

# Introduction of UBEC Inc.





#### ◆ President's Message

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- ◆ Quality Assurance
- ◆ Factory Summary
- ◆ Factory Information
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After since 'UBEC Inc.' has originally founded as the 'IL-Sung' in 1982 we have made successful developments with customer's great supports and changed its name to 'IL-Sung Enterprise' and 'UBEC Inc.' at the date of Jan. 2007. UBEC Inc. is a professional Plant Construction & Manufacture company striving for technology developments and quality improvements based on 40 years of work experiences in the field of 'Oil Refinery of Petrochemical Gas Storage Tanks', 'Oil Storage Tanks', 'Manufacture and Erection of Metal Structure', 'Plant Manufacture division and Steel Structure division. Both division are equipped with the latest technologies and highly skilled human resources. Those of two division are providing an integrated service from 'manufacturing of equipments', 'Shot Blasting', 'Painting' for 'Construction'. The UBEC Inc.'s specialized technologies such as 'Replacing a catalyst of the Heavy Oil Plant', 'Submarine Piping' and 'Heavy Wall Piping', have been highly recognized not only in domestic market but expanded out internationally such as Taiwan, Indonesia, Middle Asia, Canada and U.S.A. The UBEC Inc. is surely Customer oriented company that always listens to the customers and gives them a promise to provide distinct technologies and high quality products that are always reliable. The best and foremost value the company pursuits, is the 'Customer Satisfaction'.

**UBEC Inc.**  
**Hyeong Sin, KIM**



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## Company History

1982. 09.	Founded as IL-Sung Enterprise Co.
1982. 12.	Obtained construction license for facilities construction & steel construction
1985. 04.	Registered as a subcontractor's of SKEC
1990. 11.	Established the corporation of IL-Sung Enterprise Co., Ltd.
1992. 08.	Registered as a subcontractor's of POSCO,TaeKwang Ind.
1993. 08.	Registered as a subcontractor's of SamSung Heavy Ind.
1995. 04.	Registered as a subcontractor's of SK Corporation
1995. 04.	Moved head office to new building & shop
1997. 03.	Acquisition of ISO 9001 & KSA 9002
1998. 04.	Obtained of construction license for fire facilities system (electricity and machinery)
1998. 05.	Completion of shop & new corporate office building (Yongyeon Factory)
1998. 12.	Obtained construction license for heavy steel structure
1999. 01.	Obtained manufacturing permit for high pressure gas specific facilities
1999. 10.	Registered as a subcontractor's of S-Oil
2000. 12.	Registered as a subcontractor's of Korea Electric Construction & Hyundai Heavy Ind.
2001. 01.	Obtained a construction license for painting
2003. 05.	Awarded first project in Taiwan (Formosa Petrochemical Co.)
2003. 10.	Became the first Korean contractor to be awarded submarine pipe work
2004. 12.	Received The President of Korea's award for volunteer charity work
2006. 10.	Registered as a subcontractor of Daewoo Construction
2006. 12.	Acquired Canadian Welding Bureau (CWB)
2007. 01.	Changed company name from IL-Sung to UBEC, Inc.
2007. 01.	Acquisition of ASME stamp (U,S) – Yongyeon Factory
2008. 05.	Acquisition of ASME stamp (U,U2,S) – Gyeongju Factory
2008. 12.	Obtained construction license for gas facilities construction
2008. 12.	Won "The Export of the Top Award"
2009. 10.	Daejuk factory completed
2010. 01.	Acquired ASME stamp (N,NA,NPT)
2013. 02.	Acquisition of National Board (R) –Yongyeon Factory
2014. 06.	Acquired ISO 14001:2009 & ISO 14001:2004
2014. 08.	Acquired OHSAS 18001:2007 & K-OHSMS 18001:2007
2015. 01.	Inauguration of President Kim Hyeong Sin
2017. 12.	Acquired ISO 9001:2015



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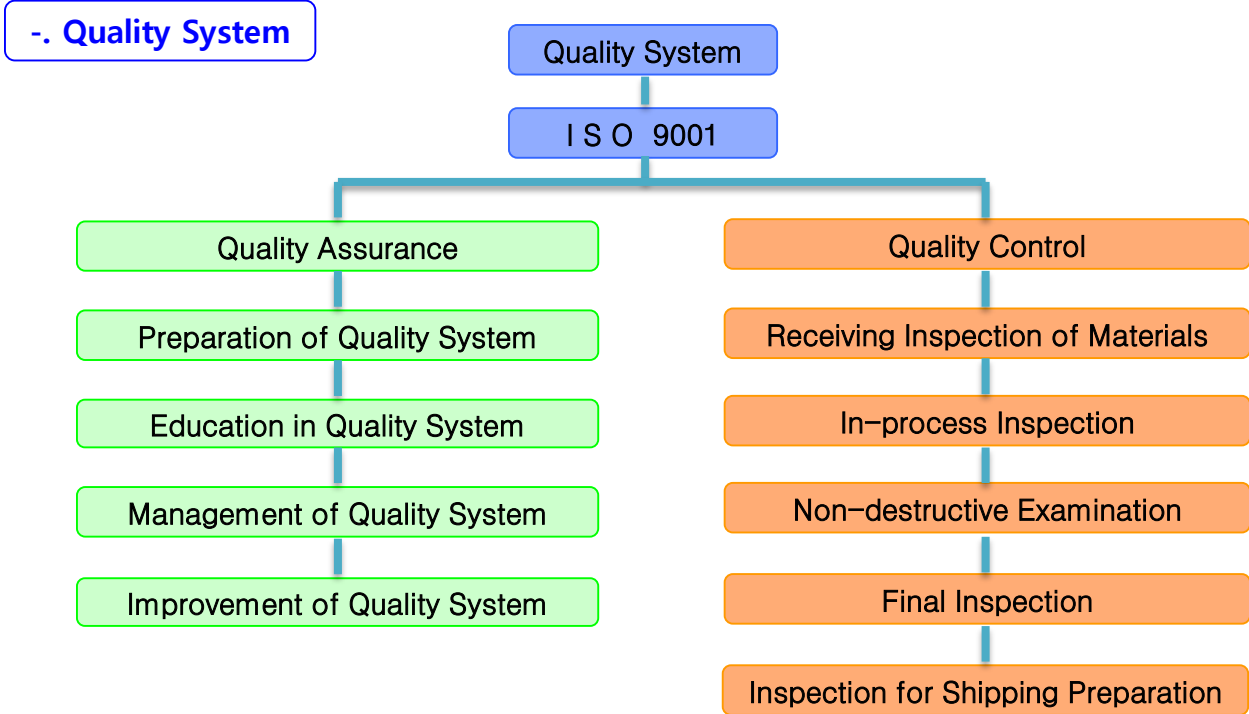
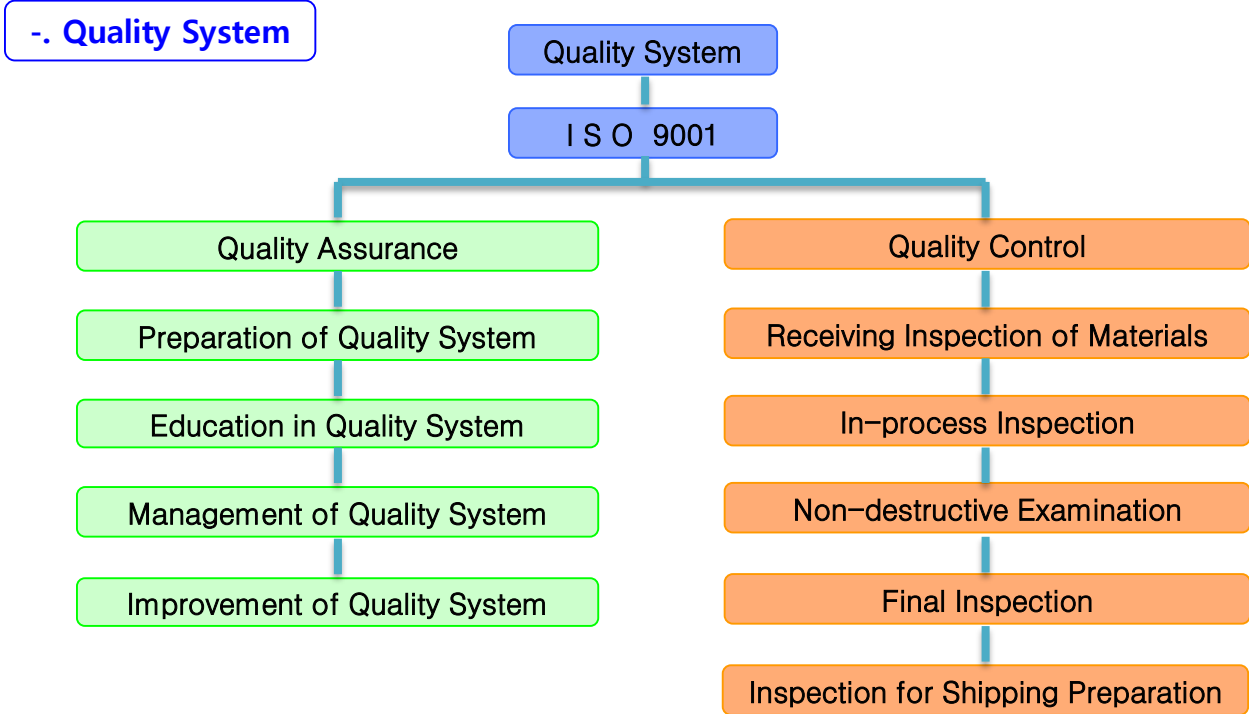
### - . Quality Policy

**The Quality Policy of UBEC, Inc.** is to help our customers satisfy their needs and requirements through the ISO 9001 : 2015 system. In addition, the Quality System of UBEC Inc. supplies customers with new and improved products through continuous research and development.

**The Goals of UBEC, Inc. employees** are to maintain good quality, improve individual skills, show individual ability, and to be very accurate. Therefore, they should be responsible for the quality of their work and they should have to follow and remember company quality policies and systems in order to do their jobs well.

### - . Quality Objectives

It is the objective of UBEC, Inc. to achieve our foremost goal, "**Customer Satisfaction**" by providing superior quality combined with high technology and the best cost through the continuous improvement of our products, and through the implementation of efficiency, product performance and reliability with the establishment of quality system and plan in accordance with the requirements of ISO 9001 system we will achieve those goals.



- ▶ **We always provide the highest level of quality systems to our customer by complying to the quality requirements in accordance with applicable codes and standards**
  
- ▶ **Our quality systems are flexible and can be adapted to suit the needs of customer requirements and accommodate any scope of manufacturing.**



## Factory Summary

Factory Name	Address	Indoor (m <sup>2</sup> )	Outdoor (m <sup>2</sup> )	Total (m <sup>2</sup> )	Main Product
Yongyeon Factory	106, Yongyeon-ro, Nam-gu, Ulsan, KOREA	6,025	18,200	24,225	Heat Exchanger Pressure Vessel Filter
Sinilban Factory	243-46 Cheoyongsaneop-ro, Cheongnyang-myeon Ulju-gun Ulsan, KOREA	5,830	11,050	16,880	Heat Exchanger Power Piping Steel Structure
Daejuk Factory	158, Daejuk 2-ro, Daesan-eup, Seosan-Si, Chungcheongnam-do, KOREA	4,256	49,439	53,695	Steel Structure Power Piping
Gyeongju Factory	144, Naengcheonjenaegongdan-gil Oedong-eup, Gyeongju-si, Gyeongsangbuk-do, KOREA	3,650	32,580	36,230	Heat Exchanger Pressure Vessel W.H.O.H
<b>Total Area</b>		<b>19,761</b>	<b>111,269</b>	<b>131,030</b>	

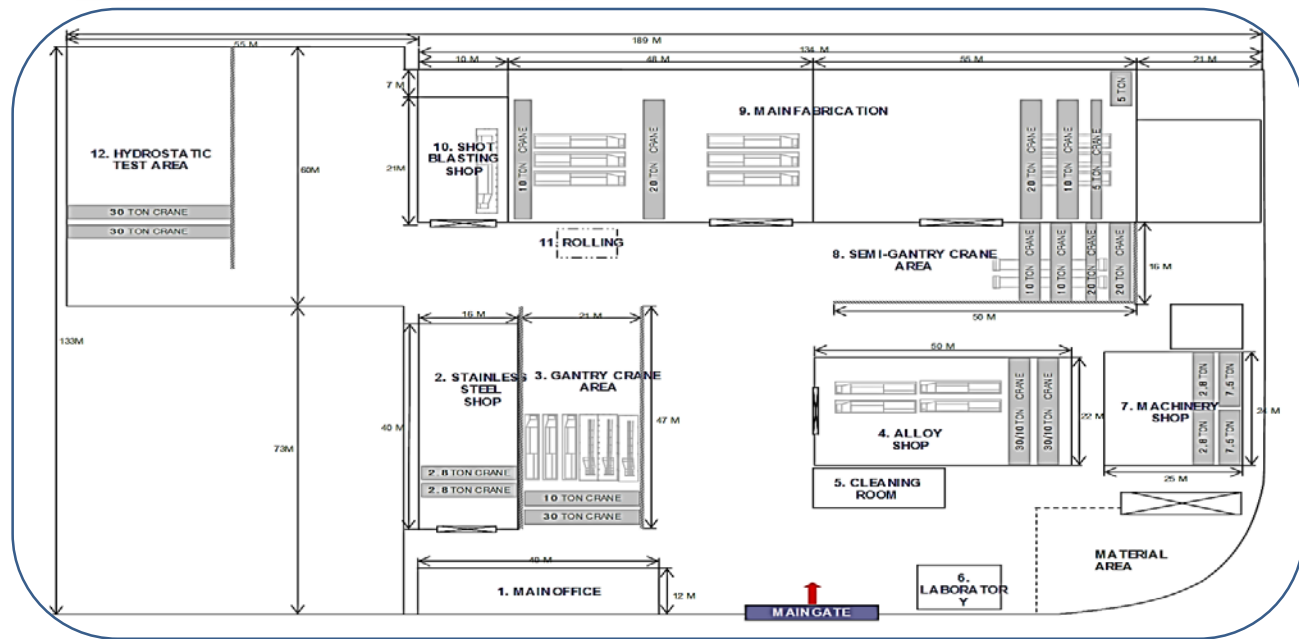
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# 1. Yongyeon Factory Lay-out



Indoor	6,025m <sup>2</sup>
Outdoor	18,200m <sup>2</sup>
<b>Total</b>	<b>24,225m<sup>2</sup></b>

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## 2. Sinilban Factory Lay-out



Indoor	5,830m <sup>2</sup>
Outdoor	11,050m <sup>2</sup>
<b>Total</b>	<b>16,880m<sup>2</sup></b>

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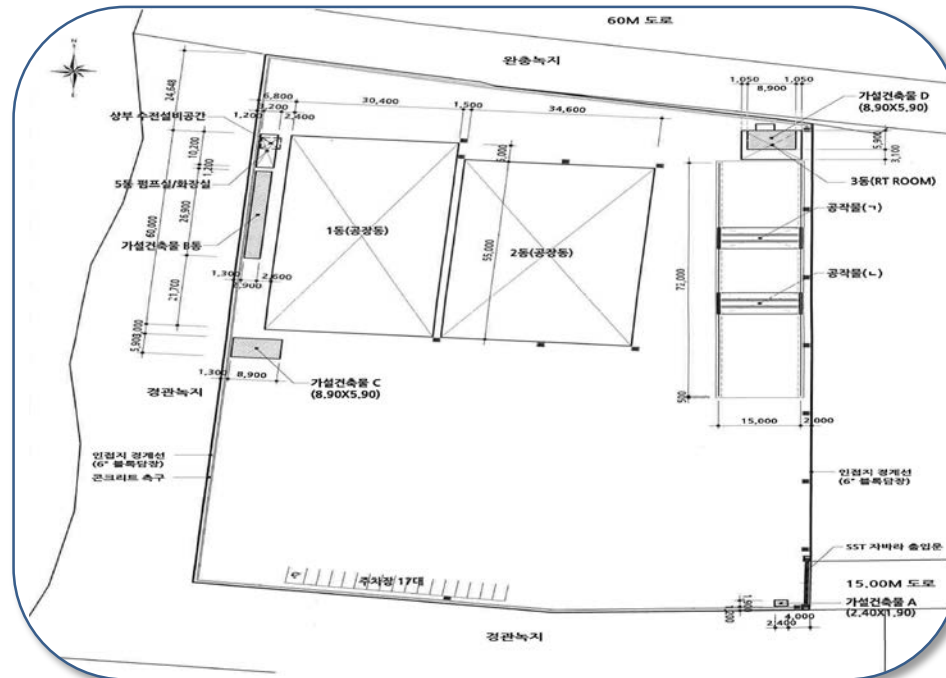
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### 3. Dae-juk Factory Lay-out

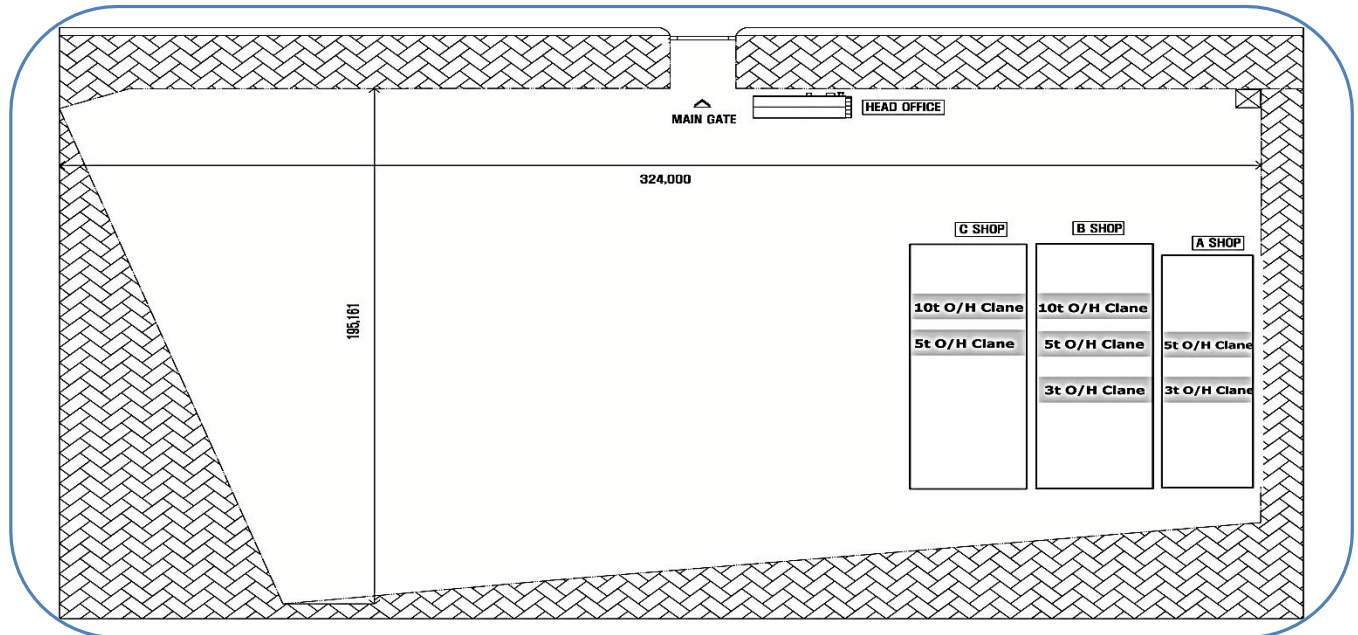


Indoor	4,256m <sup>2</sup>
Outdoor	49,439m <sup>2</sup>
<b>Total</b>	<b>53,695m<sup>2</sup></b>

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## 4. Gyeong-ju Factory Lay-out

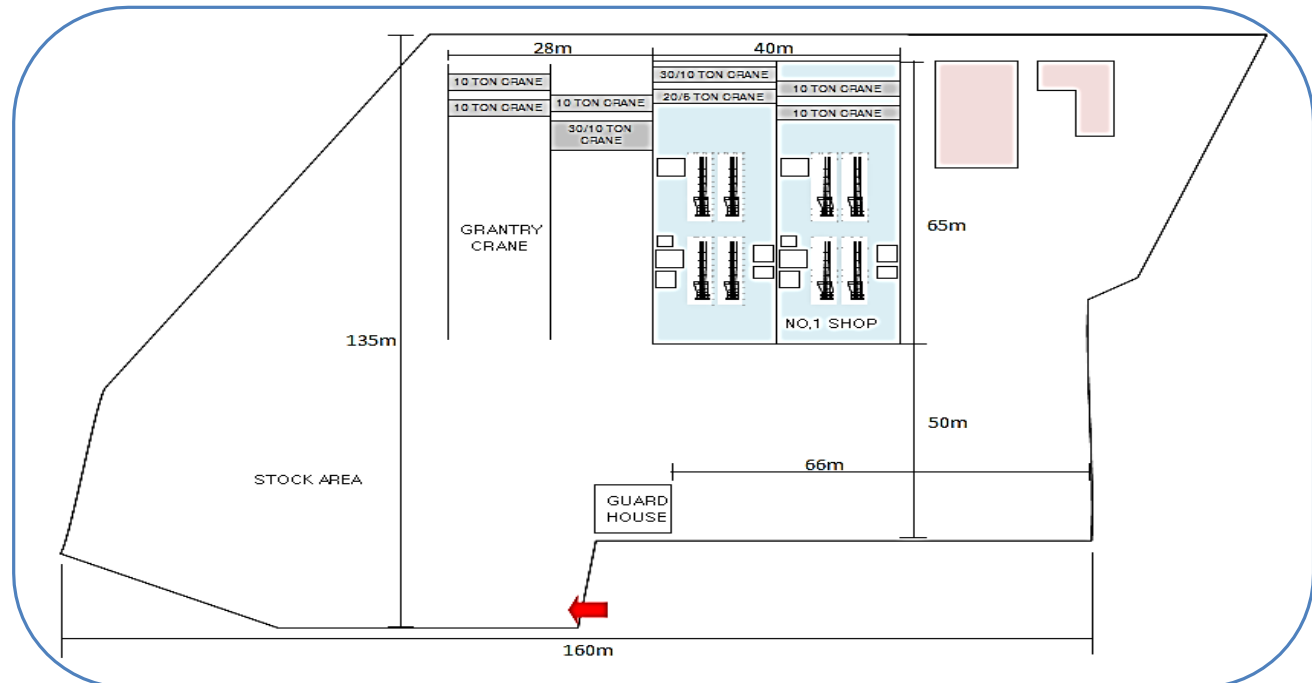


Indoor	3,650m <sup>2</sup>
Outdoor	32,580m <sup>2</sup>
<b>Total</b>	<b>36,230m<sup>2</sup></b>

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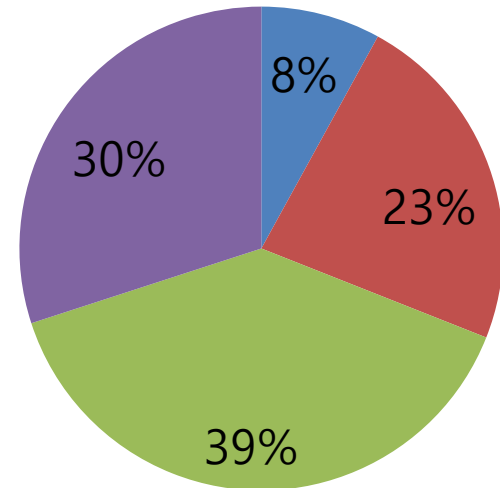




## Manpower List

UBEC Inc.	
Design & Engineer	30
Production & Processing	60
Quality Control	30
Business & Executive	30
Worker	500
<b>Total</b>	<b>650</b>

## CAREER



- 3 > Y
- 3 ≤ Y < 10
- 10 ≤ Y < 20
- 20 ≤ Y

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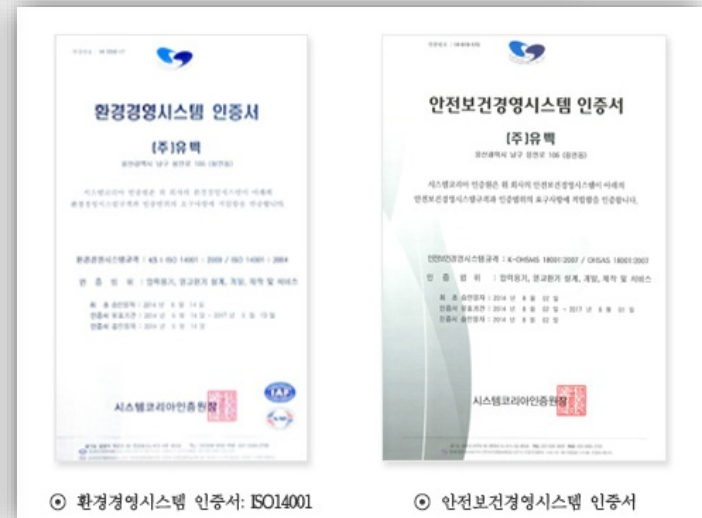


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## Certificates


Certified	Certificate No.	Expiration
High-pressure gas safety Control Act of Korea	-	Acquisition : Jan.03,2007
National Board "R"	R-8959	Feb. 2019
National Board "S, U"		Feb. 2019
ASME "S" STAMP	36409	Feb. 2019
ASME "U" STAMP	36410	Feb. 2019
ISO 9001 : 2015	10045172	Dec. 2020
KS I ISO 14001:2009 & ISO 14001:2004	14-2350-17	Sep. 2018
OHSAS 18001:2007	15-065-17,28S	Oct. 2018
KOSHA 18001	1813	Oct. 2018

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◎ Quality Management System Certificate : ISO 45001


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◎ Registration Certificate of Business Proprietor




◎ Registration Certificate of Plant




◎ Machinery Facility Construction




◎ Steel Structure Construction




◎ Heavy Wall Construction




◎ Paint Construction



◎ Gas Facilities Construction



◎ Civil Construction



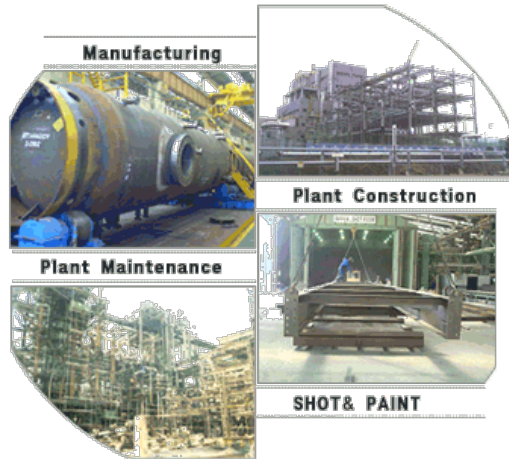
◎ Scaffolding, construction demolition construction

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## Plant Fabrication

Heat Exchanger  
 Pressure Vessel & Tank  
 Feedwater Heater  
 Tower  
 Reactor  
 Heavy Wall Piping  
 Waste Heat Recovery System

**Production Capacity 15,000 ton / year**

## Plant Construction

Power Piping Fab' & Installation

**Production Capacity 3,200 spool/year**

Steel Structure Fab' & Installation

**Production Capacity 20,000 ton / year**

## Plant Maintenance

Electric Pole

**Production Capacity 12,000 ton/year**

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Heat Exchanger (Condenser)



Heat Exchanger (Recuperator)



Heat Exchanger (Vaporizer)



## Plant Fabrication

Heat Exchanger (Preheater)



Pressure Vessel Work



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## Plant Construction

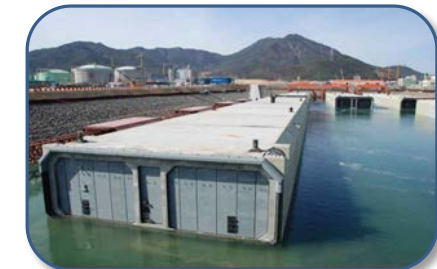
### U/G Piping Work



### Equipment Installation



### Sub Sea Tunnel Work



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## Plant Construction

### Ball Tank Work



### CRT & FRT Work



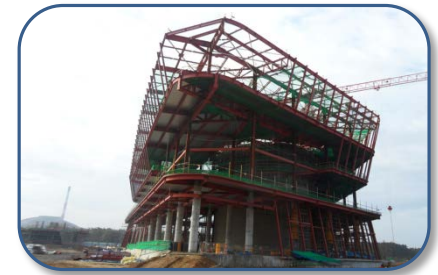
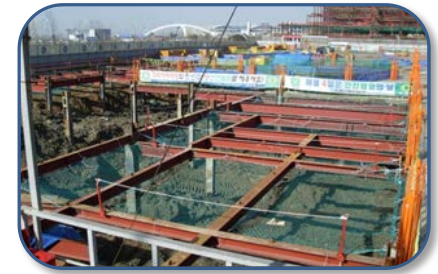
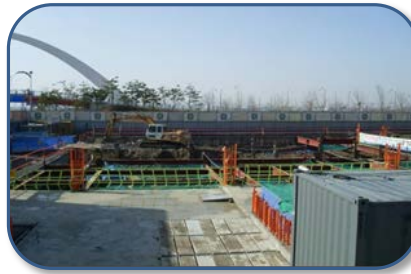
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### Nuclear Power Plant Work



### Building Structure Work



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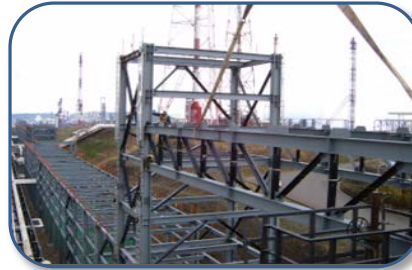
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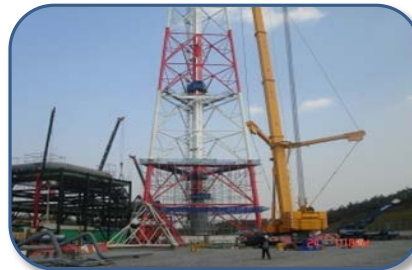
### Equipment Installation



### Pipe Rack Work



### Flare Stack Work



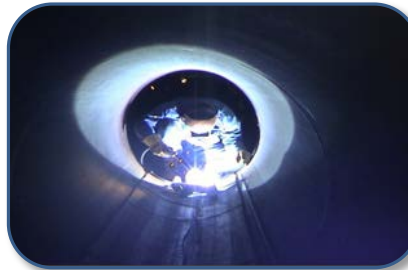
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Submarine Pipe Pigging Work



Submarine Pipe Inspection & Repair Work



Buoy & Hose Repair Work





## Plant Maintenance

Exchanger Maintenance Work



Tower & Drum Maintenance Work



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### Piping Maintenance Work



### Reactor Maintenance Work



### Others Maintenance Work





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## Major Clients





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## 1. Machinery & Piping Work

No	Project	Work Period	Client	Capacity
1	Mechanical / Piping for G1 Project(OSBL)	21.03 ~ 22.04	Lotte&GS Chemical / Lotte	Mechanical: 43 Set, Piping: 69,718 D/I
2	UG Piping for Lotte INEOS Chemical C+D	21.07 ~ 22.10	Lotte INEOS Chemical / Lotte	Piping : 7,222 D/I
3	Mechanical / Piping Sejong Plant 2nd Expansion(M3)	21.08 ~ 22.05	SK Biotech / SK E&C	Piping: 73,509 D/I
4	Vaccum Tower Modification	21.05 ~ 21.12	SK Lubricants	Tower Modification : 1 Set
5	2020 Sejong Factory Migration 1st Relocation	20.03 ~ 20.07	SK Biotech / SK E&C	Mechanical: 14Set Piping: 1,150 D/I
6	2020 Sejong Factory Migration 2nd Relocation	20.05 ~ 20.11	SK Biotech / SK E&C	Mechanical: 106Set Piping: 14,300 D/I
7	[2020 September T&I] Replacement for HC Hot Separator Vapor Air Cooler (E-20107) Tube Bundle	20.08 ~ 20.12	S-Oil	AFC Replace:15Sets, Tower Internal:1Set
8	Revamp for LC Piping & Mammering for ARU/SWS Process	20.08 ~ 21.02	S-Oil	
9	UG Piping / Civil (IBL) for Icheon Smart Energy Center	20.10 ~ 22.08	SK Hynix / SK E&C	Piping(UG):13,542 D/I
10	Improvement for Waste Water Facility at Crude oil Storage Area	20.02 ~ 20.12	SK Energy	Mechanical : 2Set, Piping : 4,352 D/I
11	#2 PP Debottlenecking	20.06 ~ 20.12	SK Chemical	Mechanical : 2Set, Piping : 15,345 D/I
12	Ulsan CLX Directly Introduced LNG Supply Facility 2HP & Comprehensive Power	19.08 ~ 20.03	SKEC(SKE)	Piping : 16,962 d/I Equip : 1 SET
13	LLDPE DTA Vaporizer SCR installation	19.07 ~ 19.12	SK global chemical	Piping : 1,680 d/I Equip' : 2 SET
14	13 projects including replacement of No.2 ARU process P3201A, B Pump	19.03 ~ 19.09	SK energy	Piping : 3,269 d/I Equip : 11 SET
15	2020 HDO BTX Revamping (PKG-4 BTX)	19.09 ~ 20.10	HDEC (Hyundai oilbank)	Piping : 85,497 d/I Equip : 92 SET
16	KNCE Step 1 EPC Project (Equip', Piping, etc.)	19.09 ~ 20.02	SKEC (korea NexInen)	Piping : 16,388 d/I Equip : 722 TON
17	[CDC Project] Inorganic catalyst area package piping manufacturing, supply, installation	19.07 ~ 19.10	Him-tech (LG Chemical)	Piping : 8,741 d/i
18	S-Project Tower Internal Installation	19.06 ~ 20.02	SKEC (SK energy)	Equip : 37 SET
19	SKE H2 Project C3 Supply Piping Installation (Section E)	19.04 ~ 19.12	SK GAS	Piping (U/G) : 1,524 d/i

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20	HDO REVAMPING PROJECT (18 RVMP machine piping construction OFF-Site)	18.04 ~ 18.12	Hyundai OIL Bank	Stl/Str : 223 ton, Piping : 48,123 d/i
21	HDO Revamping Project RDS Phase II 3 other machines and Piping	18.03 ~ 18.11	Hyundai OIL Bank	Equip : 650 ton, Piping : 37,140 d/i
22	LG Chemical SILO Piping / Stl/structure	17.09 ~ 17.12	LG Chemical	Piping : 798 d/i , Stl/Str : 55.7 ton
23	ULSAN2-A PVC Separator (V-650a~d) & Five others	17.07 ~ 17.11	Hanhwa Chemical	Equip : 11.8 ton
24	Skhynix M15 Project HVAC 04	17.10 ~ 18.09	Skhynix	Pipe : 59,708 d/i , Duct : 32,693 m <sup>2</sup> Stl/Str : 475 ton , Insul : 46,699 m
25	Polymer Factory 1BL Replacement of LLDPE Old Fire Fighting Pipe	17.08 ~ 17.11	SK energy	Piping : 9,767 d/i , Demolition : 1 L/S
26	LG Chemical Daesan POE Expansion Project	17.06 ~ 18.07	LG Chemical	Piping : 122,600 d/i , Equip : 124 ton
27	Skhynix M14 ph-2 Project HVAC공사 4 (2B)	17.05 ~ 17.11	Skhynix	Pipe : 58,023 d/i , Duct : 34,969 m <sup>2</sup> Stl/Str : 531 ton , Insul : 9,686 m
28	NAC LP Abs BTM Pump, Capacity Increase Work	17.04 ~ 17.09	SK energy	Piping : 1,756 d/i , Equip : 109 ton
29	NAC Slop Oil Cooler, Capacity Increase Work	17.04 ~ 17.08	SK energy	Piping : 578.5 d/i , Equip : 82.5 ton
30	NCC Cold Section column Instrument Safety Assurance Work	17.03 ~ 17.10	SK energy	Piping : 730 d/i , Scaffold'g : 350m <sup>2</sup>
31	No.1 FCC,debottlenecking	17.03 ~ 17.07	SK energy	Pipe : 11,605 d/i , Equip : 213.6 ton
32	S-Oil RUC Project Incineration Package2	17.02 ~ 18.02	S-Oil	Piping : 40,703 d/i , Equip : 400 ton
33	LIBS #10,11 Project Machinery/Piping work	16.12 ~ 18.04	SK Innovation	Piping : 190,348 d/i , Equip : 2,676 ton
34	Wirye new city construction & piping work (Remainder)	16.10 ~ 17.03	SKEC	Piping : 21,784 d/i
35	Powder Silo Wlakway Install Work	16.10 ~ 16.12	LG Chemical	Piping : 500 d/i
36	EDTA Temporary Piping Work	16.10 ~ 16.12	SKEC/etecenc	Piping : 21,784 d/i
37	T-5 Area 15BL Old Firefighting Piping Replacement	16.10 ~ 16.12	SKEC	Piping : 5,820 d/i
38	Pump Change Work of HAPs	16.09 ~ 16.11	Hanhwa Chemical	Piping : 250 d/i , Equip : 19 set (Pump)
39	NEP EPC Replacement	16.08 ~ 16.12	SKEC	Piping : 4,579 d/i , Stl/Str : 20 ton
40	NEP Revamp Work	16.08 ~ 16.12	SKEC	Piping : 6,122 d/i , Stl/Str : 3.5 ton
41	SK hynix M14 ph-2 Project (#4 HVAC)	16.07 ~ 17.03	SKEC	Pipe : 182,750 d/i , Duct : 22,194 st Stl/Str : 958 ton , Insul : 26,320 m



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42	S-Oil Residue Upgrading Complex Area1,PKG-4 (Equip , Piping)	16.07 ~ 18.02	S-Oil	Piping : 190,348 d/i , Equip : 2,676.5 ton
43	NEP PR Accumulation (5401-F) Replacement Work	16.07 ~ 16.12	SK Chemical	Piping : 1,800 d/i , Stl/Str : 3.5 ton
44	SK hynix M14 ph-2 Project Pre-Work(#5 HVAC)	16.03 ~ 16.12	SKEC	Pipe : 21,395 d/i Stl/Str : 60 ton , Insul : 5,190 m
45	#2 BTX MVR Project	16.03 ~ 16.11	etecenc	Piping : 22,195 d/i , Equip : 437.5 ton
46	64B/L HDPE Firefighting Piping Replacement	15.11 ~ 16.02	SK energy	Piping : 2,400 d/i
47	Skhynix M14 SUPER center additional works Pjt.	15.11 ~ 15.12	SKEC	Pipe : 16,123 m , Duct : 7,418 st Stl/Str : 21 ton ,
48	J Natural Gas Plant COOLING TOWER Piping work	15.10 ~ 16.06	SKEC/etecenc	Piping : 29,810 d/i
49	Casting Diecasting steel structure fabrication & installation work	15.10 ~ 16.01	Korea Zinc	Piping : 2,900 d/i , Stl/Str : 150 ton
50	PVC Slurry Auto Filter installation piping work	15.09 ~ 15.12	LG Chemical	Piping : 500 d/i
51	NBO PJT fixing of defects Piping and Civil work (HBO,NPX001-006)	15.08 ~ 15.12	SKEC	HDPE Piping : 2,010 d/i
52	Nexlene Project seamed pipe of HDPE fixing of defects work	15.08 ~ 15.12	SKEC	HDPE Piping : 3,660 d/i
53	HOU 4B/L underground 1 roads and Z roads Fire tube replacement work	15.08 ~ 15.12	SK energy	HDPE Piping : 1,920 d/i
54	1. Skhynix M14 remodeling works (of the inside) 2. Kitchen equipment installation of Supex Center and	15.08 ~ 15.11	Skhyeng	Pipe : 5,783 m , Duct : 2,161 st Stl/Str : 7 ton ,
55	No.4 CDU Light distillate increase production of Debottlenecking	15.08 ~ 15.10	SKEC	Piping : 9,850 d/i , Stl/Str : 40 ton Equip:180 ton
56	Fort Hills SE Project	15.08 ~ 16.04	SKEC	Piping : 164,420 d/l Support : 387ton
57	No.5 VDU Process for Introduction of UCO	15.01 ~ 15.05	YMAC	Piping : 1,900 d/l, Stl/Str : 3ton
58	HHT Flexibility service work	15.01 ~ 15.04	SK lubricants	Piping : 1,300 d/l, Stl/Str : 2ton
59	Wirye new city construction & piping work	15.06 ~ 17.03	SKEC	Equip : 7,740ton
60	Install the utility Piping & Duct / Zinc powder Expansion	15.05 ~ 15.09	Korea Zinc	Piping : 4,500 d/l, Stl/Str : 30ton, Equip : 22ton, Sup't : 11ton
61	Install the #4 Roasting Equipment & workshop	15.05 ~ 15.09	Korea Zinc	Piping : 4,500 d/l, Stl/Str : 30ton
62	No.1 FCC Cooling Water Maker up Line foundation work	15.02 ~ 15.07	SKEC	Piping : 6,900 d/l
63	SB Metal Plant piping & Anchor Installation work	14.10 ~ 15.02	Korea Zinc	Piping : 925 d/l, Stl/Str : 13.5ton



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64	KNOC Ground Tank demolish work	14.05 ~ 15.08	SKEC	Tank 75,000, BBL : 18Set(14,871ton)
65	M14 PH-1 Project HVAC Construction6	14.05 ~ 15.07	SKEC	Pipe : 128,149m, Duct : 35,031st Stl/Str : 388ton
66	FCCL #2 Project Machinery / Piping work	13.12 ~ 14.09	SKEC	Equipment : 600ton Piping : 90,000d/i
67	V-Project (OBL) Adsorbent Chamber Internal work	13.08 ~ 14.12	SKEC	4set Chamber Internal sleeve loading work
68	New PX Project Tower Internal work	13.07 ~ 14.12	SKEC	6set Tower internal instanation
69	LiBS (OBL) Project Machinery/Piping work	13.04 ~ 14.02	SKEC	Equip : 76 set, Piping : 30,400 d/i
70	No.2 FCC Revamp Project Machinery/Piping work	13.02 ~ 13.10	SKEC	Equip : 700 ton, Piping : 90,000 d/i
71	V-Project (OBL) (Equip / Piping / S.STR work)	13.01 ~ 14.12	SKEC	Equip : 835 ton, Piping : 83,000 d/i
72	New PX Projct IBL (5,6 Block) (Machinery / Piping)	12.11 ~ 14.02	SKEC	Equipment : 3,200 ton Piping : 310,000 d/i
73	LiBS #8,9 Project (Equip't / Piping / facility)	12.11 ~ 13.12	SKEC	Equipment : 2,100 ton Piping : 68,000 d/i
74	VRDS Wash Water Injection Pump Replacement project	12.11 ~ 13.05	SK Energy	Equipment : 2 set Piping : 1,000 d/i
75	#1 Water Air Compressor New construction	12.10 ~ 13.03	Hyundai OIL Bank	Equipment : 10 set Piping : 7,500 d/i
76	HBO Project IBL (Equip / Piping / Steel Structure)	12.08 ~ 13.04	SK Energy	Equipment : 1,740 ton Piping : 88,000 d/i
77	CA Hydrogen boiler auxiliary fuel change piping work	12.08 ~ 12.10	Han Wha Chemical	Piping : 1,000 d/i
78	LiBS #6,7 Project CCS-2 Remodeling (Machinery / Piping)	12.07 ~ 12.12	SKEC	Equipment : 35 set Piping : 6,600 d/i
79	HBO/NBO Project 70B (Piping / Steel Structure)	12.05 ~ 12.06	SKEC	Equipment : 67 set Piping : 56,800 d/i
80	H-Project #3 LBO	11.08 ~ 12.03	SKEC	Equipment : 48 EA Piping : 73,000d/i
81	BSP Project (Equip / Piping)	11.08 ~ 12.03	SKEC	Equipment : 1,600ton Piping : 120,000d/i
82	SK GAS Tank Terminal Work	11.06 ~ 12.06	SKEC	Equip : 500ton, piping :40,300d/i STL/STR : 320ton
83	LiBS #6,7 Line Project (Equip / Piping / facility)	11.06 ~ 12.03	SKEC	Equipment : 600ton Piping : 80,000d/i
84	LiBS Coating Project (Equip / Piping / facility)	11.01 ~ 11.08	SKEC	Equipment : 300ton Piping : 30,000d/i
85	TAC Project (Equip / Piping)	10.12 ~ 12.03	SKEC	Equipment : 1,460ton Piping : 130,000d/i





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86	FCCL Project (Equip / Piping)	10.12 ~ 11.09	SKEC	Equipment : 600ton Piping : 90,000d/i
87	H-Project #2BL	10.12 ~ 11.07	SKEC	Equip & Piping Removal : 200ton piping :15,000d/i
88	NEP LPG CRACKING facilities work	10.07 ~ 10.11	SKEC	Stl/Str : 45ton, Piping : 31,600d/i Equipment : 110ton
89	No.2 plant improvement work	10.06 ~ 10.10	SKEC	Equipment : 60ton Piping : 35,000d/i
90	LIBS #4,5 Line Project	09.07 ~ 10.02	SKEC	Equipment : 500ton Piping : 40,000 d/i
91	SK Unloading crude oil pipeline construction	07.11 ~ 09.01	SKEC	Piping : 27,500 d/i
92	#2 FCC Project RTO Piping Work	07.09 ~ 08.02	SKEC	Piping : 15,000 d/i
93	#2 RTO REVAMP Piping Work	07.04 ~ 07.11	SK Energy	Piping : 30,000d/i
94	Ethylene Storage Tank Revamping Work	07.02 ~ 07.11	SKEC	Piping : 20,000d/i Steal Structure : 300ton
95	#2 FCC Project Piping Work	06.11 ~ 07.12	DaLim	Heavy Wall Piping : 50,000d/i
96	LIBS #2,3 Line Project	06.11 ~ 09.08	SKEC	Equipment : 400ton Piping : 40,000 d/i
97	New Plant Fabrication & Installation	05.03 ~ 05.07	Pan - Asia Metal Co.	Vessel : 24ea, Piping : 48,000d/i
98	SKIT Explosion Recovery Work	05.01 ~ 05.05	SKEC	Heat Insulation, Machinery, Duct, Steel Structure, Piping
99	HOU Reliability (Equip't / Piping / Steel Structure)	04.05 ~ 04.07	SKEC	EQUIP'T : 118ea, Piping : 53,000d/i Steel Structure : 880ton
100	Oil Pipe Line Change Work(12") at Kyung Ju	02.11 ~ 03.01	SK Energy	1,850m
101	NRP Revamp Project	01.07 ~ 02.01	SK Energy	EQUIP'T : 68ea , Piping : 52,000d/i Steel Structure : 850ton
102	Methanol Wharf Piping(14") Fabrication & Installation	00.04 ~ 00.06	Samsung Fine Chemical	Piping : 60,000d/i Steal Structure : 1,100ton
103	Hou UC Area Fire Recovery Work	99.07 ~ 99.09	SK Energy	Heavy Wall Piping : 18,000d/i
104	#1, #2 Buoy Underground Piping Repair Work	98.02 ~ 98.07	SK Energy	Piping : 28,500d/i, Internal Cleaning
105	NEP Revamp Line (Fab./Erec.)	96.03 ~ 97.01	SK Energy	EQUIP'T : 120ea, Piping : 65,000d/i Steel Structure : 500ton
106	W.W.T. Piping (Fab./Erec.)	95.09 ~ 96.03	SKEC	EQUIP'T : 110ea, Piping : 85,000d/i Steel Structure : 1,200ton
107	Cold Roll Shop Modernization	94.11 ~ 95.04	POSCO	EQUIP'T : 60ea, Piping : 28,000d/i Steel Structure : 1,100ton



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108	NAC Process Piping (Fab./Erec.)	93.10 ~ 93.12	SK Energy	EQUIP'T : 68ea , Piping : 53,000d/i Steel Structure : 1,100ton
109	W.W.T. Piping (Fab./Erec.)	92.07 ~ 92.11	SK Energy	EQUIP'T : 120ea, Piping : 75,000d/i Steel Structure : 800ton

## 2. Steel Structure Work

No	Project	Work Period	Client	Capacity
1	Steel Structure / Piping related to NCC, SM,TMS installation	21.03 ~ 21.08	LG Chemical	Str: 86.61 Ton, Piping: 92 D/I
2	Piping for HPEL Sales of Hanwha Total	21.09 ~ 21.12	Lotte Chemical	Str: 6,506 Ton, Piping: 2,550 D/I
3	Daesan O-Project Pilot Project	20.01 ~ 20.06	S&I Coporation	Str:40,100 Ton
4	LG Chem CDC Project Construction Steel Structure Construction	19.01 ~ 19.12	S&I Co. (LG Chemical)	Stl/Str : 2,252 ton
5	S-Oil Residue Upgrading Complex Area2&3, PKG-1 (Steel Structure)	17.06 ~ 18.02	S-Oil	Stl/Str : 2,392 ton
6	S-Oil RUC Project Incineration Package2	17.02 ~ 18.02	S-Oil	Stl/Str : 1,000 ton
7	S-Oil Residue Upgrading Complex Area2,PKG-2 (Steel Structure)	16.04 ~ 18.03	S-Oil	Stl/Str : 4,549 ton
8	HDO New FBC Boiler Project(#10) machine & piping work	15.06 ~ 16.12	Hyundai Heavy Industries	Stl/Str : 3,213 ton
9	Main Rack Frame reinforcement & Installation work (2 Factory)	15.04 ~ 15.09	Korea Zinc	Stl/Str : 74 ton
10	Zinc powder Expansion & Manufacture of Zinc power Installation work	15.04 ~ 15.09	Korea Zinc	Stl/Str 260 : ton
11	Field Erection Stl/Str installation work ( J Natural Gas Plant )	15.03 ~ 15.07	SKEC/etecenc	Stl/Str 1,612 : ton
12	Melting furnace & Slab casting machine Expansion and Installation work (cannery equipment)	14.10 ~ 15.01	Korea Zinc	Stl/Str 104 : ton
13	Slab Melting and Casting Production Expansion (Pipe Rack Installation Work)	14.03 ~ 14.10	Korea Zinc	Stl/Str 214 : ton
14	Constant Plant Expansion and Structure Fab' & Install (Pipe Rack)	14.03 ~ 14.08	Korea Zinc	Stl/Str 342 : ton



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15	Weak Acid Structure Fab' & Install	14.01 ~ 14.09	Korea Zinc	Stl/Str : 391 ton
16	SMP W-1 Project Fabrication Work	12.09 ~ 14.01	SECL	Steel Structure : 1,391ton
17	Nexlene Project Extrude Steel Installation Work	12.10 ~ 14.04	SKEC	Steel Structure : 2,541ton
18	H Project No.3 LBO.OBL	11.08 ~ 12.01	SKEC	Steel Structure : 902ton
19	Seo-Cheon Marine Museum	11.03 ~ 11.12	DSMEC	Steel Structure : 1,404ton
20	BSP PROJECT	11.02 ~ 11.05	SKEC	Steel Structure : 4,270ton
21	Proton Accelerator Center	10.12 ~ 12.08	DaeWoo Eng. & Con.	Steel Structure : 400ton
22	SINGORI Nuclear Power Plant 3,4st Steel Structure Work	10.03 ~ 14.09	Doosan Heavy Inc.	Miscellaneous Steel 4,550 : ton
23	S-Oil ONSAN Refinery Expansion Project	09.05 ~ 10.02	Samsung ENG	Steel Structure : 2,000ton
24	SINWOLSUNG Nuclear Power Plant 1st Steel Structure Work	09.02 ~ 10.12	DaeWoo Eng. & Con.	Miscellaneous Steel 3,960 : ton
25	SINGORI Nuclear Power Plant 1st,2nd SSLP Back-up bar Steel Structure Work	08.08 ~ 10.11	DaeWoo Eng. & Con.	Miscellaneous Steel 310 : ton
26	SINGORI Nuclear Power Plant 1st,2nd Exposure Steel Structure Work	08.05 ~ 11.12	DaeWoo Eng. & Con.	Miscellaneous Steel 3,962 : ton
27	Go-Yang Dragon Plaza construction	08.05 ~ 09.12	Dong-a ENG	Steel Structure : 4,000ton
28	SINWOLSUNG dry density storage facility work/Machanical work	08.02 ~ 10.12	DaeWoo Eng. & Con.	Miscellaneous Steel 1,550 : ton
29	SINWOLSUNG Nuclear Power Plant 1st, 2nd Steel Structure Work	07.03 ~ 10.12	DaeWoo Eng. & Con.	Miscellaneous Steel 2,150 : ton
30	Bulkhead & Ballast Water Tank Fabrication & Installation	07.01 ~ 10.12	DaeWoo Eng. & Con.	Steel Structure : 10,000ton
31	2nd FCC(IBL) RFCC Structure Work	06.10 ~ 08.02	SKEC	Steel Structure : 7,300ton



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### 3. Overseas Project

No	Project	Work Period	Client	Capacity
1	[2017] Dung Quat Refinery 3rd T/A Maintenance (Vietnam)	17.02 ~ 17.08	BSR & Petrochemical	General Work : 205 ea, Equipment work : 63 ea
2	[2014] Dung Quat Refinery 2nd T/A Maintenance (Vietnam)	14.03 ~ 14.06	BSR & Petrochemical	Piping :4,500 d/l, General Work : 3,324 ea,
3	[2011] Dung Quat Refinery 1st T/A Maintenance (Vietnam)	11.06 ~ 11.09	BSR & Petrochemical	T/A Work, Equipment 134ea, Overhaul 236ea, Catalyst 1,022m3
4	[Pertamina] Catalyst Replacement (Indonesia)	08.02 ~ 08.02	Pertamina	262.3m' : 2ea, 133.6m' : 1ea
5	[Pertamina] Catalyst Replacement (Indonesia)	07.05 ~ 07.05	Pertamina	262.3m' : 2ea, 133.6m' : 1ea
6	[Pertamina] Catalyst Replacement (Indonesia)	06.05 ~ 06.05	Pertamina	278m' : 2ea
7	[Formosa] Catalyst Replacement (Taiwan)	06.02 ~ 06.03	Formosa	135m' : 1ea , 340m' : 2ea
8	[Formosa] Catalyst Replacement (Taiwan)	05.06 ~ 05.07	Formosa	135m' : 1ea , 340m' : 2ea
9	[Formosa] Catalyst Replacement (Taiwan)	04.10 ~ 04.10	Formosa	300m' (Only Change)
10	[Formosa] Catalyst Replacement (Taiwan)	03.08 ~ 03.08	Formosa	135m' : 1ea , 340m' : 2ea



#### 4. Nuclear Power Plant Work

No	Project	Work Period	Client	Capacity
1	SINGORI Nuclear Power Plant 3,4st Steel Structure Work	10.03 ~ 14.09	Doosan Heavy Inc.	
2	SINWOLSUNG Nuclear Power Plant 1st, 2nd Steel Structure Work(Exposure)	08.05 ~ 11.12	DaeWoo Eng. & Con.	
3	SINWOLSUNG Nuclear Power Plant 1st, 2nd Steel Structure Work(Underworld)	09.02 ~ 10.12	DaeWoo Eng. & Con.	
4	SINWOLSUNG Nuclear Power Plant 1st, 2nd SSLP Back-up Bar Work	08.08 ~ 10.11	DaeWoo Eng. & Con.	
5	SINWOLSUNG Nuclear Power Plant 1st, 2nd Piping Work	08.02 ~ 10.12	DaeWoo Eng. & Con.	
6	SINWOLSUNG Nuclear Power Plant 1st, 2nd Steel Structure Work(Underworld)	07.03 ~ 10.05	DaeWoo Eng. & Con.	

#### 5. Catalyst Work

No	Project	Work Period	Client	Capacity
1	2022 #1VRDS Reactor Catalyst Replacement	21.10 ~ 22.06	SK Energy	VRDS Reactor : 8 Set
2	2022 #2VRDS Reactor Catalyst Replacement	21.10 ~ 22.11	SK Energy	VRDS Reactor : 8 Set
3	2022 #1RHDS Reactor Catalyst Replacement	21.10 ~ 22.08	SK Energy	RHDS Reactor : 8 Set
4	2022 #1RHDS Reactor Catalyst Replacement	21.10 ~ 22.11	SK Energy	RHDS Reactor : 8 Set
5	2020 HDO Catalyst Replacement Unit Pice Contract	20.01 ~ 21.12	Hyundai Oil Bank	VRDS Reactor: 10 Set (module 1&2) NHT Reactor: 4 Set CHT Reactor: 1 Set
6	2021 #1VRDS Reactor Catalyst Replacement	20.09 ~ 21.06	SK Energy	VRDS Reactor : 8 Set
7	2021 #2VRDS Reactor Catalyst Replacement	20.09 ~ 21.06	SK Energy	VRDS Reactor : 8 Set
8	2021 #1RHDS Reactor Catalyst Replacement	20.09 ~ 21.08	SK Energy	RHDS Reactor : 8 Set
9	2021 #1RHDS Reactor Catalyst Replacement	20.09 ~ 21.11	SK Energy	RHDS Reactor : 8 Set
10	No.2 FCC RHDS Reactor Regular Maintenance Work for 2020	19.07 ~ 12.30	SK Energy	Total Volume: 3,050 m3
11	No.1 FCC RHDS Reactor Regular Maintenance Work for 2020	19.07 ~ 12.31	SK Energy	Total Volume: 2,312 m3
12	HOU VRDS Reactor Regular Maintenance Work for 2020	19.07 ~ 20.05	SK Energy	Total Volume: 1,566 m3

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13	SKIPC 2019 T / A Reactor catalyst work	19.09 ~ 19.12	SKEC (SKIPC)	Total Volume: 730 m3
14	2017 NAC (No.2 BTX) Process T/A Work	17.03 ~ 17.08	SK Energy	Total Volume: 422 m3 -5ea
15	2017 HOU VRDS Reactor Catalyst change work	17.02 ~ 17.05	SK Energy	Total Volume: 1,510 m3 - 8ea
16	No.2 FCC Reactor	16.07 ~ 16.12	SK Energy	Total Volume: 3,074 m3 -8ea
17	Catalyst Work for ARDS Reactor (Module 2)	16.10 ~ 16.11	Hyundai OIL Bank	Total Volume: 1,300 m3 -5ea
18	2016 HOU VRDS Reactor Catalyst change work	16.02 ~ 16.05	SK Energy	Total Volume: 1,300 m3 - 5ea
19	No.2 FCC Reactor	15.08 ~ 15.12	SK Energy	Total Volume: 3,074 m3 -8ea
20	2015 HOU VRDS Reactor Catalyst change work	15.01 ~ 15.05	SK Energy	Total Volume: 1,510 m3 - 8ea
21	No.2 FCC TA RHDS	14.08 ~ 14.12	SK Energy	Total Volume: 3,074 m3 -8ea
22	HOU VRDS RX	14.02 ~ 14.07	SK Energy	Total Volume: 1,510 m3 - 8ea
23	No.2 FCC TA RHDS	13.06 ~ 13.08	SK Energy	Total Volume: 3,074 m3 -8ea
24	No.1 FCC 5101B Reactor	13.06 ~ 13.07	SK Energy	Total Volume: 240 m3 - 1ea
25	HCR1 Team HCR/BOP Catalyst Work	13.03 ~ 13.04	GS Caltex	Total Volume: 733 m3 - 5ea
26	HOU VRDS RX	12.02 ~ 12.03	SK Energy	Total Volume: 1,510 m3 - 8ea
27	#2 FCC RX	12.08 ~ 12.10	SK Energy	Total Volume: 3,074 m3 -8ea
28	#1 FCC RHDS RX	11.03 ~ 11.06	SK Energy	Total Volume: 2,310 m3 - 8ea
29	HOU VRDS RX	11.03 ~ 11.04	SK Energy	Total Volume: 1,510 m3 - 8ea
30	HDO #1 T/A MR1901/1902	11.02 ~ 11.04	Hyundai Oil Bank	Total Volume: 180 m3 - 2ea
31	HDO #2 HOU	10.12 ~ 11.03	Hyundai Oil Bank	Total Volume: 220 m3 - 2ea
32	HOU VRDS RX	10.03 ~ 10.04	SK Energy	Total Volume: 1,510 m3 - 8ea



33	#1 FCC RHDS RX	10.05 ~ 10.06	SK Energy	Total Volume: 2,310 m3 - 8ea
34	HOU VRDS RX	10.03 ~ 10.04	SK Energy	Total Volume: 1,510 m3 - 8ea
35	NRP #3PF RX	09.12 ~ 10.01	SK Energy	Total Volume: 180 m3 - 1ea
36	#1 FCC RHDS RX	09.04 ~ 09.06	SK Energy	Total Volume: 2,310 m3 - 8ea
37	FCC RHDS RX	08.05 ~ 08.07	SK Energy	Total Volume: 2,310 m3 - 8ea
38	FCC RHDS RX	07.07 ~ 07.08	SK Energy	Total Volume: 2,310 m3 - 8ea
39	HOU VRDS REACTOR	06.04 ~ 08.05	SK Energy	Total Volume: 1,510 m3 - 8ea

#### 6. Tank Work

No	Project	Work Period	Client	Capacity
1	Mechanical Work C for Icheon Smart Energy Center	21.04 ~ 22.08	SK Hynix / SK E&C	Tank : 520.4 Ton
2	7801-FB Tank Maintenance for legal opening	21.03 ~ 21.12	SK Energy	Tank: 1 Set
3	Y-T244 Tank Maintenance for legal opening	21.05 ~ 21.12	SK Energy	Tank: 1 Set
4	Y-T191 Tank Maintenance for Legal Opening	20.05 ~ 21.04	SK Energy	Tank: 1 Set
5	Y-T333 Benzene-containing Tank Air Release Improvement	19.12 ~ 20.05	SK Energy	Tank 1set
6	Y-T170 Tank Maintenance Work	17.04 ~ 17.12	SK Energy	Tank 1ea (more than 500,000 BBL)
7	POE Project Field Storage Tank Installation	16.12 ~ 18.07	LG Chemical	Tank 8ea (more than 3,373 BBL)
8	Y-T120 Tank Replacement of Bottom Plate & Heating Coil	16.08 ~ 16.12	SK Energy	Tank 1ea (more than 200,000 BBL)
9	LG Chemical Synthetic Rubber Plant AN Tank Construction Work	16.06 ~ 16.11	LG Chemical	Tank 215 ton , Piping : 6,319 d/I
10	Field Erection Tank installation work ( J Natural Gas Plant )	15.03 ~ 16.03	SKEC/etecenc	Tank (more than 305,000 BBL)
11	Y-T249 Tank Facilities Complement Work	14.09 ~ 14.12	SK Energy	Tank 1ea (more than 500,000 BBL)
12	ULSAN branch Area Ground Tank Demolition Work	14.07 ~ 15.05	SKEC	Tank 18ea (more than 13,500,000 BBL)

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13	V-Project P6 Area Tank Demolition & Installation Work	13.12 ~ 14.04	SKEC	Tank 4ea (more than 35,000 BBL)
14	MF B5376 HSBC Tank Roof Crach Recovery Work	12.06 ~ 12.09	Hyundai Oil Bank	Tank 1ea (more than 50,000 BBL)
15	SK Gas Tank Terminal Project	11.06 ~ 12.06	SK GAS	Tank 16ea (more than 20,000BBL)
16	Y-T7653 A/B Ball Tank fabrication and installation work	07.03 ~ 07.08	HHI	Tank 2ea (more than 20,000BBL)
17	Propylene/Raw-C4 Storage Tank Expansion work	06.08 ~ 06.12	SKEC	
18	Y-T150 Tank Roof Replacement Work (FRT)	06.02 ~ 06.05	SKEC	Tank 1ea (more than 500,000BBL)
19	Y-T1607 BALL Tank fabrication and installation work	05.10 ~ 06.10	SK Energy	Tank 1ea (more than 36,000BBL)
20	High Ethy Benzene, Xylene Tank Fab' & Erec' Work	05.06 ~ 05.08	Pan - Asia Metal Co.	Tank 10ea (more than 20,000BBL)
21	2nd OBL Tank Fab' & Erec' (Off Site)	03.01 ~ 03.09	SKEC	Tank 6ea (more than 50,000BBL)
22	Chihuahua / Condensate / Polett Tank Fabrication	02.01 ~ 03.03	JNK Heaters	Tank : 2,100ton
23	Jung-IL & Ulsan Tank Terminal Fabrication & Erection Work	01.07 ~ 01.10	Jung-IL	Tank 40ea (more than 50,000BBL)
24	PX Tank Fab' & Erec' Work (Tea-Young Industry)	94.06 ~ 95.10	Korea Petrochemical	Tank 18ea(more than 50,000BBL)
25	Molten Lactan Tank Fab' & Erec' Work	92.12 ~ 93.02	Dong Yang Nylon	Tank 12ea(more than 50,000BBL)

### 7. Maintenance Work

No	Project	Work Period	Client	Capacity
1	2021 T&I Maintenance (PKG-1)	21.01 ~ 21.12	S-Oil	Piping: 691 D/I, Tower&Drum: 45 Set,
2	2021 #1,2 LBO TA Maintenance(Preparation)	21.01 ~ 21.05	SK Lubricants	Piping: 2,427 D/I, General: 1,192Pts,





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3	2021 #1,2 LBO TA Maintenance(Preparation)	21.01 ~ 21.05	SK Lubricants	Piping: 2,427 D/I, General: 1,192Pts, H.Ex: 17 Set, AFC: 3 Set,
4	2021 NAC #1PX, #1,2HNH TA Maintenance	21.03 ~ 21.06	SK Chemical	Piping: 5,020 D/I, General: 1,593Pts, H.Ex: 55 Set, AFC: 8 Set,
5	2021 #2FCC(#2RHDS&6SRP) TA Maintenance_Static Equipment	21.10 ~ 21.12	SK Energy	Piping: 4,261 D/I, General: 2,523 Pts,
6	2021 #2FCC(#2RHDS&6SRP) TA Maintenance_Piping	21.10 ~ 21.12	SK Energy	Piping: 3,815 D/I, General: 2,698 Pts,
7	[2020 June T&I] #2 RFCC Maintenance(PKG-1)	20.04 ~ 20.12	S-Oil	RxRg & FG TU : 16 Sets Tower / Drum : 70 Sets
8	[2020 June T&I] #2 RFCC DFR 2nd Modification	20.05 ~ 20.09	S-Oil	RFCC Reactor Modificaiton
9	2020 HOU TA Maintenance(Preparation)	20.01 ~ 20.04	SK Energy	Piping: 4,309 D/I, General: 1,333 Pts, Tower&Drum: 39Set, H.Ex: 24
10	2020 #1FCC TA Maintenance	20.03 ~ 20.07	SK Energy	RHDS Reactor: 8Set
11	2020 #1FCC TA Maintenance	20.03 ~ 21.02	SK Energy	
12	2020 #2FCC TA Maintenance	20.08 ~ 20.12	SK Energy	Piping: 4,095 D/I, General: 3,253 Pts, Tower&Drum: 47Set, H.Ex: 32
13	No.2 FCC Production 1Unit Regular Maintenance Equipment / Piping	19.10 ~ 19.12	SK Energy	Piping : 6,456 d/I, T/Drum : 32ea H.EX : 46 ea, etc.
14	2020 HDO T/A Fixture and Piping Maintenance Work	19.11 ~ 20.07	Hyundai oilbank	H.EX : 181EA, AFC : 58EA Tower : 19EA, Vessel : 113EA, etc.
15	2019 T/A D-EG / AS / GE / EOA General Piping Construction	19.08 ~ 19.12	Lotte Chemical	Piping : 2,112 d/I, Strainer, PSV, etc.
16	2019 T/A D-NC General Piping Construction	19.08 ~ 19.12	Lotte Chemical	Piping : 384 Point, Strainer, PSV, etc.
17	S-Oil 2019 May #2RFCC T&I Maintenance Work	19.04 ~ 19.12	S-Oil	RxRg, FG TU : 16EA, T/D : 10EA H.EX : 10EA, AFC : 6EA, etc.
18	[19 TA_Pipe] LD / EVA High Pressure Pipe Generalization Work (PKG 30)	19.01 ~ 19.05	LG Chemical	Piping : 150d/I, etc.
19	2018 NRP Plant T/A Maintenance (Piping & Static Equipment)	18.01 ~ 18.07	SK Energy	H.EX : 167ea, T/D : 87ea, Reactor : 6ea, General : 3,638ea
20	No.3 LBO Process Replacement of Fitting for HDPE Fire Fighting Pipe	17.09 ~ 17.12	SK Energy	Piping : 3,421 d/i , Demolition : 1 L/S
21	2017 No.2 FCC T/A Maintenance Work	17.08 ~ 17.12	SK Energy	H.EX : 135ea, Tower/Drum & others : 117ea, Piping : 4,750 d/i
22	S-Oil September T/A Maintenance Work	17.08 ~ 17.12	S-Oil	H.EX : 30ea, Tower/Drum & others : 164ea, Blind : 312ea
23	2017 NAC (No.2 BTX) Process T/A Work	17.03 ~ 17.08	SK Energy	H.EX : 135ea , Tower/Drum : 64ea Piping : 8,688 d/i
24	#2 FCC T/A Preparation Work	16.07 ~ 16.12	SK Energy	H.EX : 37ea , Tower/Drum : 25ea Piping : 2,940 d/i



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25	[Sk Biok] New PX Project Isomar Reactor Internal Install Inspection	14.03 ~ 14.06	Skbiok	H.EX : 30ea, Tower/Drum : 38ea, Piping : 28,000 d/I
26	[SK Energy] HOU VRDS T/A Maintenance	14.02 ~ 14.07	SK Energy	H.EX : 40ea, Tower/Drum : 30ea, Piping : 38,000 d/I
27	[S-Oil] R2R, RxRg, FGC T/A	13.06 ~ 13.08	S-Oil	H.EX : 44ea, Tower/Drum : 46ea, Piping : 23,000 d/I
28	[S-Oil] S-Oil Equip'tment Maintenance	13.06 ~ 13.08	S-Oil	H.EX : 50ea, Tower/Drum : 47ea, Piping : 25,000 d/I
29	[S-Oil] S-Oil R2R RxRg Repair T/A	13.06 ~ 13.08	S-Oil	H.EX : 55ea, Tower/Drum : 49ea, Piping : 32,000 d/I
30	[SK Energy ] #2 FCC SRP Area T/A	13.06 ~ 13.08	SK Energy	H.EX : 40ea, Tower/Drum : 43ea, Piping : 21,000 d/I
31	[S-Oil] S-Oil U-2500 T/A Equip'tment Maintenance	13.04 ~ 13.08	S-Oil	H.EX : 48ea, Tower/Drum : 40ea, Piping : 21,000 d/I
32	[S-Oil] S-Oil T/A RTS (#2 Aro)	13.03 ~ 13.06	S-Oil	H.EX : 49ea , Tower/Drum : 48ea, Piping : 20,000 d/I
33	[SK Energy ] #2 CDU T/A Maintenance	13.03 ~ 13.04	SK Energy	H.EX : 44ea , Tower/Drum : 41ea, Piping : 26,000 d/I
34	[S-Oil] S-Oil Equip'tment T/A Maintenance	13.02 ~ 13.05	S-Oil	H.EX : 34ea , Tower/Drum : 40ea, Piping : 26,000 d/I
35	[Han Wha Chemical] Hanwha Chemical Ulsan.1 T/A Equip'tment Repair	12.09 ~ 12.10	Han Wha Chemical	H.EX : 46ea , Tower/Drum : 41ea, Piping : 23,000 d/I
36	[S-Oil] Equip'tment Maintenance	12.08 ~ 12.10	S-Oil	H.EX : 49ea , Tower/Drum : 32ea, Piping : 22,000 d/I
37	[S-Oil] #3 HMP & PH-1 SRU T&I Maintenance	12.04 ~ 12.07	S-Oil	H.EX : 11ea , Tower/Drum : 20ea, Piping : 6,000 d/I
38	[SK Energy] 2012 HOU T/A Maintenance	12.02 ~ 12.03	SK Energy	H.EX : 32ea , Tower/Drum : 39ea, Piping : 10,000 d/I
39	[SK Energy] 2012 #1,2 LBO T/A Maintenance	12.02 ~ 12.03	SK Energy	H.EX : 68ea , Tower/Drum : 55ea, Piping : 40,000 d/I
40	[S-Oil] 2011 S-Oil T/A #3,4 Maintenance Work	11.07 ~ 11.09	S-Oil	H.EX : 30ea , Tower/Drum : 21ea, Piping : 16,000 d/I
41	[SK Energy] #2 FCC T/A	11.07 ~ 11.08	SK Energy	H.EX : 46ea , Tower/Drum : 48ea, Piping : 28,000 d/I
42	[SK Energy] #1 FCC T/A	11.03 ~ 11.06	SK Energy	H.EX : 51ea , Tower/Drum : 40ea, Piping : 32,000 d/I
43	[SK Energy] HOU T/A Reactor Maintenance Work	11.02 ~ 11.04	SK Energy	H.EX : 56ea , Tower/Drum : 57ea, Piping : 30,000 d/I
44	[SK Energy] NEP #2 EU T/A	10.08 ~ 10.12	SK Energy	H.EX : 62ea , Tower/Drum : 40ea, Piping : 12,000 d/I
45	[SK Energy] #2 FCC T/A	10.05 ~ 10.07	SK Energy	H.EX : 20ea , Tower/Drum : 16ea, Piping : 3,500 d/I



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26	HOU VRDS T/A Work	14.02 ~ 14.07	SK Energy	H.EX : 40ea, Tower/Drum : 30ea, Piping : 38,000 d/l
27	S-Oil R2R RxRg FGC T/A	13.06 ~ 13.08	S-Oil	H.EX : 44ea, Tower/Drum : 46ea, Piping : 23,000 d/l
28	S-Oil Equipment Maintenance	13.06 ~ 13.08	S-Oil	H.EX : 50ea, Tower/Drum : 47ea, Piping : 25,000 d/l
29	S-Oil R2R RxRg Repair T/A	13.06 ~ 13.08	S-Oil	H.EX : 55ea, Tower/Drum : 49ea, Piping : 32,000 d/l
30	No.2 FCC SRP Area T/A	13.06 ~ 13.08	SK Energy	H.EX : 40ea, Tower/Drum : 43ea, Piping : 21,000 d/l
31	S-Oil U-2500 T/A Equipment Maintenance	13.04 ~ 13.08	S-Oil	H.EX : 48ea, Tower/Drum : 40ea, Piping : 21,000 d/l
32	S-Oil T/A RTS (#2 Aro)	13.03 ~ 13.06	S-Oil	H.EX : 49ea , Tower/Drum : 48ea, Piping : 20,000 d/l
33	No.2 CDU T/A	13.03 ~ 13.04	SK Energy	H.EX : 44ea , Tower/Drum : 41ea, Piping : 26,000 d/l
34	S-Oil Equipment Maintenance	13.02 ~ 13.05	S-Oil	H.EX : 34ea , Tower/Drum : 40ea, Piping : 26,000 d/l
35	Hanwha Chemical Ulsan.1 T/A Equipment Repair	12.09 ~ 12.10	Han Wha Chemical	H.EX : 46ea , Tower/Drum : 41ea, Piping : 23,000 d/l
36	S-Oil Equipment Maintenance	12.08 ~ 12.10	S-Oil	H.EX : 49ea , Tower/Drum : 32ea, Piping : 22,000 d/l
37	S-Oil Equipment Maintenance (#3 HMP & PH-1 SRU)	12.04 ~ 12.07	S-Oil	H.EX : 11ea , Tower/Drum : 20ea, Piping : 6,000 d/l
38	2012 HU T/A 4BL Fixed Device / Piping Work	12.02 ~ 12.03	SK Energy	H.EX : 32ea , Tower/Drum : 39ea, Piping : 10,000 d/l
39	2012 #1,2 LBO T/A Work	12.02 ~ 12.03	SK Energy	H.EX : 68ea , Tower/Drum : 55ea, Piping : 40,000 d/l
40	2011 S-Oil T/A #3,4 Maintenance Work	11.07 ~ 11.09	S-Oil	H.EX : 30ea , Tower/Drum : 21ea, Piping : 16,000 d/l
41	#2 FCC T/A	11.07 ~ 11.08	SK Energy	H.EX : 46ea , Tower/Drum : 48ea, Piping : 28,000 d/l
42	#1 FCC T/A	11.03 ~ 11.06	SK Energy	H.EX : 51ea , Tower/Drum : 40ea, Piping : 32,000 d/l
43	HOU T/A Reactor Maintenance Work	11.02 ~ 11.04	SK Energy	H.EX : 56ea , Tower/Drum : 57ea, Piping : 30,000 d/l
44	NEP #2 EU T/A	10.08 ~ 10.12	SK Energy	H.EX : 62ea , Tower/Drum : 40ea, Piping : 12,000 d/l
45	#2 FCC T/A	10.05 ~ 10.07	SK Energy	H.EX : 20ea , Tower/Drum : 16ea, Piping : 3,500 d/l
46	#1 FCC T/A	10.04 ~ 10.06	SK Energy	H.EX : 22ea , Tower/Drum : 18ea, Piping : 7,000 d/l



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47	HOU T/A	10.03 ~ 10.04	SK Energy	H.EX : 11ea , Tower/Drum : 14ea, Piping : 8,000 d/l
48	NAC T/A #2 BTX Piping / Fixed device Maintenance	09.07 ~ 09.12	SK Energy	H.EX : 141ea , Tower/Drum : 50ea, Piping : 5,094 d/l
49	#2 FCC T/A #6 SRP Process Regular Maintenance Work	09.05 ~ 09.07	SK Energy	H.EX : 28ea , Tower/Drum : 20ea, Piping : 5,000 d/l
50	#1 FCC RHDS Equipment Reactor Piping T/A	09.04 ~ 09.06	SK Energy	H.EX : 20ea , Tower/Drum : 15ea, Piping : 30,000 d/l
51	HOU T/A 7BL / VRDS	09.02 ~ 09.05	SK Energy	H.EX : 34ea , Tower/Drum : 28ea, Piping : 20,000 d/l
52	#1 BTX T/A	08.05 ~ 08.06	SK Energy	H.EX : 28ea , Tower/Drum : 18ea, Piping : 8,000 d/l
53	RHDS / SAR Fixed Device T/A	08.04 ~ 08.09	SK Energy	H.EX : 28ea , Tower/Drum : 20ea, Piping : 15,000 d/l
54	SK CLUDE OIL Unloading SYS_Commissioning	08.03 ~ 08.04	Hyundai Heavy Industry	H.EX : 32ea , Tower/Drum : 16ea, Piping : 20,000 d/l
55	#1BTX T/A WORK	07.09 ~ 07.10	SK Energy	H.EX : 45ea , Tower/Drum : 55ea, Piping : 34,000 d/l
56	RTS T/A WORK	07.09 ~ 07.10	S-OIL	H.EX : 28ea , Tower/Drum : 32ea, Piping : 25,000 d/l
57	H-11101 T/A WORK	07.09 ~ 07.10	S-OIL	H.EX : 44ea , Tower/Drum : 50ea, Piping : 37,000 d/l
58	FCC T/A Work	07.06 ~ 07.08	SK Energy	Equipment : 40ea Piping : 3,000d/i
59	HOU T/A Work	07.03 ~ 07.05	SK Energy	Exchanger : 30ea, Equipment : 30ea
60	NEP T/A Work	06.07 ~ 06.09	SK Energy	Piping : 20,000d/i Exchanger : 62ea , T/D : 54ea
61	HOU T/A Work	05.03 ~ 05.05	SK Energy	Exchanger : 50ea, Equipment : 86ea
62	NRP T/A Work	04.06 ~ 04.08	SK Energy	Piping : 38,500d/i Equipment : 186ea , Heater : 8ea
63	NCC #1 EU T/A Work	03.05 ~ 03.07	SK Energy	Exchanger : 65ea, Piping : 16,000d/i
64	#4 SRP Piping Shut Down Work	02.08 ~ 02.09	SK Energy	Piping : 26,000d/i
65	#2BTX TWR / Drum / HTR T/A WORK	01.05 ~ 01.06	SK Energy	T/D : 36ea , Heater : 5ea
66	#2 CDU T/A Work	2000	SK Energy	Equipment : 212ea Piping : 38,000d/i
67	FCC T/A Work	1999	SK Energy	Equipment : 36ea Piping : 12,000d/i



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62	NRP T/A Work	04.06 ~ 04.08	SK Energy	Piping : 38,500d/i Equipment : 186ea , Heater : 8ea
63	NCC #1 EU T/A Work	03.05 ~ 03.07	SK Energy	Exchanger : 65ea, Piping : 16,000d/i
64	#4 SRP Piping Shut Down Work	02.08 ~ 02.09	SK Energy	Piping : 26,000d/i
65	#2BTX TWR / Drum / HTR T/A WORK	01.05 ~ 01.06	SK Energy	T/D : 36ea , Heater : 5ea
66	#2 CDU T/A Work	2000	SK Energy	Equipment : 212ea Piping : 38,000d/i
67	FCC T/A Work	1999	SK Energy	Equipment : 36ea Piping : 12,000d/i
68	NRP T/A Work	1998	SKEC	Equipment : 168ea Piping : 28,000d/i
69	#1 Process T/A Work	1997	SK Energy	Equipment : 96ea Piping : 28,000d/i
70	#3 MDU T/A Work	1996	SKEC	Equipment : 133ea Piping : 36,000d/i
71	NCC T/A Work	1995	SK Energy	Equipment : 132ea Piping : 32,000d/i
72	NEP T/A Work	1994	SK Energy	Equipment : 123ea Piping : 38,000d/i
73	HOU T/A Work	1993	SK Energy	Equipment : 86ea Piping : 32,000d/i

### 8. Daily Maintenance Work

No	Project	Work Period	Client	Capacity
1	[S-Oil] Daily Maintenance Work	2021~2023	S-OIL	
2	[SK Energy] Daily Maintenance Work	2013 ~ 2014	SK Incheon Petrochem	
3	[Hyundai Oil Bank] DailyMaintenance Work	2011 ~ 2013	Hyund OIL BANK	
4	[SK Energy] DailyMaintenance Work	1992 ~ 2014	SK Energy	



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### 9. Boiler & Heater Work

No	Project	Work Period	Client	Capacity
1	Hyundai Oilbank # 10 FBC Boiler Improvement	19.04 ~ 19.10	HHI Power System (Hyundai oilbank)	Boiler 1ea Maintenance Work
2	New FBC BOILER Project(#10) machine & piping work	15.06 ~ 16.12	Hyundai Heavy Industries	Piping : 200ton. Stl/Str : 3,213ton Equip : 551ton, Others : 2,889
3	#4 Roasting W.H.Boiler & Installation subsidiary facility	15.04 ~ 15.11	Korea Zinc	Piping : 15,245 d/I, Stl/Str : 30ton, Equip : 397ton
4	H7201~4 Convection coil Maintenance Work	08.07 ~ 08.08	S-Oil	
5	C-H1001 Maintenance Work	02.10 ~ 02.11	SK Energy	Boiler 1ea Maintenance Work
6	PW-B102 Boiler Shut Down Work	01.06 ~ 01.09	SK Energy	Boiler 1ea Maintenance Work
7	No.3 ULSAN Power Plant Boiler Piping Fabrication & Erection	01.06 ~ 01.07	SK Energy	Internal Piping 10" : 2,250m
8	Fired Heater Fabrication Work	99.10 ~ 99.12	NODCO	1ea
9	Combined Heat and Power Plant Fabrication & Erection at DALSEO	95.03 ~ 97.03	Samsung Heavy Industry	Turbine, Genertor, Pump Installation
10	ULSAN No.3 Generation of Electric Power Boiler Piping Work	93.04 ~ 94.02	Korea Elec. Power	10" : 150m

### 10. Tower Internal Remodeling Work

No	Project	Work Period	Client	Capacity
1	Vaccum Tower Modification	21.05 ~ 21.12	SK Lubricants	Tower Modification : 1 Set
2	No.2 RFCC & Revamp_Reactor Modification	19.08 ~ 19.12	SKEC (SK Energy)	Reactor : 1 SET
3	SA-V3903 Modification Work	08.02 ~ 08.08	SK Energy	Tower : 1ea
4	NEP #2EU HOT Tower Revamp Work	06.07 ~ 06.09	SK Energy	Tower : 3ea
5	SK CMS Revamp & Remodeling Work	05.08 ~ 05.10	SK Energy	Boiler, Clean Room, Piping Exchanger, etc.
6	HPCEM Project : Tower Internal Remodeling Work	01.08 ~ 01.12	SK Energy	"A" Tower : 1ea



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7	NAPHPA Exchanger Reusing of C-E4015IJ	01.04 ~ 01.05	SK Energy	Piping : 32,000d/i Equipment : 12ea
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### 11. Submarine Piping Work

No	Project	Work Period	Client	Capacity
1	Old SPM Refurbishment	16.05 ~ 16.11	S Oil	Buoy Swap & Costruction
2	#2 BUOY SK Crude Oil unloading system relocation project	14.06 ~ 14.08	SK Energy	Intelligent Pigging work (36")
3	#3 BUOY SK Crude Oil unloading system relocation project	14.05 ~ 14.07	SK Energy	Intelligent Pigging work (36")
4	#2 BUOY Mooring Rope Change Work	13.12 ~ 13.12	SK Energy	
5	#3 BUOY Line Routine Check Work	13.09 ~ 13.09	SK Energy	
6	#2 BUOY Line Routine Check work	13.06 ~ 13.06	SK Energy	
7	Crude Oil u/g Piping Intelligent Pigging Work	13.04 ~ 13.07	SK Energy	Intelligent Pigging work (36")
8	Crude Oil u/g Piping Intelligent Pigging Work	12.07 ~ 12.11	SK Energy	Intelligent Pigging work (36")
9	#3 BUOY Line Routine Check Work	12.07 ~ 12.08	SK Energy	
10	Geo-Je KNOC Submarine Piping Work	11.07 ~ 11.08	KNOC	Line Cleaning / Pigging 40" X 1.5km
11	#1 BUOY Line Removal Work	10.09 ~ 10.09	SK Energy	Line Cleaning / Pigging 14" X 3km
12	#3 BUOY Water filling Work	09.09 ~ 09.10	Hyundai Heavy Industry	
13	#2 BUOY Bubmarine Piping Cleaning Work	09.07 ~ 09.07	SK Energy	
14	BUOY Hose Test / Piping Hydro Test	09.03 ~ 09.05	SK Energy	
15	#3 BUOY Pigging Work	09.01 ~ 09.03	SK Energy	42" - 5km
16	SK Crude Oil unloading system relocation project	08.04 ~ 08.08	Hyundai Heavy Industry	42" - 7km
17	SK #2,3 Bouy relocation Project	08.02 ~ 09.02	SKEC	42" - 7km



18	#2 Buoy Submarine Piping Hydretest	05.03 ~ 05.09	SKEC	36" - 2.7km
19	Buoy Maintenance / Repair Work	04.10 ~ 05.02	KNOC	
20	Inspection of Crude Pipe Intelligent Pigging Work	04.09 ~ 04.09	SK Energy	14" & 24" 4km per each
21	#1 Buoy Submarine Pipe Pigging Work	03.09 ~ 03.12	SK Energy	36" - 2.5km
22	42" Submarine Piping Inspection & Maintenance Work	03.07 ~ 03.09	S-OIL	42" - 3.0km

- ◆ President's Message
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- ◆ Business Scope
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- ◆ **Major Experience List**
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## Address

106, Yongyeon-ro, Nam-gu, Ulsan, Korea  
 Zip code : 680-150

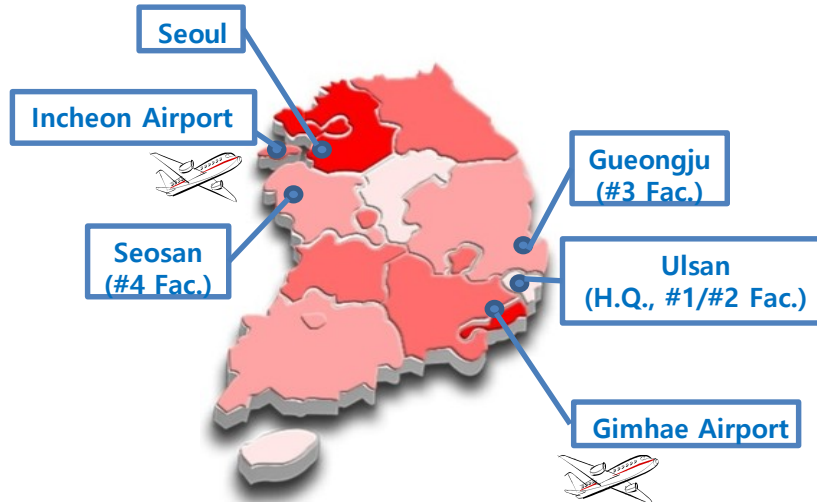
## Contact point

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Plant Construction	Tel : +82-52-256-8340	Fax : +82-52-257-8360

▶ E-mail : [ubec@ubec.co.kr](mailto:ubec@ubec.co.kr)

▶ Home page : <http://www.ubec.co.kr>

## Location



**THANK YOU**

