



**DIFD**  
INDUSTRIES PVT. LTD.

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DIFD

## ➤ DIFD – Company Profile

- ❖ **DIFD Industries Private limited (DIFD)** is a, illustrious & trusted name in the field of **Manufacturing of Wind Mill Steel Towers, Wind Mill Concrete Towers, and Design & Manufacturing of Pre – Engineered Steel Buildings & Heavy duty EOT/Goliath cranes.**
- ❖ We are well established professional organization, started its journey as site fabrication contractor in the year 2005, subsequently started Engineering & Fabrication in the factory premises with a sole focus on Light, Medium to Heavy Industrial structures, catering to various industrial sectors.
- ❖ Prioritizing customer satisfaction by the means of timely performance, engineering excellence, cost effectiveness; we are contributing to customers revenue, profitability & sustainable competitive advantage. Safety, premium quality and continuous improvement are the key objectives of DIFD.
- ❖ We are a conglomerate of companies having manufacturing set up at four different locations across Gujarat & Tamilnadu, India.

## ➤ Our Footprints :

### **DIFD Eyava (Gujarat)**

Manufactures of Heavy Structural Steel, Pre-Engineered Steel Buildings & EOT Cranes.

**01**

### **DIFD Khoda (Gujarat)**

Manufacturing of Internals for Steel Towers & Foundation Cans.

**02**

### **DIFD Kannivadi (Tamilnadu)**

Manufacturing of Concrete Wind Mill Towers

**03**

### **DIFD Malwan (Gujarat)**

Manufacturing of Steel Wind Mill Towers

**04**

## ➤ DIFD - LOCATION



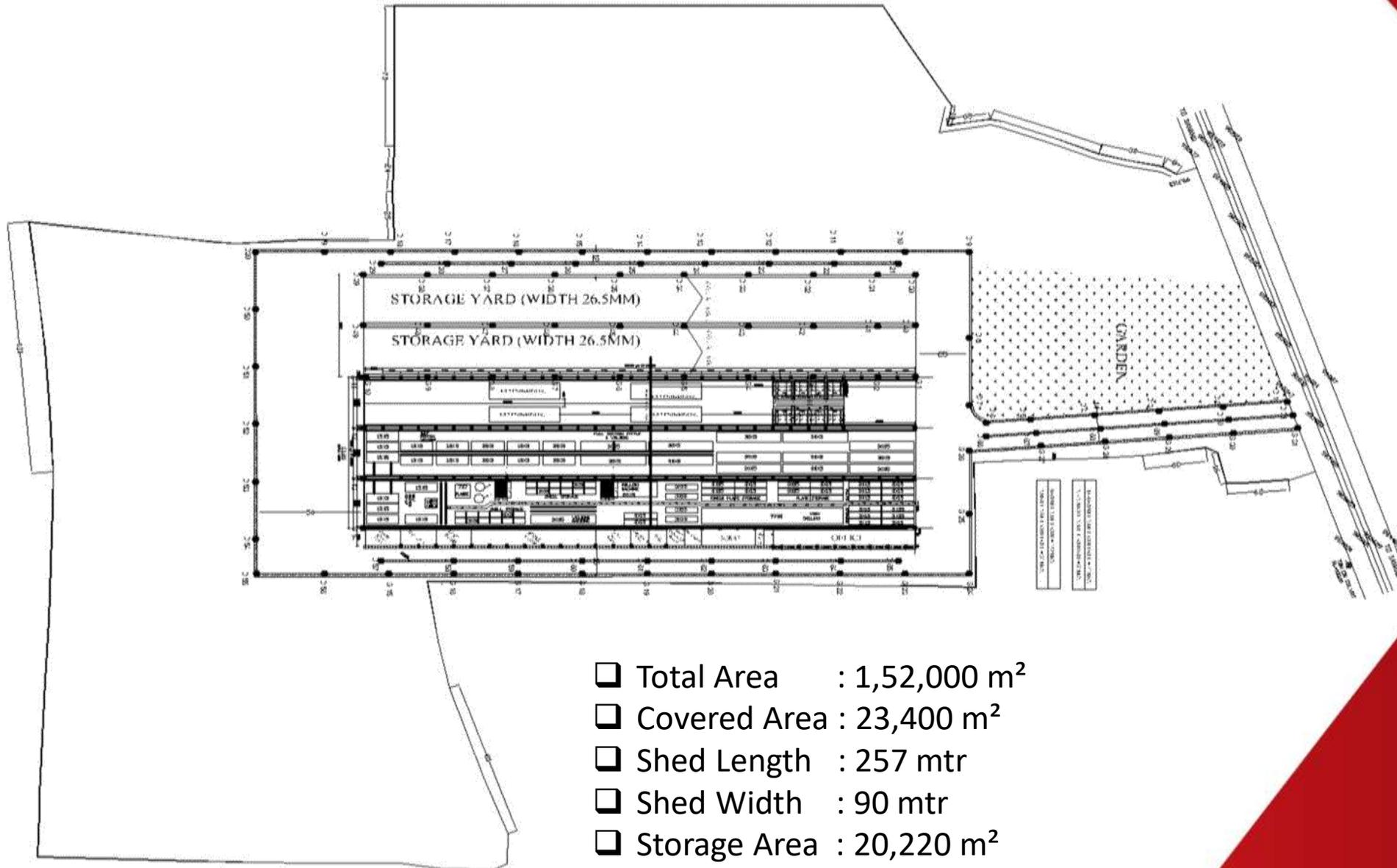
### Head Office/Steel Tower Plant

#### DIFD Industries Pvt. Ltd.

Plot No: 773/782/789/787/788/790 Opposite Uma Sankul,  
Viramgam Highway, Malvan, Taluka: Dasada,  
District: Surendranagar-363310, Gujarat, INDIA.

- ✈ Nearest Airport (SARDAR VALLABHBHAI PATEL INT. AIRPORT)  
110 km.
- 🚂 Nearest Railway Station (VIRAMGAM - JUCTION)  
35km.

## ➤ DIFD Malvan – Plant Layout



- ❑ Total Area : 1,52,000 m<sup>2</sup>
- ❑ Covered Area : 23,400 m<sup>2</sup>
- ❑ Shed Length : 257 mtr
- ❑ Shed Width : 90 mtr
- ❑ Storage Area : 20,220 m<sup>2</sup>

➤ Some glimpse of plant...



➤ Some glimpse of plant...



➤ Some glimpse of plant...



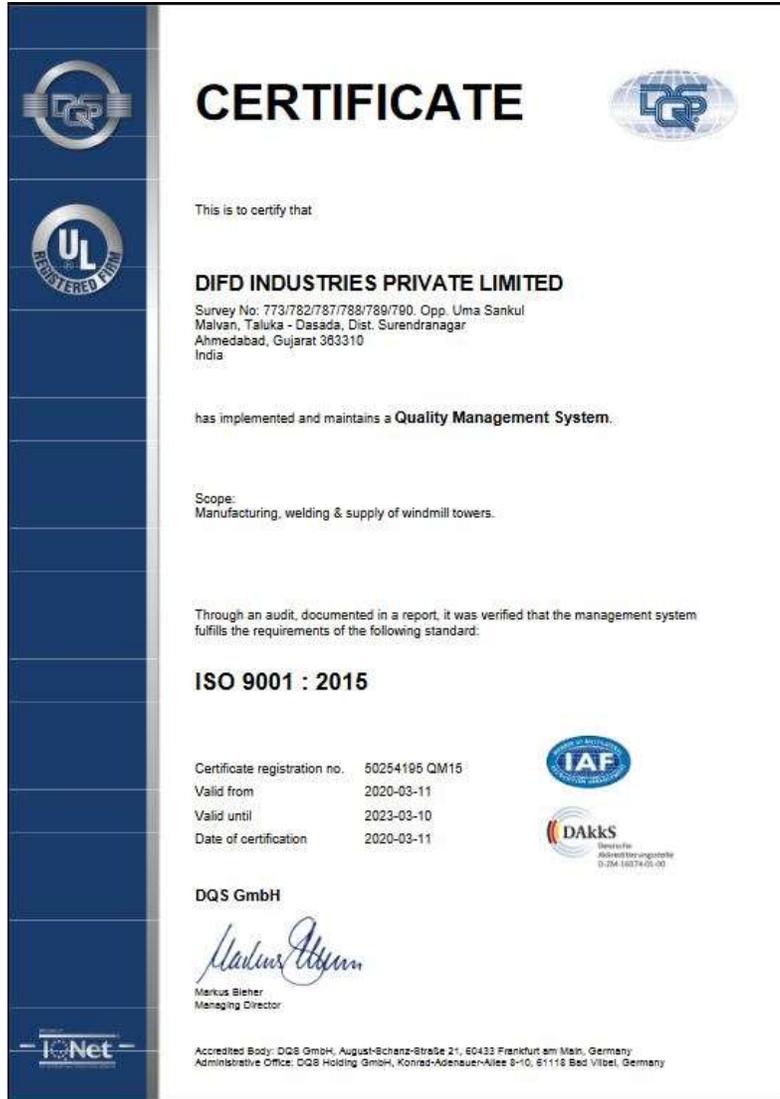
➤ Some glimpse of plant...



➤ Some glimpse of plant...



## ➤ Quality & Certifications



- ❖ In a very short span of time, Manufacturing facility at Malvan has added feather in cap of organization by qualifying ISO9001-2015 management system & ISO 3834-2 weld Shop qualification.
- ❖ Further ISO 14001, ISO45001 & ISO1090 -2 are under implementation.

## ➤ Quality & Certifications

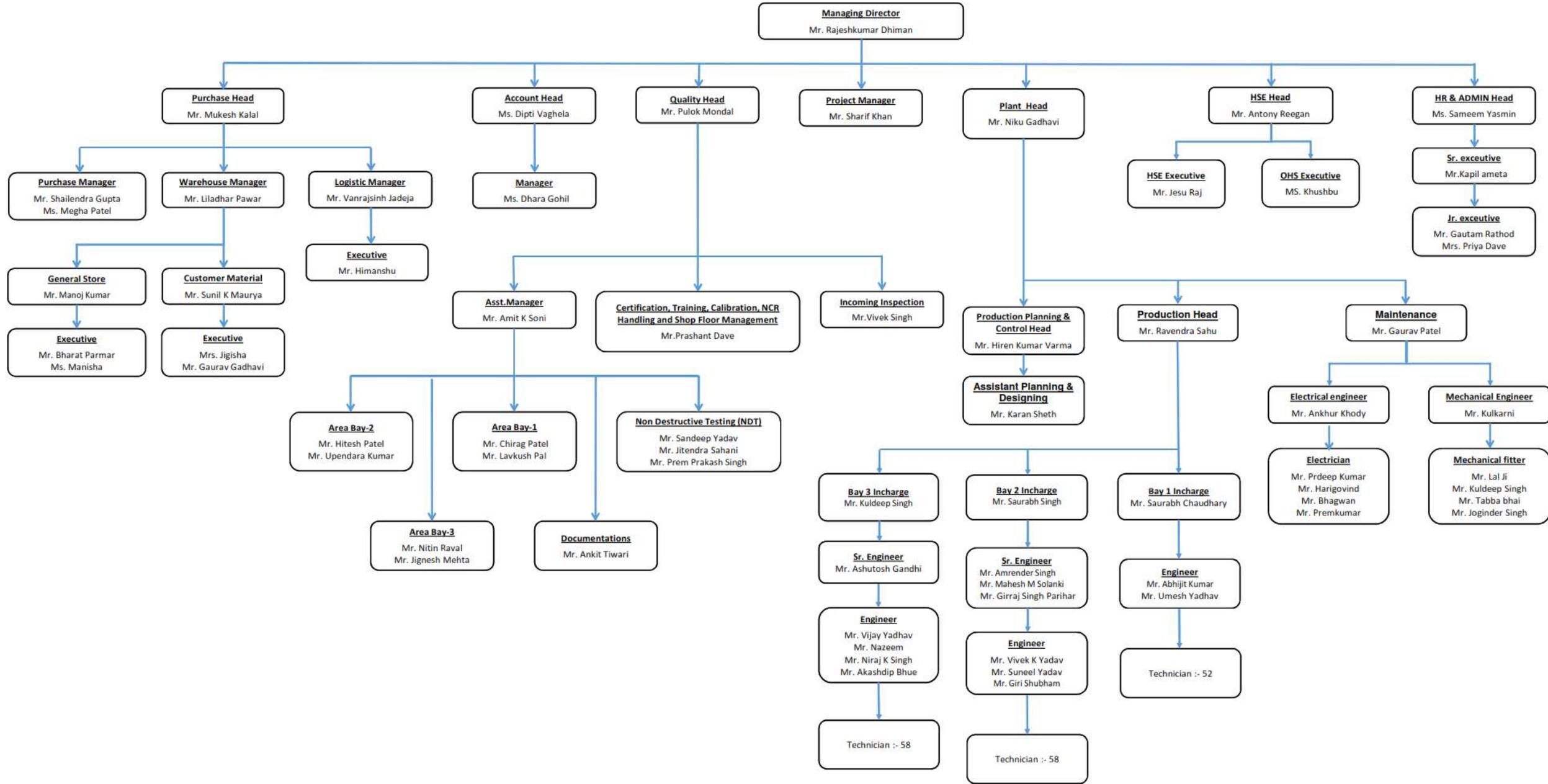
Certificate	
	<b>Inspection of the welding quality requirements according ISO 3834</b>
Certificate no.:	01 202 IND/A-20 0001
Name and address of the manufacturer:	DIFD INDUSTRIES PRIVATE LIMITED SURVEY NO - 773/782/787/788/789/790 OPP.UMA SANKUL, VIRAMGAM HIGHWAY, MALVAN, TA.: DASADA, Dist : Surendranagar, 363310 India
	It is hereby certified that the manufacturer has furnished proof of the comprehensive quality requirements according to the test basis. The mentioned company - operates a quality system which ensures that the manufacture and inspection of the products stated in our report, are in compliance with applicable technical standards and regulations; - employs qualified supervisory and inspection personnel; - has qualified welding processes and welding personnel; - has adequate facilities permitting manufacture and inspection of welded products.
Specifications:	EN ISO 3834-2
Scope:	The scope of the inspection and other relevant data are given in the annex to the certificate.
Manufacturing Plant:	DIFD INDUSTRIES PRIVATE LIMITED SURVEY NO - 773/782/787/788/789/790 OPP.UMA SANKUL, VIRAMGAM HIGHWAY, MALVAN, TA.: DASADA, Dist : Surendranagar, 363310 India
Test Report no.:	114/ 166219629
Valid until:	March 16, 2023
	 i.A. Eng. Achim Makowka Certification Body for Manufacturer Qualification
Cologne, March 17, 2020	
TÜV Rheinland Industrie Service GmbH Certification Body for Manufacturer Qualification Am Grauen Stein, D-51105 Köln	M-010-2-24003424-0-Rev.024

www.tuv.com



- ❖ Quality is a continuous process at DIFD- where organization-wide action is taken to increase the effectiveness and efficiency of the engineering process.
- ❖ This means that we continuously concentrate on improving our performance to ensure mutual benefit.
- ❖ We aim to meet customer expectations every time. We believe moving beyond Quality Control to provide Quality Assurance, so you can be confident that your requirements will be met with consistent Quality.
- ❖ Our process ensures that high standards are maintained as per your satisfaction.

# ➤ Organization Structure



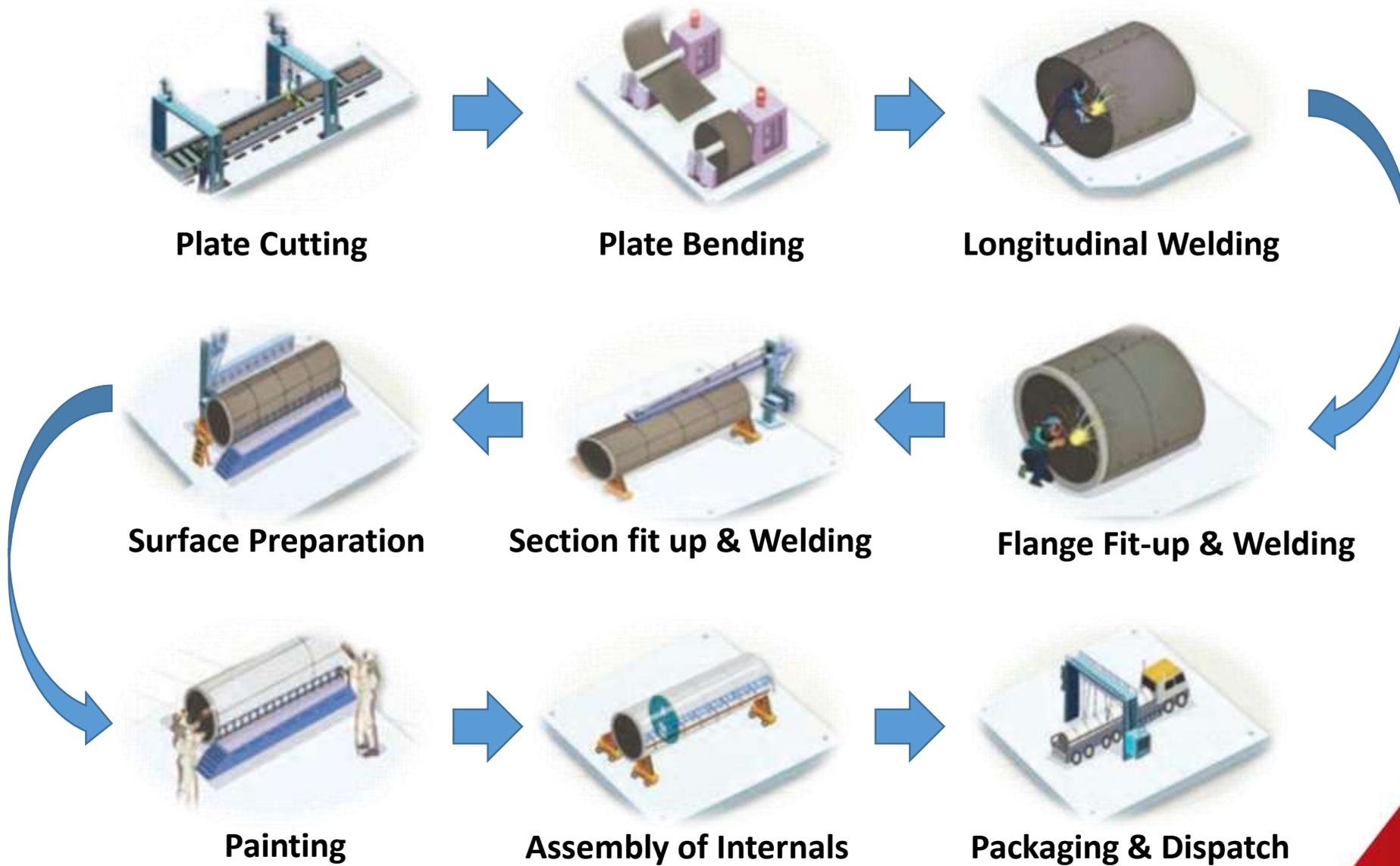
## ➤ Manufacturing Facilities

- ❖ With the help of Highly skilled manpower and advanced equipment with we can ensure the quality & timely production.
- ❖ We are having state of the art facility for manufacturing steel tubular Towers, over 38 acres.
- ❖ We can produce 100 section/month having 300 labors and 65 staff members are working at different levels.
- ❖ We have all kind of machineries to facilitate all manufacturing capabilities in-house.
- ❖ I.e.
  - CNC Plasma/Oxy Cutting Machine
  - Advanced Roller Bending M/C
  - Column & Boom SAW Welding
  - Advanced Blasting and Paint booth
  - Heavy Capacity Cranes
  - Portable Welding Machines

## ➤ List Of Key Machineries

Process	Equipment Description	Manufacturer	Capacity	Qty.
Cutting	Plasma CNC Cutting	System Engineer	Thickness - 15mm Width- 3000mm	01
Cutting	Oxy-fuel CNC Cutting	System Engineer	Thickness - 100mm Width- 3000mm	01
Bending	Plate Bending Machine - 4 Roller PLC controlled	Himalaya	Thickness - 50mm Width- 3000mm	01
Re-Bending	Plate Bending Machine - 3 Roller	Himalaya	Thickness - 50mm Width- 3000mm	01
SAW welding	DC Power Source mounted with Colum & Boom	ESAB - India Cu-Built - India	Power Source- 1200amp Diameter - 5000mm Length - 6000mm	05
GMAW/FCAW Welding	Welding Power Source	ESAB - India Parag - India	400Amps & 500Amps	10
SMAW Welding	Welding Power Source	Bright	400Amps	2
Shell Fit up & Welding	Hydraulic Rotators	Cu-Built – India Dhiman Ind.– India	30 MT to 100 MT	52
Material Handling	Goliath Crane	Sharda/Dhiman	20 MT & 50 MT	06
Material Handling	Magnetic Lifter	Dhiman Ind.	15 MT	01
Surface Preparation	Compressor with blasting guns & Dust Collector System	Atlas Copco	455 CFM	03
Surface Preparation	Compressor with blasting guns & Dust Collector System	Atlas Copco	600 CFM	01
Painting	Airless Spray Painting Pump	Jaguar	8.5 Bar	02

## ➤ Manufacturing Process Flow



## ➤ Manufacturing Facilities

### CNC Cutting Machines



- ❖ For Profile Cutting of plates we have Plasma as well as Oxy-fuel CNC cutting machine.
- ❖ Make : System Engineer India
- ❖ Plasma CNC : Thickness : up to 15mm  
Width : 3000mm
- ❖ Oxy-fuel CNC : Thickness : up to 100mm  
Width : 3000mm
- ❖ Total Bed Length : 70 mtr
- ❖ 02 nos Dedicated Goliath crane of 20 MT.

## ➤ Manufacturing Facilities

### Rolling/Bending Machines

❖ For shell rolling we have two plc controlled rolling machines.

❖ Make : Himalaya

❖ Roller 01 : Thickness : up to 50mm  
Dia. : up to 5000mm  
Width : 3000mm  
Controls : PLC , 4 Rollers, Conveyor  
Pushers , Side supports  
Total Bed Length : 17 mtr

❖ Roller 02 : Thickness : up to 50mm  
Dia. : up to 5000mm  
Width : 3000mm  
Controls : PLC , 3 Rollers

❖ Handling : 2 Goliath crane of 20 MT.



## ➤ Manufacturing Facilities

### Welding Machines



- ❖ For SAW welding process we have 05 nos. of welding machines.
- ❖ SAW welding : Power Source : 1000 DC ESAB
  - Diameter : up to 5000mm
  - Length : 6000 mm
  - Make : Cu-Built - India  
(Colum & Boom type )
  - Qty. : 05 nos.

## ➤ Manufacturing Facilities

### Welding Machines

❖ For GMAW/FCAW welding process we have 10 nos. of welding power sources.

❖ GMAW/FCAW Welding: Power Source : 400/500 Amps  
Make : ESAB - India  
Qty. : 10 nos.

❖ For SMAW welding process we have 02 nos. of welding power sources.

❖ SMAW Welding: Power Source : 400/500 Amps  
Make : Bright  
Qty. : 02 nos.



## ➤ Manufacturing Facilities

### Flange Fit-up Station



- ❖ For various type of flange to shell fit-up we have hydraulic operated fit-up station.
- ❖ Flange fit-up : Diameter : Up to 5000mm  
Make : Dhiman Industrial  
Fabricators & Designers  
Qty. : 01 nos.

## ➤ Manufacturing Facilities

### Shell to Shell Fit-up stations

- ❖ For shell to shell fit-up we have hydraulic operated fit-up stations in Bay-1 and Bay-2 area.
- ❖ We can fit-up shells up to 5000mm dia. and of various lengths.
- ❖ We have two different area for fit-ups for lengthy jobs.
- ❖ First we do half fit-up of the job at Bay-1 and then we transfer the job to other Bay-2 area for full fit-up.
- ❖ For transfer of job from Bay-1 to Bay-2 we have transfer trolley arrangement of 40mtr length with 100MT capacity.



## ➤ Manufacturing Facilities

### Fit-up & Full welding Stations

- ❖ Complete section fit up with hydraulic fit up station .
- ❖ Welding of Circumferential seam with GMAW/FCAW & SAW welding.
- ❖ Door Frame fit up & weldables internals fit-up & welding.
- ❖ Section handling is performed by two Goliath cranes of individual capacity of 50mt.



## ➤ Inspections Facilities



- ❖ Visual inspection & Ultrasonic testing of Butt Weld is carried out by ASNT Level-II operator as per customer approved procedure.
- ❖ We have MODSONIC make UT machine to carry out UT of weld joints.

- ❖ Magnetic particle testing of fillet welds is performed by ASNT Level II operator as per customer approved procedure.
- ❖ We have ACCUPLUS make MPT Yoke machine to carry out MPT of weld joints.



## ➤ Inspections Facilities

- ❖ We have laser measuring unit for measuring flatness , tilt and short waviness of flanges.
- ❖ LASER MEASURING UNIT :
  - Make/Model : Easy Laser E-915



- ❖ Pre-blasting inspection of section is performing at black stage.

## ➤ Manufacturing Facilities

### Blasting Booth

- ❖ Ready for blasting sections are transferred from Bay -2 to Bay -3 on trolley of capacity 70 MT.
- ❖ We have fully integrated blasting booth with grit recovery system & dust collector.



- ❖ Booth Size is 7 x 7 x 32 mtrs (01 No)
- ❖ Second Blasting Booth 7 x 7 x 32 mtrs (Under Process)

## ➤ Manufacturing Facilities

### Painting Booth

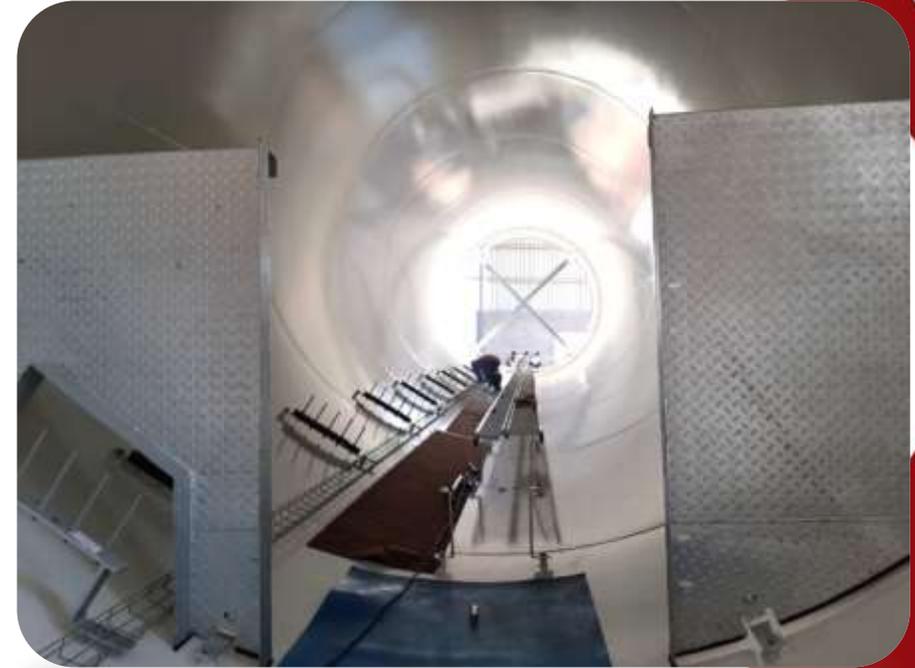
- ❖ We have paint booths with exhaust system equipped with airless Spray Painting Pump of JAGUAR make with capacity of 8.5 bar pressure.
- ❖ Paint application on dummy shell.



- ❖ Booth Size is 7 x 7 x 33 mtr. (02 Nos)
- ❖ Booth Size is 7 x 7 x 35 mtr. (02 Nos)  
(Under Process)

## ➤ Manufacturing Facilities

### Final Assembly



- ❖ Climbing ladders, tower platforms and all other items assembled at final assembly stage.
- ❖ After that final inspection is carried out as per requirements of jobs.

## ➤ Manufacturing Facilities

### Packaging & Identifications



- ❖ After final inspection of job any marking or identification(i.e. logo) will be painted on job as per specified by customer.
- ❖ Then job is covered with End cover, full body cover by supporting End spider fit up to maintain its quality.

## ➤ Manufacturing Facilities

### Loading & Dispatch



- ❖ Loading and dispatch procedure followed as per customer requirements.
- ❖ We have 50 MT crane for loading of job on vehicle.
- ❖ After loading the job, it tied with lashing belts and tighten properly with trailer bed.

## ➤ Key Quality Measuring & Test Equipment

### Laser Equipment for Flatness Measurement

To check flange flatness & tilting  
(Easy Laser - 01 No)

### Laser Distance Meter

To check the linear dimension –  
(Lica -02 Nos)

### Digital Thickness Gauge

To check the thickness of plates-  
(Time – 02 Nos)

### Ultrasonic Testing Equipment

To ensure the weld quality as per requirements (Modsonic-01 Nos)

### Magnetic Particle Testing Equipment

To check the quality of fillet weld  
(Samsonic- 01 No)

### Universal Weld Gauge

To check profile & dimensions of weld (Kristeel-01 No)

### Digital Coating Thickness Gauge

To measure the dry film thickness of paint (POSITECTOR -01 Nos)

### Surface Profile Gauge

To check blasting profile after surface (Accuplus-02 Nos)

### Hygrometer

To monitor environmental cond<sup>n</sup>  
(JRM thermometers-01 No)

### Gloss Meter

To check the gloss level of paint  
(Samsonic-01 No)

### Pull of Adhesion Tester

To check the paint adhesion strength (Biuged-01 No)

### Pin hole detector

To check paint film continuity  
(Associate Electronic-01 No)

## ➤ HSE Department

- ❖ DIFD HSE is a initiative that establishes a company-wide practice of setting up and maintaining the HSE standards with a dedicated approach and organizational commitment.
- ❖ DIFD HSE initiatives are intended to keep its employees safe while making sure that its customers, suppliers and contractors are assured of their work being completed as planned and a clear focus on attaining HSE excellence.
- ❖ For that we provide time to time safety training to all employee and workers.
- ❖ All safety related equipment and tools are provided to workers and employees according to there work.

## ➤ HSE Department

### Health & Safety Initiatives



## ➤ HSE Department

### Health & Safety Initiatives



## ➤ HSE Department

We donate cause we care...!



## ➤ Our Valuable Clients

### SENVION

wind energy solutions

- Senvion is a leading global developer and manufacturer of onshore and offshore wind turbine generators, operating in twenty countries with approximately 17 GW of cumulative installed capacity.
- Senvion India Pvt. Ltd. is the wholly owned subsidiary of Senvion GmbH. The headquarters in Mumbai since 2016 focuses on providing high-quality wind energy solutions for the Indian market. Senvion has launched its 2.XM series of wind turbines in India.
- Senvion India commenced its project at Bhuvad in Gujarat comprises 44 Senvion 2.3M120 turbines with a hub height of 120m.



- The development, manufacture, project management and servicing of onshore wind turbines has been the core competence and passion of the Nordex Group for 35 years.
- With the acquisition of Acciona Windpower in 2016, the Nordex Group has become a global player and one of the world's largest wind turbine manufacturers. The Group offers highly efficient and competitive technology under the brand names "Nordex" and "Acciona Windpower".
- Founded in 1985, the Nordex Group has a proven track record of launching industry-leading products – starting when they pioneered in the mass production of 1 MW turbines (1995), when they were first to enter the 2.5 MW class (2000) or launched the first 4+ MW class turbine, the N149/4.0-4.5, in 2017. However, their current focus is on turbines in the 3 to 5+ MW class.

## ➤ Our Valuable Clients



- INOX Wind Limited is an Indian wind energy service provider. Headquartered in Noida, India. Inox's WTGs are based on AMSC technology and currently offer multiple blade and tower variants of the 2 MW turbine.
- Inox has entered into a collaboration with AMSC to develop a 3 MW turbine specially designed for the Indian market.

# Thank You.

## DIFD Industries Pvt. Ltd.

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Opposite Uma Sankul,  
Viramgam Highway,  
Malvan, Taluk, Dasada.  
District, Surendra nagar-363310,  
Gujarat, INDIA.

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