Sivanandha Pipe Fittings Ltd.

Information Packet

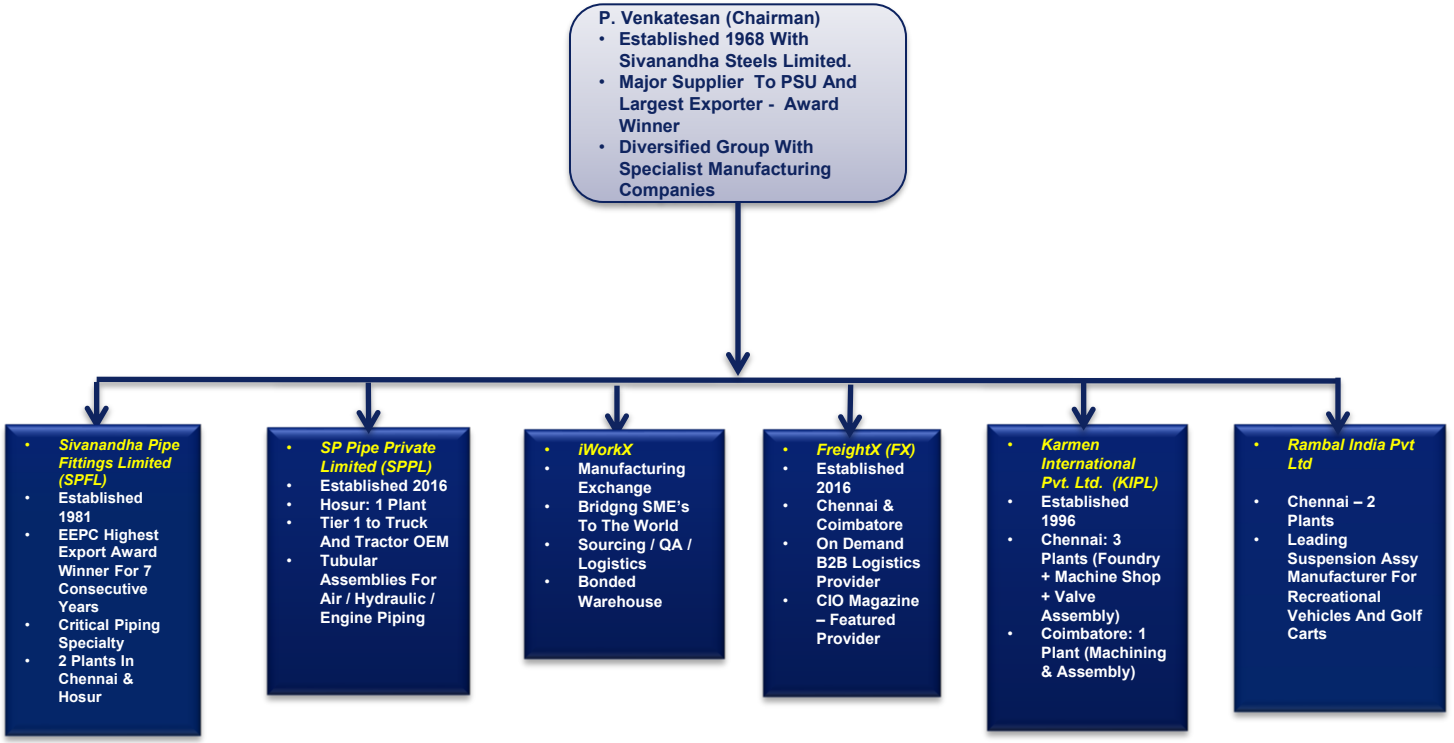
Sivanandha Pipe Fittings Ltd., India

www.sivanandha.com

Presentation Index

- Introductions
- Overview Of Company
  - Company History
  - Facilities / Capacity
  - Product Range
  - Quality Standards
  - Our Customer Profile
- Discussion

Group Overview



Company History

1981:	SPFL Commenced Operations In Technical Collaboration With Nippon Benkan Kogyo, Japan
1981:	Indian Boiler Board Gives Approval As Approved Vendor For Supply Of Pressure Fittings
1983:	First Exports Undertaken To Western Europe.
1986:	EIL First Shop Approval
1986-90:	Becomes Supplier Of Choice For All Refinery and Petrochemical Projects, World Bank Aided Refineries In India.
	Export Markets Captured In Australia, Italy, Greece, Ireland, Singapore And USA
1993:	Canadian Boiler Board Gives Approval For Use In High Pressure Applications
1995:	EEPC Export Award – Leading Fittings Exporter
1998:	ISO 9002 Certification Attained
2005:	Bagged Prestigious Order From General Electric As Preferred Pipe Fitting Vendor
2007:	Exploring New Petro/Oil/Gas Based Markets In Venezuela.
2009:	Approval to Pressure Equipment Directive 97 / 23 /EC
2012:	Development of Segmentable 3D Bends in High Strength Grade Materials – MSS SP75 / ASTM A860
2012-13:	Shop Audit and Approval by Petroleum and Development of Oman (PDO) and ADNOC Group Companies, Abu Dhabi.
2019:	Development of 5D Bends and supplied to PDO, Oman.
2013-23:	Star Performer Trophy from EEPC India for the year of 2013-23

Sivanandha - Works



Sivanandha - Works



Facilities: Product Of BENKAN Technology



Facilities: Product Of BENKAN Technology

- **State Of The Art Mandrel Bending Process**











Capacity:

- **7200 MT/Annum Seamless Fittings**
- **1200 MT/Annum Welded Fittings**

Facilities: Induction Bending Mandrel Forming

- **State Of The Art Mandrel Bending Process**





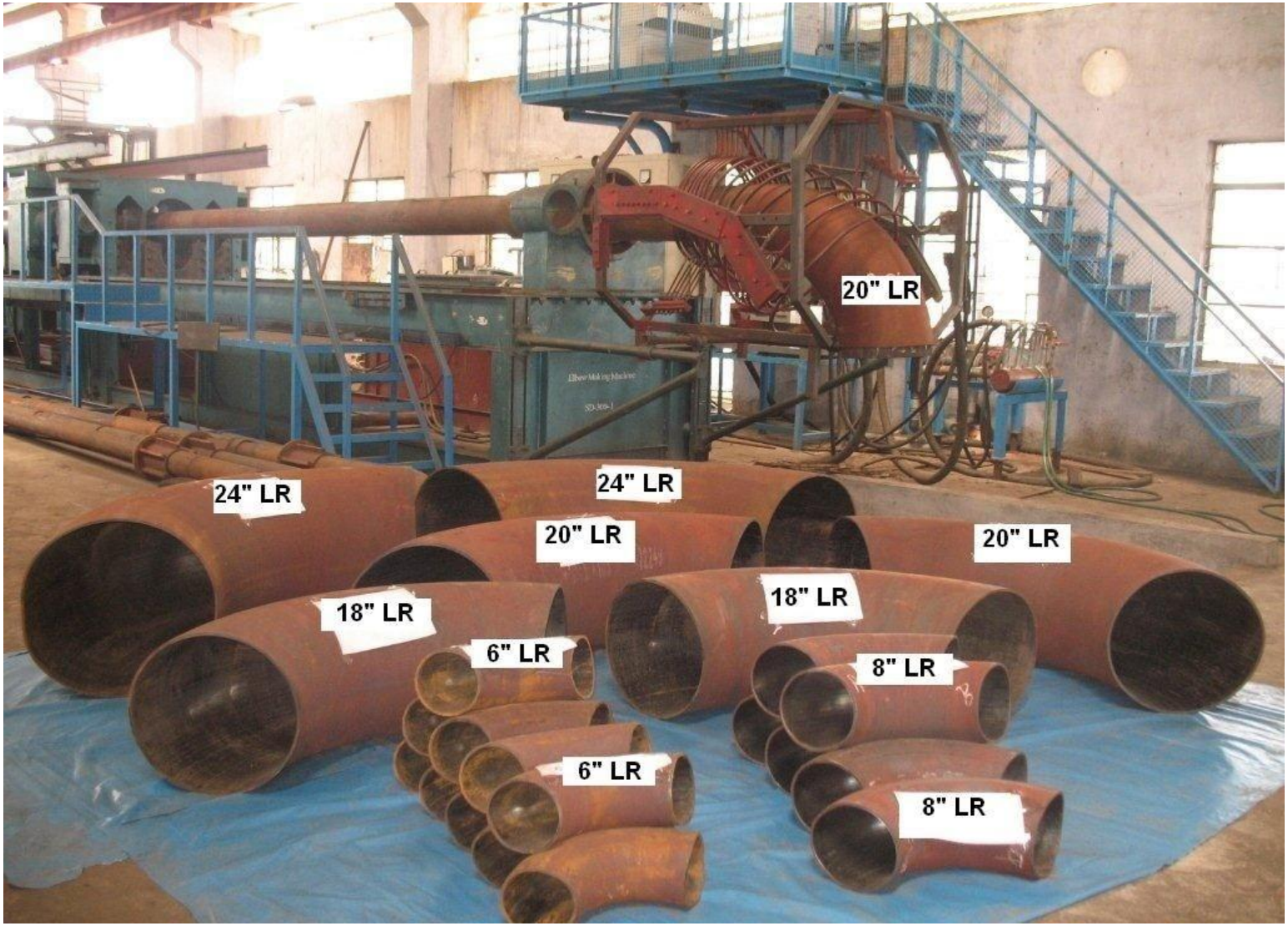


Capacity:

- **7200 MT/Annum Seamless Fittings**
- **1200 MT/Annum Welded Fittings**



Mandrel Bending Line (6” to 30”)



Mandrel Bending Line (0.5” to 6”)



Cold Forming Machines

- **Size Range – 2” Thru 8”**
- **Hydro Formed Tees – Carbon Steel / Stainless Steel / Alloy Steel**
- **Cold Formed Elbows – Through Mandrels - Carbon Steel / Stainless Steel / Alloy Steel**







Facilities



Pipe Cutting



Hydraulic ID Correction Machine



Additional Cutting Machine

Facilities

Hanger blast machine



Automatic Pipe cutting machine



Facilities





Facilities



Facilities

Mandrels



Mandrels



625 KVA DG



Forming Dies



Pickling and passivation of stainless steel fittings

Heat Treatment Facilities

- **High Yield Fittings Physical Properties Are Achieved Mainly By Tightly Controlled And Repeatable Heat Treatment**
  - **Quenching Under 60 Seconds**
  - **Tempering Temperature Within +/- 10 Deg C**
- **Sivanandha Has Setup World Class Heat Treatment Facilities To Achieve the Same**
  - **Temperature accurately Controlled with PLC system**
  - **Heat Treatment Recipe With Regards To Time and Temperature, Stored and Executed Automatically**
  - **Accurate temperature controller with +/- 10 Deg C**
  - **3 Point temperature recorder with Chart**
  - **Sivanandha Verifies The Yield/Tensile/Impact Values Of Every Heat Cycle By Testing Sample Specimens From Every Batch**
- **Quenching / Normalizing and Tempering Furnaces Calibrated under TUV Nord and IBR**

Quenching Furnace



Quenching Furnace



Furnace Door Opening



Fittings coming out from Furnace

Sivanandha Completes Quenching within 60 Seconds

Quenching Furnace

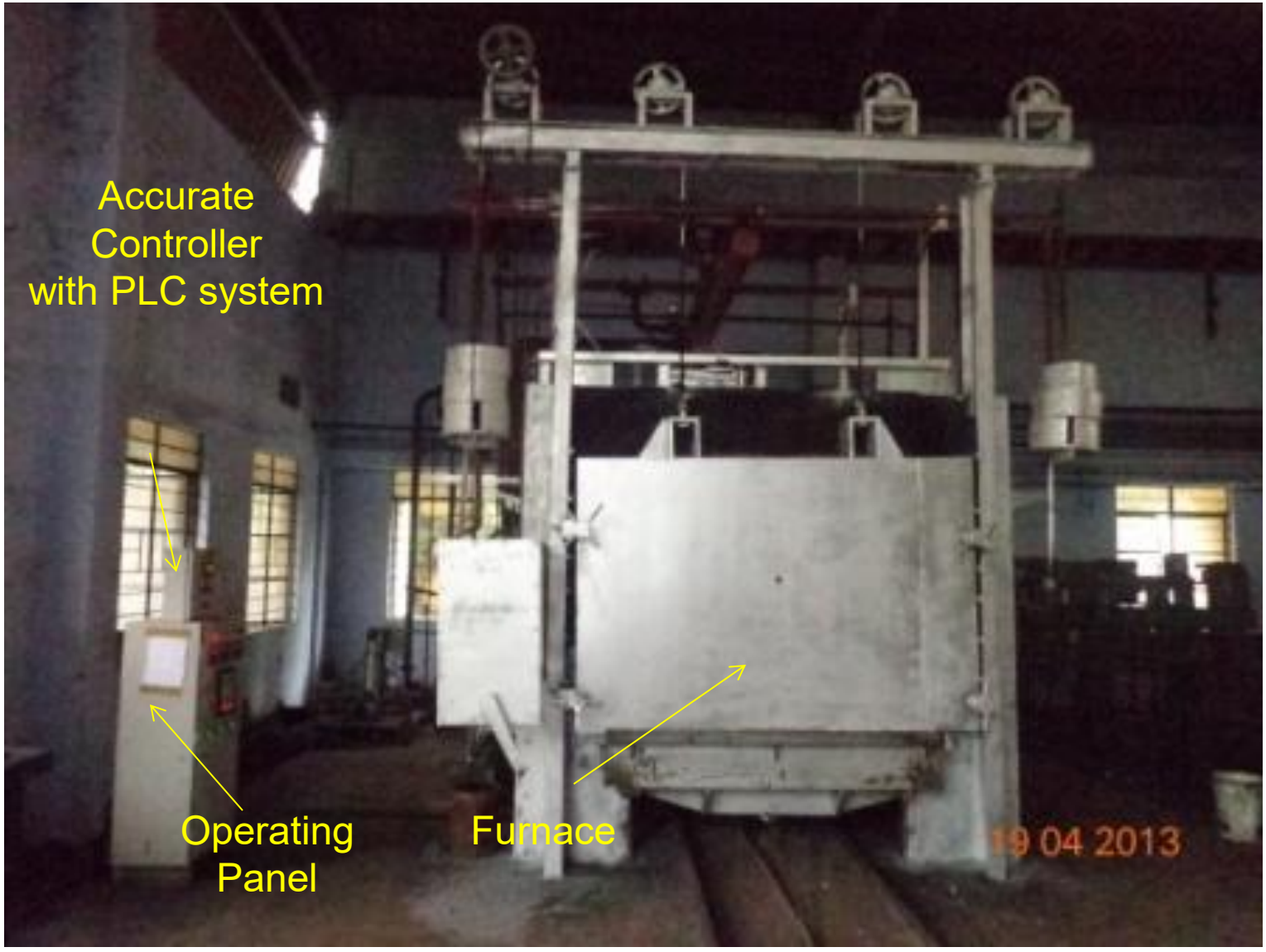


Fitting under Quenching



Fitting fully Quenched in Water

Tempering Furnace



Tempering Furnace



Door Opening



Forced Circulation Through
Dual fan

STD/XH/XXH Product Images

STD







XH







XXH



CAPS



3D Bends



Product Range

Type	Construction	Size	Material Grade	Degree	Type	Bend Radius	Schedule
Elbow	Seamless	2 " to 30 "	ASTM A 234 Gr.WPB, WPC; ASTM A420 WPL6 & ASTM A 860 , MSS SP 75 Gr.WPHY42, 52, 60, 65 and 70 ; ASTM A 234, WP5,P9, P11,P22, ASTM A 403 WP304/L & WP316/L FITTINGS	45° & 90°	Long Radius	1.5 D	Sch.10S, 20 to XXS
	Seamless	2" to 24"		45° & 90°	Long Radius	3D	Sch. 20 to XS
	Seamless	2 " to 24"		90° & 180°	Short Radius	1D	Sch. 20 to 80
	Welded	18" to 48"		45° & 90°	Short Radius	1D	Sch STD to XS
	Seamless	2 " to 8 "		45° & 90°	Long Radius	5D	Sch 40 to 80
	Welded	18" to 48 "		45° & 90°	Long Radius	1.5 D	Sch 20 to XS
Tee	Seamless	2” to 24”		Equal / Unequal			Sch.10S, 20 to XXS
Reducers	Seamless	2” to 24”		Concentric / Eccentric			Sch.10S, 20 to XXS
	Welded	18" to 48 "		Concentric / Eccentric			Sch.10S, 20 to XXS
Caps	Seamless	1.5” to 48”		NA			Sch.10S, 20 to XXS

Quality Certifications

- ISO 9001 : 2015 Approved
- Approval to Pressure Equipment Directive 2014/68/EU
- Canadian Boiler Board Approved (Valid Till 2021)
  - CRN's For All Provinces In Canada
  - CRN Number: CSA-OA5884.56R1
- Indian Boiler Board Approved

ISO CERTIFICATION



TÜVNORD

Certificate

Management system as per

ISO 9001:2015

The Certification Body TÜV NORD CERT GmbH. hereby confirms as a result of the audit, assessment and certification decision according to ISO/IEC 17021-1:2015, that the organization

SIVANANDHA PIPE FITTINGS LIMITED
Plot Nos. 11, 12, 23 & 24 SIPCOT Industrial Complex,
Hosur - 635 126, Tamil Nadu,
India

operates a management system in accordance with the requirements of ISO 9001 : 2015 and will be assessed for conformity within the 3 year term of validity of the certificate.

Scope

Manufacture and Supply of Pipe Fittings Suitable for Pressure Parts in Petroleum, Petro Chemical, Power, Process and other Engineering Industries.

Certificate Registration No. **44 100 19392155**
Audit Report No. **2.5-4445/2009**

Valid from **09.01.2025**
Valid until **08.01.2028**
Initial certification **09.01.2019**

Visit our database to verify the validity of this certificate.

Mumbai, **02.01.2025**

Certification Body at TÜV NORD CERT GmbH

TÜV NORD CERT GmbH
Am TÜV 1, 45307,
Essen

www.tuev-nord-cert.com

IAF

DAkkS
Deutsche Akkreditierungsstelle
D-ZM-12007-01-00

TÜV

TÜVNORDGROUP

PED CERTIFICATION

TÜVNORD

Certificate

TN/PED-4-21369/24

Report No. / Manufacturer No. / Validity remark: 812 352 3984 / 21369 / 10.2024 - 10.2027

Quality Management System for Manufacturers of Material for Pressure Equipment

TÜV NORD Systems GmbH & Co. KG confirms that the manufacturer
Sivanandha Pipe Fittings Limited
Plot No. 11 & 12
SIPCOT Industrial Complex
Hosur – 635 126
Tamil Nadu, India
has implemented and applies a quality management system in relation to materials in accordance with the requirements of the certification scheme TNS-W0_PED-4-3.
This quality management system has undergone a specific assessment with regard to materials in accordance with Directive 2014/68/EU, Annex I, point 4.3 to ensure the conformity of the materials and inspection certificates.

The scope of the approval is shown on the following page.

Test basis: **EN 764-5, section 4.2**

Manufacturing site(s): **Plot No. 11 & 12**
SIPCOT Industrial Complex
Hosur – 635 126
Tamil Nadu, India

Essen, 29.01.2025

TÜVNORD Digital unterschrieben von Huebinger Arnd

Certification Body

TÜV NORD Systems GmbH & Co. KG
Große Bahnstraße 31, 22525 Hamburg , Germany
tuev-nord.de | dniekamp@tuev-nord.de

TÜV®

TÜVNORDGROUP

TÜVNORD

Scope of Approval

TN/PED-4-21369/24

Report No. / Manufacturer No. / Validity remark: 812 352 3984 / 21369 / 10.2024 - 10.2027

The QM system in relation to materials was assessed on the basis of:

Manufacturing Process	Product type	Material type	Dimensions
Seamless Fittings	Pipe Fittings	Carbon Steel	Ø up to DN 750 Thickness: up to 60 MM
Seamless Fittings	Pipe Fittings	Alloy Steel	Ø up toDN 750 Thickness: up to 60 MM
Seamless Fittings	Pipe Fittings	Stainless Steel	Ø up to DN 600 Thickness: up to 40 MM
Seamless Fittings	Pipe Fittings	High Yield	Ø up to DN 750 Thickness: up tp 60 MM
Welded Fittings	Fittings	Carbon Steel	Ø up to DN 1800 Thickness: up to 32 MM
Welded Fittings	Fittings	Stainless Steel	Ø up to DN 1800 Thickness: up to 32 MM

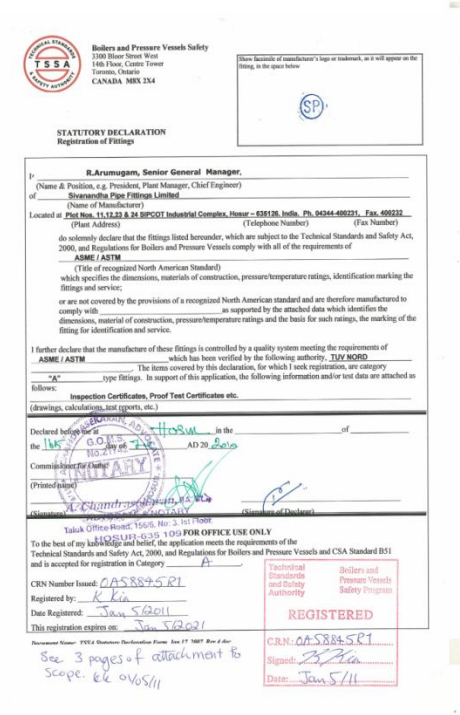
TÜV NORD Systems GmbH & Co. KG | Große Bahnstraße 31 | 22525 Hamburg | Germany

EU-based, independent body for the certification of quality management systems of material manufacturers. TÜV NORD Systems GmbH & Co. KG has demonstrated its expertise in the assessment of material manufacturers as Notified Body 0045 as part of the recognition procedure.

TÜV®

TÜVNORDGROUP

CRN Certification *(Valid Till 2021)*



Boilers and Pressure Vessels Safety
3300 Bloor Street West
14th Floor, Centre Tower
Toronto, Ontario
CANADA M8X 2X4

Show facsimile of manufacturer's logo or trademark, as it will appear on the fitting, in the space below

STATUTORY DECLARATION
Registration of Fittings

I- R.Arumugam, Senior General Manager,
(Name & Position, e.g. President, Plant Manager, Chief Engineer)
of Sivanandha Pipe Fittings Limited
(Name of Manufacturer)
Located at Plot Nos. 11,12,23 & 24 SIPCOT Industrial Complex, Hosur – 635126, India. Ph. 04344 400231, Fax. 400232
(Plant Address) (Telephone Number) (Fax Number)

do solemnly declare that the fittings listed hereunder, which are subject to the Technical Standards and Safety Act, 2000, and Regulations for Boilers and Pressure Vessels comply with all of the requirements of
ASME / ASTM
(Title of recognized North American Standard)
which specifies the dimensions, materials of construction, pressure/temperature ratings, identification marking the fittings and service;

or are not covered by the provisions of a recognized North American standard and are therefore manufactured to comply with _____ as supported by the attached data which identifies the dimensions, material of construction, pressure/temperature ratings and the basis for such ratings, the marking of the fitting for identification and service.

I further declare that the manufacture of these fittings is controlled by a quality system meeting the requirements of ASME / ASTM which has been verified by the following authority, TUV NORD
_____. The items covered by this declaration, for which I seek registration, are category "A" type fittings. In support of this application, the following information and/or test data are attached as follows:
Inspection Certificates, Proof Test Certificates etc.
(drawings, calculations, test reports, etc.)

Declared before me at Hosur in the _____ of _____
the 14th day of Dec AD 20 2010

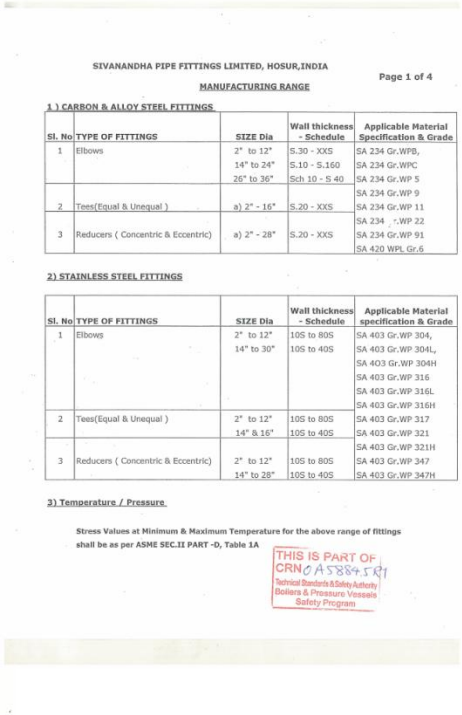
Commissioner For Oaths
(Printed Name)
(Signature) (Signature of Declarant)

Taluk Office Road, Issue No. 3 1st Floor
11/951/H1-635 109 FOR OFFICE USE ONLY
To the best of my knowledge and belief, the application meets the requirements of the Technical Standards and Safety Act, 2000, and Regulations for Boilers and Pressure Vessels and CSA Standard B51 and is accepted for registration in Category A.

CRN Number Issued: OA5884.5R1
Registered by: K Lin
Date Registered: Jan 5/2011
This registration expires on: Jan 5/2021

Technical Standards and Safety Authority — Boilers and Pressure Vessels Safety Program
REGISTERED
CRN: OA5884.5R1
Signed:
Date: Jan 5/11

See 3 pages of attachment to scope. KK 01/05/11



SIVANANDHA PIPE FITTINGS LIMITED, HOSUR,INDIA
Page 1 of 4
MANUFACTURING RANGE

1) CARBON & ALLOY STEEL FITTINGS

Sl. No	TYPE OF FITTINGS	SIZE Dia	Wall thickness - Schedule	Applicable Material Specification & Grade
1	Elbows	2" to 12"	S.30 - XXS	SA 234 Gr.WPB,
		14" to 24"	S.10 - S.160	SA 234 Gr.WPC
		26" to 36"	Sch 10 - S 40	SA 234 Gr.WP 5
2	Tees(Equal & Unequal)	a) 2" - 16"	S.20 - XXS	SA 234 Gr.WP 9
				SA 234 Gr.WP 11
				SA 234 Gr.WP 22
3	Reducers (Concentric & Eccentric)	a) 2" - 28"	S.20 - XXS	SA 234 Gr.WP 91
				SA 420 WPL Gr.6

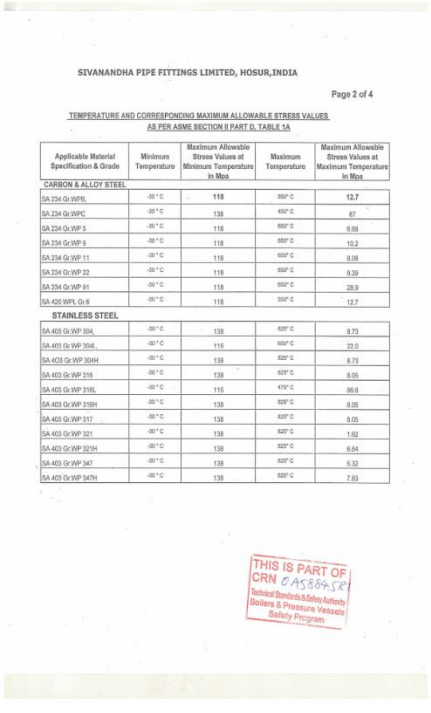
2) STAINLESS STEEL FITTINGS

Sl. No	TYPE OF FITTINGS	SIZE Dia	Wall thickness - Schedule	Applicable Material specification & Grade
1	Elbows	2" to 12"	10S to 80S	SA 403 Gr.WP 304,
		14" to 30"	10S to 40S	SA 403 Gr.WP 304L,
				SA 403 Gr.WP 304H
				SA 403 Gr.WP 316
				SA 403 Gr.WP 316L
				SA 403 Gr.WP 316H
2	Tees(Equal & Unequal)	2" to 12"	10S to 80S	SA 403 Gr.WP 317
		14" & 16"	10S to 40S	SA 403 Gr.WP 321
				SA 403 Gr.WP 321H
3	Reducers (Concentric & Eccentric)	2" to 12"	10S to 80S	SA 403 Gr.WP 347
		14" to 28"	10S to 40S	SA 403 Gr.WP 347H

3) Temperature / Pressure

Stress Values at Minimum & Maximum Temperature for the above range of fittings shall be as per ASME SEC.II PART -D, Table 1A

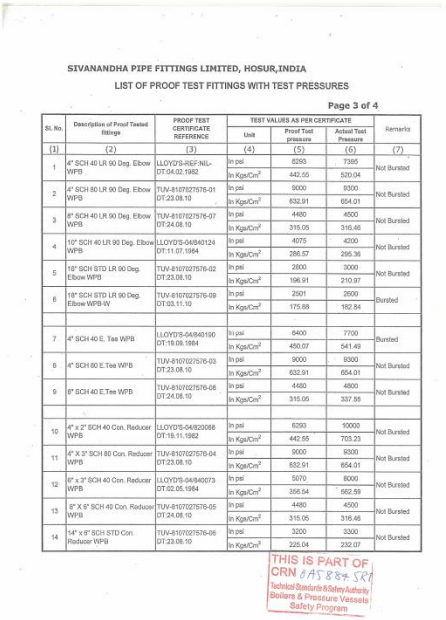
THIS IS PART OF CRN OA5884.5R1 Technical Standards & Safety Authority Boilers & Pressure Vessels Safety Program



SIVANANDHA PIPE FITTINGS LIMITED, HOSUR,INDIA
Page 2 of 4
TEMPERATURE AND CORRESPONDING MAXIMUM ALLOWABLE STRESS VALUES AS PER ASME SECTION II PART D, TABLE 1A

Applicable Material Specification & Grade	Minimum Temperature	Maximum Allowable Stress Values at Minimum Temperature in Mpa	Maximum Temperature	Maximum Allowable Stress Values at Maximum Temperature in Mpa
CARBON & ALLOY STEEL				
SA 234 Gr.WPB,	-30 ° C	118	550° C	12.7
SA 234 Gr.WPC	-30 ° C	138	450° C	67
SA 234 Gr.WP 5	-30 ° C	118	650° C	6.68
SA 234 Gr.WP 9	-30 ° C	118	550° C	10.2
SA 234 Gr.WP 11	-30 ° C	118	550° C	9.08
SA 234 Gr.WP 22	-30 ° C	118	550° C	9.39
SA 234 Gr.WP 91	-30 ° C	118	550° C	28.9
SA 420 WPL Gr.6	-30 ° C	118	550° C	12.7
STAINLESS STEEL				
SA 403 Gr.WP 304,	-30 ° C	138	525° C	8.73
SA 403 Gr.WP 304L	-30 ° C	115	550° C	22.0
SA 403 Gr.WP 304H	-30 ° C	138	525° C	8.73
SA 403 Gr.WP 316	-30 ° C	138	525° C	8.05
SA 403 Gr.WP 316L	-30 ° C	115	475° C	86.6
SA 403 Gr.WP 316H	-30 ° C	138	525° C	8.05
SA 403 Gr.WP 317	-30 ° C	138	525° C	8.05
SA 403 Gr.WP 321	-30 ° C	138	525° C	1.62
SA 403 Gr.WP 321H	-30 ° C	138	525° C	6.84
SA 403 Gr.WP 347	-30 ° C	138	525° C	5.32
SA 403 Gr.WP 347H	-30 ° C	138	525° C	7.83

THIS IS PART OF CRN OA5884.5R1 Technical Standards & Safety Authority Boilers & Pressure Vessels Safety Program



SIVANANDHA PIPE FITTINGS LIMITED, HOSUR,INDIA
LIST OF PROOF TEST FITTINGS WITH TEST PRESSURES
Page 3 of 4

Sl. No.	Description of Proof Tested fittings	PROOF TEST CERTIFICATE REFERENCE	TEST VALUES AS PER CERTIFICATE			Remarks
			Unit	Proof Test pressure	Actual Test Pressure	
(1)	(2)	(3)	(4)	(5)	(6)	(7)
1	4" SCH 40 LR 90 Deg. Elbow WPB	LLOYD'S-REF:NIL-DT:04.02.1982	In psi	6293	7395	Not Bursted
			In Kgs/Cm^2	442.55	520.04	
2	4" SCH 80 LR 90 Deg. Elbow WPB	TUV-81070275T6-01 DT:23.08.10	In psi	9000	9300	Not Bursted
			In Kgs/Cm^2	632.91	654.01	
3	6" SCH 40 LR 90 Deg. Elbow WPB	TUV-81070275T6-07 DT:24.08.10	In psi	4480	4500	Not Bursted
			In Kgs/Cm^2	315.05	316.46	
4	10" SCH 40 LR 90 Deg. Elbow WPB	LLOYD'S-04/840124 DT:11.07.1984	In psi	4075	4200	Not Bursted
			In Kgs/Cm^2	286.57	295.36	
5	16" SCH STD LR 90 Deg. Elbow WPB	TUV-81070275T6-02 DT:23.08.10	In psi	2800	3000	Not Bursted
			In Kgs/Cm^2	196.91	210.97	
6	18" SCH STD LR 90 Deg. Elbow WPB-W	TUV-81070275T6-09 DT:03.11.10	In psi	2501	2600	Bursted
			In Kgs/Cm^2	175.88	182.84	
7	4" SCH 40 E. Tee WPB	LLOYD'S-04/840190 DT:18.08.1984	In psi	6400	7700	Bursted
			In Kgs/Cm^2	450.07	541.49	
8	4" SCH 80 E.Tee WPB	TUV-81070275T6-03 DT:23.08.10	In psi	9000	9300	Not Bursted
			In Kgs/Cm^2	632.91	654.01	
9	8" SCH 40 E.Tee WPB	TUV-81070275T6-08 DT:24.08.10	In psi	4480	4800	Not Bursted
			In Kgs/Cm^2	315.05	337.55	
10	4" x 2" SCH 40 Con. Reducer WPB	LLOYD'S-04/820068 DT:19.11.1982	In psi	6293	10000	Not Bursted
			In Kgs/Cm^2	442.55	703.23	
11	6" X 3" SCH 80 Con. Reducer WPB	TUV-81070275T6-04 DT:23.08.10	In psi	9000	9300	Not Bursted
			In Kgs/Cm^2	632.91	654.01	
12	6" x 3" SCH 40 Con. Reducer WPB	LLOYD'S-04/840073 DT:02.05.1984	In psi	5070	8000	Not Bursted
			In Kgs/Cm^2	356.54	562.59	
13	8" X 6" SCH 40 Con. Reducer WPB	TUV-81070275T6-05 DT:24.08.10	In psi	4480	4500	Not Bursted
			In Kgs/Cm^2	315.05	316.46	
14	14" x 8" SCH STD Con. Reducer WPB	TUV-81070275T6-06 DT:23.08.10	In psi	3200	3300	Not Bursted
			In Kgs/Cm^2	225.04	232.07	

THIS IS PART OF CRN OA5884.5R1 Technical Standards & Safety Authority Boilers & Pressure Vessels Safety Program

CRN certificates available for all provinces of Canada individual certificates can be featured against specific request

IBR CERTIFICATION

PUBLIC WORKS DEPARTMENT
DIRECTORATE OF BOILERS

FROM

Thiru S. Ganesan, M.Tech.,
DIRECTOR OF BOILERS,
First Floor (South Wing),
P.W.D. Office Compound,
Chepauk, CHENNAI – 600 005.

TO

M/s. Sivanandha Pipe Fittings Limited,
Plot. No. 11,12, Sipcot Industrial Complex,
Hosur – 635 126.

Letter No. BL4 / 3390 / 2026 / dated 06.07.2026.

Sir,

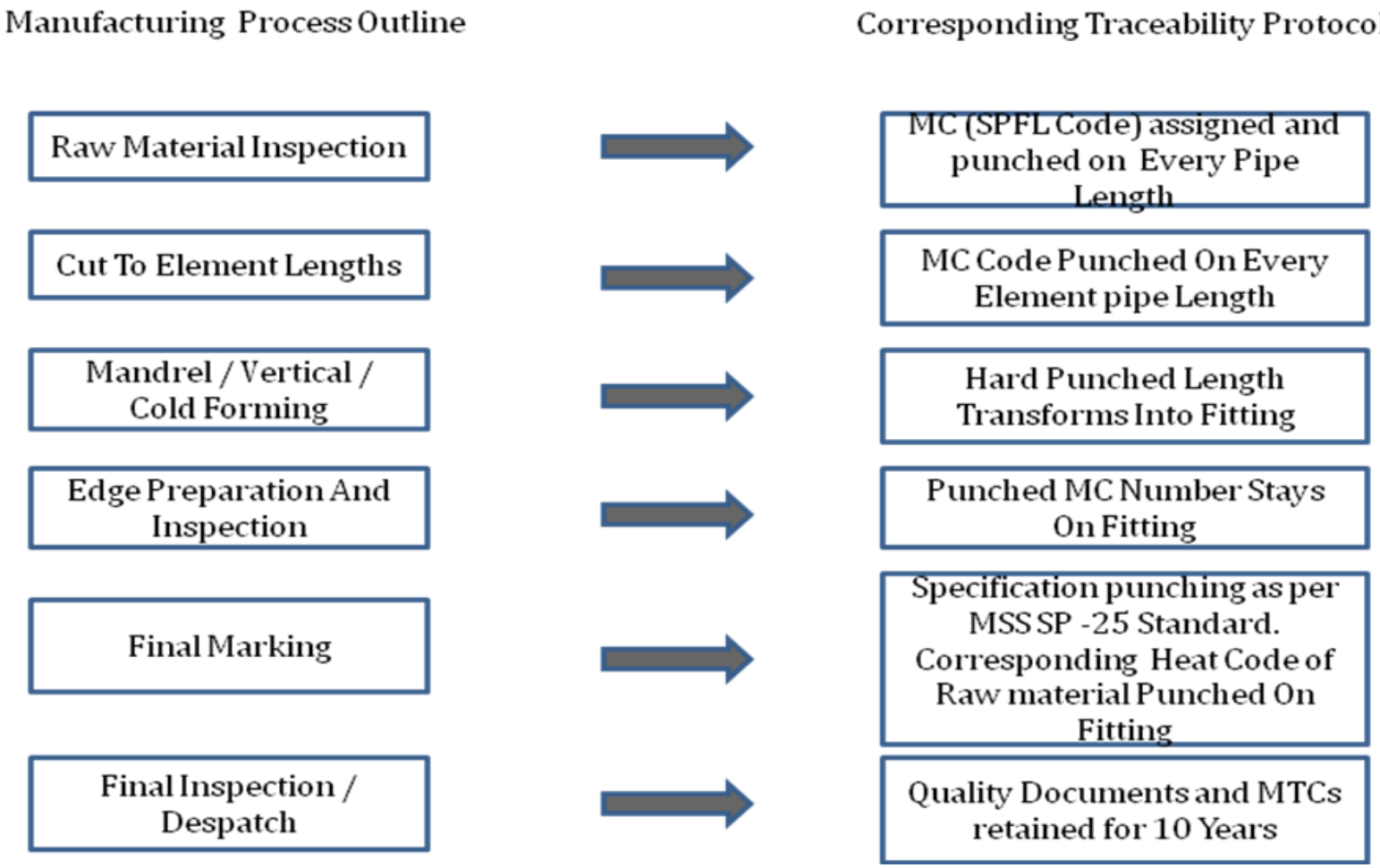
Sub: Firm Registration – to manufacture Pipe Fittings - under Indian Boiler Regulations, 1950 – firm registration renewal – Reg.

Ref: Your Letter No. SPFL/IBR-FR/QA/26-27/001/ Dt.30.06.2026.

With reference to your letter cited the firm registration to Manufacture Pipe Fittings under the purview of Indian Boiler Regulations 1950, is renewed for a further period of one year from 01.07.2026 to 30.06.2027.

DIRECTOR OF BOILERS,
TAMILNADU, CHENNAI-5.

Plant and Mill Traceability



Heat Code Traceability

- **HY42 Grade - HYA”XXXX”**
- **HY46 Grade - HYB”XXXX”**
- **HY52 Grade - HYC”XXXX”**
- **HY 56 Grade - HYD”XXXX”**
- **HY 60 Grade - HYE”XXXX”**
- **HY 65 Grade - HYF”XXXX”**
- **HY 70 Grade - HYH”XXXX”**
- **HY 80 Grade - HYJ”XXXX”**

Process Inspection









- Incoming Raw Material Inspection
- In Process / Stage Inspection
- Final Post Production Inspection
- Physical Testing
- Third Party Validation every month for Impact and Tensile Tests
- Impact Test carried out at -46^{0}C

Lab Facilities



UTM – 40 Tons with Extensometer



Broaching Machine



Profile Projector



Impact Machine



Hardness Tester

Muffle Furnace Photos



Muffle Furnace 1



Muffle Furnace 2

1.Lab furnaces setup to mimic production furnace
2.Trial Heat treatment done in Lab will be re-produceable
3. All High yield Pipe Batches undergo Lab trials before production cycle is fixed.

NDT Inspection – MPI Machine





Leading Customers List

- Major North American OEM'S
- PDO – OMAN
- ADNOC – ABU DHABI
- Engineers India Ltd. For All Oil And Petrochemical Projects
- Reliance Industries Limited
- Indian Boiler Board For All Pressure Parts
- Canadian Boiler Board Approved(CRN)
- Govt. Of India's Export Inspection Agency For "In-Process Quality Control"
- Bharat Heavy Electricals Ltd. (Multi-Billion Dollar Power Sector - Boiler Producer)
- Leading LSTK / EPCC Contractors Like

  Toyo Engineering Corporation

  - Udhe Thyssen Krupp
  - GAIL
  - Linde
  - Larsen & Toubro
  - Kvaerner Power Gas

Snapshot Of Our Customers







































































Reference List – Power Plants

NUCLEAR POWER PLANTS					
GOVERNMENT OF INDIA	NARORA ATOMIC POWER PROJECT	DEPARTMENT OF ATOMIC ENERGY	NARORA	WPB CLASS 1 FITTINGS	< 2000
GOVERNMENT OF INDIA	TARAPUR ATOMIC POWER PLANT	DEPARTMENT OF ATOMIC ENERGY	TARAPUR	WPB	< 2000
NUCLEAR POWER CORPORATION	2 X 1000 Mwe KUDANKULAM NUCLEAR POWER PROJECT SITE	LARSEN & TOUBRO LIMITED - ECC DIVISION	KUDANKULAM	WPB	2012

POWER PLANTS					
ANDRA PRADESH POWER DEVELOPMENT COMPANY LTD	2X800 MW SRI DAMODARAM SANJEEVIAH THERMAL POWER STATION	LARSEN & TOUBRO LIMITED	ANDRA PRADESH - INDIA	WPB	2010
PRAGATI POWER CORP LTD	1376 MW PRAGATI - III POWER PROJECT SECTOR V	BHARAT HEAVY ELECTRICALS LTD	DELHI - INDIA	WP304H, WP22,WPC, WPB	2011, 2010, 2009
NTPC VIDHYACHAL	2 x 500MW SUPER THERMAL POWER PROJECT	BHARAT HEAVY ELECTRICALS LTD	MADHYA PRADESH - INDIA	WP22,WPB	2010, 2008
NTPL TUTICORIN PROJECT SITE	2 x 500MW SUPER THERMAL POWER PROJECT	BHARAT HEAVY ELECTRICALS LTD	TAMIL NADU - INDIA	WPB	2011, 2008
M.P. POWER GENERATING CO. LTD	2 X 600 MW SHREE SINGAJI THERMAL POWER PROJECT	BHARAT HEAVY ELECTRICALS LTD	MADHYA PRADESH - INDIA	WPB	2010, 2008
NTPC - MAHARASHTRA	2X 500MW MAUDA SUPER THERMAL POWER PROJECT	BHARAT HEAVY ELECTRICALS LTD	MAHARASHTRA - INDIA	WP304H, WP22, WPB	2010, 2008
BHARAT HEAVY ELECTRICALS LTD	2 X 490 MW DADRI NCTPP - ST II,	BHARAT HEAVY ELECTRICALS LTD	UTTAR PRADESH - INDIA	WP22, WPC, WPB	2008
BHARAT HEAVY ELECTRICALS LTD	2 X 500 MW KODERMA POWER PROJECT	BHARAT HEAVY ELECTRICALS LTD	JHARKHAND - INDIA	WP22, WPB, WPC	2010, 2009,2008
CAIRN ENERGY INDIA PTY. LTD	NORTHERN AREA DEVELOPMENT PROJECT	LARSEN & TOUBRO LIMITED	GUJARAT - INDIA	WPL6, WPC, WPB	2009
MAHAGENCO	2 X 500MW KHAPERKHADA TPS EXPANSION	BHARAT HEAVY ELECTRICALS LTD	MAHARASHTRA - INDIA	WP304H, WP22,WPB,	2011, 2010, 2008

- **Class 1 Fittings Supplied To Nuclear Project**
- **Heavy Wall Alloy Steel Critical Fittings Supplied To Numerous Super Critical Thermal Projects**

Reference List – Gas/ Oil Storage & Distribution

- **High Integrity Pipe Fittings Supplied To More Than 100 Refinery / Petrochemical/ Fertilizer / Gas Distribution Projects**
- **Partial List Below. Detailed Reference List Available On Request**

GAS/OIL STORAGE & DISTRIBUTION					
EXXON MOBIL IRAQ LIMITED	SOUTH OIL COMPANY, BAB EL ZOBEIR	NOV WILSON	BASRAH, IRAQ	WPHY60	2012, 2013
GUJARAT STATE PETROLEUM CORPORATION	ONSHORE GAS TERMINAL DEEN DAYAL FIELD DEVELOPMENT PROJECT	ENGINEERS INDIA LIMITED	ANDRA PRADESH - INDIA	WPB	2011
OIL & NATURAL GAS CORPORATIONLTD	ADDITIONAL GAS PROCESSING FACILITIES PROJECT	LARSEN & TOUBRO LIMITED	GUJARAT - INDIA	WP304, WP316L, WPL6, WPB	2011
BHARAT PETROLEUM CORPORATION LIMITED	BINA DISPATCH TERMINAL	BHARAT PETROLEUM CORPORATION LIMITED	MADHYA PRADESH - INDIA	WPB	2009, 2008
BHARAT OMAN REFINERIES LIMITED	CRUDE OIL TERMINAL	BHARAT OMAN REFINERIES LIMITED	INDIA	WPB	2009
HPCL MITTAL PIPE LINES	CRUDE OIL TERMINAL KUTCH MUNDRA & DHANSA RAJASTHAN	HPCL MITTAL PIPE LINES	RAJASTHAN - INDIA	WPB	2011
HAZIRA VIJAYPUR - JAGADEESPUR PIPE LINE	CROSS COUNTRY PIPING	GAS AUTHORISTY OF INDIA	UTTAR PRADESH - INDIA	WPB	<2000

WPHY 52/60/70 Pipe Fittings including Segmentable Elbows and 3D Bends – Sivanandha Is The Supplier Of Choice For Several North American OEM's

Reference List – Refinery/Petrochemical/Fertilizer

- **High Integrity Pipe Fittings Supplied To More Than 100 Refinery / Petrochemical/ Fertilizer / Gas Distribution Projects**

REFINERIES					
BP IRAQ	BP IRAQ	NOV WILSON	IRAQ	WPL6	2013
INDIAN OIL CORPORATION	PARADIP REFINERY PROJECT	FOSTER WHEELER	ODISHA - INDIA	WPL6, WPB	2011, 2010
INDIAN OIL CORPORATION	PARADIP REFINERY PROJECT	UHDE THYSSEN KRUPP	ODISHA - INDIA	WPL6, WPB	2011, 2010
INDIAN OIL CORPORATION	PARADIP REFINERY PROJECT	TOYO	ODISHA - INDIA	WPL6, WPB	2011, 2010
BHARAT PETROLEUM CORPORATION LIMITED	KOCHIN REFINERY	BHARAT PETROLEUM CORPORATION LIMITED	KERALA - INDIA	WP22, WP11,WPB	2009, 2008
INDIAN OIL CORPORATION	PANIPAT REFINERY	INDIAN OIL CORPORATION	HARYANA - INDIA	WP9, WP5,WPB	2009
BHARAT OMAN REFINERY LIMITED	BINA REFINERY PROJECT	BHARAT OMAN REFINERY LIMITED	MADHYA PRADESH - INDIA	WP11, WPB	2008
ENGINEERS INDIA LIMITED	MANGALORE REFINERY PROJECT	ENGINEERS INDIA LIMITED	MANGALORE - INDIA	WP11, WPL6,WPB	2010, 2009
ENGINEERS INDIA LIMITED	IOCL PANIPAT LLDPE/HTPE (SWING)	ENGINEERS INDIA LIMITED	HARYANA - INDIA	WPB	2008

- **Regularly Work With Prestigious EPCC/LSTK Like**
  Toyo | UHDE | Foster Wheeler | EIL | Lurgi | Linde | Larsen & Toubro
- **3rd Party Agencies: TUV | BVQ | CEIL | IBR | Lloyds | DNV | IRS | SGS | TCS etc.**

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