

Delivery Performance record

(2011)



Performance Contents

Petrochemical Plant

1) Export Project & Foreign nation Purchase(Domestic Establish)

- . **Japan : SES, Tsukishima Kankyo ENG. , MHI Mechatronic**

- . **Thailand : BST, BSTE with GSI ENG.**

- . **Germany : BOKELA**

- . **Iran : Shahid Rasouli Petrochemical with Wonjin H.I.**

2) Samsung & POSCO

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Petrochemical Plant

1) Export Project & Foreign nation Purchase (Domestic Establish)



MES : SNUBBER (JAPAN)

SKEC : GANA PJT

WONJIN : P-E PROJECT (IRAN)

Client / End User	Site Location	Project Name	Item Description	Year
MES / MITSUBISHI (Japan)	Mitsubishi (Japan)	C.P Plant Expansion (ASME "U" Stamp)	Vessel : 18sets	1991
	Mitsubishi (Indo)	LAB Project	Snubber VS : 22 sets Drain Pot : 3 sets	2003
SKEC	Gana , Aferica	Oil Treatment	Mixing TK : 1 set Storage Tank : 1 set	2003
SIMA MITSUI / OTOFUJI (Japan)	Otofuji (Japan)	Extension Project	Filter VS : 2 sets Strainer : 2 sets	2004
WONJIN (KOREA) / SRPC(IRAN)	Shahid Rasouli Petrochemical (Iran)	PE-Complex Project	H/EX : 33 sets	2006
DOOSAN(KOREA) / SHUAIBAN(SAUDI)	Shuaiban (Saudi)	Shuaiban IWPP	Storage Tank : 3 sets	2007

Petrochemical Plant

1) Export Project & Foreign nation Purchase (Domestic Establish)



VAPOR RECOVERY UNIT
: SHOP PRE ASSEMBLY

VAPOR RECOVERY UNIT
: SITE ERECTION

Client / End User	Site Location	Project Name	Item Description	Year
SES (JAPAN) / GS CALTEX(KOREA)	GS Caltex (Yeo chon, Korea)	VRU 1 st	Vapor Recovery Unit	2005
	GS Caltex (Yeo chon, Korea)	VRU 2 ND	Vapor Recovery Unit	2006
	GS Caltex (Yeo chon, Korea)	VRU 3 RD	Vapor Recovery Unit	2008

Petrochemical Plant

1) Export Project & Foreign nation Purchase (Domestic Establish)



Client / End User	Site Location	Project Name	Item Description	Year
MHI MECHATRONICS(Japan) / METOR CHEMICAL	Metor Chemical (Venzuela)	Metor Expansion	Filter Tank : 2 sets FRP Tank : 2 sets	2006
MHI MECHATRONICS(Japan) / BRUNEI METHANOL CO.	Brunei Methanol co. (Brunei)	BM Project	Filter Tank : 2 sets	2008
MHI MECHATRONICS(Japan) / SHUQAIQ	Shuqaiq (Saudi)	IWPP-II Project	Filter Tank : 2 sets Hopper : 1 set Oil Separator : 1 set Rake : 3 sets	2008
		DEMI Project	MBP Tank : 2 sets MBP Unit: 2 sets Piping & Sup't : 1 lot	2008
TSKE(Japan) / SAUDI POLYMER CO.	Saudi Polymer Company(Saudi)	NCP Project	Gas Duct : 4 sets	2008

Petrochemical Plant

1) Export Project & Foreign nation Purchase (Domestic Establish)



HEAT EXCHANGER



BUNDLE



DELIVERY at PORT

Client / End User	Site Location	Project Name	Item Description	Year
GSI ENG./ BST	Bangkok Synthetics Co.,Ltd.(Bangkok)	BST/BD-1 Project	Tower : 1 set Heat Exchanger : 7 sets	2006
	Bangkok Synthetics Co., Ltd.(Bangkok)	CSP Product Cooling	Heat Exchanger : 1 set	2008
	Bangkok Synthetics Co., Ltd.(Bangkok)	DMB Revamping	H/EX Bundle: 2 sets	2008
	Bangkok Synthetics Co., Ltd.(Bangkok)	Revamping	H/EX Bundle: 1 sets	2008
GSI ENG./ INDORAMA	Indorama Co., Lrd. (Bangkok)	Revamping	Heat Exchanger : 4 sets	2008
GSI ENG./ BST	Bangkok Synthetics Co., Ltd.(Bangkok)	NH3 Condenser	Heat Exchanger : 2 sets	2009
	Bangkok Synthetics Co., Ltd.(Bangkok)	BST/BD-1 Project	Tower : 1 set Heat Exchanger : 7 sets	2006

Petrochemical Plant

1) Export Project & Foreign nation Purchase (Domestic Establish)



<u>DRUM FILTER VESSEL</u> <u>: SAMNAM PETROCHEMICAL</u>	<u>DRUM FILTER VESSEL</u> <u>: SAMSUNG PETROCHEMICAL</u>
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Client / End User	Site Location	Project Name	Item Description	Year
BOKELA (GERMANY) / SAMNAM PETRO.(KOREA)	Samnam Petrochemical (Yeo chon, Korea)	Filter System	Drum Filter vessel : 1 set	2008
BOKELA (GERMANY) / SAMNAM PETRO.(KOREA)	Samsung Petrochemical (Ulsan, Korea)	Filter System	Drum Filter vessel : 1 set	2008

Petrochemical Plant

1) Export Project & Foreign nation Purchase (Domestic Establish)



NCP PROJECT (GAS LINE)
: SAUDI POLYMER COMPANY

Client / End User	Site Location	Project Name	Item Description	Year
TSKE (JAPAN) / SAUDI POLYMER COMPANY	Saudi Polymer Com. (Saudi)	NCP Project	Gas Line (ID 1524) : 12 line	2009
TSKE (JAPAN) / SAUDI POLYMER COMPANY	Saudi Polymer Com. (Saudi)	NCP Project	Gas Line (ID800) : 14 line	2010

Petrochemical Plant

2) Samsung & POSCO



<u>AIR RESERVOIR TANK</u>	<u>SAND FILTER TANK</u>	<u>WATER SERVICE TANK</u>
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Client / End User	Site Location	Project Name	Item Description	Year
SAMSUNG ENG. / SAMSUNG	Samsung (Whasung)	Purified Copper Refine Plant	Storage Tank : 5 sets	1998
	Samsung (Busan)	PSA Oxygen Facility	Absorber VS : 3 sets After Cooler : 1 set Seal Pot : 2 sets	2000
	Samsung Electric (Busan)	WWT	Air Reservoir Tank : 1 set	2003
	Samsung Electronic (Cheonan)	WWT	Air Reservoir Tank : 4 sets Water Tank : 2 sets	2004
	Samsung Eng. (Tangjeong)	WWT	Air Reservoir Tank : 2 sets	2005

Petrochemical Plant

2) Samsung & POSCO

Client / End User	Site Location	Project Name	Item Description	Year
SAMSUNG SDI	Samsung SDI (Yongsan)	PDP Line4 Plant	Vessel : 4 sets	2006
SAMSUNG ENG. / SAMSUNG SDI	Samsung Electric (Busan)	WWT	Sand Filter Tank : 7 sets	2007
SAMSUNG TOTAL	Samsung Total (Daesan)	H2SO4 Tank	Tank : 1 set	2007
	Samsung Total (Daesan)	Effect Reboiler	Heat Exchanger : 2 sets	2007
POSCO E&C / POSCO	POSCO (Pohang)	WWT	Air Reservoir Tank : 3 sets	2005

Petrochemical Plant

3) Michang, Kukdong & Seojin (Oil & Chemical)



HEATER

**DISTILLATION TOWER
MODIFY**



PARAFFIN WAX UNIT

**SOLVENT DISTILLATION
UNIT**

Client / End User	Site Location	Project Name	Item Description	Year
MICHANG OIL CO., LTD	Michang (Busan)	Oil Dewaxing Plant	Oil Dewaxing Unit	1986
		Lube Distillation Plant	Tower : 2 sets H/EX : 12 sets Heater(550,000k):1set	1987
		Acid Treatment	Mixing VS : 6 sets Storage Tank : 3 sets	1991
		Neutralization System	Mixing VS : 4 sets Storage Tank : 2 sets	1991
		Lube Oil Blending Sys.	Lube Oil Blending Unit	1993
		Distillation Tower Modify	Condenser : s sets	1993
		Distillation Tower Modify	O/H Condenser : 2 sets	1994
	Michang (Ulsan)	Waste Treatment Unit	Acid VS : 2 sets Storage Tank : 2 sets	1994
		Solvent Distillation Unit	Vessel : 2 sets Heater : 2 sets	1995
		Base Oil Storage Sys.	Pressure VS : 2 sets	1995
Michang (Busan)		Paraffin Wax	Paraffin Wax unit	1996

Petrochemical Plant

3) Michang, Kukdong & Seojin (Oil & Chemical)



KUKDON OIL CHEMICAL

SEOJIN CHEMICAL

Client / End User	Site Location	Project Name	Item Description	Year
KUKDONG OIL CHEMICAL	Kukdong (Yangsan)	Asphal Ruby Sh't Plant	Mixing Kettle : 5 sets	1982
	Kukdong (Yangsan)	Asphal Ruby Sh't Plant	Mixing Kettle : 5 sets	1988
	Kukdong (Yangsan)	Dehydrat'g Unit for Paraffin	Storage Tank : 4 sets Heat Ex. : 3 sets Dehydrat'g Unit: 1 set	1999
	Kukdong (Yangsan)	Sulfuric Acid Plant	Acid Tank : 2 sets	2000
	Kukdong (Yangsan)	3th Factory Revamping	Oil Mix'g T.k : 3 sets (W / Pip'g & Structure)	2010
	Kukdong (Yangsan)	1st Factory Revamping	Oil Mix'g T.k : 2 sets (W / Pip'g & Structure)	2010
SEOJIN OIL CHEMICAL	Seojin (Ulsan)	VDU Project	Tower : 2 sets/ H/EX : 11sets Heater : 2 set/ Tank : 7 sets	2003

Petrochemical Plant

4) Daelim Oil



STORAGE TANK



PRESSURE VESSEL



TOWER

Client / End User	Site Location	Project Name	Item Description	Year
DAELIM OIL CO., LTD	Daelim (Ulsan)	IPA Recovery Plant	Tower : 1 set Condenser : 4 sets Vessel : 5 sets	1990
	Daelim (Ulsan)	Base Oil Storage Plant	Storage tank : 5 sets	1991
	Daelim (Ulsan)	V.I.I Plant for Lube Oil	Vessel : 6 sets	1991
	Daelim (Ulsan)	Sulfuric Acid Reaction Plant	Mixing Vessel : 2 sets Storage Tank : 1 set	1991
	Daelim (Busan)	V.I.I Plant Expansion	Storage Tank : 1 set	1992
	Daelim (Busan)	V.I.I 2ND Expansion	Storage Tank : 1 set	1993

Petrochemical Plant

4) Daelim Oil



HEAT EXCHANGER

Client / End User	Site Location	Project Name	Item Description	Year
DAELIM OIL CO., LTD.	Daelim (Gunsan)	Used Oil Thermal Cracking Unit	Crack'g Heater : 1 set Tower : 1 sets Heat Ex. : 5 sets	1999
	Daelim (Gunsan)	Used Oil Thermal Cracking Unit	Crack'g Heater : 1 set	2000
	Daelim (Gunsan)	Used Oil Recovery Plant	Heat Ex. :3 sets PA Receiver TK : 1 set	2005
	Daelim (Gunsan)	Used Oil Recovery Plant	Heat Ex. : 1 set	2006
	Daelim (Gunsan)	Increase & Revamping Project	Tower : 1 set Vessel : 1 set	2008
	Daelim (Gunsan)	Revamping Project	Heat Ex. : 2 sets	2009
	Korea Shincool Co., Ltd. (Jinhae)	Machine Oil Plant	Mixing Vessel : 8 sets Storage Tank : 6 sets	1995

Petrochemical Plant

5) Others Plant



Client / End User	Site Location	Project Name	Item Description	Year
DONGYANG CHEMICAL	Dongyang Chemical Co., Ltd.(Busan)	Sulfuric Acid Project	Vessel : 1 set	1994
DONGNAM OIL	Dongnam Oil Co., Ltd. (Ansan)	Extension Project	Tower : 2 sets	1994
DONGJAE SHEET	Dongjae Sheet Co., Ltd. (Kyungsan)	Asphalt Primer Plant	Storage Tank : 8 sets Mixing Kettle : 6 sets	1994
DAEWON IND.	Daewon Ind. Co., Ltd. (Busan)	Extension Project	Heat'g Vessel : 1 sets Heat Ex. : 1 set	1994
SAEYANG IND.	Saeyang Ind. Co., Ltd. (Yangsan)	Asphalt Project	Reactor : 1 set	1995
HANHWA NSK	Hanhwa NSK Co.,Ltd. (Changwon)	2 ND Factory Equip.	Vessel : 5 set	1995
KOREA SHINCOOL	Korea Shincool Co., Ltd. (Jinhae)	Machine Oil Plant	Mixing Vessel : 8 sets Storage Tank : 6 sets	1995

Petrochemical Plant

5) Others Plant



VESSEL



VESSEL



PILOT TANK

Client / End User	Site Location	Project Name	Item Description	Year
DONGYANG CHEMICAL	Dongyang Chemical Co., Ltd.(Busan)	Dye Extension Project	Reactor : 1 set	1996
		Dye Extension Project	Mixing Vessel : 4 sets	1997
NAMYANG ENERGY	Namyang Energy Co., Ltd. (Gimhae)	Transformer Oil Refinery Plant	Vessel : 14 sets	1998
SROCKBREEDER	Stock Breeder association (Eumsung)	Rendering Project	Mixing Vessel : 4 sets	1998
HANJUNG OIL & CHEMICAL	Hanjung Oil & Chemical (Gimhae)	Base Oil Blending Project	Storage Tank : 19 sets	1999
INCHON OIL REFINERY	Inchon Oil Refinery Co., Ltd. (Inchon)	Replacing Worn Out Project	Heat Exchanger : 4 sets	2000
DONGYANG CHEMICAL	Dongyang Chemical Co., Ltd.(Busan)	Expansion Project	Mixing Vessel : 1 sets	2000

Petrochemical Plant

5) Others Plant



SONGWON M PROJECT

SK ENERGY PILOT PLANT

ROTEM TOWER

Client / End User	Site Location	Project Name	Item Description	Year
JANGWOO / SONGWON COLOR	Songwon Ind Co., Ltd.(Ulsan)	M Project	Vessel : 18 sets	2006
WOBO ENG. / HANHWA CORPORATION	Hanhwa Corporation (Kunsan)	CO2 Buffer Unit	Vessel : 2 sets	2008
WOBO ENG. / SK ENERGY	SK Energy Co., Ltd. (Ulsan)	C4 Olefin/Paraffin Adsorption Plant	C4 Tank : 7 sets	2008
IGS / DAEWOO	Daewoo (Geoje)	GBS CO2 Project	Vaporizer : 2 sets	2009
SANG-A INTEC / HYUNDAI ROTAM	Hyundai Rotam (Dangjin)	No. 4,5,6 Air Separation Plant	Evaporation Cooler : 1 set MS Strainer : 1 set	2009

Petrochemical Plant

5) Others Plant



MC Recovery Syster



Incineration System



Client / End User	Site Location	Project Name	Item Description	Year
W-SCOPE KOREA CO.,LTD/ SES CO.,LTD	W-Scope Co., Ltd.(Cheongwon)	MC Recovery System	VRU Unit : 1 unit	2010
TOSHIBA PLANT SYS.&SERVICER CO.,LTD/ TOMATO ENG. CO.,LTD	Toshiba Plant Sys.&Servicer Co.,Ltd(Japan)	Nghison Power Plant	M/H Ass'y & Gasket etc. : 1unit	2010
NANO CO.,LTD	Nano Co.,Ltd. (Sangju)	Bubbling System	Bubbling System : 1 unit	2010
PAN PACIFIC COP.	Pan Pacific Cop.(Japan)	Incineration System	Rotary Kiln Unit : 1 unit	2011

Petrochemical Plant

5) Others Plant



NAPHTHALENE PLANT UNIT

Client / End User	Site Location	Project Name	Item Description	Year
DONGSUH CHEMICAL IND.CO.,LTD	Dongsuh Chemical (Pohang)	Naphthalene Plant	Tower : 3 sets H/EX : 12 sets Vessel : 8 sets H.T.M Boiler (1,200,000kcal/hr):1set	2011