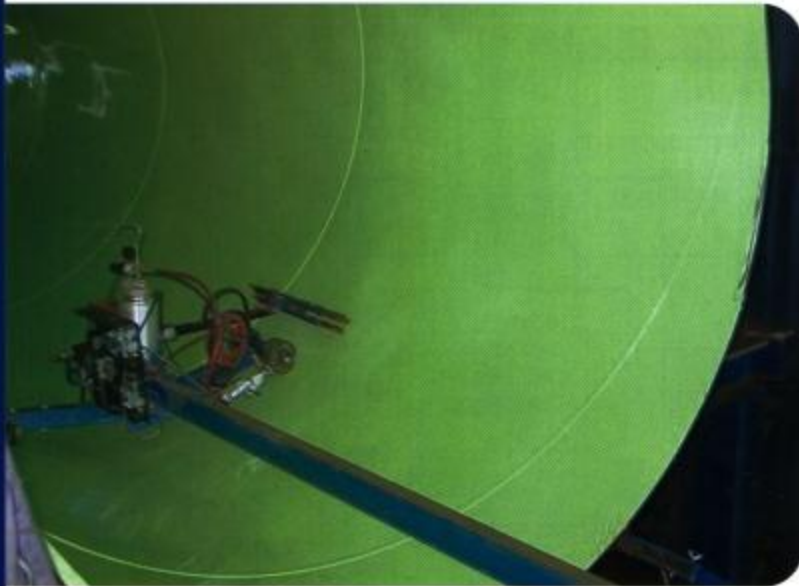
6) CEMENT MORTAR LINING



PRODUCT PROFILE FOR COATINGS

COATINGS FOR PIPES [HSAW, LSAW, ERW, DI, Seamless Pipes & Tubes]

Type of Coating	Applicable Coating Standards (General)	Range of Pipe Size		Capacity of Coatings Million Sq. Mtrs / Annum
		Pipe Diameter (O.D.)	Pipe Length (mtrs)	
Fusion Bonded Epoxy (FBE) Coating	CAN/CSA-Z245.20	8" to 64"	9 to 13	1.80
3 Layer Polyethylene Coating	DIN 30670 / NACE RP-01-69	8" to 64"	9 to 13	
3 Layer Polypropylene Coating	DIN 30678	8" to 64"	9 to 13	
Cement Weight Coating	IS 1916	8" to 64"	9 to 13	1.50
Internal Liquid Epoxy Coating	API 5L RP2 / NACE RP-01-75 / AWWA C200	16" to 64"	9 to 13	
Cement Mortar Lining	AWWA C205	16" to 100"	6 to 13	



NOTE :

- 1) Coal Tar Enamel is under consideration for commissioning after above 1st phase completion
- 2) External / Internal Painting is also under consideration for commissioning after 1st phase completion
- 3) Coating / Lining as per other International Standards & Customised specifications will also be supplied

Quality is the Hallmark of Pratibha Industries Ltd. We are committed to excel in our area of expertise by providing the clients, products falling within its range of manufacturing with quality built in accordance to stringent quality standards and specifications. Quality is a continuous process through deployment of modern technology, sophisticated equipment, input of quality products and strict adherence to safety norms.

PIL believes that quality is of prime importance and the building block to customer relations & loyalty, through deliverance of goods of the highest quality. In order to ensure the highest quality and benchmark itself to 100% deliverance of quality products, PIL SAW Pipes Div. is equipping itself with the best testing equipments, procedures, and strict quality control systems. The in-line testing of all parameters at every stage of the production ensures no lapses or carry-over of sub-standard quality product to next stage thus ensuring high production levels with fail safe operations.

LIST OF TESTING EQUIPMENTS FOR HSAW PIPES & COATINGS :

List of Testing Equipments - HSAW Pipes

Sr.No.	Testing Instruments	Make
1	Coil Ultrasonic Testing 32 Channel	R D Tech Industries Inc. USA
2	On Line Ultrasonic Testing Instrument	R D Tech Industries Inc. USA
3	Portable Ultrasonic Testing Instrument Einstein - IIFT	Modsonic, Ahmedabad
4	Real Time Radiography 225KVA Model No. Mg226	Safers GmbH, Germany
5	Radiography Testing Machine (X-Ray)	General Electric Co. Germany
6	Hydrostatic Testing HT 2800	Byard Spiral Mill SDN. BHD. (Malaysia)
7	Magnetic Particle Testing	East West Engineering, India
8	Tensile Test Guide Bend with Extentiometer (Computerised)	Fule Instruments & Engg. India
9	Impact Testing Instrument (Charpy & IZOD)	Fule Instruments & Engg. India
10	Vickers Hardness Testing (Computerised)	Fule Instruments & Engg. India
11	Drop Weight Tear Testing Instrument	Pragya Hydraulic, India
12	Spectro Analysis 20 Elements	Quantron GmbH Germany
13	Profile Projector	Mitutoyo, Japan
14	Broching Machine	Sharp Tool, India

List of Testing Equipments - Coatings

	Sr. No.	Testing Instruments	Make	Test
Test on Fusion Bonded Epoxy	1	Gel Time Apparatus	Khushboo Scientific, India	Gel Time
	2	Moisture Content Apparatus	Khushboo Scientific, India	Moisture Content
	3	DSC (Thermal Analyser)	Metler Toledo	Cure Time
	4	DSC (Thermal Analyser)	Metler Toledo	Thermal Characteristics (Tg1, Tg2 & .H)
Test on Adhesive	1	Specific Gravity Balance	Khushboo Scientific, India	Specific Gravity
	2	Melt Flow Rate Tester	Khushboo Scientific, India	Melt Flow Rate
	3	Vicat Softening Point Apparatus	Khushboo Scientific, India	Vicat Softening Point
Test on Polyethylene / Polypropylene	1	Specific Gravity Balance	Khushboo Scientific, India	Specific Gravity
	2	Melt Flow Rate Tester	Khushboo Scientific, India	Melt Flow Rate
	3	Vicat Softening Point Apparatus	Khushboo Scientific, India	Vicat Softening Point
	4	Moisture Content Apparatus	Khushboo Scientific, India	Moisture Content
Test on Coating	1	Digital Peel Off Adhesion Tester with Graph	Coesfeld	Bond Strength
	2	Impact Tester	Khushboo Scientific, India	Impact Test
	3	Indentation Apparatus	Khushboo Scientific, India	Indentation Hardness
	4	Electronic Digital Display Universal Testing Machine with computer	Khushboo Scientific, India	Elongation Failure & Tensile Strength
	5	Cahodic Disbondment Apparatus	Khushboo Scientific, India	Cathodic Disbondment
	6	DSC (Thermal Analyser)	Metler Toledo	Degree of Cure (ΔH, ΔTg)
Instruments For Process Control	1	Digital Thermal Hygrometer	Testo	Humidity
	2	Roughness Gauge (300 im to 14 im)	Mitutoyo Japan	Anchor Pattern of Blasted Surface
	3	Comparator	Swiss (SIS 055900). Reference Standard.	Cleanliness of Surface
	4	Magnifying Torch (30x)	Lumagny	Surface Profile
	5	Salt Meter (SCM 400)	Khushboo Scientific, India	Salt Contamination Test
	6	Digital temperature Gauge	Testotherm	Pipe Surface Temperature
	7	Pyrometer	Japan	Adhesive / PE Film Temperature
	8	Elecometer	Defelsko	Coating Thickness
	9	Holiday Detector	Spy / PCWI Australia	Holiday Test
	10	WET Film Gauge	Defelsko	Wet Coating Thickness

LIST OF CERTIFICATION

1. API 5L Monogram
2. ISO 9001 :2000
3. API Specification Q1
4. ISO/TS 29001
5. IS 3589:2001
6. IS 5504



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