PRE-QUALIFICATION STATEMENTS

FORGED STEEL FLANGES

SHINSEI

C O N T E N T S

1.0 INTRODUCTION

Shinsei Industry Sdn Bhd ("SSI") was founded on 17th April 2013 in Penang, Malaysia. It's a wholly-owned subsidiary of Shinsei Holdings Pte Ltd which is incorporated in the Republic of Singapore.

SSI is the sole approved manufacturer for the Japanese brand name of forged flanges; SS SHINSEI . SSI and SS SHINSEI are certified with PED, ISO 9001:2008 and SASOL.

SS SHINSEI flanges has been in market since 2005 and are being used in various industries such as oil & gas, petrochemical, utilities, marine and shipbuilding and more. The SS SHINSEI flanges market reach include United States, Canada, Japan, Holland, Turkey, Belgium, Spain, France, South Africa, Brazil, Chile, Argentina, Mexico, UAE, Saudi Arabia, Australia, Singapore, Indonesia, Malaysia, Thailand, Vietnam and Taiwan.

SSI is located in the northern part of Malaysia, Penang city, which is a manufacturing hub with an efficient transportation network. The Company has an initial investment amount of US$17 million. It occupies a land area of approximately 45,396 square metres and has a built up area of approximately 13,500 square metres. It has about 130 employees with an annual production capacity of stainless steel and carbon steel forged flanges of around 5,400 metric ton.

SSI is able to produce different standards such as JIS, ANSI, DIN, BS, EN and custom made forged flanges ranging from 3/8" to 24". With our unique, advance and complete set of forging facilities, we are also able to produce spare parts for machineries, motor vehicles and other industries requiring high quality with pressure and heat resistance forged spare parts.

Coupled with the strong technical support from Japan, state of the art machinery and equipment, standardised management system, complete testing measures and a comprehensive range of after-sales services, SSI is committed to deliver the highest quality of forged steel flanges under the brand name of SS SHINSEI to you!

SS SHINSEI

2.0 COMPANY PROFILE

2.1 SUMMARY OF FINANCIAL INFORMATION

Capital

Total Investment Amount	US$17 million
Paid Up Capital	US$12 million

Plant Sites

Penang, Malaysia Factory	
- Land	approximately 45,396 sq M
- Built up area	approximately 13,500 sq M

Personnel Status

Directors	5
Administrators & Engineers	11
Technicians	34
Others	80
Total	130

2.2 BUSINESS LOCATION

Shinsei Industry Sdn Bhd

Manufacturing Plant

No. 1576, Jalan Nafiri 1,
Kawasan Perindustrian Valdor,
14200 Sungai Jawi, Penang, Malaysia
Tel No: +604-5823103/ 5823593
Fax No: +604-5822546
Email: sales@ssflanges.com.my
Website: www.ssflanges.com.my

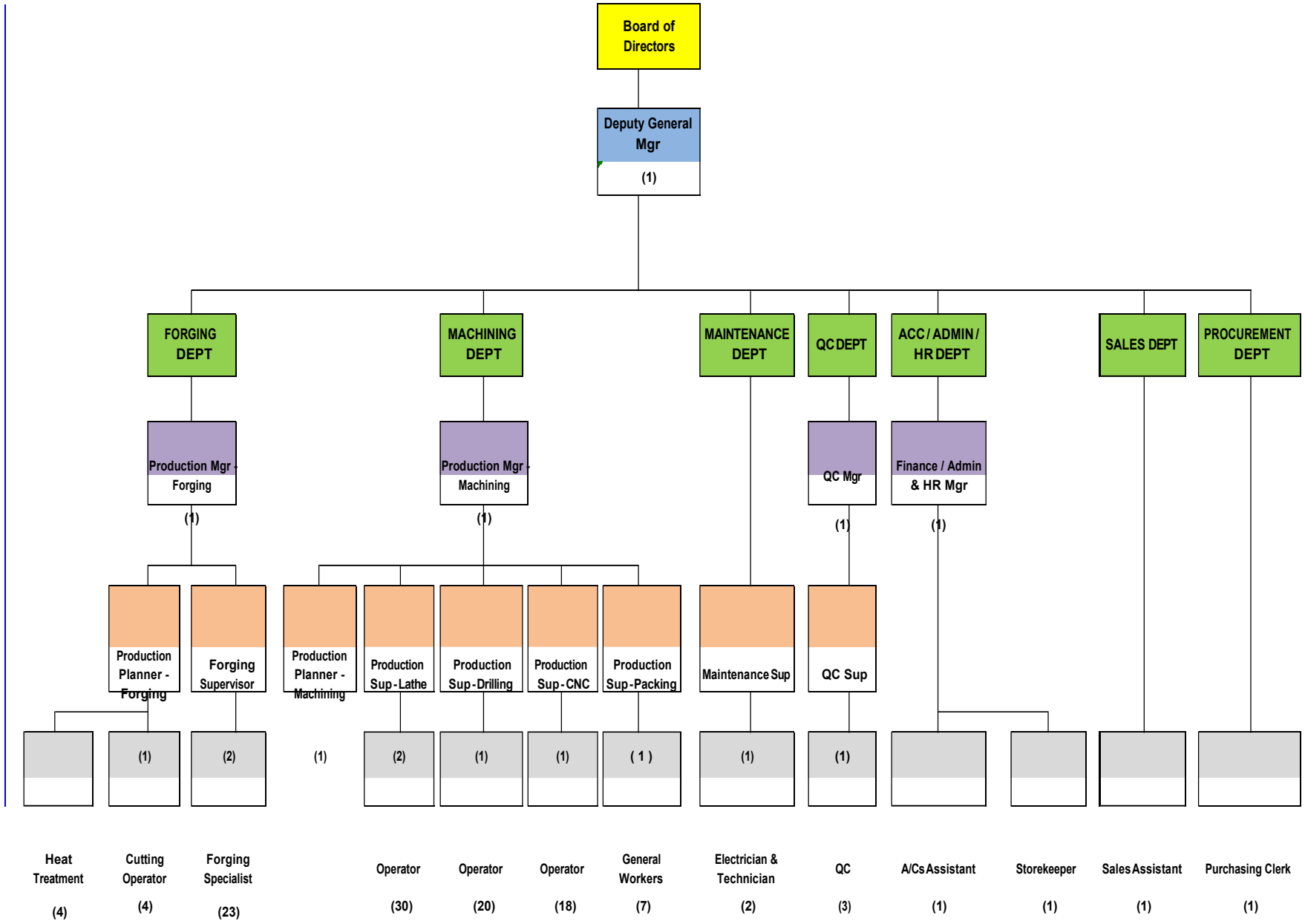
Japan Office

5-11-9 Nichi-Nakajima, Yodogawa-Ku
Osaka, Japan 532-0011
Tel No: +81-6-61005811
Fax No: +81-6-6100 5812
Email: fujiwara@shinseiindustry.co.jp
Website: www.shinseiindustry.co.jp

Taiwan Representative Office

6F-10, No 8, Lane 165
Wuquan W. 6th Street, West District
Taichung City 403, Taiwan
Tel No: +886-4-23754097
Fax No: +886-4-23718321
Email: alexchang@shinseijapan.com

3.0 ORGANISATION CHART



4.0 MAIN PRODUCT & MANUFACTURING RANGE

Type of Flanges

- Threaded
- Lap-Joint
- Plate
- Blind
- Socket-Weld
- Weld-Neck
- Slip-On
- Orifice
- Custom-made Flanges

Flanges Facing

- Raised Face
- Ring Joint
- Tongue & Groove
- Flat Face
- O-Ring Groove
- Male & Female

Material Grade

- Stainless Steel
- Carbon Steel
- Alloy Steel
- Super Duplex
- Duplex
- Low Alloy Steel

Standard & Specifications

- ASME
- ASTM
- ANSI
- AWWA
- MSS
- JIS
- JPI
- DIN
- EN
- BS

Large Diameters Flanges

- B16.47 Series A
- B16.47 Series B
- B.S.3293

Diameters

- Up to 24 Inches

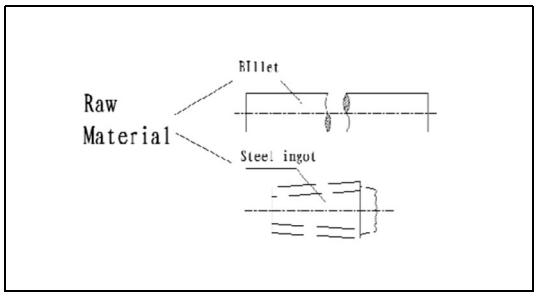
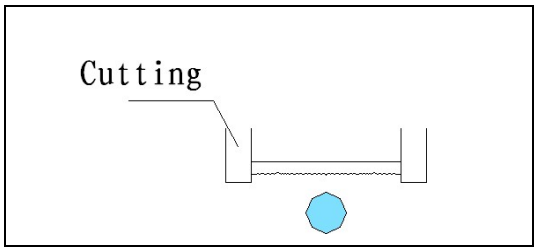
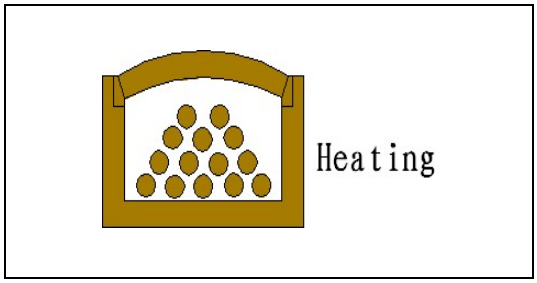
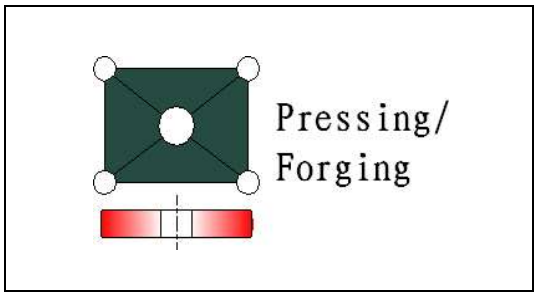
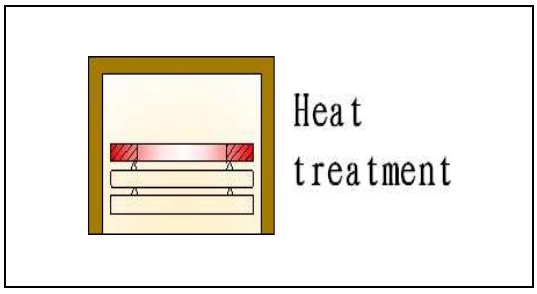
Pressure Class

- Up to 400 Bar

ALL THE ABOVE INFORMATION SHOULD BE REFERRED FOR SELECTION PURPOSES

SHINSEI

5.0 MANUFACTURING AND INSPECTION PROCESS

	MANUFCTURING PROCESS	INSPECTION PROCESS
(A)		• Visual Inspection: 100% • Chemical / Mechanical Analysis & Inspection: 1 – 2 samples per heat number • Colour Coding: 100%
(B)		• Weight / Length Inspection: Random
(C)		• Digital Temperature Check: (1,280 +/- 50) Degree Celsius
(D)		• Dimensional / Surface Inspection: Random • Visual Check: 100%
(E)		• Heat Treatment based on per heat number per batch. • Carbon Steel: Normalise at 860 – 900 Degree Celsius • Stainless Steel: Solution Annealing at Min 1040 Degree Celsius & Water Quenching

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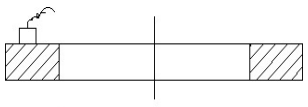
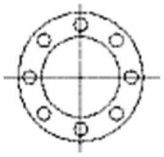
	MANUFCTURING PROCESS	INSPECTION PROCESS
(F)	 Semi-Product	• Dimensional Check: Random
(G)	 Machining Drilling	• Dimensional Check: Random
(H)	SS SHINSEI Marking	• Visual Inspection: 100% • Comparison of Marking Requirement by Customer: First 5 after Marking per Size
(I)	Cleaning/ Degreasing/ Coating	• Visual Inspection: 100%
(J)	Coating (Carbon Steel)	• Visual Inspection: 100%

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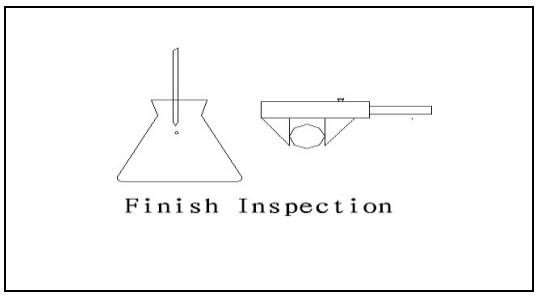
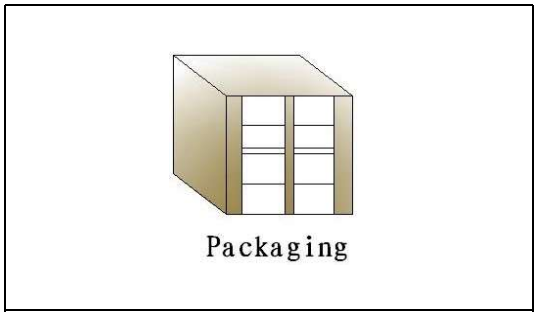
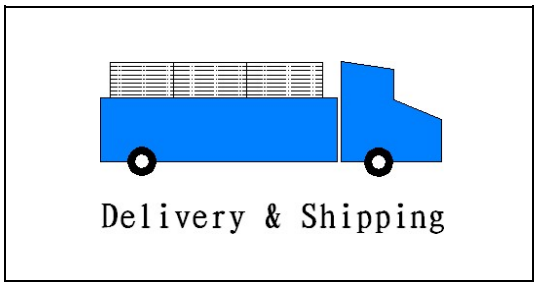
MANUFCTURING PROCESS	INSPECTION PROCESS
(K) 	• Dimensional and Surface Check: Random • Visual Inspection: 100% • NDT & PMI Testing (Upon Request by Customer)
(L) 	• Visual Check: 100%
(M) 	• Visual Check: 100%

6.0 MACHINERY AND EQUIPMENT LIST

6.1 PRODUCTION MACHINERY

NO.	ITEMS	QTY
1	CNC FULLY HYDRAULIC DIE FORGING – 4 TON	1
2	HYDRAULIC PRESSING MACHINE - 3150KN	1
3	AIR HAMMER – 750KG	3
4	AIR HAMMER – 1000KG	2
5	ROLLING MACHINE – 650MM	1
6	ELECTRICAL HEATING FURNACE	3
7	ELECTRICAL NORMALIZING FURNACE	2
8	ELECTRICAL SOLIDATION FURNACE	2
9	SEMI AND AUTOMATIC BAND SAWS	12
10	LATHE AND SEMI-AUTO LATHE MACHINE	16
11	NC AND CNC MACHINE	17
12	DRILLING AND HIGH SPEED AUTO DRILLING MACHINE	11
13	MARKING MACHINE	2
14	ULTRASONIC CLEANING MACHINE	2
15	PAINT COATING AND BAKING MACHINE	1

6.2 TESTING EQUIPMENT

NO.	ITEMS	QTY
1	SPECTRUM ANALYSER	1
2	TENSILE TESTING EQUIPMENT	1
3	HARDNESS TESTING EQUIPMENT	1
4	FLAW DETECTOR	1
5	PORTABLE X-RAY ANALYZER	1
6	IMPACT TESTING MACHINE	1

7.0 BUSINESS ACHIEVEMENT

7.1 PROJECT REFERENCE

PROJECT NAME	YEAR	COUNTRY	DESCRIPTION
Pfizer, Kinetics	2016	Singapore	304L, 316L, A105
Kuraray, JGC	2016	Singapore	304L, 316L, A105
Global Switch, Gammon	2016	Singapore	304L, 316L, A105
Norvatis, Technique AC	2016	Singapore	304L, 316L, A105
Pengerang Cogen Plant,Veolia	2016	Malaysia	304L, 316L, A105
Infineon Fab 2 Kulim	2016	Malaysia	304L, 316L, A105
Osram Kulim CDA & PCW System	2016	Malaysia	304L, 316L, A105
Biotech Farms, Sobono	2016	Philippines	304L, 316L, A105
Yanbu Power Plant, Boustead	2016	Saudi Arabia	304L, 316L, A105
Mae Moh Project, TFW	2016	Thailand	304L, 316L, A105
CWRP, SMITEC	2015	Singapore	304L, 316L, A105
Micron, Yenn Dar	2015	Singapore	304L, 316L, A105
GSK, M + W	2015	Singapore	304L, 316L, A105
Biogas Plant, Asia Biomass	2015	Singapore	304L, 316L, A105
Soxal	2015	Singapore	304L, 316L, A105
Armarda Kraben, Keppel Tuas	2015	Singapore	304L, 316L, A105
Golar Hilli, Keppel Tuas	2015	Singapore	304L, 316L, A105
SMRT Downtown Line, Shinryo	2014	Singapore	304L, 316L, A105
Fusionpolis, LSL	2014	Singapore	304L, 316L, A105
GSK, JML	2014	Singapore	304L, 316L, A105
Castrone, Keppel Tuas	2014	Singapore	304L, 316L, A105
FPSO, Dynamac	2014	Singapore	304L, 316L, A105
Stolthaven Phase 2C, Chiyoda	2013	Singapore	304L, 316L, A105
Vopak Bayan Penjuru Phase 3, OTEC	2013	Singapore	304L, 316L, A105

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CCD	2013	Singapore	304L, 316L, A105
Carbon Dioxide Project	2013	Singapore	304L, 316L, A105
Stolthaven Phase 2C Expansion Project	2013 & On going	Singapore	304L, 316L
Vopak Banyan Penjuru Phase 3	2013	Singapore	304L, 316L
Vopak Banyan Jetty	2013	Singapore	304L, 316L, A105
Kaneka Kam Project	2013 & On going	Malaysia	304L, 316L, A105
SMUF Project	2013	Singapore	304L, 316L, A105
CCD Project	2012 & 2013	Singapore	304L, 316L, A105
GMR Project	2012 & 2013	Singapore	304L, 316L, A105
Denka Project	2012 & 2013	Singapore	304L, 316L, A105
SPEC.MEG Project	2012 & 2013	Singapore	304L, 316L, A105
SSBR Trex Project	2012 & On going	Singapore	304L, 316L, A105
MBHC Project	2012 & 2013	Singapore	304L, 316L, Duplex
BMCC Project	2012 & On going	Singapore	304L, 316L, A105
KAO Project	2012 & 2013	Indonesia	304L, 316L, A105
Trex Project (Hitachi Limited)	2012 & On going	Singapore	304L, 316L, A105
SSP Project (Hitachi Limited)	2011 & On going	Singapore	304L, 316L, A105

Acetic Acid Project	2011 – 2013	Singapore	304L, 316L, A105
Taganito Project	2011 – 2013	Philippine	304L, 316L, A105
Jurong Water Reclamation Plant	2011	Singapore	304L, 316L
Batex Chemical Project	2009 – 2010	Singapore	304L, 316L
UDMC Semiconductor Project	2008 – 2009	Singapore	304L, 316L
New Water Plant	2009	China	304L, 316L
Koniambo Nickel Project	2009	New Caledonia	304L, 316L, A105
Bio-Diesel Plant (Palm Oil Industrial)	2009	Malaysia	304L, 316L, A105, A350-LF2
LPG Bottling Plant (Petronas)	2009	Malaysia	304L, 316L, A350-LF2
Kinsevere Project	2009	Malaysia	304, 304L, 316L
Koncal Project	2009	Malaysia	304, 304L, 316L
Selangor Waste Water Treatment Plant	2009	Malaysia	304, 304L, 316L
Ambatovy Project	2009	Madagascar	A105, A350-LF2
ROPP Balogan Project	2009	Indonesia	304L, 316L, A105
Chestnut Waterworks Phase 2 / ITT Water & Waste Water Singapore Pte Ltd	2010	Singapore	304L, 316L
Khoo Teck Puat Hospital Construction	2010	Singapore	316L
Singapore Cleanseas Terminal Project	2010	Singapore	A105, 316L
Exxonmobil JSS Project	2010	Singapore	A105
PUB (Chestnut Ave) Chestnut Waterworks Project (Phase 2)	2010	Singapore	304, 304L, 316L

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Lonza Biologics Project (Plant 1 & 2)	2008 & 2010	Singapore	304, 304L
Vopak Terminal Project (Phase 1- 4) Jurong Island / Chiyoda (Singapore) Pte Ltd	2007-2010	Singapore	A105, 304L,316L
Seraya Power Station (CoGen 30 & 40 supply to Samsung C&T Corporation)	2009-2011	Singapore	304L, 316L, A105, P-91
Chevron Detergent Expansion Project	2009-2010	Singapore	304,304L, 316L
Alcon Project	2009-2010	Singapore	304L, 316L
Shell Eastern Petroleum SEPC-MEG Project	2009	Singapore	304, 304L, 316L
Nikkon Chemicals Project	2009	Singapore	304L, 316L
OOTS Chem 5/6 Job Site	2009	Singapore	304, 304L, 316L
OTS Phase 10 Job Site	2009	Singapore	304, 304L, 316L
Shell Chemical Seraya (Maintenance Job)	2009	Singapore	304L, 316L, A105
5th Incineration Plant	2009	Singapore	304L, 316L, A105
Banyan Phase 4	2009	Singapore	304L, 316L
Soitec Project	2008-2009	Singapore	304L, 316L
IMF Singapore Project	2008-2009	Singapore	304L, 316L
Siltronic Samsung Project	2008-2009	Singapore	304L, 316L
IR Sentosa Project	2008-2009	Singapore	304L, 316L
Seagate W3 Project	2008-2009	Singapore	304L, 316L
REC Project	2008-2010	Singapore	304L, 316L,A105

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Fuji Oil Plant	2008-2009	Singapore	304L, 316L, A105
Glaxo Smith Kline (GSK) Maintenance Job	2008-2009	Singapore	304L, 316L
JGC-PCS Project (Phase 3)	2008-2009	Singapore	304L, 316L, A105
Denka Project (Jurong Island)	2008-2009	Singapore	304L, 316L
Denka Expansion Project (Tuas)	2008-2009	Singapore	304L, 316L
Maintenance Job (Shell Seraya)	2008-2009	Singapore	304L
Canlubang Waste Water Treatment Plant	2008	Philippines	304L, A105,316L
Alensa (Hermes Project)	2008	Singapore	304L, 316L A105
MEG Project	2008	Singapore	304L, 316L
Changi New Water Project	2008	Singapore	304L, 316L
Invista Project	2008	Singapore	304, 304L, 316L, A105
Ciba AO Plant	2008	Singapore	304, 304L, 316L, A105
Rohmax Plant	2007-2008	Singapore	304, 304L, 316L, A105
Banyan Phase 3	2007-2008	Singapore	A105
Banyan Phase 2	2007	Singapore	304, 304L
Lonza Biologics Project (Plant 1)	2007	Singapore	304L, 316L
Helios Terminal Project	2007	Singapore	316L
Vopak Penjuru Terminal	2006-2009	Singapore	304L, 316L
Abbott Nutrition Plant	2006-2009	Singapore	304L, 316L
Marina Barrage Seawater Project	2006-2009	Singapore	304L, 316L

Singapore Refinery Center (SRC) Maintenance Job	2006-2009	Singapore	304L, 316L, A105
Horizon Project	2006-2007	Singapore	304L, 316L
Ulu Pandan Waste Water Plant	2006-2007	Singapore	304L, 316L
Tech Semiconductor Project	2006-2007	Singapore	304L, 316L
Changi Water Reclamation Plant	2004 - 2006	Singapore	304L, 316L
Tuas Seawater Desalination Plant	2004 - 2006	Singapore	304L, 316L, Duplex/Super Duplex
Chestnut New Water Plant (Phase 1)	2003	Singapore	304L, 316L

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7.2 KEY MARKET

North America	United States of America Canada
Central America	Mexico
South America	Brazil Chile Argentina
Asia	Japan Malaysia Singapore Indonesia Thailand Philippines Taiwan
Oceania	Australia NewZealand
Europe	Holland Turkey Belgium SPAIN France
Middle East	Iran UAE Saudi Arabia Pakistan
Africa	South Africa Nigeria

We are also **OEM Makers** for various flange manufacturers in the world

SHINSEI

8.0 APPLICABLE STANDARDS

SPECIFICATION	CODE	DESCRIPTION
ANSI	B 16.5	STEEL PIPE FLANGES AND FLANGES FITTINGS
ANSI	B 16.9	FACTORY MADE WROUGHT STEEL BUTT-WELDING FITTINGS
ANSI	B 16.11	FORGED STEEL FITTINGS, SOCK-WELDING AND THREADED
ANSI	B 16.25	BUTT-WELDING ENDS
ANSI	B 16.28	WROUGHT STEEL BUTT-WELDING SHORT RDIUS ELBOWS AND RETURNS
ANSI	B 16.36	ORIFICE FLANGES, CLASS 300,600,900,1500,2500
ANSI	B 16.47	LARGE DIAMTERES STEEL FLANGES
ANSI	B 36.10	WELDED AND SEAMLESS WROUGHT STEEL PIPE
ANSI	B 36.19	STAINLESS STEEL PIPES
ANSI	B1.20.1	PIPE THREAD, GENERAL PURPOSE (INCHES)
JIS	B 2220	STEEL PIPE FLANGES
JIS	B 2311	STEEL BUTT-WELDING PIPE FITTINGS FOR ORDINARY USE
JIS	B 2312	STEEL BUTT-WELDING PIPE FITTINGS
JIS	B 2313	STEEL PLATE BUTT-WELDING PIPE FITTINGS
JIS	B 2316	STEEL SOCKET WELDING PIPE FITTINGS
MSS	SP-43	WROUGHT STAINLESS STEEL BUTT-WELDING FITTINGS
MSS	SP-48	STEEL BUTT-WELDING FITTINGS
MSS	SP-75	SPECIFICATION FOR HIGH TEST WROUGHT BUTT-WELDING FITTINGS
MSS	SP-79	SOCKET-WELDING REDUCER INSERTS
MSS	SP-83	CARBON STEEL PIPE UNIONS SOCKET-WELDING AND THEADED
MSS	SP-95	SWAGE NIPPLES AND BULL PLUGS USE
MSS	SP-97	INTERGRALLY REINFORCED FORGED BRANCH OULET FITTINGS SOCKE-WELDING, THREADED AND BUTT-WELDING ENDS
OTHER	BS 4504	FLANGES AND BOLTING FOR PIPES VALVES AND FITTINGS METRIC SERIES
	AS 2129	FLANGES FOR PIPES, VALVES AND FITTINGS
	JPI-7S-15	STEEL PIPE FLANGES FOR PERTROLEUM INDUSTRY
	DIN 17440	STAINLESS STEEL-TECHNICAL DELIVERY CONDITIONS FOR PLATE, HOT ROLLED STRIPS AND BARS FOR PRESSURE PURPOSES, DRAWN WIRE AND FORGINGS
	BS EN 10226-1	SPECIFICATION FOR PIPE THREADS FOR TUBES AND FITTINGS WHERE PRESSURE-TIGHT JOINTS ARE MADE ON THE THREADS (METRIC DIMENSIONS)
	ISO 4144	STAINLESS STEEL FITTINGS THREADING TO ISO 7-1
	DIN 2999	PIPE THREADS FOR TUBES AND FITTINGS; SIZES FOR TAPER SCREW LIMIT PLUG GAUGES FOR PARALLEL INTERNAL THREAD

ALL THE ABOVE INFORMATION SHOULD BE REFERRED FOR SELECTION PURPOSES.

SHINSEI

9.0 APPROVED CERTIFICATION

NO.	CERTIFICATION NAME	AWARDED BODY
1	ISO 9001 : 2015	TUV SUD Management Service GmbH
2	Pressure Equipment Directive 97/23/EC (PED)	TUV SUD Industries Service GmbH
3	AD 2000 – Merkblatt W0	TUV SUD Industries Service GmbH
4	Rules for the Survey and Construction of Steel Ships and Guidance for the Approval and Type Approval of Materials and Equipment for Marine Use	Nippon Kaiji Kyokai (NKK)

SHINSEI

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