



TOOLFAB



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ISO 9001:2015
Certified Company



Toolfab Engineering Industries (P) Ltd

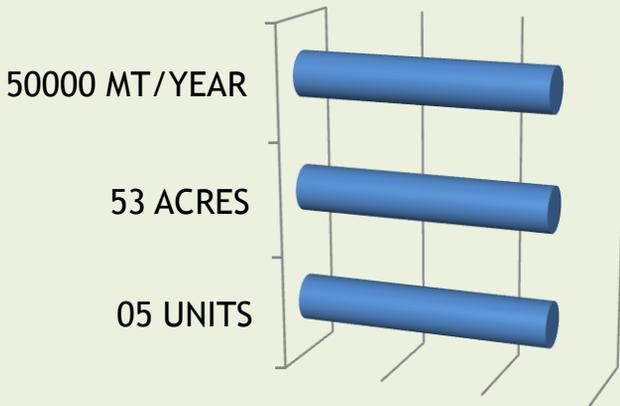
ABOUT US

We have pleasure in introducing ourselves as one of the leading Engineering manufacturing industry in Trichy, Tamilnadu, India, with over two decades of experience in the manufacture of power plant equipment, including heavy fabrication components.



Founded in 1995, by Mr. Chava Madan Mohan – Over 2 decades of experience we have steadily grown & established our name as “The best in heavy engineering fabrication”.

OUR POTENTIAL



“Toolfab focusing on Heavy Engineering Fabrication with major emphasis on Wind Mill Towers, Thermal Power Plant Boiler, Mining Equipments etc. Further significant development of High Engineering Techniques & Technology in achieving the 100% Quality and Customer Satisfaction in Time”

Unit I - Regd. Office and works, E3-E10, Developed Plots Estate, Thuvakudi, Tiruchirappalli. Tamilnadu

Unit II - Works, SENGIPATTI, Trichy- Tanjore Main Road,

Unit III - Works, 105/4 & 105/3, Asoor, Trichy - Tanjore Main Road,

Unit IV - Works, C-10, Developed Plots Estate, Thuvakudi, Trichy - 620 015.

Unit V - SF 17/ 12 B, 13 Asoor Main Road, Thuvakudi, Trichy - 620 015.

*Constructed Area : 500000
Sq.Ft*

*Enhanced HT Power : 1150
Kva*

Enhanced LT Power : 300 kva

Backup D/G Power : 1125 kva

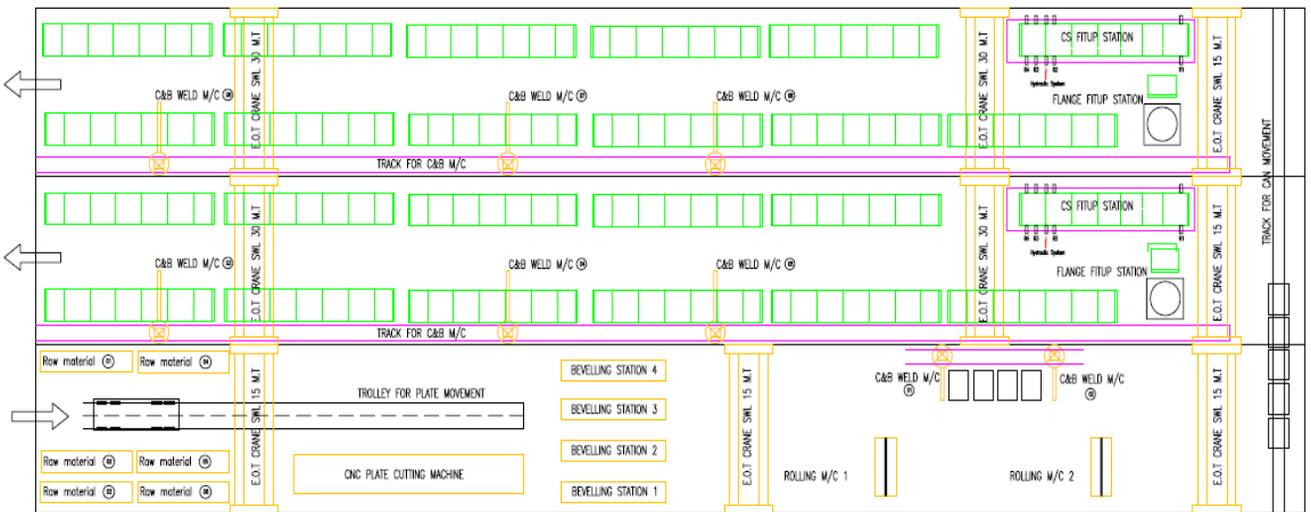
OUR INFRASTRUCTURE

We are well Equipped with the latest state-of-art equipment to meet the customer requirements in time with a well planned machinery infra-setup & optimized production line.

Unit 1 - Production shop size : 20m x 170m x 3 Bays

Unit 2 - Production shop size : 20m x 210m x 3 Bays

An identical shop view : Sample - Production line for Windmill Tower



Layout



Photos

ABOUT US

We have a huge space for storage area as well as utility space for future upcoming projects to meet the customer requirements instantly.

Unit 1 : Area for utility



Unit 2 : Area for utility – 35 acres appx.



KEY MACHINERY DETAILS



CNC Plate Cutting Machine

Spec : 4 mtr wide x 30 mtr lg
Max. Cut Thk = 60mm

Rating / Qty : Max 200 - 01 Nos
HSD 130 - 02 Nos
HPR 260 - 01 Nos
Make : Messer, ESAB



Plate Rolling Machine

Spec : 3 mtr wide x 15 mtr lg
Max. roll Thk = 60mm

Rating / Qty : PLN 30 - 02 Nos
PKN 30 - 02 Nos
Make : Himalaya



Boom / Inside - Welding Machine

Spec : SAW : 5 mtr x 5 mtr
Max. plate Thk = 40mm

Rating / Qty : 1000 amps - 22 Nos
1200 amps - 18 Nos
Make : Relon, Esab, Lincon



Hydraulic - Pressing Machine

Spec : 1000 Metric Tons Capacity
15 HP - Pressing Motor



Horizontal Lathe

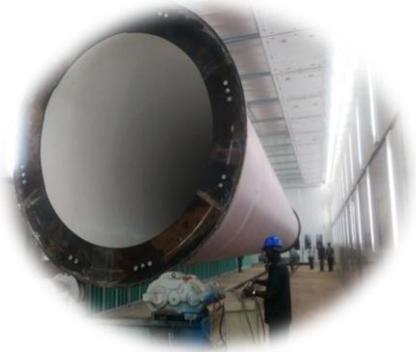
Spec :
Bore dia 56 mm,
1.5 Mtr Dia / 2.5 mtr Bed -Lg

Radial Drilling Machine

Spec : 80mm dia
Arm Length 2.2 Mtr



SURFACE PREPERATION



Automatic Blasting Chamber

Fully Automated Painting Facilities

STORAGE & PRESERVATION



An Optimized Set up for Material Receipt, Handling, Storage, Identification & Traceability as per ISO Standard

STORAGE & HANDLING

Unit II Blasting Bays	
30 MT	30 MT
Bay 8	Bay 7

Unit II Production Bays		
15 MT	15 MT	15 MT
30 MT	30 MT	30 MT
30 MT	30 MT	30 MT
15 MT	25 MT	25 MT
Bay 6	Bay 5	Bay 4

Unit I Production Bays		
15 MT	15 MT	15 MT
30 MT	30 MT	15 MT
30 MT	30 MT	15 MT
		15 MT
Bay 3	Bay 2	Bay 1

An Optimized Set up of high-tech Electrically Operated Over Head Cranes in all the production Bays

An identical shop : EOT Cranes Layout & View in Our Unit I & Unit II



OVER ALL HANDLING FACILITIES

Area	Handling	Crane capacity	Qty.
Unit-1 - 3 bays of Area (20mx170m)	Over head EOT Cranes	15 MT 30 MT	5 Nos. 4 Nos.
Unit-2 - 3 bays of Area (20mx210m)	Over head EOT Cranes	15 MT 30 MT	3 Nos. 6 Nos.
	A- Frame 12 m x 8 m	15 MT	5 Nos.
	Gantry Crane 12 m x 10 m	40 MT	1 No.
	EOT with Trolley Movement on Ganting Crane	15 MT	1 No.
	A - Frame 14 m x 8 m Lift	30 MT	2 Nos.
	Hydraulically Operated Mobile Crane	11 MT	1 No.
	Hydraulically Operated Mobile Crane	12 MT	5 Nos.
	Hydraulically Operated Mobile Crane	14 MT	1 No.
20 m x 240 m Open Yard (2 Bays)	Blasting and Painting Facility (Under Progress)	30 MT	7 Nos.
Transport Facility	Jeep Mounted Trailers	40 MT	3 Nos.
	Tractor Mounted Trailers	20 MT	2 Nos.

PRODUCTION & TESTING FACILITIES

S.No	Equipment	Capacity	Qty
1	Material Preparation		
	CNC / Plasma Profile Cutting Machine Make-Messer Comcut / Ador Fontec	4100x30000 mm	4 No.
	Oxy Acetylene Gas Cutting sets		60 Sets
	Pug Gas Cutting Machines	100 mm	25 Nos.
	Gulco Beveling Machine	30deg to 50deg	03 No
2	Forming		
	Plate Bending machine – Conical & Spherical Himalaya 30mmx3000mm width	---	2 No.
	Plate Bending machine – Conical & Spherical Himalaya 40mmx3000mm width	---	2 No.
	Plate Bending machine – Conical & Spherical Himalaya 60mmx3000mm width.	---	2 No.
	Pipe Bending Machine – Electronumatic	---	1 No.
	Hydraulic Press M/c.	3000 M.T.	1 No.
	Rotators (Conical Shell)	40 MT	65 Sets
	Make - Ferrocurves, Creative, Mogra and Qbuilt.		
	CS Fitup Station	----	01 No.
3	Welding		
	Column & Boom Machines for SAW Welding	---	22 Nos.
	Submerged Arc Welder (Tractor Type for Inside Welding)	1200 A	18 Nos.
	Submerged Arc Welder (Tractor Type for Inside Welding)	1000 A	5 Nos.
	Submerged Arc Welder (Tractor Type for Inside Welding)	800 A	2 Nos.
	Rectifiers	400 A	19 Nos.
	Inverter	400 A	59 Nos.
	MIG \ MAG Welding, Make - ESAB, Mogra.	600 A	17 Nos.
	Single Phase Weld Machine	200 A	4 Nos.
	Electrode Baking, Flux Ovens	400°C	5 Nos.
	Portable or Flask Ovens	250°C	24 Nos.
4	Machining		
	Heavy Duty Lathe Centre Height 850mm, Between Centre 4600mm, Flanges up to Dia 2500mm	50 HP	01 No.
	HMT make-Radial Drilling RM63.1800arm length	63 mm	2 No.
	Magnetic Drilling	31 mm	14 Nos.
	Column Drilling	25 mm	2 Nos.
	Pillar Drilling	38 mm	1 No.
	Radial Drilling 1 m arm length.	38 mm	5 Nos.
	Bench Grinders	---	2 Nos.
	Flexible Shaft (pencil) grinders	---	1 No.
	Portable Grinders	AG 7"	68 Nos.
		KPT 7"	37 Nos.
		KPT 4"	2 Nos.
		KPT 5"	5 Nos.
		HS 7"	1 No.
		K600	5 Nos.
		GQ 4	1 No.
5	Surface Preparation		
	Automatic Shot Blasting machine	4.5 Dia x 20M	1 Nos
	Shot Blasting Chamber Closed	8Mx8Mx30M	2 Nos.
6	Painting		
	Paint Booth (Vaccum Sealed)	38M Lg x 8M wd x 8M Hgt	1 No
	Paint Booth (Vaccum Sealed)	32M Lg x 8M wd x 8M Hgt	1 No
	Painting Rotator	40 MT	36 Sets.
	Airless Painting M/c. Make-Graco 45:1	---	2 Nos.
7	Others		
	Screw Jack	20 T	1 No.
		25 T	1 No.
		30 T	1 No.
	E.B Power	300 KVA – HT 300 HP	---
	D.G Power Generators	250 KVA	2 Nos.
		125 KVA	1 No.
		7.5 KVA	1 No.
8	Work Site Area		
	Unit - I		
	E3 - 10 Developed Plot Estate, Thuvakudi, Trichy - 15	4 Acres.	
	Unit-II		
	Servey No. 263, Sanoorapatty, Sengipatty Post, Tanjavur Dist.	32 Acres.	

Our Testing facilities towards a strong, customer-focused approach with a continuous quest for world-class quality



In House Testing Facilities

Equipments

Easy Laser - Surface Flatness Measurement and alignment system

Make-DAMALINI AB - SWEDEN

Ultrasonic Testing

Magnetic Particle Testing

Liquid Penetrate Test kits

Painting Gauge –Coat measure M-1. Digital

Profile Gauge.

Thickness Measurement Gauge (D Meter)

Distance Measurement Laser

'I' Type Straight Edge 4.5 Mtr.

Pressure Gauges – Various Ranges

Hydro Testing Pump (350 Kg/cm² (g))

Capacity

Qty

5 No.

4 Set.

1200 A

2 Nos.

20 Nos.

1 No.

1 No.

1 No.

2 Nos.

1 No.

6 Set

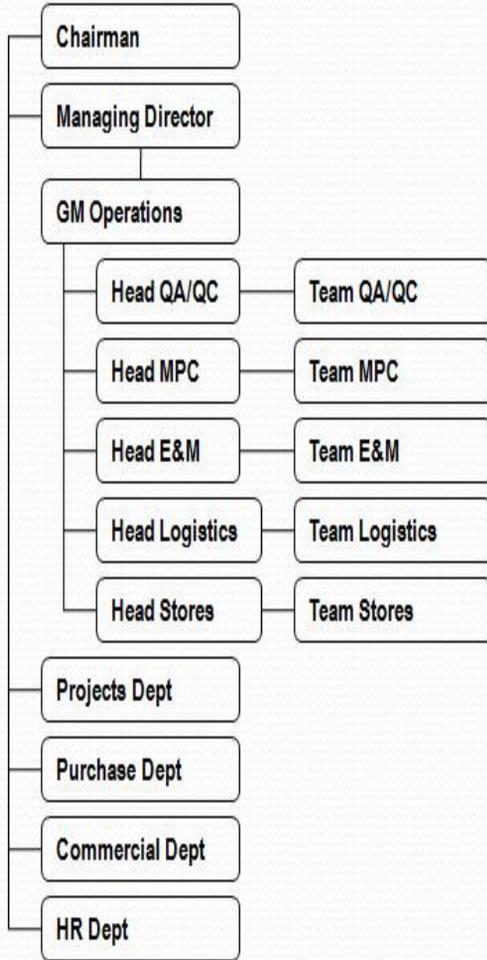
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OUR TEAM

Toolfab is pioneering with expertise of well experienced engineering team & technicians

ORG CHART



Average experience of Key Personal is about 20 years.

60 % of Employees having more than 10% Experience.

Out of Entire team 75% of employees are technical personnel of which almost is 35% are Engineers.



SPECIAL - STRUCTURE

In Addition to our Administration and Engineering departments, We have formed special structure to meet any customer's technical requirements.

In House

- NDE Team with Level II.
- Pressure parts department.
- Special Process (Blasting & Painting) department.
- Project department.
- Design & Engineering department.
- EHS department.
- Logistics Team.

Projects

- Construction Team
- Installation Team
- QA/QC Team
- Engineering Team
- Commissioning Team
- Service team
- Hook Up team

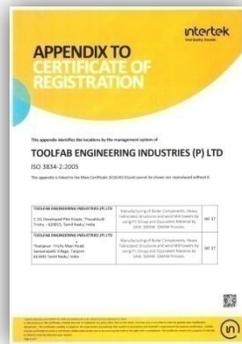
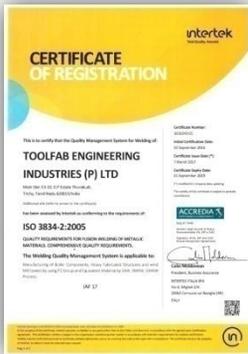
CERTIFICATIONS

Toolfab Engineering Industries (P) Ltd., has been certified that Quality Management System of TFEIPL is of **International Standard**

“ISO 9001 : 2015”

For the following Product or Service Ranges by **BSI - Certification:**

“ Manufacture of Tubular Tower sections and other components for wind turbine Generators, Boiler Components, Mining Equipment Components and all other Heavy Engineering steel structurals “



ISO 3834 – II CERTIFICATION

Toolfab Engineering Industries (P) Ltd., has been certified for weld shop approval

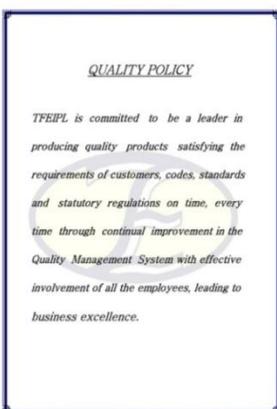
“ISO 3834 – 2-2006” WELD SHOP APPROVAL

Certified by **Intertek**
Scope of Certificate

“ **QUALITY REQUIREMENTS FOR FUSION WELDING OF METALLIC MATERIAL & COMPREHENSIVE QUALITY REQUIREMENTS.**”

QUALITY FOCUS

In our Organization, continuous improvement to process is not an assignment, but a way of life. This tradition of quality consciousness is linked directly to the company's history of excellence and Success. Raw materials are sourced predominately from reputed companies and customers approved Suppliers. Keeping the product characteristic in mind, the film is designed with product economics in mind. We have assigned well experienced personals to inspect the projects each and every stages up to dispatching as per ISO standard procedure.



IMPORT & EXPORT

We are certified by
“**GOVERNMENT OF INDIA, MINISTRY OF COMMERCE**” as
“**IMPORTER & EXPORTER**”
for Engineering goods.

JOB PROFILE : WINDMILL TOWERS



Job - Description : Windmill Towers (Tubular, lattice)

Technical Details : Material Grade

Main components : S355 J2, J0, S355 J2-G3, S335 NL.

Sub components : S235 JR, IS 2062 GR B

Technology used : Cutting, Edge preparation, Fit up, SMAW welding, SAW welding welding, GMAW welding, drilling, Heat treatment, Painting.

Standards Used : EN STANDARD

Testing methods : LPI test & Ultrasonic testing

Inspection Agency : TPL, BVQI, RELEVANT CUSTOMER

RELEVANT CUSTOMERS

M/s. Suzlon Energy Limited
M/s. Regen Powertech Limited
M/s. Leitner Shriram Limited
M/s. Winwind Limited
M/s. Gamesa Wind Turbines

JOB HANDLED - YEAR

2003 to 2012

TOTAL TONNAGE HANDLED

1 Lakh Metric Tons

TOTAL VALUE OF THE JOB

(2220 million INR) / (44.0 million US\$)

JOB PROFILE : COMPOSITE STEEL GIRDERS FOR RAILWAY OVER BRIDGE

CUSTOMER : TRANSSTROY INDIA LIMITED

Project : Tindivanam - Krishnagiri : 3 x 32 M - 450 MT : Composite Steel Girders : Shop Floor Assembly Photos



Project : Tindivanam - Krishnagiri : 3 x 32 M - 450 MT : Composite Steel Girders : Site Erection Photos



Girder Drilling

Stud Welding

Beam with Studs

Metalizing & Painting

Riveting Process

**RIVER OVER BRIDGE
WITH CHANNEL SLEEPERS**

RIVER OVER BRIDGE

ROAD OVER BRIDGE



JOB PROFILE : WINDMILL TOWER NACELLE



Job - Description : Wind mill tower Nacelle.

Technical Details : Material Grade

Main components : S355 J2, J0

Sub components : S235 JR, IS 2062 GR B

Technology used : Cnc cutting, Edge preparation, Fit up, SMAW welding, GMAW welding, drilling, Heat treatment, Blasting & Painting.

Standards Used : EN STANDARD

Testing methods : LPI test, MPI test & Ultrasonic testing

Inspection Agency : LSML

RELEVANT CUSTOMERS

Leitner Shriram Manufacturing Ltd.



JOB HANDLED - YEAR

2009 - 2012

TOTAL TONNAGE HANDLED

780 Metric Tons

TOTAL VALUE OF THE JOB

(50 million INR) / (1.0 million US\$)

JOB PROFILE : PACKAGE BOILERS



Boiler Efficiency – 80 % Maximum

Boiler Capacity

Our Solid Fuel Packaged Boilers are manufactured over a wide standard range of evaporation capacities.

Range 500 to 20000 Kgs/hr.

Pressure up to 25.0 Kgs/cm² (g)

Fuel Solid fuels like Wood, Groundnut shell, Coconut shell, Rice husk.

Boiler Construction : G IBR 1950

Manufacturing

- Built-up with boiler quality steel.
- High quality Tube, Plate forming.
- High quality, SMAW/TIG welding.
- NDT, SR, Hydro Test conducted.
- High quality Stage wise Inspection.

Site Support

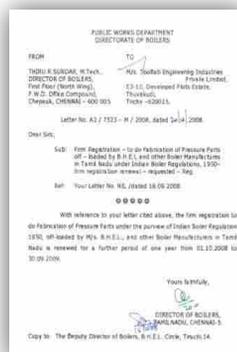
- Minimum site work, less refractory.
- Site Erection Support.
- Complete commissioning support.
- Site Management solutions.
- Simple starting techniques support.

Add On

- Frequent design optimization.
- Customized Engineering package.
- World class standard & techniques.
- Instant Spares Availability.
- Extensive Service support.

Salient Features

- Factory Assembled – IBR approved horizontal package Boiler.
- Maximum Efficiency – Minimum Heat Losses.
- 3 Pass Heat Transfer – Maximum heat recovery.
- Large Steam Release Surface.
- Quick and easy De-Ashing.
- Feed pump with Auto level controller.
- Steam pressure control with Pressure switch Interlock.
- Pre-wired/tested Electrical Control Panel with accessories.
- High Quality components like forged steel valves, pumps, pipes etc.



IBR CERTIFICATION

We have been approved by the **“INDIAN BOILER REGULATION”** Authority to manufacture BOILERS

JOB PROFILE : BOILER HEAVY STRUCTURES & SUPPORTS



Job - Description : '+ ' Columns, 'I' Columns, Box Columns, Ceiling Girders, Welded Beams, Bracing Beams, Bracing Boxes, Buck stay beams, Monorails & Tie Beam

Technical Details : Material Grade

Main components : IS 2062 GR A & B, ASTM A36

Sub components : IS 2062 GR B

Technology used : CNC cutting, Edge preparation, Fit up, SMAW welding, Blasting & Painting.

Standards Used : EN STANDARD, ASME SEC I, ASME SEC V, AWS D 1.1

Testing methods : LPI test, MPI test, Ultrasonic testing, Radiography test, Laser Measurement for dimension, coat thickness measurement.

Inspection Agency : IIQA, QUEST, TUV, BHEL, TPL

RELEVANT CUSTOMERS



M/s. Bharath Heavy Electricals Limited
Tiruchirapalli - Tamilnadu

JOB HANDLED - YEAR

1995 to 2009

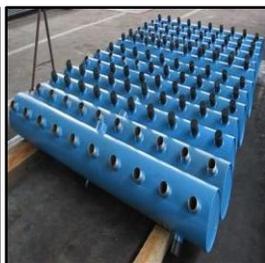
TOTAL TONNAGE HANDLED

36000 Metric Tons

TOTAL VALUE OF THE JOB

(320.00 Million INR) / (6.40 Million US\$)

JOB PROFILE : BOILER PRESSURE PARTS (HEADER, STEAM DRUMS)



Job - Description : Boiler main drums, LP drums, Headers, Boiler Ring Headers.

Technical Details : Material Grade

Main components : (SA 515 GR 70 for drums (Max 25 mm thk) , SA 106 GR C (Max 102mm), SA 299 (Max 90mm) for headers) (SA 335 P11, P22 for headers)

Sub components : (SA 106 GR B & C, IS 2062 GR B, SA 515 GR 70) (SA 210 GR A1,C, SA 105, SA 387 GR 12 - CL.2, GR 22 - CL.2, SA 213 T11, SA213 T22

Technology used : Cutting, Edge preparation, Forming, Fit up, SAW welding, SMAW welding, GTAW welding, drilling, Heat treatment & Painting.

Standards Used : IBR, ASME SEC I, ASME SEC V, ASME SEC VIII, Div 1, ASME SEC IX

Testing methods : LPI test, MPI test, Ultrasonic testing, Radiography test & Hydro test.

Inspection Agency : IIQA, QUEST, TUV, BHEL, TPL & IBR

RELEVANT CUSTOMERS



M/s. Bharath Heavy Electricals Limited
Tiruchirapalli - Tamilnadu

JOB HANDLED - YEAR

2009 - 2010

TOTAL TONNAGE HANDLED

400 Metric Tons

TOTAL VALUE OF THE JOB

(16.20 million INR) / (0.32 million US\$)

JOB PROFILE : BOILER PRESSURE PARTS (COILS, PANELS)



Job - Description : Economizer coils, Super heater coils, Re heater coils, Water wall panels

Technical Details : Material Grade

Main components : (SA 210 GR A1, GR C), (SA 213 T11, T22)

Sub components : IS 2062 FE 410 W, SA 387 GR 12/22 - CL.2, SA 240 TP 304 H, SA 213 TP347 H, SA 351 CH 20, SA 240 TP 316S

Technology used : Cutting, Edge preparation, Fit up, SMAW welding, GTAW welding, GMAW welding, forming, Heat treatment & Painting.

Standards Used : IBR, ASME SEC I, ASME SEC V, ASME SEC VIII, Div 1, ASME SEC IX

Testing methods : LPI test, MPI test, Radiography test & Hydro test.

Inspection Agency : IIQA, QUEST, TUV, BHEL, TPL & IBR

RELEVANT CUSTOMERS



M/s. Bharath Heavy Electricals Limited
Tiruchirapalli - Tamilnadu

M/s. Hindustan Newsprint Limited
Kottaiyyam - Kerala

JOB HANDLED - YEAR 2009-2011

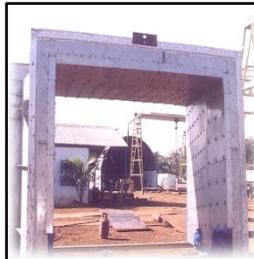
TOTAL TONNAGE HANDLED

140 Metric Tons

TOTAL VALUE OF THE JOB

(10.00 million INR) / (0.20 million US\$)

JOB PROFILE : BOILER COMPONENTS



Job - Description : Ducting & Dampers

Technical Details : Types

Ducting : Square, Elbow, Transition, Circular, Equal Tee, Unequal Tee, Chimneys, Reducers, David Assembly, Flue Gas Duct, Cold Gas Duct, Oil Air Duct, Air Foil Duct etc.

Dampers : Gate, Auto- dampers, Circular dampers, Isolators, Wind Box Assembly.

Technical details : Material Grade : IS 2062 GR A/B, SA 387 GR.11/12 CL.2, SA 105.

Technology used : Cutting, Edge preparation, Fit up, SMAW welding, GMAW welding, drilling, Heat treatment, Painting.

Standards Used : EN STANDARD, ANS D1.1

Testing methods : LPI test, MPI test.

Inspection Agency : IIQA, QUEST, TUV, BHEL, TPL

RELEVANT CUSTOMERS



M/s. Bharath Heavy Electricals Limited
Tiruchirapalli - Tamilnadu

JOB HANDLED - YEAR

1995 - 2006

TOTAL TONNAGE HANDLED

6000 Metric Tons

TOTAL VALUE OF THE JOB

(480 million INR) / (9.60 million US\$)

JOB PROFILE : MINING COMPONENTS



Job - Description :

Pulleys with Shaft, Drive Head & Tail End Station, Idlers, Standard Shift able Frames, Transition Frames, Belt Scrapers, Skirt Board, Crawler Pad, Track Plates & Bucket wheel Elevator assembly.

Technical Details : Material Grade

Main components : S355 J0, J2, J2-G3, SAILMA 350 HI, IS 2062, IS 1030 Gr 280-520W, IS 1030 Gr340 - 570W.

Sub components : IS 2062 GR B

Technology used :

Cutting, Edge preparation, Fit up, SMAW welding, GMAW welding, drilling, Heat treatment, Painting.

Standards Used :

EN STANDARD

Testing methods :

LPI test, MPI test & Ultrasonic testing

Inspection Agency :

IRS, TUV & ITENG



RELEVANT CUSTOMERS

M/s. Neyveli Lignite Corporation
M/s. Mantakraf Limited.



JOB HANDLED - YEAR

2003 - 2012

TOTAL TONNAGE HANDLED

4000 Metric Tons

TOTAL VALUE OF THE JOB

(400 million INR) / (8.0 million US\$)

JOB PROFILE : HEAVY ENGINEERING COMPONENTS - TANKS





Our Infrastructure Hydraulic Press Machine 2500 MT

Maximum Capacity 45mm Thick X 6m Long



**JOB PROFILE : PAMBAN BRIDGE
RAMESHWARAM-TAMILNADU**

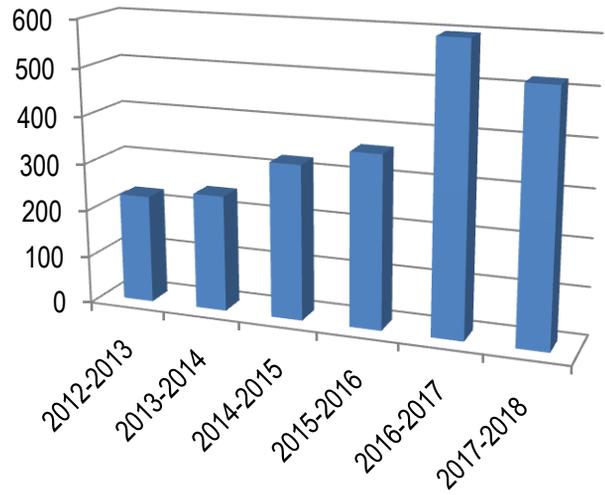


**JOB PROFILE : STEEL FLYOVER PROJECT ,SPL
NAGERCOIL - MARTHANDAM, TAMILNADU**



Turn Over Chart

YEAR	TURNOVER INR
	IN MILLION
2012-2013	228.00
2013-2014	244.90
2014-2015	325.90
2015-2016	362.00
2016-2017	596.70
2017-2018	520.00



OUR CUSTOMERS

Renewable Energy Customers



Heavy Engineering Customers



Southern Railway

Service with commitment Progress with Pride



**VIJAY NIRMAN COMPANY
PRIVATE LIMITED**

{ RAWATSONS engineers }



KNR Constructions Limited.



TOOLFAB



Corporate office & Work Sites:

Unit I (Corporate Office)

E 3 -10, Developed Plots Estate, Thuvakudi, Trichy , Tamil Nadu , India.

Ph : +91 431 2500480, 2501056, 2501183. Fax : +91 431 2500290

Email : info@toolfabengg.in, URL : www.toolfabengg.in

Unit II (Works)

Trichy - Thanjavur Main Road, Sanoorapatti Village, Thanjavur District.

Unit III (Works)

Trichy - Thanjavur Main Road, Assur Post, Trichy, Pin code : 620 015.

Unit IV (Works)

C-10, Developed Plots Estate, Thuvakudi, Trichy, Pin code : 620 015.

Unit V (Works)

SF 17 / 12 B, 13 Asoor Main Road, Thuvakudi, Trichy - 620 015

