

New-normal 2021, **DASCO** stand with you.

COMPANY PROFILE 2021

GREETING MESSAGE



The management philosophy of DASCO is that the enterprises should permanently exist and develop, the purpose of management of the company is “profit maximization”, and the goal of the management of the company is to be a world-class company. DASCO has continuously made investments and endeavors to be the best in the heat exchange area since its establishment in 1995.

The company intends to make every endeavor as the leader in heat exchanger area based on its know-how that has been accumulated as a professional heat exchanger company including Air compressor inter cooler, H2 cooler, Shell & Tube heat exchanger, Pressure Vessels, and Electric heater as well as good-quality products and competitive prices.

Dasco co., Ltd.
PRESIDENT **Lee, Geun young**

CONTENTS

- GREETING MESSAGE 3
- 1. OUTLINE OF COMPANY 4
- 2. ORGANIZATION CHART 6
- 3. TURN-OVER (YEARLY SALES) 6
- 4. HISTORY OF DASCO 7
- 5. MAIN CUSTOMER 8
- 6. MAIN PRODUCTS 10
 - 1) INTER/AFTER COOLER FOR COMPRESSOR 12
 - 2) H2 / AIR COOLER FOR GENERATOR 13
 - 3) SHELL & TUBE TYPE HEAT EXCHANGER 14
 - 4) SURFACE & EJECTOR CONDENSER 15
 - 5) LNG & LPG FOR MARINE 16
 - 6) FOR MARINE & PLANT ITEM 16
 - 7) OTHER HEAT EXCHANGER 17
- 7. PRODUCTION CAPACITY & HANDLING MATERIALS · 17
- 8. MAIN FACILITY 18
- 9. QUALITY MANAGEMENT 20
- 10. STATUS OF QUALITY CERTIFICATION 22
- 11. TEST & MEASURING EQUIPMENT 30
- 12. DESIGN LICENSE LIST 31
- 13. EXPERIENCE LIST 32

*Beyond the Simple
Customer’s Satisfaction*



Head office and factory

Date of establishment : Jul. 2020 Land area : 11,600 m²
 Factory Building area : 7,700 m²

1. OUTLINE OF COMPANY

1. NAME : DASCO Co., Ltd
2. BOARD OF DIRECTOR / PRESIDENT : Lee, Geun young
3. FOUNDED : OCT, 1995
4. CORRESPONDENT BANKS : KOOKMIN BANK, KOREA
5. NUMBER OF EMPLOYEES : 112 PERSONS
 - FINANTIAL & MANAGING STAFF : 12 / SALES ENGINEER : 9
 - DESIGN ENGINEER : 9 / Q.A ENGINEER : 10 / PRODUCTION : 72
6. CAPITAL : ₩ 363,270,000 (US\$ 330,000)
7. SALES AMOUNT OF YEAR 2020 : US\$ 21,000,000
8. ADDRESS : 33, Noksansandan 17-ro 78beon-gil, Gangseo-gu, Busan, Korea
 T. 82.51.324.9984 E-mail : hs@heatsolution.co.kr

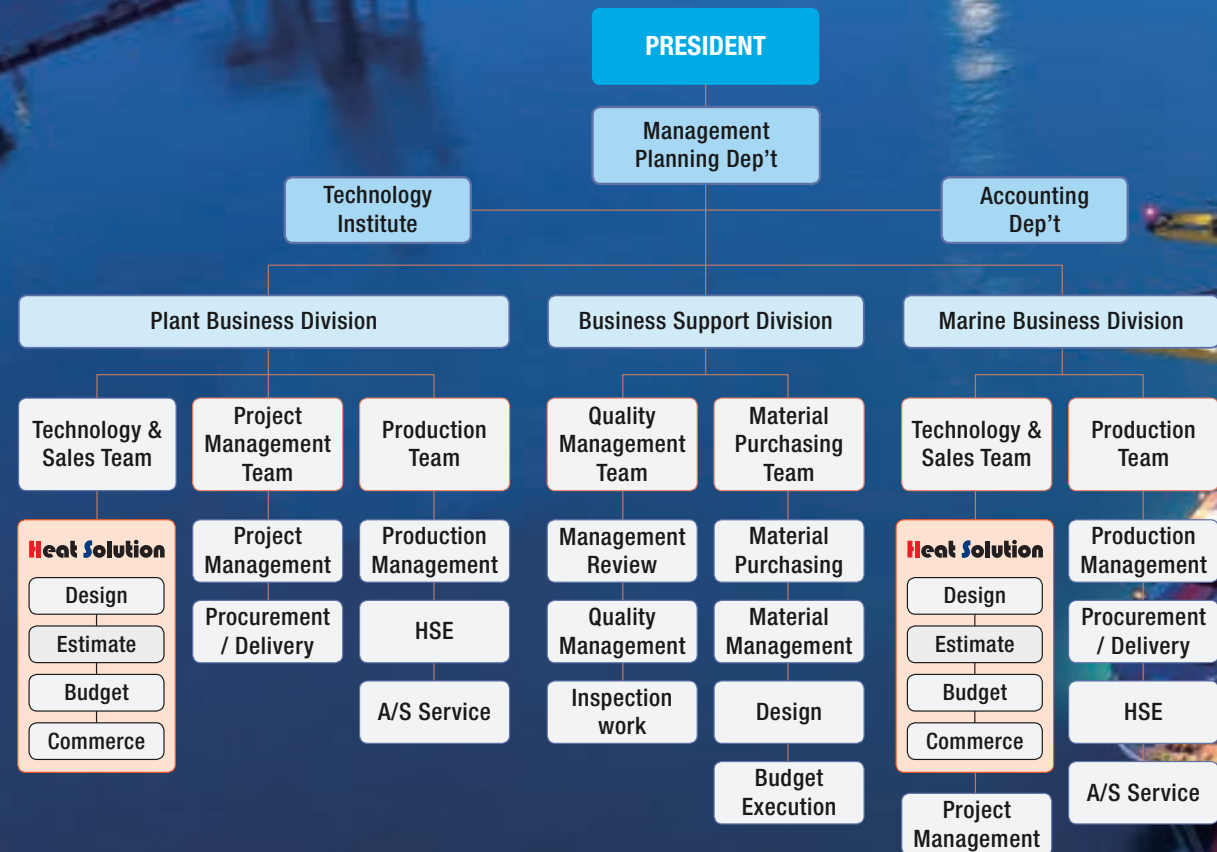


2nd factory

Land area : 4,950 m² Factory Building area : 1,650 m²

19-52, Inje-ro 694 beon-gil, Saengrim-myeon, Gimhae-si, Gyeongsangnam-do, Korea

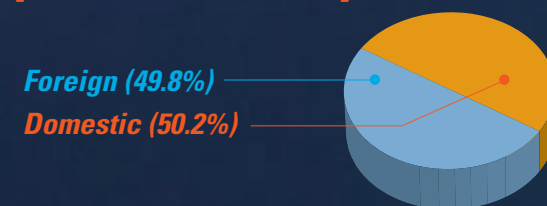
2. ORGANIZATION CHART



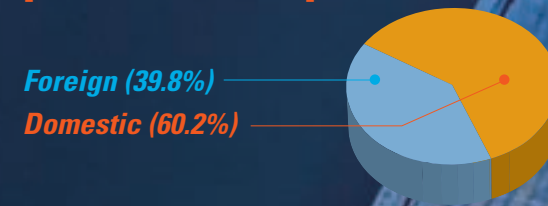
3. TURN-OVER (YEARLY SALES)



[Contract Breakdown]



[Sales Breakdown]



4. HISTORY OF DASCO

- Oct. 1995 Established DASCO in 1995, Busan, Korea
- May. 2000 Changed the company into a corporation, DASCO Co., Ltd.
- Nov. 2003 Certified of ISO 9001:2000(NQA)
- Nov. 2005 Obtained the certification of anti-explosive electric heater (KIMM)
- Aug. 2006 Obtained CE certification (in electric heater part (SGS))
- Aug. 2006 Renewal the office to Gimhae from Busan
- Feb. 2007 Registered vendor in Hanwha Power Systems (Previously Samsung Techwin)
- Oct. 2008 Obtained the classification society certification of ABS, BV, KR
- Dec. 2008 Shop approved by DNV-GL ship classification
- Feb. 2009 Obtained INNO-BIZ certification
- Mar. 2009 Registered vendor in Doosan Heavy Industries
- Nov. 2009 Obtained the certification of ASME, S and U Stamp
- Jun. 2010 Registered as business partner of GE (General Electric)
- Jul. 2010 Registered manufacture of specific equipment in Korea Gas Safety Corporation
- Sep. 2010 Newly constructed 2nd factory in Gimhae
- Apr. 2013 Registered vendor of DSEC (Marine field)
- Mar. 2014 Newly constructed 3rd factory in Gyeongnam
- Nov. 2014 Registered vendor of DSME
- Dec. 2014 Registered vendor of STX, SungDong, Doosan Engine (Marine field)
- Apr. 2015 Invested capital to plant engineering professional company, **Heat Solution**
- May. 2015 Registered vendor of Air Liquide (Japan), Hyundai Heavy Industries
- Oct. 2015 Registered vendor of IHI, MHPS, Atlas Copco (America, France, Korea)
- Dec. 2015 Registered vendor of Kobe Steel
- Feb. 2016 Obtained the certification of 5 Major Korea Electric Power Co.
- Sep. 2016 Registered vendor of Fuji Electric, POSCO
- Oct. 2017 Obtained the certification of TR-CU as approved factory
- Jul. 2019 Selected as a prospective medium & small enterprise
- Dec. 2019 Awarded export tower for USD 3 million dollars
- Jul. 2020 Renewal H.Q. to Noksan National ind. Complex in Busan, Korea

5. MAIN CUSTOMER

FOR PLANT DIVISION

FOR ASU

- AIR LIQUIDE • AIR PRODUCTS
- AMCS • DAESUNG INDUSTRIAL GASES
- LINDE • PRAXAIR
- TAIYO NIPPON SANSO



FOR ROTATING MACHINERY

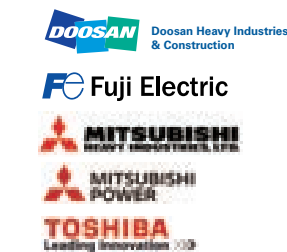
COMPRESSOR

- ATLAS COPCO : [AMERICA], [GERMANY], [FRANCE], [KOREA]
- HANWHA POWER SYSTEMS
- HITACHI • HOWDEN
- HYUNDAI HEAVY INDUSTRIES TURBOMACHINERY
- IHI ROTATING MACHINERY
- IR (INGERSOLL RAND) • KOBE STEEL
- SEAH ENGINEERING • MAN



TURBINE & GENERATOR

- DOOSAN HEAVY INDUSTRIES
- FUJI ELECTRIC
- MITSUBISHI HEAVY INDUSTRY
- MITSUBISHI POWER
- TOSHIBA



FOR POWER PLANT

- KOREA 5 MAJOR ELECTRIC POWER CO. : [KOEN], [KOMIPO], [KOSPO], [KEWP], [KOWEPO],



5. MAIN CUSTOMER

FOR MARINE DIVISION

FOR SHIPYARD

- DAEHAN SHIPBUILDING
- DAESUN SHIPBUILDING & ENGINEERING
- DAEWOO SHIPBUILDING & MARINE ENGINEERING
- DAEWOO SHIPBUILDING ENGINEERING COMPANY (DSEC)
- HANJIN HEAVY INDUSTRIES
- HYUNDAI HEAVY INDUSTRIES
- SAMSUNG HEAVY INDUSTRIES
- STX OFFSHORE & SHIPBUILDING



FOR PACKAGE

- HI AIR KOREA / CONDITIONING
- KANGRIM HEAVY INDUSTRIES
- SAMWOO HEAVY INDUSTRIES
- SUNBO INDUSTRIES



FOR ENGINE

- HYUNDAI HEAVY INDUSTRIES (HHI-EMD)
- HSD ENGINE
- STX ENGINE
- STX HEAVY INDUSTRIES



6. MAIN PRODUCTS

FOR PLANT

COMPRESSOR – INTER /AFTER/OIL COOLER

- 1) SHELL & TUBE TYPE (BY API660 & 614)
- 2) AIR FAN COOLED TYPE (BY API661)
- 3) GAS PIPING & SPOOL
- 4) LUBE OIL & JACKET WATER UNIT
- 5) WATER SEPARATOR
- 6) PRESSURE VESSEL (DAMPER / SNUBBER)

TURBINE

- 1) SURFACE CONDENSER (CYLINDRICAL TYPE)
WITH EJECTOR UNIT FOR STEAM TURBINE
- 2) GLAND STEAM CONDENSER
- 3) EJECTOR FOR GLAND CONDENSER

GENERATOR

- 1) HYDROGEN COOLER
- 2) AIR COOLER

ETC.

- 1) STEAM AIR HEATER FOR BOILER
- 2) GAS & OIL FILTER SHELL
- 3) PRESSURE VESSEL & TANK

FOR LNG & LPG

CARGO HANDLING SYSTEM

- 1) VAPORIZER(LNG, FORCING)
- 2) GAS HEATER(HIGH DUTY, LOW DUTY,
WARM-UP HEATER)
- 3) MIST SEPARATOR / DRAIN POT

REGASIFICATION SYSTEM

- 1) HIGH PRESSURE VAPORIZER
- 2) TRIM HEATER

RELIQUEFACTION PACKAGE

- 1) BOG PREHEATER
- 2) WASTE GAS HEATER
- 3) GAS SEPARATOR & TANK

FUEL GAS SUPPLY SYSTEM

- 1) VAPORIZER(HIGH&LOW PRESSURE)
- 2) FUEL GAS HEATER
- 3) GLYCOL WATER HEATER & TANK

INERT GAS GENERATOR

- 1) GAS COOLER
- 2) GAS HEATER

FOR MARINE

- 1) SHELL & TUBE HEAT EXCHANGER
- 2) COPT CONDENSER
- 3) WEATHER LOUVER & CATCHER
- 4) OIL UNIT
- 5) SOUND ATTENUATOR
- 6) COOLER PACKAGE
- 7) VIBRATION COMPENSATOR
(H-TYPE & V-TYPE)
- 8) VESSEL & STRUCTURE & AIR SEPARATOR
- 9) SILENCER

1) INTER/AFTER COOLER FOR COMPRESSOR (PLATE FIN TYPE HEAT EXCHANGER)

A Inter/After Cooler is installed in air compressor, It requires special design with a heat exchanger that cools compressed high temperature air to reduce its volume.
It consists of Fin Tube, Water Box, and Casing, etc.

- **Material Code** : ASME, ASTM, JIS
- **Applicable Code** : ASME(U-STMP with NB Cer't)
TEMA R.C.B.
KOREA KGS, KOSHA, KEMCO, KESCO and Etc.
JAPAN KHK, 2nd Pressure Vessel code
CE MARK (PED Cer't)
World Wide Local law (DOSH, MOL, TRCU for Russia, CRN for Canada & etc.)
- **Material Combination** : Tube : Cu-Ni (9:1, 7:3), Cu, SUS 304, 316, Duplex.
Fin : AL, CU, SUS
Fin Coat : Sn Coat, Bly gold Coat, Phenolic Coat



2) H2 / AIR COOLER FOR GENERATOR FOR PLANT

Hydrogen Cooler is a heat exchanger that cools with tube side cooling water. A large-sized power generator uses hydrogen which specific heat is big as a cooling media.

The high temperature hydrogen by cooling power generator flows to fin side and it is used for cooling. It consist of plate fin, tube and water box. To prevent from vibration, it is manufactured using a professional vibration interpretation device.

- **Applicable Code** : ASME(U-STMP with NB Cer't)
TEMA R.C.B.
KOREA KGS, KOSHA, KEMCO, KESCO and Etc.
JAPAN KHK, 2nd Pressure Vessel code
CE MARK (PED Cer't)
World Wide Local law (DOSH, MOL, TRCU for Russia, CRN for Canada & etc.)
- **Material Combination** : Tube : Cu-Ni (9:1, 7:3), Cu, SUS 304, 316, Duplex.
Fin : AL, CU, SUS
Fin Coat : Sn Coat, Bly gold Coat, Phenolic Coat
- **Registered to GE, Doosan Heavy Industries**



3) SHELL & TUBE TYPE HEAT EXCHANGER FOR PLANT & MARINE

A Shell & Tube Heat Exchanger is heat exchanger that is the most general form and the most widely used. It is used for processor of power generation station, petroleum and chemical engineering factory and for facilities such as fuel Oil heater, Lubrication oil cooler. We provides heat calculation and structure design services for its manufacturing.

- **Applicable Code** : ASME(U-STMP with NB Cer't)
TEMA R.C.B.
KOREA KGS, KOSHA, KEMCO, KESCO and Etc.
JAPAN KHK, 2nd Pressure Vessel code
CE MARK (PED Cer't)
World Wide Local law (DOSH, MOL, TRCU for Russia, CRN for Canada & etc.)

**O2 COOLER WITH
O2 CLEANING ROOM**



**RECYCLE GAS COOLER
AND AFTER COOLER**



LUBE OIL COOLER

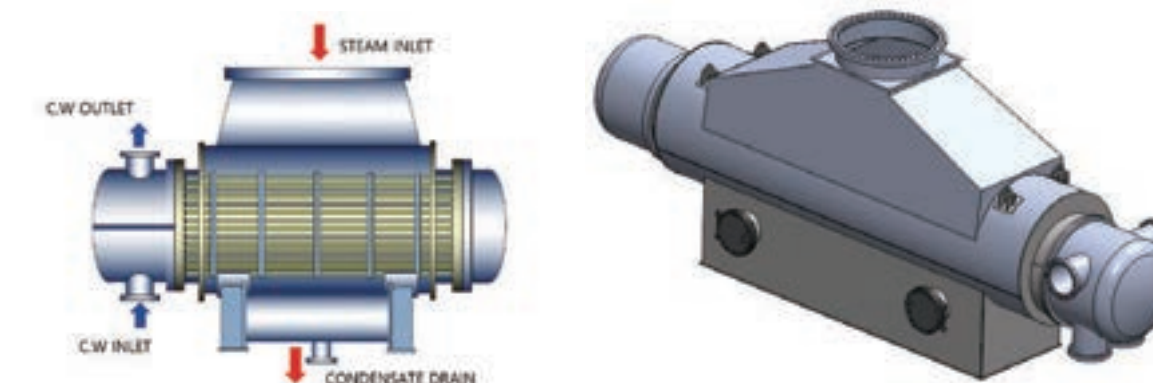


**GLAND STEAM
CONDENSER**



4) SURFACE & EJECTOR CONDENSER (ONLY ROUND TYPE)

- **Applicable Code** : HEI
ASME(U-STMP with NB Cer't)
TEMA R.C.B.
KOREA KGS, KOSHA, KEMCO, KESCO and Etc.
JAPAN KHK, 2nd Pressure Vessel code
CE MARK (PED Cer't)
World Wide Local law (DOSH, MOL, TRCU for Russia, CRN for Canada & etc.)



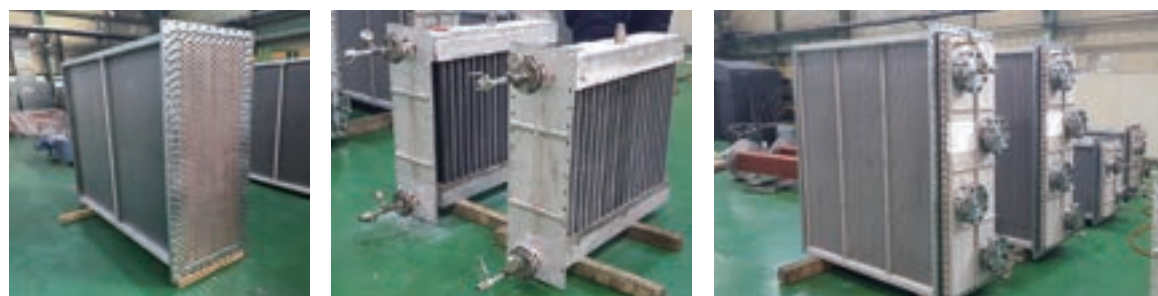
EJECTOR EXHAUST TYPE CONDENSER & SILENCER

EJECTOR FOR AIR EJECTOR UNIT



5) LNG & LPG FOR MARINE

- **Applicable Code :** SHIP CLASS ABS, BV, DNV-GL, KR, LR, NK, RS
ASME(U-STAMP)
TEMA R.C.B



GAS COOLER & GAS HEATER FOR IGG



WARM-UP HEATER

GAS COOLER FOR LNG COMPRESSOR

NG PRE HEATER

6) FOR MARINE & PLANT ITEM

- **Applicable Code :** ASME(U-STMP with NB Cer't)
TEMA R.C.B.
SHIP CLASS ABS, BV, DNV-GL, KR, LR, NK, RS
KOREA KGS, KOSHA, KEMCO, KESCO and Etc.
JAPAN KHK, 2nd Pressure Vessel code
CE MARK (PED Cer't)
World Wide Local law (DOSH, MOL, TRCU for Russia, CRN for Canada & etc.)



OIL UNIT

LOUVER & WATER MIST CATCHER

PKG UNIT.

PIPE SPOOL



EXPLOSION PROOF ELECTRIC RADIATOR

VENT SILENCER

VIBRATION COMPENSATOR

SOUND ATTENUATOR

7) OTHER HEAT EXCHANGER

- **Applicable Code :** ASME(U-STMP with NB Cer't)
TEMA R.C.B.
KOREA KGS, KOSHA, KEMCO, KESCO and Etc.
JAPAN KHK, 2nd Pressure Vessel code
CE MARK (PED Cer't)
World Wide Local law (DOSH, MOL, TRCU for Russia, CRN for Canada & etc.)

STEAM AIR HEATER (Hot Water Air Heater) for Boiler



7. PRODUCTION CAPACITY & HANDLING MATERIALS

1) PRODUCTION CAPACITY FOR 1 FACTORY

- MAX. WEIGHT : 100 TON
- MAX. SIZE (L x W x H) : 20 x 8 x 7 (m)

2) PRODUCTION CAPACITY FOR 2 FACTORY

- MAX. WEIGHT : 20 TON
- MAX. SIZE (L x W x H) : 20 x 4 x 4 (m)

3) MAJOR HANDLING MATERIALS

- CARBON STEEL
- STAINLESS STEEL
- COPPER & COPPER ALLOY (BRASS, BRONZE, CU-NI)
- ALLOY STEEL (Cr-Mo & CARBON-Mo)
- TITANIUM & TITANIUM CLAD

8. MAIN FACILITY

NO.	Equipment	Specification	Q'ty
1	Overhead Crane	2ton(3ea) / 2.8ton(2ea) / 3ton(1ea) / 5ton(4ea) / 10ton(2ea) / 15ton(2ea) 20ton(2ea) / 25ton(1ea) / 30ton(1ea)	17
2	TIG Welding Machine	500A	45
3	CO2 Welding Machine	600A	30
4	Plate Fin Press Machine	60 ton (1ea), 80 ton (3ea)	4
5	Lathe Machine	D-480	2
6	H2/C, Air/C, I/AC Bundle Ass'y Table	1600 x 4500 (1ea), 1600 x 3500 (6ea)	7
7	Vibration Tester	Lion / VA-12	1
8	Hydro. Test Unit	35 kg/cm ² (3ea), 450 kg/cm ² (1ea)	4
9	Oil Flushing Equipment	3,000 L	1
10	Hydraulic Torque Wrench	450 ~ 4510 N/M	2
11	R.T Room	13 L x 5 W x 5 H (m)	1
12	Compressor	75HP	1
13	Gas Booster	420 kg/cm ²	1
14	Liquid Storage Tank	L - N2 (3.33 MPa, 1ea), L - Ar (1.03 MPa, 1ea)	2
15	Tube Expanding Machine	-	5
16	Plate Fin & Tube Multi-Expander	2.5M x 280Hole (2ea), Ø12 x 930L (1ea)	3
17	Tube Single Expander	Ø10 x 20 mm	5
18	Drilling Machine	Ø19 (1ea), Ø32 (1ea)	3
19	Vacuum Pump (For He Leak Test)	1.5kw	1
20	Gouging	1500A	2
21	Plasma cut	100A (1ea), 120A (2ea)	3
22	Tube Bending	Ø15.88 COOPER TUBE BENDING	1



Compressor



Liquid Storage Tank (L-N2)



Liquid Storage Tank (L-Ar)

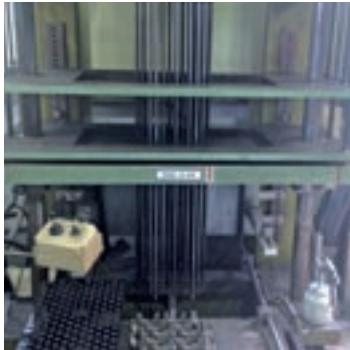
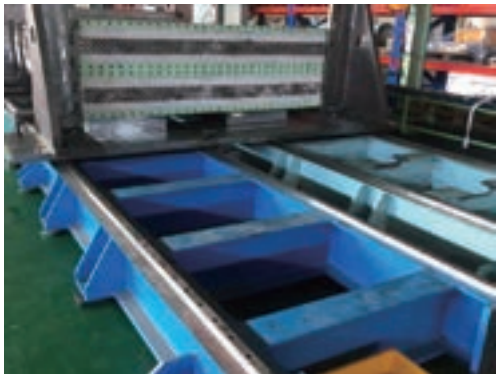


Plate Fin & Tube Multi Expander



Fin-Tube Bundle Ass'y Jig



Fin-tube Bundle Expanding & Ass'y Table



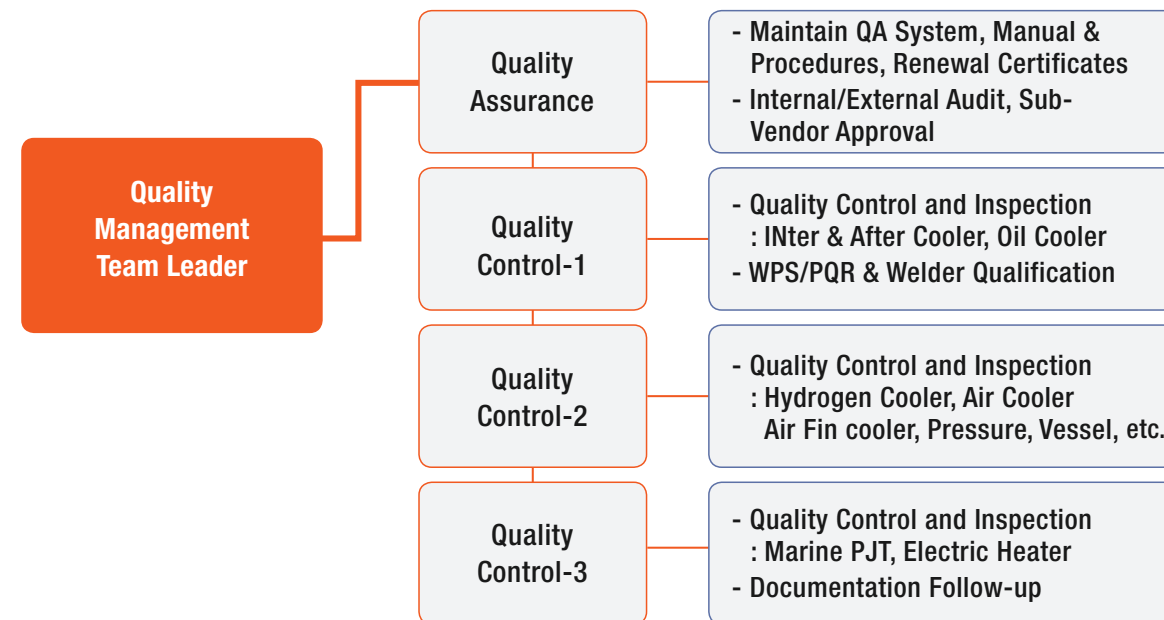
Plate Fin Press Machine



Oil Flushing Equipment

9. QUALITY MANAGEMENT

1) Organization of Quality Management Team



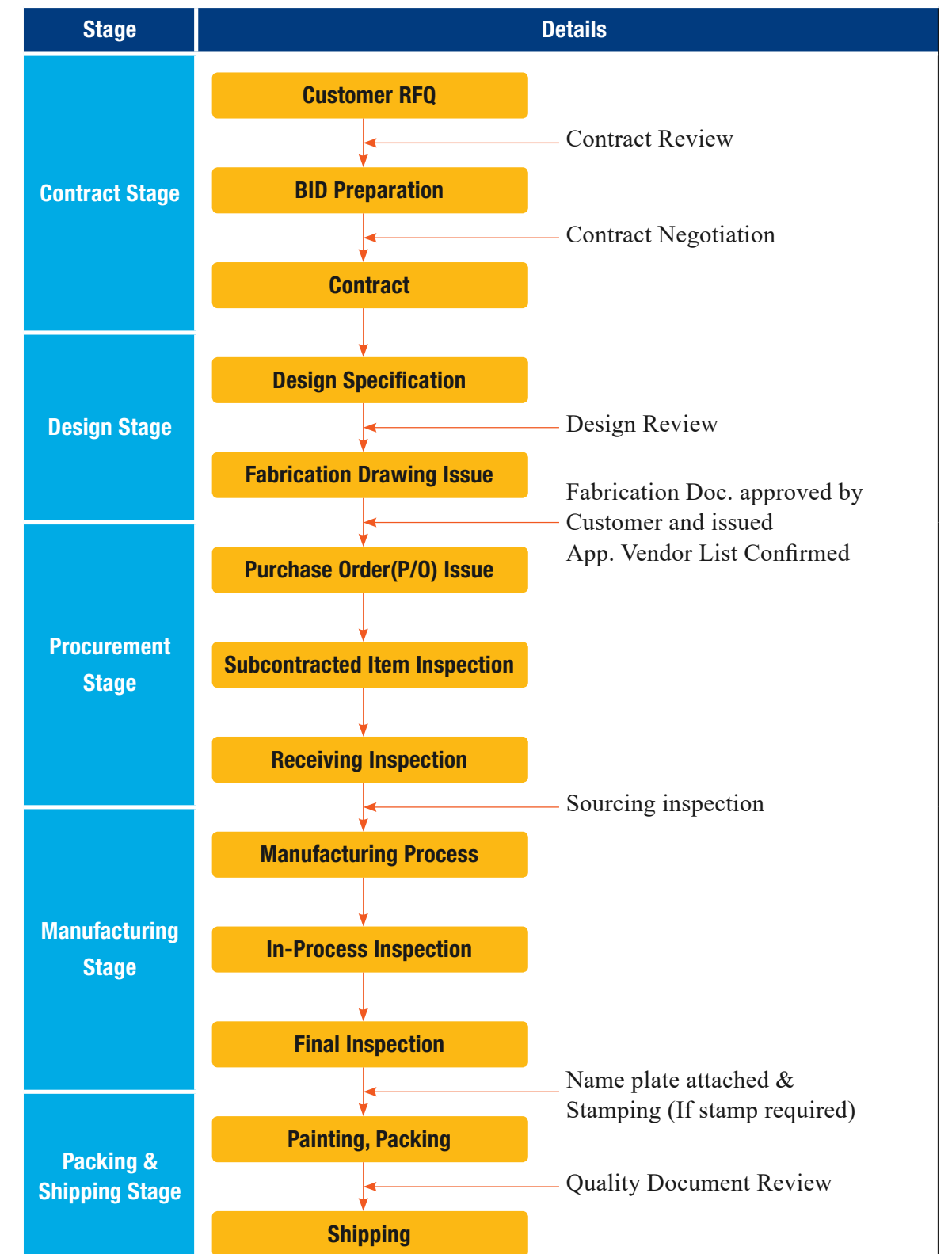
2) Qualified Welder List by ASME

Welder I.D No.	Welder Name	Welding Process			
		GTAW	FCAW	SAW	SMAW
DW-03	J.S Woo	0	0	PLAN	OUT-SOURCE
DW-06	J.H Lee	0	0		
DW-10	S.Y Choi	0	0		
DW-22	J.G Kim	0	0		
DW-26~28	S.B Hwang and etc	0	0		
DW-30~31	J.K Kang and etc.	0	0		
DW-32	S.G Lee	0	X		
DW-33~35	D.Y Lee and etc.	0	0		
DW-36	G.S Cheon	X	0		
Total Welder	14 Persons	13	13		

3) Certified NDE Personnel List

No.	Name	Method	Lv.	Cert. No.
1	Park, Man-Jeon	RT, UT, MT, PT, LT	III	ASNT Level III
2	Shin, Chang-Soo	RT, UT, MT, PT, VT	III	ASNT Level III
3	Kang, Ki-Cheon	MT	III	ASNT Level III
4	Kang, Mun-Hwan	RT, MT	III	ASNT Level III
5	Hea, Jae-Hoon	RT, UT, MT, PT, VT	II	ASNT Level II

4) Quality Plan of the Manufacturing Process



10. STATUS OF QUALITY CERTIFICATION

Organization	Certificate Item	Expiry Date	Number
SPEC	ISO 9001	2021. 04. 24	QMS-1404
ASME	U-STAMP	2021. 12. 10	#39135
ASME	S-STAMP	2021. 12. 10	#39134

Korean Local Regulation

1. KESCO – Korea Electrical Safety Corporation
2. KGS – Korea Gas Safety Corporation
3. KEMCO – Korea Energy Management Corporation
4. KOSHA – Korea Occupational Safety & Health Agency
5. KIMM – Korea Institute of Machinery & Materials

Other International Local Regulation

1. Japanese KHK, and 1st & 2nd Pressure Vessel Code
2. CE-Mark (PED) for European site
3. TR-CU (GOST-R, etc.) for Russian, Kazakhstani, Belarusian, Kyrgyzstani and Armenian site
4. IBR Cert. for Indian site
5. Others (Singapore-MOL, Malaysian- DOSH, CRN for Canada, Algerian rule, etc)

Class	Certificate Item
A.B.S	Approval of Welding Procedure
B.V	Approval of Welding Procedure
D.N.V-G.L	Approval of Manufacturer (Class 1 & 2)
L.R	Fusion Welded Pressure Vessels (Class 1)
K.R	Approval of Manufacturer (Class 1 & 2)
NK	Approval of Manufacturer (Class 1 & 2)
RS	Approval of Manufacturer (Class 1 & 2)

Certificate of Registration




Quality Management System Certificate

Certificate No : QMS - 1404

Company Name : DASCO CO., LTD.
33,78beon-gil,Noksansandan17-ro,Gangseo-gu,Busan,
Korea

Scope of registration : Design, development and production of heat exchanger

Standard : KS Q ISO 9001:2015 / ISO 9001:2015

SPEC hereby certifies that the Quality Management System of the above organization has been assessed and found to meet the requirements of the standard and scope of registration detailed above.

Certificate From : 2018-04-25 Certificate Expiry : 2021-04-24
(Registration on 2008-07-15)
Reissue : Change address
Issue date : 2020-08-05

Signed for and on behalf of SPEC

By authority of the Chief Executive

■ SPEC is accredited by Korea Accreditation Board (KAB) as a Quality Management System certification body
(Accreditation number : KAB-QC-18)

■ SPEC is accredited by Member(KAB) of the International Accreditation Forum Multilateral Recognition Arrangement for Quality Management Systems

SPEC Co., Ltd. | 35won-dong, K12 High-Rise Tower 301, 604, 226, Seon digital 1-ro, Daegu-seong-gu, Seoul, Korea




KAB-QC-18



CERTIFICATE OF AUTHORIZATION

The named company is authorized by the American Society of Mechanical Engineers (ASME) for the scope of activity shown below in accordance with the applicable rules of the ASME Boiler and Pressure Vessel Code. The use of the certification mark and the authority granted by this Certificate of Authorization are subject to the provisions of the agreement set forth in the application. Any construction stamped with this certification mark shall have been built strictly in accordance with the provisions of the ASME Boiler and Pressure Vessel Code.

COMPANY:

DASCO Co., Ltd.
92, Gimhae-daero 916 Beon-gil,
Hallim-Myeon
Gimhae-si, Gyeongsangnam-do 50850
Republic of Korea

SCOPE:

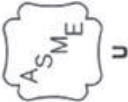
Manufacture and assembly of power boilers at the above location and field sites controlled by the above location



AUTHORIZED: November 27, 2018
EXPIRES: December 10, 2021
CERTIFICATE NUMBER: 39,134

Richard R. Stevenson
Board Chair, Conformity Assessment

Joseph K. Brown
Managing Director, Conformity Assessment



CERTIFICATE OF AUTHORIZATION

The named company is authorized by the American Society of Mechanical Engineers (ASME) for the scope of activity shown below in accordance with the applicable rules of the ASME Boiler and Pressure Vessel Code. The use of the certification mark and the authority granted by this Certificate of Authorization are subject to the provisions of the agreement set forth in the application. Any construction stamped with this certification mark shall have been built strictly in accordance with the provisions of the ASME Boiler and Pressure Vessel Code.

COMPANY:

DASCO Co., Ltd.
92, Gimhae-daero 916 Beon-gil,
Hallim-Myeon
Gimhae-si, Gyeongsangnam-do 50850
Republic of Korea

SCOPE:

Manufacture of pressure vessels at the above location and field sites controlled by the above location (This authorization does not cover impregnated graphite)



AUTHORIZED: November 27, 2018
EXPIRES: December 10, 2021
CERTIFICATE NUMBER: 39,135

Richard R. Stevenson
Board Chair, Conformity Assessment

Joseph K. Brown
Managing Director, Conformity Assessment

Issue No : E918660E-4D47-4094-95EA-92137883878C

CERTIFICATE OF APPROVAL

Registration No: WITHU20190208365
Company Name: DASCO Co., Ltd.
Factory Location: 296, Gimhae-daero 927beon-gil, Hallim-myeon, Gimhae-si, Gyeongsangnam-do
Period Of Validity: 2019-02-07 ~ 2022-02-07

This is to certify that the above-mentioned company has been registered as the repair & maintenance of company of KOEN, KOSPO, EWP, KOWEPO and KOMIPO for the listed items according to the standard for integrated management.

Management Item	Pressure Vessel	Heat Exchanger&Condenser
Certificate Item	Pressure Vessel	
Manufacture	On Site Maintenance	Shop Repair
V		

2019.02.19


KOREA SOUTH-EAST POWER CO.

KOREA EAST-WEST POWER CO., LTD.

KOREA MIDLAND POWER CO., LTD.


KOREA SOUTH POWER CO.

KOREA EAST-WEST POWER CO., LTD.

KOREA WESTERN POWER CO., LTD.

2019.02.19

※ This document issued form website. You can verify this document from <http://withu.ewp.co.kr>

Issue No : 8FC1E4CB-416F-4B88-82ED-E812D6541477

CERTIFICATE OF APPROVAL

Registration No: WITHU20190208366
Company Name: DASCO Co., Ltd.
Factory Location: 296, Gimhae-daero 927beon-gil, Hallim-myeon, Gimhae-si, Gyeongsangnam-do
Period Of Validity: 2019-02-07 ~ 2022-02-07

This is to certify that the above-mentioned company has been registered as the repair & maintenance of company of KOEN, KOSPO, EWP, KOWEPO and KOMIPO for the listed items according to the standard for integrated management.

Management Item	Heat Exchanger&Condenser	Heat Exchanger
Certificate Item	Heat Exchanger	
Manufacture	On Site Maintenance	Shop Repair
V		

2019.02.19


KOREA SOUTH-EAST POWER CO.

KOREA EAST-WEST POWER CO., LTD.

KOREA MIDLAND POWER CO., LTD.


KOREA SOUTH POWER CO.

KOREA EAST-WEST POWER CO., LTD.

KOREA WESTERN POWER CO., LTD.

2019.02.19

※ This document issued form website. You can verify this document from <http://withu.ewp.co.kr>



BUREAU VERITAS
MARINE DIVISION
DIRECTION MARINE

International Register for Classification of Ships – Established 1828
Registre International de Classification de Navires – Fondé en 1828

Approval Cert. No. **PSN/WP/08/046/R0**

APPROVAL OF WELDING PROCEDURE

Issued within the scope of the Bureau Veritas Marine Branch General Conditions

Messrs : **DASCO CO., LTD.**
#800, Byeongdong-gil, Hallim-myeon, Gimhae, Gyeongnam, Korea

This is to certify that under mentioned welding procedure specifications with relevant qualification test records have been duly reviewed according to the Rules of this society, and be considered that approval of the welding procedures can be granted under the conditions below:

- Manual Gas Tungsten Inert Gas Arc Welding (GTAW) with Shielding gas (Argon) + Manual Flux Cored Arc Welding (FCAW) with Shielding gas (CO2)**

WPS No.	: GT-FC-1.1-101 (Rev. 0)
Supporting PQR No.	: QGT-FC-1.1-101 (Rev. 0)
Material grade	: JIS G3101 SS400 or Equivalent
Thickness range	: 8.0 mm to 32.0 mm
Min. preheat temp.	: 10 °C
Max. interpass temp.	: Max. 250 °C
Current type	: DCSP(GTAW) + DCRP(FCAW)
Position	: Single V Groove (without backing)
Welding technique	: PA(Flat)
Classification of welding consumable	: String & Weaving
Brand name	: ST-50G(GTAW) Ø 2.4 mm & SF-71(FCAW) Ø 1.2 mm (HYUNDAI WELDING)

- Manual and Semi-automatic Gas Tungsten Inert Gas Arc Welding (GTAW) with Shielding gas (Argon)**

WPS No.	: GT-1.1-101 (Rev. 0)
Supporting PQR No.	: QGT-1.1-101 (Rev. 0)
Material grade	: JIS G3454 SPG370 or Equivalent
Thickness range	: 3.0 mm to 14.2 mm
Pipe diameter	: 82.6 mm to Unlimited
Min. preheat temp.	: 10 °C
Max. interpass temp.	: Max. 250 °C
Current type	: DCSP
Position	: Single V Groove (without backing)
Welding technique	: PA(Flat)
Classification of welding consumable	: String & Weaving
Brand name	: ST-50G Ø 2.4 mm (HYUNDAI WELDING)



The latest published Rules of the Bureau Veritas Marine Division and the General Conditions therein are applicable.
La dernière édition des Règlements de la Direction Marine du Bureau Veritas sont les Conditions Générales qui s'y appliquent.

Tous les documents qui ont été publiés en matière de normes doivent être consultés et les documents qui ont été publiés en matière de normes doivent être consultés et les documents qui ont été publiés en matière de normes doivent être consultés.

BV Mod. AG.ME. 465 e



In the event of any conflict or ambiguity between this product and the original electronic document, the electronic document shall prevail.

APPROVAL OF MANUFACTURER CERTIFICATE

Certificate No : **MD004760/0001/FW**

DASCO CO., LTD.
92, Gimhae-daero, 916beon-gil, Hallim-myeon, Gimhae-si
Gyeongangnam-do
Korea

This approval is subject to compliance with the Lloyd's Register Rules for the Classification of Ships. The full details of the processes, products and grades to which this approval applies are given in the Appendix of this certificate.

Lloyd's Register is to be notified of any change that may affect the validity of this Certificate.

This Certificate is issued to the above manufacturer and is valid until the date given below.

Valid Until : 12 April 2021
Date of issue : 13 April 2018



Jaspal Nirankari
Principal Welding Specialist to Lloyd's Register EMEA
A member of the Lloyd's Register group

A member of the Lloyd's Register group, Lloyd's Register Group Limited, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as "Lloyd's Register". Lloyd's Register assumes no responsibility and shall not be liable for any loss, damage or expense incurred by or for any person relying on information provided by it in connection with this certificate or the provision of the information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in the contract.



MISCELLANEOUS SURVEY REPORT

Page 1 of 2

WELDING PROCEDURE APPROVAL

Report No.:	BK100340-A	Date:	24 July 2008
Vessel's Name:	Port Busan, Korea		
Class No./VDCID:	-		
Manufacturer:	DASCO Co., Ltd.		
Purchaser/Buyer's Y.:	-		
Location:	Kimhae, Korea	PO No./Hull No.:	-
Serial Number:	-	Rating (WPH/PRW):	-
Material Test Report No. or Hull Sheets Verified:	-	Weight:	-
Drawing No. and Date Approved or for Multiple Drawing, Plan Approval Office:	13 May 2008/ABS Busan Eng'g Office		
ABS Busan Task No.:	340828		
ABS Markings:	N/A		

THIS IS TO CERTIFY that the undersigned Surveyor to this Bureau attended for the above survey and reports as follows:

The following welding procedure approval tests were carried out in accordance with approved welding specifications and the applicable Rules, examined, tested as required and considered satisfactory.

WPS No. : GT-1.1-101	WPS No. : GT-FC-1.1-101
PQR No. : QGT-1.1-101	PQR No. : QGT-FC-1.1-101
Welding Process: GTAW	Welding Process: GTAW + FCAW
Welding Position: 1G	Welding Position: 1G
Type of Joint: Single Vee Groove	Type of Joint: Single Vee Groove
Thickness Range Qualified: 3 ~ 14.2 mm	Thickness Range Qualified: 3 ~ 32mm
Diameter of Pipe Qualified: Unlimited	Diameter of Pipe Qualified: N/A
Shielding Gas: Ar	Shielding Gas: Ar or CO2
Base Metal: Pipe, SPSP38(KS D3582), 150A	Base Metal: Plate, SS400(JIS G3101), 19 mm
Filler Metal: AWS A5.18, ER70S-G	Filler Metal: AWS A5.18, ER70S-G, AWS A5.20, E71T1-FC
(Hyundai, ST-50G), 2.4mm	(Hyundai, ST-50G, 2.4 mm, SF-71, 1.2mm)
Backing Materials: N/A	Backing Materials: N/A
Preheat Temp. : Min. 10°C	Preheat Temp. : 10°C
Interpass Temp. : Max. 250°C	Interpass Temp. : Max. 250°C
Post Weld Heat Treatment: N/A	Post Weld Heat Treatment: N/A

Chang-Hae Kang, Surveyor, American Bureau of Shipping

Surveyor, American Bureau of Shipping

NOTE: This Report includes provisions with one or more of the Rules, guides, standards or other criteria of American Bureau of Shipping and is issued solely for the use of the Bureau. It is not to be used for any other purpose without the express written consent of the Bureau. The Bureau is not responsible for the use of this Report for any other purpose. The Bureau is not responsible for the use of this Report for any other purpose. The Bureau is not responsible for the use of this Report for any other purpose.

Revision 9



APPROVAL OF MANUFACTURER CERTIFICATE

Certificate No: **AMT000003S**
Revision No: **1**

This is to certify:
That the Manufacturer
DASCO Co., Ltd. (Gimhae factory)
Gimhae-si, Gyeongsangnam-do, Republic of Korea

is approved for the
Manufacture of Welded Pressure Vessels, Class 1 & II

The approval is granted on condition that
DNV GL class programme DNVGL-CP-0261 – Manufacture of pressure equipment
DNV GL class programme DNVGL-CP-0352 – Manufacture of welded products – Welding workshop

are complied with in all respect.

Welding of pressure equipment has been approved with the following particulars:
Welding supervisor : Young Sang, Seo
Deputy welding supervisor : Young Jin, Kim

Manufacturer(s) approved by this certificate is/are accepted to deliver according to DNV GL, DNV and GL rules.

Issued at **Høvik** on **2019-11-19**
for **DNV GL**

This Certificate is valid until **2020-12-31**.
DNV GL local station: **Changwon**

Approval Engineer: **Jane Lozanov**

Zeinab Sharifi
Head of Section

© DNV GL 2014. DNV GL and the Horizon Graphic are trademarks of DNV GL AS.

ТАМОЖЕННЫЙ СОЮЗ

СЕРТИФИКАТ СООТВЕТСТВИЯ

№ ТС RU С-KR.MN10.B.01126

Серия RU № 0147481

ОРГАН ПО СЕРТИФИКАЦИИ продукция и услуг "Башкирский центр сертификации и тестирования" ООО "АРТПРОУП", улица 50-летия Октября, дом 24, офис 309, город Уфа, Республика Башкортостан, Россия, 450005. Телефон +7 (347) 246-07-17, адрес электронной почты artgroup10@rambler.ru. Аттестат аккредитации № RA.RU.10MN10 выдан 24.06.2015 Федеральной службой по аккредитации.

ЗАЯВИТЕЛЬ Общество с ограниченной ответственностью "ТЕХНОХИМ".

ОГРН: 1090280010259. Место нахождения и фактический адрес: Улица Степана Злобина, дом 31, корпус 2, город Уфа, Республика Башкортостан, Российская Федерация, 450022. Телефон +7(967) 759 5835, адрес электронной почты techobim-ufa@mail.ru.

ИЗГОТОВИТЕЛЬ DASCO CO., LTD. Место нахождения и фактический адрес: 92, Gimhae-daero 91beon-gil, Hallim-myeon, Gimhae-si, Gyeongsangnam-do, Республика Корея.

ПРОДУКЦИЯ Аппараты теплообменные кожухотрубные, охладители промежуточные (INTER COOLER) и конденсаторы (AFTER COOLER), рабочее давление межтрубного пространства от 0,06 до 9,0 МПа, рабочее давление трубного пространства от 0,06 до 9,0 МПа, вместимость межтрубного пространства от 0,015 м³ до 16 м³, вместимость трубного пространства от 0,015 м³ до 16 м³. Продукция изготавливается в соответствии с ASME VIII раздел 1, редакция 2015 года "Правила проектирования сосудов под давлением". Серийный выпуск.

КОД ТН ВЭД ТС 8419 50 000 0

СООТВЕТСТВУЕТ ТРЕБОВАНИЯМ ТР ТС 010/2011 "О безопасности машин и оборудования".

СЕРТИФИКАТ ВЫДАНО НА ОСНОВАНИИ Протокола испытаний №1012/17 от 16.10.2017 Испытательной лаборатории потенциально опасных объектов Общества с ограниченной ответственностью "Научно-технический центр экспертизы, диагностики, освидетельствование", аттестат аккредитации № RA.RU.21TC01, акта о результатах анализа состояния прочности № 0725TC-17 от 28.08.2017, паспорта на сосуд, работающий под давлением, обоснования безопасности 17DP028-06, расчета на прочность № УР-17DP028-1C-SFR, инструкции по эксплуатации и техническому обслуживанию, сборочного чертежа VP-17DP028-1C-GA. Схема сертификации 1с.

АПОДРОБНАЯ ИНФОРМАЦИЯ Стадиарт, в результате применения которого обеспечивается соблюдение требований технического регламента: ГОСТ Р 52630-2012 "Сосуды и аппараты стальные сварные. Общие технические условия". Условия хранения, срок хранения без переконсервации и срок службы в соответствии с технической документацией изготовителя.

СРОК ДЕЙСТВИЯ С 30.10.2017 ПО 29.10.2022

ВКЛЮЧИТЕЛЬНО

Промоутер (уполномоченное

лицо) органа по сертификации

Е.П. Винокурова

(подпись, печать)

Эксперт (эксперт-аудитор)
(эксперт (эксперт-аудитор))

В.В. Шавалдина

(подпись, печать)

10/10/2017

APPROVAL CERTIFICATE FOR MANUFACTURING PROCESS

Certificate No.
Product
Manufacturer

: CWN24059-BP001

: Manufacture of Welded Class I & II Pressure Vessels

: DASCO Co., Ltd.

92, Gimhae-daero 916boon-gil, Hallim-myeon, Gimhae-si, Gyeongsangnam-do, 50850, Korea

Product Description: Manufacture of Welded Class I & II Pressure Vessels (Heat Exchangers)

Initial Approval : 10th September, 2018

Approval Condition: Approvals for Drawings of Pressure Vessels, Welding Procedure Specifications and Welding Consumables for this Approval are to be maintained in accordance with the following conditions:

1. Materials/Welding consumables shall be of certified by this Society.
2. Individual Product Certification is required.

THIS IS TO CERTIFY that the manufacturing process for the above mentioned product has been approved in accordance with the relevant requirement of this Society's Rules and / or of the recognized standards as follows and entered in the "List of Approved Manufacturer and Type-Approved Equipment".

Pl 5, Ch 5, Sec 4 of the Rules for Classification of Steel Ships.

This Certificate is valid until 9th September, 2023
Issued at Busan, Korea on 10th September, 2018

KOREAN REGISTER OF SHIPPING

Signature

General Manager of
Marine & Ocean Equipment Team

Note : 1. This certificate will be valid subject to compliance with the approval conditions described and the certificate holder on the basis of the Society.
2. This certificate will be valid subject to compliance with the approval conditions described and the certificate holder on the basis of the Society.
3. The certificate holder is responsible for ensuring that the product is in accordance with the requirements as specified in the certificate.
4. Should the product holder, registered or standards be amended during the validity of this certificate, the product is to be re-approved by the Society in accordance with the requirements as specified in the certificate.

Form AC-1A (2017.09)

ЕВРАЗИЙСКИЙ ЭКОНОМИЧЕСКИЙ СОЮЗ ДЕКЛАРАЦИЯ О СООТВЕТСТВИИ

Заявитель. Общество с ограниченной ответственностью "ТЕХНОХИМ". ОГРН: 1090286010259.

Место нахождения и адрес места осуществления деятельности: Улица Степана Забона, дом 31, корпус 2, город Уфа.

Республика Башкортостан, Российская Федерация, 450022. Номер телефона: +7(967) 739 5835. Адрес электронной почты: technoim-eu@mail.ru.

в лице директора Валентина Марата Маросова

Заявляет, что

Аппараты теплообменные кожухотрубчатые, охладители промежуточные (INTER COOLER) и конденсаторы (AFTER COOLER), рабочее давление междутрубного пространства от 0,06 до 9 МПа, рабочее давление трубного пространства от 0,06 до 9 МПа, вместимость междутрубного пространства от 0,015 м³ до 16 м³, вместимость трубного пространства от 0,015 м³ до 16 м³, рабочая среда газ и жидкость, группы сред 1 и 2, категория оборудования 1 и 2 в соответствии с приложением № 1 ТР ТС 032/2013.

охлаждающее DASCO CO., LTD.

Место нахождения и адрес места осуществления деятельности по изготовлению продукции: 92, Ginhwa-daeo 916beom-gil,

Hallim-myeon, Gimhae-si, Gyeongsangnam-do, Республика Корея

продукция изготовлена в соответствии с

ASME VIII раздел 1, редакция 2015 года "Правила проектирования сосудов под давлением"

код ТН ВЭД ЕАЭС 8419 50 00 0

Серийный выпуск.

соответствует требованиям

ТР ТС 032/2013 "О безопасности оборудования, работающего под избыточным давлением"

Декларация о соответствии принята на основании

Протокола испытаний №101217 от 16.10.2017 Испытательной лаборатории потешинского филиала общества «Общество с ограниченной ответственностью "Научно-технический центр экспертиза, диагностика, сертификация сосудов"». Регистрационный номер декларации № ЕАЭС.01.001.17.17P028-1C-STR, выданной на сосуд, работающий под давлением, обоснованный техническими расчетами в соответствии с ТР ТС 032/2013 "О безопасности оборудования, работающего под избыточным давлением", в соответствии с чертёж ВР-17P028-1C-60A, протокол внутреннего и внешнего осмотра (WPS&WQR) GTEC-1.1-102, технические характеристики РС-1.1-101, QFC-1.1-101, сварки и приварки элементов (WPS&WQR) GTEC-1.1-102, QGTEC-1.1-102, от 06.09.2017, протоколы о неразрушающих контроля сварных соединений КИТС-Р7P028-1C-170720-01 от 22.07.2017, КИТС-Р7R-17P028-1C-170720-01 от 20.07.2017, КИТС-Р7R-17P028-1C-170720-01 от 20.07.2017, КИТС-Р7R-17P028-1C-170720-01 от 20.07.2017, КИТС-МTR-17P028-1C-170720-01 от 25.07.25.08.2017, КИТС-МTR-17P028-1C-170720-01 от 20.07.2017, КИТС-МTR-17P028-1C-170720-01 от 25.08.2017, КИТС-МTR-17P028-1C-170720-01 от 25.08.2017, протокол визуального контроля DSTW-Q17-0825-01, DR-CX-EX-17P028-01 от 07.09.2017.

Схема декларирования 1а.

Дополнительная информация

Копия сертификата о государственной регистрации юридического лица: копия договора 210417/03 от 21.04.2017 с иностранным изготовителем. Стандарт, в результате применения которого обеспечивается соблюдение требований технического регламента: ТСОСТ Р 52630-2013 "Сосуды и аппараты стальные сварные. Общие технические условия". Условия хранения, срок хранения без пересертификации и срок службы в соответствии с технической документацией изготовителя.

Декларация о соответствии действительна с даты регистрации по 30.10.2022 включительно.

Подпись

Валентин Марат Маросов

и.д.д. Валентин

Регистрационный номер декларации о соответствии ЕАЭС № Н

Дата регистрации декларации о соответствии 31.10.2017

КС.МН10.В.00750



ТАМОЖЕННЫЙ СОЮЗ

СЕРТИФИКАТ СООТВЕТСТВИЯ

№ TC RU-CR.MH10.B.01127

Серия RU № 0147482

ОРГАН ПО СЕРТИФИКАЦИИ продукция и услуг "Башкирский центр сертификации и тестирования" ООО "АРТГРУПП", уллица 50-летия Октября, дом 24, офис 309, город Уфа, Республика Башкортостан, Россия, 450005. Телефон +7 (347) 246-07-17, адрес электронной почты artgroup10@rambler.ru. Аттестат аккредитации № RA.RU.10MH10 выдан 24.06.2015 Федеральным службой по аккредитации.

ЗАЯВИТЕЛЬ: Общество с ограниченной ответственностью "ТЕХНОХИМ".
ОГРН: 1090280010259. Место нахождения и фактический адрес: Улица Степана Зюбина, дом 31, корпус 2, город Уфа, Республика Башкортостан, Российская Федерация, 450022. Телефон +7(967) 739 5835, адрес электронной почты technohim-ufa@mail.ru.

ИЗГОТОВИТЕЛЬ: DASCO CO., LTD. Место нахождения и фактический адрес: 92, Gimhne-daero 91 beon-gil, Hallim-myeon, Gimhae-si, Gyeongsangnam-do, Республика Корея.

ПРОДУКЦИЯ: Аппараты теплообменные кожухотрубные, охладители промежуточные (INTER COOLER) и конденсаторы (ARTER COOLER), рабочее давление межтрубного пространства от 0,06 до 9,0 МПа, рабочее давление трубного пространства от 0,06 до 9,0 МПа, вместимость межтрубного пространства от 0,015 м³ до 16 м³, вместимость трубного пространства от 0,015 м³ до 16 м³, рабочая среда газ и жидкость, группы среда 1 и 2, категория оборудования 3 и 4 в соответствии с приложениями № 1 TP TC 032/2013. Продукция изготавливается в соответствии с ASME VIII раздел 1, редакция 2015 года "Правила проектирования сосудов под давлением". Серийный выпуск.

КОД ТН ВЭД ТС: 8419 50 000 0

СООТВЕТСТВУЕТ ТРЕБОВАНИЯМ: TP TC 032/2013 "О безопасности оборудования, работающего под избыточным давлением".

СЕРТИФИКАТ ВЫДАН НА ОСНОВАНИИ: Протокола испытаний №1012/17 от 16.10.2017 Испытательной лаборатории потенциально опасных объектов Общества с ограниченной ответственностью "Научно-технический центр экспертизы, диагностики, освидетельствования", аттестат аккредитации № RA.RU.21TC01, акта о результатах анализа состояния производства № 076TC1-17 от 28.08.2017, паспорта на сосуд, работающий под давлением, обоснования безопасности 17DPW28-06, расчета на прочность № УР-17DPW28-11C-STP, инструкции по эксплуатации и техническому обслуживанию, сборочного чертежа УР-17DPW28-11C-GA. Схема сертификации 1с.

ДОПОЛНИТЕЛЬНАЯ ИНФОРМАЦИЯ: Стандарт, в результате применения которого обеспечивается выполнение требований технического регламента: ГОСТ Р 26630-2012 "Сосуды и аппараты стальные сварные. Общие технические условия". Условия хранения, срок хранения без переаккредитации и срок службы в соответствии с технической документацией изготовителя.



СРОК ДЕЙСТВИЯ: с 30.10.2017 по 23.10.2022

ВКЛЮЧИТЕЛЬНО

Руководитель (уполномоченное лицо) органа по сертификации

Эксперт (эксперт-эvaluator)

Эксперт (эксперт-эvaluator)

Е.П. Винокурова
(подпись, фамилия)

В.В. Шавалдин
(подпись, фамилия)

11. TEST & MEASURING EQUIPMENTS

1) I.M.T.E Control List

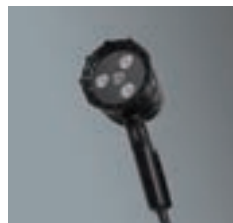
No.	Equipment	Specification	Q'ty
1	Dial Pressure Gauge	0.1 ~ 100MPa	-
2	Ultrasonic Th'k Gauge	2 ~ 200mm (1ea), 2 ~ 225mm (1ea)	2
3	Marking Machine	E-MARK	1
4	Pressure Recorder	0 ~ 10MPa	2
5	Borescope	-	1
6	Vibration Analyzer	-	1
7	Black Light Inspection	UV-LED/3P-BS	1
8	Helium Leak Detector	ASM340	1
9	Coating thickness tester & etc.	-	38
10	Positive Material Identification (PMI)	-	1



Borescope



Vibration Analyzer



Black Light Inspection

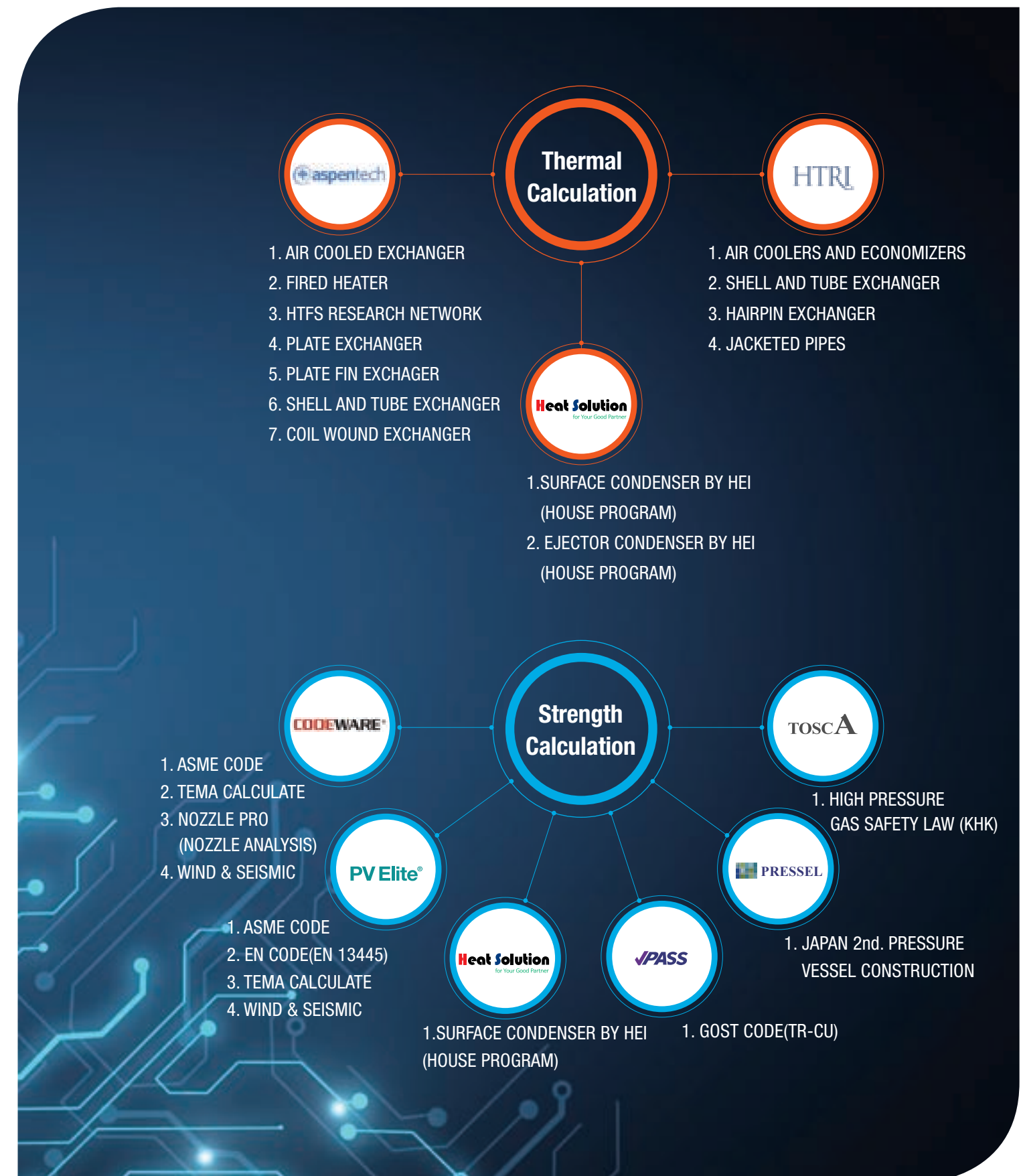


Helium Leak Detector

2) Welding Machine List

No.	Equipment	Model	Manufacture	Type
1	AC / DC Ammeter	D - 70	GBE	GTAW
2	AC / DC Ammeter	DUTY - 500D	PRO - TECK	FCAW
3	AC / DC Ammeter	M - 50	MEC	FCAW
4	AC / DC Ammeter	M - 68	MEC	FCAW
5	AC / DC Ammeter	MICRO - 352XD	PRO - TECH	FCAW
6	AC / DC Ammeter	SCM 6	CEW	FCAW
7	AC / DC Ammeter	TRM - 60	KUWANO	GTAW
8	DC Ammeter	US - 50	TECHWIN	GTAW

12. DESIGN LICENSE LIST



13. EXPERIENCE LIST

Experience List (for Inter/ After Cooler for Compressor)

JOB No	END USER	CONTRACTOR	PROJECT Name / ITEM Name	LOCATION	ITEM	Q'TY	DELIVERY
2006	STANDARD MODEL FOR COMPRESSOR	HANWHA (SAMSUNG) TECHWIN	26 PROJECT / INTER, AFTER COOLER (STANDARD TYPE)	TOTAL	26	42 UNIT	2006
2007	STANDARD MODEL FOR COMPRESSOR	HANWHA (SAMSUNG) TECHWIN	138 PROJECT / INTER, AFTER COOLER (STANDARD TYPE)	TOTAL	138	247 UNIT	2007
2008	STANDARD MODEL FOR COMPRESSOR	HANWHA (SAMSUNG) TECHWIN	193 PROJECT / INTER, AFTER COOLER (STANDARD TYPE)	TOTAL	193	285 UNIT	2008
2009	STANDARD MODEL FOR COMPRESSOR	HANWHA (SAMSUNG) TECHWIN	59 PROJECT / INTER, AFTER COOLER (STANDARD TYPE)	TOTAL	59	120 UNIT	2009
2010	STANDARD MODEL FOR COMPRESSOR	HANWHA (SAMSUNG) TECHWIN	59 PROJECT / INTER, AFTER COOLER (STANDARD TYPE)	TOTAL	100	160 UNIT	2010
2011	STANDARD MODEL FOR COMPRESSOR	HANWHA (SAMSUNG) TECHWIN	INTER, AFTER COOLER (STANDARD TYPE)	ALL ITEMS	ALL	200 UNIT	2011
2011-1	LINDE	HANWHA (SAMSUNG) TECHWIN	KARRATHA / INTER COOLER BUNDLE WITH SHELL	AUSTRALIA	4	1 UNIT	2011
2011-2	COSMODYNE	HANWHA (SAMSUNG) TECHWIN	COSMODYNE RAC / INTER COOLER BUNDLE WITH SHELL	USA	2	1 UNIT	2011
2011-3	SK INNOVATION	HANWHA (SAMSUNG) TECHWIN	SK INNOVATION / INTER COOLER BUNDLE WITH SHELL	KOREA	3	1 UNIT	2011
2011-4	KISLORODMASH-BNC	HANWHA (SAMSUNG) TECHWIN	KISLORODMASH / INTER COOLER BUNDLE WITH SHELL	RUSSIA	2	2 UNIT	2011
2011-5	HITACHI PLANT TECHNOLOGIES	RUN TECH	INTER COOLER	JAPAN	1	2 UNIT	2011
2011-6	HITACHI PLANT TECHNOLOGIES	RUN TECH	INTER COOLER	JAPAN	1	2 UNIT	2011
2011-7	HITACHI PLANT TECHNOLOGIES	RUN TECH	INTER COOLER	JAPAN	5	10 UNIT	2011
2011-8	LINDE KOREA	LINDE KOREA	INTER COOLER	KOREA	1	3 UNIT	2011
2012	STANDARD MODEL FOR COMPRESSOR	HANWHA (SAMSUNG) TECHWIN	INTER, AFTER COOLER (STANDARD TYPE)	ALL ITEMS	ALL	150 UNIT	2012
2012-1	KISLORODMASH-BAC	HANWHA (SAMSUNG) TECHWIN	KISLORODMASH / INTER COOLER BUNDLE WITH SHELL	RUSSIA	3	6 UNIT	2012
2012-2	WEST QURNA	HANWHA (SAMSUNG) TECHWIN	WEST QURNA / INTER COOLER BUNDLE WITH SHELL	IRAQ	3	2 UNIT	2012
2012-3	HYOSUNG CORPORATION	HYOSUNG CORPORATION	INTER COOLER	KOREA	1	2 UNIT	2012
2012-4	LINDE KOREA	LINDE KOREA	1-ST & 2'ND INTER COOLER	KOREA	1	3 UNIT	2012
2012-5	HITACHI PLANT TECHNOLOGIES	RUN TECH	INTER COOLER	JAPAN	1	3 UNIT	2012
2012-6	HONAM PETROCHEMICAL	HONAM PETROCHEMICAL	C-1301 INTER COOLER	KOREA	1	1 UNIT	2012
2012-7	HITACHI PLANT TECHNOLOGIES	RUN TECH	INTER COOLER	JAPAN	1	3 UNIT	2012
2013	STANDARD MODEL FOR COMPRESSOR	HANWHA (SAMSUNG) TECHWIN	INTER, AFTER COOLER (STANDARD TYPE)	ALL ITEMS	ALL	218 UNIT	2013
2013-1	HITACHI PLANT TECHNOLOGIES	RUN TECH	EH20 / INTER, AFTER COOLER	JAPAN	1	2 UNIT	2013
2013-2	HITACHI PLANT TECHNOLOGIES	RUN TECH	HITURBO-10000 / INTER, AFTER COOLER	JAPAN	1	3 UNIT	2013
2013-3	HITACHI PLANT TECHNOLOGIES	RUN TECH	EH31 / INTER, AFTER COOLER	JAPAN	1	2 UNIT	2013
2013-4	SKEC	HANWHA (SAMSUNG) TECHWIN	SK NEXLENE / INTER COOLER BUNDLE WITH SHELL	KOREA	3	3 UNIT	2013
2013-5	BOC TATA STEEL	HANWHA (SAMSUNG) TECHWIN	BOC TATA STEEL / AFTER COOLER BUNDLE WITH SHELL	INDIA	1	1 UNIT	2013
2013-6	KOREA EAST-WEST POWER	HANWHA (SAMSUNG) TECHWIN	DANGJIN / INTER COOLER BUNDLE WITH SHELL (KESCO)	KOREA	3	4 UNIT	2013
2013-7	SAMSUNG TECHWIN	HANWHA (SAMSUNG) TECHWIN	DMKD / INTER COOLER BUNDLE WITH SHELL	UZBEKISTAN	1	2 UNIT	2013
2013-8	SAMSUNG TECHWIN	HANWHA (SAMSUNG) TECHWIN	FORTUNE / INTER COOLER BUNDLE WITH SHELL	RUSSIA	2	2 UNIT	2013
2013-9	COSMODYNE	HANWHA (SAMSUNG) TECHWIN	COSMODYNE RNC / INTER COOLER BUNDLE WITH SHELL	USA	3	2 UNIT	2013
2013-10	CRYOGENMASH	HANWHA (SAMSUNG) TECHWIN	LIORA BAC / I.C BUNDLE WITH SHELL (ASME U-STAMP)	RUSSIA	3	1 UNIT	2014
2013-11	KEPCO	SUNGSAI	DANGJIN / TRANSFORMER OIL COOLER	KOREA	1	1 UNIT	2013
2014	STANDARD MODEL FOR COMPRESSOR	HANWHA (SAMSUNG) TECHWIN	INTER, AFTER COOLER (STANDARD TYPE)	ALL ITEMS	ALL	121 UNIT	2014
2014-1	HITACHI PLANT TECHNOLOGIES	RUN TECH	HITURBO-16000 / INTER, AFTER COOLER	JAPAN	1	3 UNIT	2014
2014-2	SIAD LITHUANIA	HANWHA (SAMSUNG) TECHWIN	LITHUANIA / PRE COOLER WITH SHELL (PED-CE Mark)	RUSSIA	1	1 UNIT	2014
2014-3	GS DONGHAE ELECTRIC POWER	HANWHA (SAMSUNG) TECHWIN	BUKPYEONG / INTER COOLER BUNDLE WITH SHELL	KOREA	1	3 UNIT	2014

Experience List (for Inter/ After Cooler for Compressor)

JOB No	END USER	CONTRACTOR	PROJECT Name / ITEM Name	LOCATION	ITEM	Q'TY	DELIVERY
2014-4	KOREA WESTERN POWER	HANWHA (SAMSUNG) TECHWIN	TAENAN #9
 / INTER COOLER BUNDLE WITH SHELL	KOREA	1	2 UNIT	2014
2014-5	EGYPT ERC	HANWHA (SAMSUNG) TECHWIN	EGYPT ERC / INTER COOLER BUNDLE WITH SHELL	EGYPT	1	2 UNIT	2014
2014-6	KOLON INDUSTRIES	KOLON / GIMCHEON FACTORY	7K TURBO COMP #6 & #7 / INTER COOLER	KOREA	2	2 UNIT	2014
2014-7	K K MULSAN	K K MULSAN	Tx-M TURBO COMPRESSOR / AIR COOLER	JAPAN	1	1 UNIT	2014
2014-8	ABU DHABI MARINE OPERATING COMPANY	HANWHA (SAMSUNG) TECHWIN	SARB IA / INTER COOLER	UAE	1	3 UNIT	2014
2015	STANDARD MODEL FOR COMPRESSOR	HANWHA POWER SYSTEM	INTER, AFTER COOLER (STANDARD TYPE)	ALL ITEMS	ALL	204 UNIT	2015
2015	STANDARD MODEL FOR COMPRESSOR	HYUNDAI HEAVY INDUSTRIES	INTER, AFTER COOLER (STANDARD TYPE)	ALL ITEMS	ALL	8 UNIT	2016
2015-1	HITACHI PLANT TECHNOLOGIES	RUN TECH	EH42 / INTER, AFTER COOLER	JAPAN	2	2 UNIT	2015
2015-2	HITACHI PLANT TECHNOLOGIES	RUN TECH	EH31 / INTER, AFTER COOLER	JAPAN	2	2 UNIT	2015
2015-3	HITACHI PLANT TECHNOLOGIES	RUN TECH	EH20 / INTER, AFTER COOLER	JAPAN	1	2 UNIT	2015
2015-4	AIR LIQUIDE / BAKU STEEL	HANWHA POWER SYSTEM	AZERBAIJAN / AFTER COOLER	AZERBAIJAN	1	2 UNIT	2015
2015-5	IRAN HORMOZGAN STEEL	HANWHA POWER SYSTEM	IRAN HORMOZGAN MAC / INTER, AFTER COOLER	IRAN	4	1 UNIT	2015
2015-6	IRAN HORMOZGAN STEEL	HANWHA POWER SYSTEM	IRAN HORMOZGAN BAC / INTER, AFTER COOLER	IRAN	2	1 UNIT	2015
2015-7	INOTERA	AIR LIQUIDE	ALFE INOTERA / AFTER COOLER	TAIWAN	1	1 UNIT	2015
2015-8	SK E&C	HANWHA POWER SYSTEM	GUNSAN GE3 / AFTER COOLER	KOREA	1	1 UNIT	2015
2015-9	SIAD	HANWHA POWER SYSTEM	SIAD N2 / AFTER COOLER	ITALY	1	1 UNIT	2015
2015-10	STAR REFINERY A.S.	HANWHA POWER SYSTEM	AGEAN REFINERY PROJECT (ARP) / INTER COOLER	U.S.A	1	6 UNIT	2015
2015-11	STATE COMPANY FOR OIL PROJECT (SCOP)	HANWHA POWER SYSTEM	KARBALA REFINERY FEED / INTER, AFTER COOLER	IRAQ	3	3 UNIT	2016
2015-12	KUWAIT NATIONAL PETROLEUM COMPANY	HANWHA POWER SYSTEM	KNPC MMA IA / INTER, AFTER COOLER	KUWAIT	3	2 UNIT	2016
2015-13	KOREA DISTRICT HEATING CORP.	HANWHA POWER SYSTEM	HWASUNG DONGTAN2 FGC / AFTER COOLER	KOREA	1	3 UNIT	2016
2015-14	JFE STEEL CORPORATION	IHI	3051-073(F9543S-13300 KW) / AFTER COOLER	JAPAN	3	1 UNIT	2016
2015-15	POSCO E&C	HYUNDAI HEAVY INDUSTRIES	CHUNCHEON CHP / AFTER COOLER	KOREA	1	2 UNIT	2016
2015-16	PRAXAIR	HANWHA POWER SYSTEM	PRAXAIR - PRENTISS / INTER, AFTER COOLER	CANADA	2	2 UNIT	2016
2015-17	HANWHA POWER SYSTEM	HANWHA POWER SYSTEM	SM4000 MESAIER / AFTER COOLER	KOREA	1	1 UNIT	2016
2015-18	DAELIM IND.	HANWHA POWER SYSTEM	DAELIM PB2 REVAMPING / RECYCLE COOLER	KOREA	2	1 UNIT	2016
2016	STANDARD MODEL FOR COMPRESSOR	HANWHA POWER SYSTEM	INTER, AFTER COOLER (STANDARD TYPE)	ALL ITEMS	ALL	188 UNIT	2016
2016	STANDARD MODEL FOR COMPRESSOR	HYUNDAI HEAVY INDUSTRIES	INTER, AFTER COOLER (STANDARD TYPE)	ALL ITEMS	ALL	22 UNIT	2016
2016	STANDARD MODEL FOR COMPRESSOR	SEAH ENGINEERING	INTER, AFTER COOLER (STANDARD TYPE)	ALL ITEMS	ALL	43 UNIT	2016
2016-1	SOXAL	AIR LIQUIDE	SSMC CIP / AFTER COOLER	SINGAPORE	2	1 UNIT	2016
2016-2	LINDE VOGAR	HANWHA POWER SYSTEM	LINDE VOGAR / AFTER COOLER	ISLAND	1	1 UNIT	2016
2016-3	KOLON INDUSTRIES	KOLON / GIMCHEON FACTORY	7K TURBO COMPRESSOR #8 / INTER COOLER	KOREA	2	1 UNIT	2016
2016-4	TRISONIC	HANWHA POWER SYSTEM	TRISONIC / INTER, AFTER COOLER	CANADA	3	3 UNIT	2016
2016-5	SK E&C	HANWHA POWER SYSTEM	GUNSAN GE3 / AFTER COOLER	KOREA	1	1 UNIT	2016
2016-6	SEAH ENGINEERING	SEAH ENGINEERING	ST450L2 / INTER, AFTER COOLER	KOREA	2	1 UNIT	2016
2016-7	LINDE ISKENDERUN	HANWHA POWER SYSTEM	ISKENDERUN / AFTER COOLER	TURKEY	1	1 UNIT	2016
2016-8	POLARIS	HANWHA POWER SYSTEM	POLARIS / AFTER COOLER	ITALY	1	1 UNIT	2016
2016-9	S-OIL	HANWHA POWER SYSTEM	S-OIL OXIDATION / INTER, AFTER COOLER	KOREA	3	2 UNIT	2017
2016-10	S-OIL	HANWHA POWER SYSTEM	S-OIL PACKAGE #1 / INTER, AFTER COOLER	KOREA	3	3 UNIT	2017

Experience List (for Inter/ After Cooler for Compressor)

JOB No	END USER	CONTRACTOR	PROJECT Name / ITEM Name	LOCATION	ITEM	Q'TY	DELIVERY
2016-11	S-OIL	HANWHA POWER SYSTEM	S-OIL PACKAGE #2 / INTER, AFTER COOLER	KOREA	3	1 UNIT	2017
2016-12	S-OIL	HANWHA POWER SYSTEM	S-OIL PACKAGE #3 / INTER, AFTER COOLER	KOREA	3	3 UNIT	2017
2016-13	D.S.M.E	HANWHA POWER SYSTEM	DSME H. 2462 / AFTER COOLER	KOREA	1	1 UNIT	2017
2016-14	LINDE LIENHWA UIGC	HANWHA POWER SYSTEM	LINDE LIENHWA / AFTER COOLER	TAIWAN	3	1 UNIT	2017
2017-1	POSCO	HANWHA POWER SYSTEM	POSCO GWANGYANG / AFTER COOLER	KOREA	1	1 UNIT	2017
2017-2	HYDROSTOR	HANWHA POWER SYSTEM	HYDROSTOR / INTER COOLER	CANADA	1	1 UNIT	2017
2017-3	SEVERSTAL	HANWHA POWER SYSTEM	RU SEVERSTAL / INTER, AFTER COOLER	RUSSIA	3	9 UNIT	2017
2017-4	M-TIS	M-TIS	MTIS1250 / INTER, AFTER COOLER	KOREA	2	2 UNIT	2017
2017-5	KIMM	DJMCL	KIMM / Air Cooler	KOREA	1	1 SET	2017
2017-6	GENEQ	GENEQ	WA-S650S / INTER COOLER	KOREA	1	1 UNIT	2017
2017-7	SIAD	HANWHA POWER SYSTEM	LINDE SIAD / INTER, AFTER COOLER	ALGERIA	1	1 UNIT	2017
2017-8	GLENMONT	HANWHA POWER SYSTEM	GLENMONT / AFTER COOLER	U.S.A	1	1 UNIT	2017
2017-9	CALSPAN	HANWHA POWER SYSTEM	US CALSPAN / AFTER COOLER	U.S.A	1	1 UNIT	2017
2017-10	M-TIS	M-TIS	MTS2250 / INTER, AFTER COOLER	KOREA	2	2 UNIT	2017
2017-11	ARAMCO	HANWHA POWER SYSTEM	EDRF / INTER, AFTER COOLER	SAUDI ARABIA	3	9 UNIT	2018
2017-12	VOORHEESVILLE	HANWHA POWER SYSTEM	KIPIC AL-ZOUR LINGIAZRP / OIL COOLER	KUWAIT	3	6 UNIT	2018
2017-13	SERBIA	ATLAS COPCO - AMERICA	SERBIA (T-40001009) / INTER, AFTER COOLER	SERBIA	1	4 UNIT	2018
2017-14	KAZANORGSSINTEZ	HANWHA POWER SYSTEM	RU KAZANORGSSINTEZ #01 / INTER, AFTER COOLER	RUSSIA	4	4 UNIT	2018
2017-15	SHI INTERNATIONAL	HANWHA POWER SYSTEM	SHIMOZAMBIQUE ENI / INTER, AFTER COOLER	MOZAMBIQUE	3	9 UNIT	2018
2017-16	VOORHEESVILLE	ATLAS COPCO - AMERICA	VOORHEESVILLE / INTER, AFTER COOLER	U.S.A	3	6 UNIT	2018
2017-17	SONY	AIR LIQUIDE-J	SONY KUMAMOTO NO 3 / AFTER COOLER	JAPAN	1	1 UNIT	2018
2018-1	FARABI	HANWHA POWER SYSTEM	FARABI / INTER, AFTER COOLER	IRAN	3	6 UNIT	2018
2018-2	SAUDI ARAMCO	HANWHA POWER SYSTEM	SIAD ARAMCO / AFTER COOLER	SAUDI ARABIA	1	2 UNIT	2018
2018-3	M-TIS	M-TIS	MTIS1250 / INTER, AFTER COOLER	KOREA	2	2 UNIT	2018
2018-4	LINDE GIHEUNG	HANWHA POWER SYSTEM	LINDE GIHEUNG / INTER, AFTER COOLER	KOREA	4	16 UNIT	2018
2018-5	BRASKEM	HANWHA POWER SYSTEM	BRASKEM / INTER, AFTER COOLER	BRAZIL	1	1 UNIT	2018
2018-6	LINDE LIHWA	HANWHA POWER SYSTEM	LINDE LIHWA / INTER, AFTER COOLER	TAIWAN	3	6 UNIT	2018
2018-7	TNSC	IHI ROTATING MACHINERY	3051133 TNS / INTER, AFTER COOLER	IRAN	3	9 UNIT	2018
2018-8	SHIN ETSU	KOBE STEEL, LTD.	SSP-3 PLAQUEMINE CA PLANT / INTER, AFTER COOLER	USA	3	9 UNIT	2018
2018-9	TAKHATASH POWER PLANT	HANWHA POWER SYSTEM	TAKHATASHI / INTER COOLER	TAKHATASH	1	3 UNIT	2018
2018-10	AMK	ATLAS COPCO - AMERICA	ALE AMK 02 / INTER, AFTER COOLER	GERMANY	4	8 UNIT	2018
2018-11	THAILAND PETROCHEMICAL PLANT	KOBE STEEL, LTD.	SECL PTTGCVG593 / INTER, AFTER COOLER	THAILAND	3	3 UNIT	2018
2018-12	THAILAND PETROCHEMICAL PLANT	KOBE STEEL, LTD.	SECL PTTGCVG593 / INTER, AFTER COOLER	THAILAND	3	3 UNIT	2018
2018-13	AMUR GAS PROCESSING PLANT	HANWHA POWER SYSTEM	TECHIMONT AGPP SINERGIA / INTER COOLER	RUSSIA	4	6 UNIT	2018
2018-14	AMUR GAS PROCESSING PLANT	HANWHA POWER SYSTEM	TECHIMONT AGPP SIAD / INTER COOLER	RUSSIA	2	6 UNIT	2018
2018-15	AIR LIQUIDE	KOBE STEEL, LTD.	17-00714 YEOSU 4 / INTER, AFTER COOLER	JAPAN	6	6 UNIT	2018
2018-16	CRYOGENMASH	HANWHA POWER SYSTEM	S_R CRYOGENMASH ZHELEZNGORSK / AFTER COOLER	RUSSIA	1	1 UNIT	2018
2018-17	PETRONA	HANWHA POWER SYSTEM	HEC MELAKA EUROS / INTER, AFTER COOLER	MALAYSIA	2	3 UNIT	2018

Experience List (for Inter/ After Cooler for Compressor)

JOB No	END USER	CONTRACTOR	PROJECT Name / ITEM Name	LOCATION	ITEM	Q'TY	DELIVERY
2018-18	LINDE SEOSAN	HANWHA POWER SYSTEM	PA LINDE SEOSAN / AFTER COOLER	KOREA	1	2 UNIT	2018
2018-19	MARAN GAS MARITIME	ATLAS COPCO - AMERICA	DSME 2477 (T-1147,49) / INTER, AFTER COOLER	GREECE	2	3 UNIT	2018
2018-20	MARAN GAS MARITIME	ATLAS COPCO - AMERICA	DSME 2477 (T-1147,49) / INTER, AFTER COOLER	GREECE	2	3 UNIT	2019
2018-21	TATNEFT	HANWHA POWER SYSTEM	TATNEFT NIZHNEKAMSK / AFTER COOLER	RUSSIA	1	2 UNIT	2018
2018-22	BIDBOLAND GAS PLANT	HANWHA POWER SYSTEM	BIDBOLAND / AFTER COOLER	IRAN	1	3 UNIT	2018
2018-23	PRAXAIR	HANWHA POWER SYSTEM	PRAXAIR/PYEONGTAEK / INTER, AFTER COOLER	KOREA	4	4 UNIT	2019
2018-24	PRAXAIR	HANWHA POWER SYSTEM	PRAXAIR/PYEONGTAEK / INTER, AFTER COOLER	KOREA	3	3 UNIT	2019
2018-25	VOORHEESVILLE	ATLAS COPCO - AMERICA	T-1158MEXICO / INTER COOLER	MEXICO	2	2 UNIT	2019
2018-26	-	IHI ROTATING MACHINERY	3051-0138/KOREA / INTER, AFTER COOLER	KOREA	4	4 UNIT	2019
2018-27	-	IHI ROTATING MACHINERY	30510141/JAPAN / INTER, AFTER COOLER	JAPAN	3	3 UNIT	2019
2018-28	-	IHI ROTATING MACHINERY	TLO / INTER, AFTER COOLER	JAPAN	2	2 UNIT	2019
2018-29	YEOSU PLANT	HANWHA POWER SYSTEM	ALK YEOSU Y4 NG BOOSTER / INTER, AFTER COOLER	KOREA	2	2 UNIT	2019
2018-30	SINSEOCHEON THERMAL POWER PLANT	HH- TMC	SINSEOCHEON / INTER, AFTER COOLER	KOREA	3	12 UNIT	2019
2018-31	THAILAND PETROCHEMICAL PLANT	HANWHA POWER SYSTEM	THAILAND / AFTER COOLER	THAILAND	1	1 UNIT	2019
2018-32	LINDE SEOSAN	HANWHA POWER SYSTEM	PA LINDE SEOSAN / AFTER COOLER	KOREA	1	1 UNIT	2018
2018-33	TNSC	IHI ROTATING MACHINERY	3051142/TNS / INTER, AFTER COOLER	IRAN	5	5 UNIT	2019
2018-34	TNSC	IHI ROTATING MACHINERY	3051-144/TNSC / INTER, AFTER COOLER	IRAN	4	4 UNIT	2019
2018-35	-	IHI ROTATING MACHINERY	3051-143/KOREA / INTER, AFTER COOLER	KOREA	4	4 UNIT	2019
2018-36	-	IHI ROTATING MACHINERY	3051145_KOREA / INTER, AFTER COOLER	KOREA	4	8 UNIT	2019
2018-37	PRAXAIR	HANWHA POWER SYSTEM	PRAXAIR/YONGIN(EN3000) / INTER, AFTER COOLER	KOREA	3	3 UNIT	2019
2018-38	LINDE SEOSAN	HANWHA POWER SYSTEM	PA LINDE SEOSAN / AFTER COOLER	KOREA	1	3 UNIT	2019
2018-39	PRAXAIR	HANWHA POWER SYSTEM	PRAXAIR/YONGIN / INTER, AFTER COOLER	KOREA	4	4 UNIT	2019
2018-40	NEFTECHEMSERVICE	HANWHA POWER SYSTEM	YASKY / AFTER COOLER	RUSSIA	1	1 UNIT	2019
2019-01	ARAMCO	HANWHA POWER SYSTEM	HAWIYAH GAS PLANT EXPANSION / INTER, AFTER COOLER	SAUDI ARABIA	2	12 UNIT	2019
2019-02	SUMIKIN	IHI ROTATING MACHINERY	3004Y43 / SUMIKIN / INTER, AFTER COOLER	JAPAN	2	2 UNIT	2019
2019-03	-	IHI ROTATING MACHINERY	3051-X05(F) / JAPAN / INTER, AFTER COOLER	JAPAN	3	3 UNIT	2019
2019-04	-	IHI ROTATING MACHINERY	3051-154 / NAGOYA / INTER, AFTER COOLER	JAPAN	3	3 UNIT	2019
2019-05	HANSOL PAPER	MTIS	HANSOL PAPER / AFTER COOLER	KOREA	1	1 UNIT	2019
2019-06	MESSER	HANWHA POWER SYSTEM	MESSER / AFTER COOLER	-	1	1 UNIT	2019
2019-07	HANWHA GENERAL CHEMICAL	HANWHA POWER SYSTEM	HANWHA GENERAL CHEMICAL / INTER, AFTER COOLER	KOREA	3	1 UNIT	2019
2019-08	ARAMCO	HANWHA POWER SYSTEM	ARAMCO-SHEDGUM / INTER, AFTER COOLER	SAUDI ARABIA	3	1 UNIT	2019
2019-09	BAHRAIN PERTROLEUM COMPANY	HANWHA POWER SYSTEM	BAPCO- M.A.C / INTER, AFTER COOLER	BAHRAIN	3	2 UNIT	2019
2019-10	LINDE	HANWHA POWER SYSTEM	LINDE- KEDANIAI / AFTER COOLER	LITHUANIA	1	1 UNIT	2019
2019-11	PT. KRAKATAU SAMATOR	HANWHA POWER SYSTEM	KRAKATAU SAMATOR / AFTER COOLER	INDONESIA	1	1 UNIT	2019
2019-12	AP KINGSFORT	ATLAS COPCO - GERMANY	AP- KINGSPOT(B.A.C) / INTER, AFTER COOLER	U.S.A	5	2 UNIT	2019
2019-13	AP KINGSFORT	ATLAS COPCO - GERMANY	AP- KINGSPOT(M.A.C) / INTER COOLER	U.S.A	2	2 UNIT	2019
2019-14	DAICEL	KOBE STEEL, LTD.	SAC DAICEL / INTER, AFTER COOLER	JAPAN	3	1 UNIT	2019
2019-15	BAHRAIN PERTROLEUM COMPANY	HANWHA POWER SYSTEM	BAPCO IA / INTER, AFTER COOLER	BAHRAIN	4	4 UNIT	2019
2019-16	NIZHNEKAMSKNEFTEKHM	HANWHA POWER SYSTEM	LINDE Nizhnekamsk / INTER COOLER	RUSSIA	2	1 UNIT	2020

Experience List (for Inter/ After Cooler for Compressor)

JOB No	END USER	CONTRACTOR	PROJECT Name / ITEM Name	LOCATION	ITEM	Q'TY	DELIVERY
2019-17	BAHRAIN PETROLEUM COMPANY	HANWHA POWER SYSTEM	BAPCO M.A.C / INTER COOLER	BAHRAIN	2	2 UNIT	2020
2019-18	PETROFUTURE RMC	HANWHA POWER SYSTEM	HK/PETROFUTURE RMC / INTER COOLER	CHINA	1	2 UNIT	2020
2019-19	SK ENGERY	HANWHA POWER SYSTEM	S PROJECT / INTER, AFTER COOLER	KOREA	2	2 UNIT	2020
2019-20	TOYO INKGCC	HANWHA POWER SYSTEM	IPP 650 KTA Ethylene Plant/ INTER COOLER	RUSSIA	2	1 UNIT	2020
2019-21	-	IHI ROTATING MACHINERY	3051-162 - TNS(SINGAPORE) / INTER, AFTER COOLER	SINGAPORE	2	1 UNIT	2020
2019-22	DAICEL	KOBE STEEL, LTD.	LINDE DAICEL / INTER COOLER	JAPAN	2	1 UNIT	2020
2019-23	-	IHI ROTATING MACHINERY	3051-163 / SINGAPORE / INTER, AFTER COOLER	SINGAPORE	4	1 UNIT	2020
2019-24	GS CALTEX	HANWHA POWER SYSTEM	GS CALTEX / INTER, AFTER COOLER	KOREA	5	4 UNIT	2020
2019-25	APCI	HANWHA POWER SYSTEM	APCI PROJECT / AFTER COOLER	-	1	1 UNIT	2020
2019-26	WNIIEF	HANWHA POWER SYSTEM	RU WNIIEF / AFTER COOLER	RUSSIA	2	1 UNIT	2020
2019-27	-	ATLAS COPCO - GERMANY	TWIN CITIES PROJECT / INTER COOLER	U.S.A	4	1 UNIT	2020
2019-28	AMUR GAS PROCESSING PLANT	HANWHA POWER SYSTEM	SAD- NORWAY / INTER, AFTER COOLER	NORWAY	3	1 UNIT	2020
2019-29	LUK	HANWHA POWER SYSTEM	LUK OIL BEARING PJT / INTER, AFTER COOLER	IRAQ	3	2 UNIT	2020
2019-30	SK HYNIX	IHI ROTATING MACHINERY	3051-170 / SK HYNIX / INTER, AFTER COOLER	KOREA	9	1 UNIT	2020
2019-31	ATLAS COPCO	ATLAS COPCO - AMERICA	T. 1275 / AFTER COOLER	U.S.A	1	1 UNIT	2020
2019-32	UIG STEEL	HANWHA POWER SYSTEM	US UIG STEEL / AFTER COOLER	U.S.A	1	1 UNIT	2020
2019-33	NUCOR STEEL GALLATIN	HANWHA POWER SYSTEM	UIG NUCOR GALLATIN / AFTER COOLER	U.S.A	1	2 UNIT	2020
2019-34	-	IHI ROTATING MACHINERY	3054-227 / NO.2 INTER COOLER	JAPAN	1	1 UNIT	2020
2019-35	ALING	HANWHA POWER SYSTEM	TECHNIP ARCTIC LNG2 / INTER COOLER	RUSSIA	5	6 UNIT	2020
2019-36	-	IHI ROTATING MACHINERY	3051-169/TAIWAN / INTER, AFTER COOLER	TAIWAN	3	1 UNIT	2020
2019-37	NUCOR STEEL GALLATIN	ATLAS COPCO - AMERICA	NUCOR GALLATIN KY / INTER, AFTER COOLER	U.S.A	3	2 UNIT	2020
2019-38	GANGREUNG ECO POWER	HHI-TMC	GANGREUNG / INTER, AFTER COOLER	KOREA	2	6 UNIT	2020
2019-39	-	IHI ROTATING MACHINERY	3051-174-7 / AL KAOK / INTER, AFTER COOLER	JAPAN	11	1 UNIT	2020
2019-40	NIPPON STEEL	KOBE STEEL, LTD.	NIPPON STEEL / INTER, AFTER COOLER	JAPAN	2	1 UNIT	2020
2019-41	SIBUR	HANWHA POWER SYSTEM	RU SIBUR PJT / AFTER, RECYCLE COOLER	RUSSIA	2	1 UNIT	2020
2019-42	DAESUNG INDUSTRIAL GASES	IHI ROTATING MACHINERY	3051-178/DIG664A3/ / INTER COOLER	KOREA	2	1 UNIT	2020
2019-43	JFE STEEL	IHI ROTATING MACHINERY	3051-183 / JFE STEEL PJT / INTER, AFTER COOLER	JAPAN	3	1 UNIT	2020
2019-44	-	AIR LIQUIDE (JAPAN)	NEW KAOK-K PJT / AFTER COOLER	JAPAN	2	1 UNIT	2020
2020-01	ATLAS COPCO	ATLAS COPCO - AMERICA	SHOP TEST / TEST GAS COOLER	U.S.A	1	1 UNIT	2020
2020-02	DAESUNG INDUSTRIAL GASES	IHI ROTATING MACHINERY	3051-179/DIGIGAN/ / INTER, AFTER COOLER	KOREA	3	1 UNIT	2020
2020-03	DAESUNG INDUSTRIAL GASES	IHI ROTATING MACHINERY	3051-180 / DIGBAC/ INTER, AFTER COOLER	KOREA	3	1 UNIT	2020
2020-04	HANWHA CHEMICAL	ATLAS COPCO - GERMANY	LINDE HYCO / INTER, AFTER COOLER	KOREA	4	1 UNIT	2020
2020-05	MMC ILICHA	IHI ROTATING MACHINERY	MMC ILICHA / INTER, AFTER COOLER	UKRAINE	4	1 UNIT	2020
2020-06	WNIIEF	HANWHA POWER SYSTEM	WNIIEF PJT / AFTER COOLER	RUSSIA	1	1 UNIT	2020
2020-07	AIR FIRST	HANWHA POWER SYSTEM	AIR FIRST DAESAN/ INTER, AFTER COOLER	KOREA	6	1 UNIT	2020
2020-08	SK HYNIX	IHI ROTATING MACHINERY	3051-193 / SK HYNIX PJT / INTER, AFTER COOLER	KOREA	2	2 UNIT	2020
2020-09	DSME	HANWHA POWER SYSTEM	DSME PILOT PLANT PJT / INTER, AFTER COOLER	KOREA	3	1 UNIT	2020
2020-10	SAUDI ARAMCO	HANWHA POWER SYSTEM	ARAMCO/MARJAN#12(M.A.C) / INTER, AFTER COOLER	SAUDI ARABIA	12	4 UNIT	2020
2020-11	SASKATCHEWAN BLNC	HANWHA POWER SYSTEM	LINDE/SASKATCHEWAN PJT / INTER, AFTER COOLER	CANADA	4	1 UNIT	2020

Experience List (for Inter/ After Cooler for Compressor)

JOB No	END USER	CONTRACTOR	PROJECT Name / ITEM Name	LOCATION	ITEM	Q'TY	DELIVERY
2020-12	PETRONAS GAS MAP	HANWHA POWER SYSTEM	PETRONAS MAP / INTER, AFTER COOLER	MALAYSIA	3	5 UNIT	2020
2020-13	PHD POLSKA	SEAH ENGINEERING	TECHNIP - POLICE PDH FEED / INTER, AFTER COOLER	POLAND	3	3 UNIT	2020
2020-14	SK HYNIX	IHI ROTATING MACHINERY	3051-192 / SK HYNIX PJT / INTER, AFTER COOLER	KOREA	4	1 UNIT	2020
2020-15	RDMP BALIKPAPAN JO	DAESUNG INDUSTRIAL GASES	INDONESIA - RDMP PROJECT / AFTER COOLER	INDONESIA	1	1 UNIT	2020
2020-16	SK HYNIX	IHI ROTATING MACHINERY	3051-197 / ALEJ SK HYNIX / INTER COOLER	KOREA	3	1 UNIT	2020
2020-17	NUCOR GALLATIN	ATLAS COPCO - AMERICA	T.1324/NUCOR / INTER, AFTER COOLER	U.S.A	3	1 UNIT	2020
2020-18	METINVEST ILYICH	ATLAS COPCO - GERMANY	METINVEST ILYICH / INTER, AFTER COOLER	UKRAINE	4	1 UNIT	2020
2020-19	DANMAR CONSUMERS ENERGY	HANWHA POWER SYSTEM	S US DANMAR CONSUMERS ENERGY / AFTER COOLER	U.S.A	1	2 UNIT	2020
2020-20	-	AMCS	U.S.A PROJECT / AFTER COOLER	U.S.A	3	1 UNIT	2020
2020-21	AMAGASAKI	HANWHA POWER SYSTEM	S.JP AL JAPAN AMAGASAKI MAC / AFTER COOLER	JAPAN	1	1 UNIT	2021
2020-22	SIAD	HANWHA POWER SYSTEM	RU SIAD PROJECT / INTER COOLER	RUSSIA	3	1 UNIT	2021
2020-23	SODEGAURA	IHI ROTATING MACHINERY	SODEGAURA / INTER, AFTER COOLER	JAPAN	6	4 UNIT	2021
2020-24	SK AIRGAS	KOBE STEEL, LTD.	SK AIRGAS / INTER COOLER	KOREA	3	1 UNIT	2021
2020-25	AIR LIQUIDE FAR EASTERN	AIR LIQUIDE (JAPAN)	SONY KUMAMOTO NO.4 / INTER COOLER	JAPAN	1	1 UNIT	2021
2020-26	AMUR GCC LLC	HANWHA POWER SYSTEM	LINDE- SIBUR / INTER COOLER	RUSSIA	2	1 UNIT	2021
2020-27	SK AIRGAS	AIR LIQUIDE (JAPAN)	SKAG M16 PHASE-A / AFTER COOLER	KOREA	2	1 UNIT	2020
2020-28	SK AIRGAS	AIR LIQUIDE (JAPAN)	SKAG #3 PJT / AFTER COOLER	KOREA	2	2 UNIT	2020
2020-29	-	HANWHA POWER SYSTEM	S_ID_PIM #2001 / AFTER COOLER	-	1	1 UNIT	2020
2020-30	AIR FIRST	HANWHA POWER SYSTEM	AIR FIRST BUSAN / AFTER COOLER	KOREA	1	1 UNIT	2020
2020-31	ARAMCO	HANWHA POWER SYSTEM	MARJAN INCREMENT PROGRAM PKG 10 / INTER COOLER	SAUDI ARABIA	2	1 UNIT	2021
2020-32	OTTA SC	IHI ROTATING MACHINERY	OTTA SC PROJECT / INTER, AFTER COOLER	JAPAN	4	1 UNIT	2021
2020-33	SK AIRGAS	IHI ROTATING MACHINERY	SK AIRGAS / INTER, AFTER COOLER	KOREA	9	4 UNIT	2021
2020-34	DSME	HANWHA POWER SYSTEM	DSME N2 COMPANDER / INTER, AFTER COOLER	RUSSIA	3	6 UNIT	2021
2020-35	MTSUBISHI HEAVY INDUSTRIES, LTD.	TAYO NIPPON SANSO	AB4528 / AFTER COOLER	BANGLADESH	2	1 UNIT	2021
2020-36	SK AIRGAS	KOBE STEEL, LTD.	SK AIRGAS / INTER COOLER	KOREA	3	4 UNIT	2021
2020-37	COSMODYNE	HANWHA POWER SYSTEM	COSMODYNE ALGERIA RAC / INTER, AFTER COOLER	ALGERIA	3	1 UNIT	2021
2020-38	TLO	IHI ROTATING MACHINERY	3005-X11, TLO / INTER COOLER	JAPAN	1	1 UNIT	2021
2020-39	MESSER	HANWHA POWER SYSTEM	MESSER DELTA OHIO / INTER, AFTER COOLER	U.S.A	3	2 UNIT	2020
2020-40	SK AIRGAS	AIR LIQUIDE (JAPAN)	SKAG M16 P-2 PROJECT (#5.6) / AFTER COOLER	KOREA	2	4 UNIT	2021
2020-41	NIPPON STEEL	IHI ROTATING MACHINERY	NSC / INTER COOLER	JAPAN	3	1 UNIT	2021
2020-42	POSCO	SEAH ENGINEERING	AT-2020-0221 PROJECT / AFTER COOLER	KOREA	1	1 UNIT	2021
2020-43	-	IHI ROTATING MACHINERY	3051-X13 / INTER, AFTER COOLER	TAIWAN	2	1 UNIT	2021
2020-44	POSCO	HANWHA POWER SYSTEM	ALE-POSCO P17 / INTER, AFTER COOLER	KOREA	3	1 UNIT	2021
2020-45	-	HANWHA POWER SYSTEM	S ES NG 45056H ASTURMAS / AFTER COOLER	SPAIN	1	1 UNIT	2021
2020-46	COBEY USAF	HANWHA POWER SYSTEM	COBEY USAF / AFTER COOLER	U.S.A	2	1 UNIT	2021
2020-47	SIAD	HANWHA POWER SYSTEM	SIAD / AFTER COOLER	SPAIN	1	1 UNIT	2021

Experience List (for Shell & Tube Heat Exchanger)

JOB No	END USER	CONTRACTOR	PROJECT Name / ITEM Name	LOCATION	ITEM	Q'TY	DELIVERY
2010-1	KOREA HYDRO & NUCLEAR POWER	DOOSAN	YECHON / L.O COOLER	KOREA	1	2 UNIT	2010
2010-2	KOREA HYDRO & NUCLEAR POWER	DOOSAN	YECHON / L.O COOLER	KOREA	1	2 UNIT	2010
2010-3	KOLON INDUSTRIES	KOLON INDUSTRIES	DEW HEATER	KOREA	1	1 UNIT	2010
2010-4	KOLON INDUSTRIES	KOLON INDUSTRIES	EG CONDENSER	KOREA	1	1 UNIT	2011
2010-5	KOLON INDUSTRIES	KOLON INDUSTRIES	EG COOLER	KOREA	1	1 UNIT	2011
2011-1	NIPPON STEEL CORPORATION	NIPPON STEEL CORPORATION	OIL COOLER	JAPAN	1	1 UNIT	2011
2011-2	KOLON INDUSTRIES	KOLON INDUSTRIES	TOTAL CONDENSER	KOREA	1	1 UNIT	2011
2011-3	KOLON INDUSTRIES	KOLON INDUSTRIES	HTM HEATER	KOREA	1	2 UNIT	2011
2012-1	ABEX	ABEX	OIL COOLER	JAPAN	1	1 UNIT	2012
2012-2	SKEC	SKEC	OIL COOLER	KOREA	1	2 UNIT	2012
2012-3	FUJITA IRON	FUJITA IRON	OIL COOLER	JAPAN	2	1 UNIT	2012
2012-4	KOREA EAST-WEST POWER	SAMSUNG TECHWIN	ULSAN FGC / DUAL OIL COOLER	KOREA	1	3 UNIT	2013
2012-5	KOREA WESTERN POWER	SAMSUNG TECHWIN	PYEONGTAEK FGC / DUAL OIL COOLER	KOREA	1	2 UNIT	2013
2013-1	SKEC	SAMSUNG TECHWIN	SK NEXLENE / OIL COOLER	KOREA	1	3 UNIT	2013
2013-2	SK ENERGY	SK ENERGY	NO.2 FCC REVAMP / OIL COOLER	KOREA	1	2 UNIT	2013
2013-3	BOC TATA STEEL	SAMSUNG TECHWIN	BOC TATA STEEL PJT / OIL COOLER	INDIA	1	1 UNIT	2013
2013-4	KOLON INDUSTRIES	KOLON INDUSTRIES	HTM COOLER	KOREA	1	1 UNIT	2013
2013-5	KOREA EAST-WEST POWER	SAMSUNG TECHWIN	ULSAN FGC / GAS RECYCLE COOLER	KOREA	1	3 UNIT	2014
2013-6	MEDA	SAMSUNG TECHWIN	IREP / DUAL OIL COOLER	INDIA	1	4 UNIT	2014
2013-7	YPPB	SAMSUNG TECHWIN	BOLIVA YPPB / DUAL OIL COOLER (AEW TYPE)	BOLIVA	1	1 UNIT	2014
2014-1	ABU DHABI MARINE OPERATING CO.	SAMSUNG TECHWIN	SARB IA / OIL COOLER (AEW TYPE)	UAE	1	3 UNIT	2014
2014-2	SKEC	SAMSUNG TECHWIN	SK ULSAN CLX / OIL COOLER	KOREA	1	1 UNIT	2014
2015-1	DAEJU MACHINERY	DAEJU MACHINERY	CAMERON / OIL COOLER	KOREA	1	1 UNIT	2015
2015-2	DAEJU MACHINERY	DAEJU MACHINERY	KOREA / AIR PRE-HEATER	KOREA	1	1 UNIT	2015
2015-3	STATE COMPANY FOR OIL PJT (SCOP)	SAMSUNG TECHWIN	KARBALA REFINERY FEED / OIL COOLER	IRAQ	1	3 UNIT	2016
2015-4	KUWAIT NATIONAL PETROLEUM CO.	SAMSUNG TECHWIN	KNPC MMA IA / DUAL OIL COOLER	KUWAIT	1	4 UNIT	2016
2015-5	KOREA DISTRICT HEATING CORP.	SAMSUNG TECHWIN	HWASUNG DONGTAN2 FGC / GAS COOLER	KOREA	1	2 UNIT	2016
2015-6	KOREA DISTRICT HEATING CORP.	SAMSUNG TECHWIN	HWASUNG DONGTAN2 FGC / OIL COOLER	KOREA	1	2 UNIT	2016
2015-7	POSCO E&C	HYUNDAI HEAVY INDUSTRIES	CHUNCHEON CHP / RECYCLE COOLER	KOREA	2	4 UNIT	2016
2015-8	POSCO E&C	HYUNDAI HEAVY INDUSTRIES	CHUNCHEON CHP / OIL COOLER	KOREA	2	4 UNIT	2016
2016-1	DAEWOO E&C	ATLAS CORPCO - AMERICA	YOUNGNAM CCP / RECYCLE GAS COOLER	KOREA	2	2 UNIT	2016
2016-2	MITSUBISHI HEAVY INDUSTRIES	MITSUBISHI HEAVY INDUSTRIES	FUEL GAS SUPPLY SYSTEM / HOT WATER HEATER	JAPAN	1	1 UNIT	2016
2016-3	NESTLE	ATLAS CORPCO - KOREA	PULMUONE NATURAL MINERAL WATER / AFTER-C	KOREA	1	1 UNIT	2016
2016-4	KOLON INDUSTRIES	KOLON INDUSTRIES	GIMCHUN / DIB STORAGE TANK HEAT EXCHANGER	KOREA	1	1 UNIT	2016
2016-5	FORMOSA PLASTICS CORP.	KOBE STEEL	15-00375-UFORMOSA / OIL COOLER	TAIWAN	1	1 UNIT	2016
2016-6	CCD(SINGAPORE) PTE.	TSURUMI PUMP	CCD SINGAPORE / SEAL WATER COOLER	SINGAPORE	2	1 UNIT	2016
2016-7	POSCO	POSCO	PCI 3.4 HIGH PRESSURE / AFTER COOLER	KOREA	3	1 UNIT	2016

Experience List (for Shell & Tube Heat Exchanger)

JOB No	END USER	CONTRACTOR	PROJECT Name / ITEM Name	LOCATION	ITEM	Q'TY	DELIVERY
2016-8	TOHO CHEMICAL E&C	HWANWOOING	GK-7,8 / SURFACE CONDENSER	JAPAN	3	1 UNIT	2016
2016-9	PT PERTAMINA J&C CONSORTIUM	KOBE STEEL	J&C PERTAMINA / TOW COOLER	INDONESIA	1	1 UNIT	2016
2016-10	DSME/MOL	KOBE STEEL	BOG BOOSTING COMP / 1ST DIS COOLER	JAPAN	1	1 UNIT	2017
2016-11	DSME/MOL	KOBE STEEL	BOG BOOSTING COMP / 2ND DIS COOLER	JAPAN	1	1 UNIT	2017
2016-12	DSME/MOL	KOBE STEEL	BOG BOOSTING COMP / 3RD DIS COOLER	JAPAN	1	1 UNIT	2017
2016-12	S-OIL	HANWHA TECHWIN	S-OIL OXIDATION / OIL COOLER (AEW TYPE)	KOREA	1	2 UNIT	2017
2016-12	S-OIL	HANWHA TECHWIN	S-OIL PACKAGE #1 / OIL COOLER (AEW TYPE)	KOREA	1	3 UNIT	2017
2016-12	S-OIL	HANWHA TECHWIN	S-OIL PACKAGE #2 / OIL COOLER (AEW TYPE)	KOREA	1	1 UNIT	2017
2016-12	S-OIL	HANWHA TECHWIN	S-OIL PACKAGE #3 / OIL COOLER (AEW TYPE)	KOREA	1	3 UNIT	2017
2016-13	MHPS	MHPS	XIB-2 INDONESIA / OIL COOLER	INDONESIA	1	1 UNIT	2017
2016-14	China Energy Engineering Group	ATLAS CORPCO - AMERICA	GPEC - Ghorasal 4 Bangladesh / INTER COOLER	BANGLADESH	1	3 UNIT	2017
2016-15	China Energy Engineering Group	ATLAS CORPCO - AMERICA	GPEC - Ghorasal 4 Bangladesh / RECYCLE COOLER	BANGLADESH	1	3 UNIT	2017
2017-1	DAESUNG INDUSTRIAL GASES CO.		HSC SUNGCHON NO.3 / AIR HEATER EXCHANGER	KOREA	1	1 UNIT	2017
2017-2	FORMOSA PETROCHEMICAL CORP	KOBE STEEL	METHANE RICH GAS / TOW COOLER	TAIWAN	1	2 UNIT	2017
2017-3	FORMOSA PETROCHEMICAL CORP	KOBE STEEL	METHANE RICH GAS / LO COOLER (DUPLEX)	TAIWAN	1	3 UNIT	2017
2017-4	KOREA HYDRO & NUCLEAR POWER	DOOSAN HEAVY INDUSTRIES	SHINGORI #5.6 / GLAND STEAM CONDENSER	KOREA	1	2 UNIT	2018 & 2019
2017-5	DSME	HANWHA TECHWIN	DSME H.2462 / OIL COOLER	KOREA	1	2 UNIT	2017
2017-6	NAVOI	KOBE STEEL	MHPS/UZBEKENERGY NAVOI / Oil Cooler	UZBEKISTAN	1	3 UNIT	2017
2017-7	ALE	KOBE STEEL	AL France / Oil Cooler	FRANCE	1	1 UNIT	2017
2017-8	HYUNDAI HEAVY INDUSTRIES	KOBE STEEL	HHI/PARDUS / 1st Dis Cooler	KOREA	1	1 UNIT	2017
2017-9	HYUNDAI HEAVY INDUSTRIES	KOBE STEEL	HHI/PARDUS / 2nd Dis Cooler	KOREA	1	1 UNIT	2017
2017-10	HYUNDAI HEAVY INDUSTRIES	KOBE STEEL	HHI/PARDUS / 3rd Dis Cooler	KOREA	1	1 UNIT	2017
2017-11	KOLON INDUSTRIES	KOLON INDUSTRIES	SPB#4 / VENT CONDENSER	KOREA	1	1 UNIT	2017
2017-12	KUWAIT NATIONAL PETROLEUM COMPANY	KOBE STEEL	HEC/KNPC / Oil Cooler	KUWAIT	4	4 UNIT	2017
2017-13	MAIDURU KIRAKU KOGYO	ING CORP.	TONICHI KIKAI / EJECTOR CONDENSER	JAPAN	1	1 UNIT	2018
2017-14	ARAMCO	HANWHA TECHWIN	EDRF / OIL COOLER	SAUDI ARABIA	1	3 UNIT	2018
2017-15	KUWAIT NATIONAL PETROLEUM COMPANY	HANWHA TECHWIN	KIPIC AL-ZOUR LINGIAZRP / OIL COOLER	KUWAIT	1	2 UNIT	2018
2017-16	SERBIA	ATLAS CORPCO - AMERICA	SERBIA (T-40001009) / LUBE OIL COOLER	SERBIA	1	1 UNIT	2018
2017-17	KAZANORGsINTEZ	HANWHA TECHWIN	RU KaznOrgSynthez #01 / OIL COOLER	RUSSIA	1	1 UNIT	2018
2017-18	SAMSUNG HEAVY INDUSTRIES	HANWHA TECHWIN	SHIMozambique ENI / OIL COOLER	MOZAMBIQUE	1	3 UNIT	2018
2017-19	SHINPYEONGTAEK POWER Co.,Ltd.	HANWHA TECHWIN	SHINPYEONGTAEK / RECYCLE GAS COOLER	KOREA	1	3 UNIT	2018
2017-20	LOTTE CHEMICAL	HYOSUNG / JAEWOO	LCC H-NC3 / GLAND STEAM CONDENSER	KOREA	1	1 UNIT	2018
2017-21	KOREA MIDLAND POWER Co.,Ltd.	DOOSAN HEAVY INDUSTRIES	BORYEONG#3 / OIL COOLER BUNDLE	KOREA	2	2 UNIT	2018
2017-22	OLTN YO'L GTL	KOBE STEEL	HEC/OLTN YO'L GTL / OIL COOLER	UZBEKISTAN	3	6 UNIT	2018
2017-23	OLTN YO'L GTL	KOBE STEEL	HEC/OLTN YO'L GTL / CW COOLER	UZBEKISTAN	3	5 UNIT	2018
2017-24	SAMSUNG HEAVY INDUSTRIES	HANWHA POWER SYSTEM	SHI-Mozambique ENI /Warm-up Heater	MOZAMBIQUE	1	1 UNIT	2018
2017-25	SAMSUNG HEAVY INDUSTRIES	ATLAS CORPCO - AMERICA	SHI-KOGAS 2233, 2234 / Pre-Heater	KOREA	1	4 UNIT	2018
2017-26	FARABI	HANWHA POWER SYSTEM	IRAN/FARABI / OIL COOLER	IRAN	1	2 UNIT	2018

Experience List (for Shell & Tube Heat Exchanger)

JOB No	END USER	CONTRACTOR	PROJECT Name / ITEM Name	LOCATION	ITEM	Q'TY	DELIVERY
2018-1	CTCI	HANWHA POWER SYSTEM	CTCI/TRACK4A / OIL COOLER	CHINA	1	3 UNIT	2018
2018-2	CTCI	HANWHA POWER SYSTEM	CTCI/TRACK4A / RECYCLE COOLER	CHINA	1	3 UNIT	2018
2018-3	KOREA HYDRO & NUCLEAR POWER	DOOSAN HEAVY INDUSTRIES	SHINGORI FWPT / LUBE OIL COOLER	KOREA	1	6 UNIT	2018
2018-3	INDIA OIL CORPORATION	HANWHA POWER SYSTEM	INDIA/ELI DCL / OIL COOLER	INDIA	1	2 UNIT	2018
2018-4	SK E&C	DOOSAN HEAVY INDUSTRIES	GOSEONG THERMAL POWER PLANT / OIL COOLER	KOREA	1	4 UNIT	2018
2018-5	MORUPULE POWER STATION	DOOSAN HEAVY INDUSTRIES	MORUPULE A / LUBE OIL COOLER	BOTSWANA	1	2 UNIT	2018
2018-6	KOREA MIDLAND POWER	DOOSAN HEAVY INDUSTRIES	SHINSEONGHEON THERMAL POWER PLANT / STATOR WATER COOLER	KOREA	1	2 UNIT	2018
2018-7	SK E&C	DOOSAN HEAVY INDUSTRIES	GOSEONG THERMAL POWER PLANT / STATOR WATER COOLER	KOREA	1	4 UNIT	2018
2018-8	DAEJU MACHINERY	DAEJU MACHINERY	R&D / LUBE OIL COOLER	KOREA	1	1 UNIT	2018
2018-9	SHIN ETSU	KOBE STEEL	SSP-3 PLAQUEMINE CA PLANT / LUBE OIL COOLER	JAPAN	1	4 UNIT	2018
2018-10	TAKHATASH POWER PLANT	HANWHA POWER SYSTEM	TAKHATASH / RECYCLE COOLER	UZBEKISTAN	1	3 UNIT	2018
2018-11	TAKHATASH POWER PLANT	HANWHA POWER SYSTEM	TAKHATASH / OIL COOLER	UZBEKISTAN	1	4 UNIT	2018
2018-12	AMK	ATLAS COPCO - AMERICA	ALE AMK 02 / OIL COOLER	GERMANY	1	2 UNIT	2018
2018-13	THAILAND PETROCHEMICAL PLANT	KOBE STEEL	SECL PTTGC/VG593 / OIL COOLER	THAILAND	2	3 UNIT	2018
2018-14	AMUR GAS PROCESSING PLANT	HANWHA POWER SYSTEM	TECHMONT AGPP SINERGIA / OIL COOLER	RUSSIA	1	2 UNIT	2018
2018-15	AMUR GAS PROCESSING PLANT	HANWHA POWER SYSTEM	TECHMONT AGPP SIAD / OIL COOLER	RUSSIA	1	3 UNIT	2018
2018-16	AIR LIQUIDE	KOBE STEEL	AIR LIQUIDE YEOSU / LUBE OIL COOLER	JAPAN	1	1 UNIT	2018
2018-17	PETRONA	HANWHA POWER SYSTEM	HEC MELAKA EURO5 / OIL COOLER	MALAYSIA	1	1 UNIT	2018
2018-18	JUPC	HANWHA POWER SYSTEM	SECL JUPC EG-II / LUBE OIL COOLER	THAILAND	1	1 UNIT	2018
2018-19	PRAXAIR	HANWHA POWER SYSTEM	PRAXAIR/PEONGTAEK / LUBE OIL COOLER	KOREA	1	1 UNIT	2018
2018-20	KOREA HYDRO & NUCLEAR POWER	DOOSAN HEAVY INDUSTRIES	SHINGORI 5 / STATOR WINDING WATER COOLER	KOREA	1	2 UNIT	2020
2018-21	KOREA HYDRO & NUCLEAR POWER	DOOSAN HEAVY INDUSTRIES	SHINGORI 6 / STATOR WINDING WATER COOLER	KOREA	1	2 UNIT	2020
2018-22	LOTTE CHEMICAL	AIR LIQUIDE-FRANCH	LOTTE BP / CO EXPANDER COOLER	KOREA	1	1 UNIT	2019
2018-23	YEOSU PLANT	AIR LIQUIDE-FRANCH	YEOSU 4 / CO EXPANDER COOLER	KOREA	1	1 UNIT	2019
2018-24	YEOSU PLANT	HANWHA POWER SYSTEM	ALK YEOSU Y4 NG BOOSTER / OIL COOLER	KOREA	1	1 UNIT	2019
2018-25	KOREA HYDRO & NUCLEAR POWER	DOOSAN HEAVY INDUSTRIES	SHINGORI 5 / LUBE OIL COOLER	KOREA	1	2 UNIT	2020
2018-26	KOREA HYDRO & NUCLEAR POWER	DOOSAN HEAVY INDUSTRIES	SHINGORI 6 / LUBE OIL COOLER	KOREA	1	2 UNIT	2020
2018-27	PRAXAIR	HANWHA POWER SYSTEM	PRAXAIR/YONGINEN3000 / OIL COOLER	KOREA	1	1 UNIT	2019
2018-28	GCGV ASSET HOLDING, LLC	KOBE STEEL	CM1 / OIL COOLER	U.S.A	1	2 UNIT	2019
2018-29	PRAXAIR	HANWHA POWER SYSTEM	PRAXAIR/YONGIN / OIL COOLER	KOREA	1	1 UNIT	2019
2018-30	CSPC	MISUZU	CSPC SMPO/POD / LUBE OIL COOLER	CHINA	1	2 UNIT	2019
2019-1	BAHRAIN PETROLEUM COMPANY	KOBE STEEL	BAPCO / LUBE OIL COOLER	BAHRAIN	3	5 UNIT	2019
2019-2	BAHRAIN PETROLEUM COMPANY	KOBE STEEL	BAPCO / WATER COOLER	BAHRAIN	3	4 UNIT	2019
2019-3	ARAMCO	HANWHA POWER SYSTEM	HAWIYAH GAS PLANT EXPANSION / OIL COOLER	SAUDI ARABIA	1	4 UNIT	2019
2019-4	SHI	HANWHA POWER SYSTEM	SHI/JAWA FSRU / OIL COOLER	KOREA	3	1 UNIT	2019
2019-5	ISU CHEMICAL	HOWDEN	H2S DIAPHRAGM COMP	KOREA	1	8 UNIT	2019
2019-6	HANWHA GENERAL CHEMICAL	HANWHA POWER SYSTEM	HANWHA GENERAL CHEMICAL / OIL COOLER	KOREA	1	1 UNIT	2019
2019-7	ARAMCO	HANWHA POWER SYSTEM	ARAMCO-SHEDGUM / OIL COOLER	SAUDI ARABIA	1	1 UNIT	2019
2019-8	PETROBRAS	KOBE STEEL	PETROBRAS / OIL COOLER	BRAZIL	1	4 UNIT	2019
2019-9	SKEC PDH	KOBE STEEL	400KTA ULSAN PP / OIL COOLER	KOREA	1	2 UNIT	2019

Experience List (for Shell & Tube Heat Exchanger)

JOB No	END USER	CONTRACTOR	PROJECT Name / ITEM Name	LOCATION	ITEM	Q'TY	DELIVERY
2019-10	SK E&C	HANWHA POWER SYSTEM	S-PJT / OIL COOLER	KOREA	3	2 UNIT	2019
2019-11	TOYO INKGC	KOBE STEEL	IPP 650 KTA LLPDE / OIL COOLER	RUSSIA	1	1 UNIT	2019
2019-12	TOYO INKGC	HANWHA POWER SYSTEM	IPP 650 KTA Ethylene Plant / OIL COOLER	RUSSIA	1	1 UNIT	2019
2019-13	KOREA ZINC	FUJI ELECTRIC	KOREA ZINC CPP / GLAND STEAM CONDENSER	KOREA	1	1 UNIT	2020
2019-14	GS CALTEX	HANWHA POWER SYSTEM	GS CALTEX / OIL COOLER	KOREA	1	4 UNITS	2019
2019-15	HANWHA TOTAL PETROCHEMICAL	KOBE STEEL	SC500KTA EXPANSION / OIL COOLER	KOREA	1	1 UNIT	2019
2019-16	GS CALTEX	KOBE STEEL	YEOSU NO.2 COMPLEX L / OIL COOLER	KOREA	1	1 UNIT	2019
2019-17	mitsui chemicals	KOBE STEEL	MELS DEBOTTLENECKING / DIS. INTER COOLER	JAPAN	1	1 UNIT	2019
2019-18	-	KOBE STEEL	B-PJT / OIL COOLER	-	1	1 UNIT	2019
2019-19	ALNG	HANWHA POWER SYSTEM	TECHNIP ARCTIC LNG2 / OIL COOLER	RUSSIA	1	6 UNITS	2020
2019-20	D.S.M.E	KOBE STEEL	MAPAN GAS 174,000 CBM LNGC (X-DF) / DIS. COOLER	-	3	5 UNITS	2020
2019-21	TENOVA	KOBE STEEL - AMERICA	TENOVA HYL (ES-585, 586) / OIL COOLER	U.S.A	2	1 UNIT	2020
2019-22	LONG SON PETROCHEMICALS	KOBE STEEL	VIETNAM LSP HDPE/PP / OIL COOLER	VIETNAM	1	1 UNIT	2020
2019-23	SIEMENS	HANWHA POWER SYSTEM	IRAQ SIEMENS MAISAN POWER / OIL-C	IRAQ	1	1 UNIT	2020
2019-24	PETROCHEMICAL COMPLEX IN SOUTH OF VIETNAM	KOBE STEEL	LLDPE PLANT / OIL COOLER	VIETNAM	1	1 UNIT	2020
2019-25	GRUPA AZOTY POLYOLEFINS (HDEC)	DAESUNG INDUSTRIAL GASES	POLIMERY POLICE PROJECT / AIR PRE COOLER	POLAND	1	1 UNIT	2020
2019-26	TENOVA	KOBE STEEL - AMERICA	TENOVA HYL (ES-587) / OIL COOLER	BOLIVIA	1	1 UNIT	2020
2019-27	HYUNDAI CHEMICAL	HHI-TMC	HEAVY-FEED PETROCHEMICAL COMPLEX / OIL COOLER	KOREA	2	1 UNIT	2020
2019-28	HYUNDAI CHEMICAL	KOBE STEEL	HEAVY-FEED PETROCHEMICAL COMPLEX / OIL COOLER	KOREA	5	1 UNIT	2020
2020-1	AIR FIRST	HANWHA POWER SYSTEM	AIR FIRST DAESAN / OIL COOLER	KOREA	1	1 UNIT	2020
2020-2	AIR LIQUIDE	AIR LIQUIDE(FRANCE)	TBF-350 / AFTER COOLER	FRANCE	1	2 UNIT	2020
2020-3	SAUDI ARAMCO	HANWHA POWER SYSTEM	ARAMCO/MARJAN#2(M.A.C) / OIL COOLER	SAUDI ARABIA	1	4 UNIT	2020
2020-4	LINDE	ATLAS COPCO - GERMANY	YEOSU CO EXPANDER / LUBE OIL COOLER	KOREA	1	1 UNIT	2020
2020-5	HANWHA CHEMICAL	ATLAS COPCO - GERMANY	HYCO PROJECT / LUBE OIL COOLER	KOREA	1	1 UNIT	2020
2020-6	PETROMAS GAS NAP	HANWHA POWER SYSTEM	PETROMAS NAP / OIL COOLER	MALAYSIA	1	5 UNIT	2020
2020-7	PHD POLSKA	SEAH ENGINEERING	TECHNIP - POLICE PDH FEED / OIL COOLER	POLAND	1	3 UNIT	2020
2020-8	SAMSUNG E&C	HYUNDAI HEAVY INDUSTRIES	BANGLADESH MEGHNAGHAT / INTER, RECYCLE, OIL COOLER	BANGLADESH	3	1 UNIT	2021
2020-9	AMUR GCC LLC	HANWHA POWER SYSTEM	LINDE- SIBUR / OIL COOLER	RUSSIA	1	1 UNIT	2021
2020-10	CRVO TECHNOLOGIES	KOBE STEEL - AMERICA	Q-22070 / AFTER, LUBE OIL COOLER	U.S.A	1	1 UNIT	2020
2020-11	LOTTE CHEMICAL	HITACHI	LOTTE CHEMICAL G1 / LUBE OIL COOLER	KOREA	2	2 UNIT	2020
2020-12	DSME	HANWHA POWER SYSTEM	DSME N2 COMPANDER / OIL COOLER	RUSSIA	1	6 UNIT	2021
2020-13	DSME	HANWHA POWER SYSTEM	DSME FSU BOGC / INTER.AFTER, OIL COOLER	RUSSIA	4	6 UNIT	2021
2020-14	DSME	HANWHA POWER SYSTEM	DSME FGC / AFTER COOLER	RUSSIA	2	4 UNIT	2021
2020-15	DSME	HANWHA POWER SYSTEM	DSME FGC / OIL COOLER	RUSSIA	1	1 UNIT	2021
2020-16	DSME	HANWHA POWER SYSTEM	MOL 360K LNG FSU / BOG PRE-WASTE GAS HEATER	RUSSIA	2	3 UNIT	2021
2020-17	LOTTE CHEMICAL	HITACHI	LOTTE CHEMICAL G1 / BLOW COOLER	KOREA	1	1 UNIT	2021
2020-18	MESSER	HANWHA POWER SYSTEM	MESSER DELTA OHIO / OIL COOLER	U.S.A	3	2 UNIT	2021
2020-19	POSCO	HANWHA POWER SYSTEM	ALE - POSCO P17 / OIL COOLER	KOREA	1	1 UNIT	2021
2020-20	DSME	SAMWOO HEAVY INDUSTRY	NPS PILOT PLANT/ NG HEATER	KOREA	1	1 UNIT	2021

Experience List (for Hydrogen Cooler & Air Cooler of Electric Generator)

JOB No	END USER	CONTRACTOR	PROJECT Name / ITEM Name	DELIVERY	Unit	Quantity	DELIVERY
2002	GENERAL ELECTRIC COMPANY	DOOSAN HEAVY INDUSTRIES / KPHE	GE SOURCING / 324 H2 COOLER	USA	3	12 SETS	2002
2003-1	GENERAL ELECTRIC COMPANY	DOOSAN HEAVY INDUSTRIES / KPHE	GE SOURCING / 324 H2 COOLER	USA	9	36 SETS	2003
2003-2	KOREA SOUTHERN POWER	DOOSAN HEAVY INDUSTRIES / KPHE	YONGDONG / H2 COOLER	KOREA	1	1 SET	2003
2004-1	KOREA HYDRO & NUCLEAR POWER	DOOSAN HEAVY INDUSTRIES / KPHE	YANGWANG / H2 COOLER	KOREA	1	27 SETS	2004
2004-2	KOREA HYDRO & NUCLEAR POWER	DOOSAN HEAVY INDUSTRIES / KPHE	YANGWANG / H2 COOLER	KOREA	1	24 SETS	2005
2007-1	KOREA HYDRO & NUCLEAR POWER	DOOSAN HEAVY INDUSTRIES / KPHE	YEONGWANG / H2 COOLER	KOREA	1	8 SETS	2007
2007-2	KOREA EAST-WEST POWER	DOOSAN HEAVY INDUSTRIES / KPHE	ULSAN / H2 COOLER	KOREA	1	12 SETS	2007
2008-1	GENERAL ELECTRIC COMPANY	DOOSAN HEAVY INDUSTRIES / KPHE	GE SOURCING / 7FH2 COOLER	USA	13	52 SETS	2008
2008-2	GENERAL ELECTRIC COMPANY	DOOSAN HEAVY INDUSTRIES / KPHE	GE SOURCING / 324 H2 COOLER	USA	7	28 SETS	2008
2009-1	GENERAL ELECTRIC COMPANY	DOOSAN HEAVY INDUSTRIES / KPHE	GE SOURCING / 7FH2 COOLER	USA	4	16 SETS	2009
2009-2	GENERAL ELECTRIC COMPANY	DOOSAN HEAVY INDUSTRIES / KPHE	GE SOURCING / 324 H2 COOLER	USA	4	16 SETS	2009
2009-3	KOREA SOUTHERN POWER	DOOSAN HEAVY INDUSTRIES	YEONGWOL (300 MW) / STG H2 COOLER	KOREA	1	4 SETS	2009
2009-4	KOREA SOUTHERN POWER	DOOSAN HEAVY INDUSTRIES	YEONGWOL (300 MW) / GTG H2 COOLER	KOREA	1	12 SETS	2009
2010-1	GENERAL ELECTRIC COMPANY	DOOSAN HEAVY INDUSTRIES / KPHE	GE SOURCING / 7FH2 COOLER	USA	8	32 SETS	2010
2010-2	GENERAL ELECTRIC COMPANY	DOOSAN HEAVY INDUSTRIES / KPHE	GE SOURCING / 324 H2 COOLER	USA	2	8 SETS	2010
2010-3	GENERAL ELECTRIC COMPANY	DOOSAN HEAVY INDUSTRIES / KPHE	GE SOURCING / 7FH2 COOLER	USA	3	12 SETS	2010
2010-4	GENERAL ELECTRIC COMPANY	DOOSAN HEAVY INDUSTRIES / KPHE	GE SOURCING / 324 COOLER	USA	1	4 SETS	2010
2010-5	KOREA WESTERN POWER	DOOSAN HEAVY INDUSTRIES	PYEONGTAEK #3, #4 (582 MW) / H2 COOLER	KOREA	2	8 SETS	2010
2010-6	KOREA SOUTH-EAST POWER	DOOSAN HEAVY INDUSTRIES	SAMCHONPO #1, #2, #4 (324 MW) / H2 COOLER	KOREA	3	12 SETS	2010
2010-7	GMR ENERGY	DOOSAN HEAVY INDUSTRIES	RAIPUR #1, #2 (1370 MW) / H2 COOLER	INDIA	2	8 SETS	2011
2011-1	GENERAL ELECTRIC COMPANY	DOOSAN HEAVY INDUSTRIES	GE SOURCING / 324 H2 COOLER (ASME U-STAMP)	USA	8	32 SETS	2011
2011-2	KOREA WESTERN POWER	DOOSAN HEAVY INDUSTRIES	PYEONGTAEK #1 (582 MW) / H2 COOLER	KOREA	1	4 SETS	2011
2011-3	KOREA MIDLAND POWER	SUNGSAN	BORYUNG CPPP (500 MW) / AIR COOLER	KOREA	1	4 SETS	2011
2011-4	KOREA HYDRO & NUCLEAR POWER	SUNGSAN	CHEONG-PYEONG (400 MW) / AIR COOLER	KOREA	1	1 SET	2011
2012-1	KOREA HYDRO & NUCLEAR POWER	SUNGSAN	CHEONG-PYEONG (400 MW) / AIR COOLER	KOREA	1	7 SETS	2012
2012-2	AES-YCM	DOOSAN HEAVY INDUSTRIES	MONG DOUNG-2 (1120 MW) / H2 COOLER	VIETNAM	2	8 SETS	2012
2012-3	MARAFIQ	DOOSAN HEAVY INDUSTRIES	YANBU-2 / H2 COOLER (ASME U-STAMP)	SAUDI ARABIA	3	12 SETS	2012
2012-4	POCHEON POWER	DOOSAN HEAVY INDUSTRIES	POCHEON (1560 MW) / H2 COOLER	KOREA	2	8 SETS	2012
2012-5	H.H.I.C	DOOSAN HEAVY INDUSTRIES	YANGJU (550 MW) / H2 COOLER	KOREA	3	12 SETS	2012
2012-6	KOREA MIDLAND POWER	DOOSAN HEAVY INDUSTRIES	SEJONG (530 MW) / H2 COOLER	KOREA	3	12 SETS	2012
2012-7	KOREA HYDRO & NUCLEAR POWER	SUNGSAN	INCHEON (375 MW) / AIR COOLER	KOREA	1	4 SETS	2012
2012-8	KOREA MIDLAND POWER	TURBOCAPE	BORYEONG #4 (500 MW) / H2 COOLER	KOREA	1	4 SETS	2013
2013-1	ENW	DOOSAN HEAVY INDUSTRIES	MONG DOUNG-1 (1120 MW) / H2 COOLER	VIETNAM	2	8 SETS	2013
2013-2	HANAM ENERGY SERVICE	DOOSAN HEAVY INDUSTRIES	HANAM CHP (469 MW) / H2 COOLER	KOREA	1	4 SETS	2013
2013-3	GENERAL ELECTRIC COMPANY	DOOSAN HEAVY INDUSTRIES	7FH2B / H2 COOLER (ASME U-STAMP)	USA	1	4 SETS	2013
2013-4	KOREA SOUTH-EAST POWER	DOOSAN HEAVY INDUSTRIES	SAMCHONPO #3 (324 MW) / H2 COOLER	KOREA	1	4 SETS	2013
2013-5	GENERAL ELECTRIC COMPANY	DOOSAN HEAVY INDUSTRIES	GE SOURCING / 324 H2 COOLER (ASME U-STAMP)	USA	2	8 SETS	2013
2013-6	HANAM ENERGY SERVICE	DOOSAN HEAVY INDUSTRIES	HANAM CHP (460 MW) / AIR COOLER	KOREA	1	2 SETS	2013

Experience List (for Hydrogen Cooler & Air Cooler of Electric Generator)

JOB No	END USER	CONTRACTOR	PROJECT Name / ITEM Name	DELIVERY	Unit	Quantity	DELIVERY
2014-1	KOREA MIDLAND POWER	KEPCO	BORYEONG #3 (500 MW) / H2 COOLER	KOREA	1	4 SETS	2014
2014-2	KOREA MIDLAND POWER	DOOSAN HEAVY INDUSTRIES	SEOUL GTG #1 & #2 (400 MW) / H2 COOLER	KOREA	2	8 SETS	2016
2014-3	O.C.I	DOOSAN HEAVY INDUSTRIES	SAEMANGEUM STG #1 & #2 (303 MW) / AIR COOLER	KOREA	2	4 SETS	2014
2014-4	KOREA MIDLAND POWER	DOOSAN HEAVY INDUSTRIES	SEOUL STG #1 & #2 (400 MW) / AIR COOLER	KOREA	2	4 SETS	2015
2014-5	GENERAL ELECTRIC COMPANY	DOOSAN HEAVY INDUSTRIES	7FH2B / H2 COOLER (ASME U-STAMP)	USA	8	32 SETS	2014 & 2015
2014-6	GENERAL ELECTRIC COMPANY	DOOSAN HEAVY INDUSTRIES	7FH2B / H2 COOLER (MEXICAN REGULATION)	USA	1	4 SETS	2014
2014-7	KOREA WESTERN POWER	DONGHWA ENTEC	TAEAN #1 & #2 (500 MW) / H2 COOLER	KOREA	1	4 SETS	2014 & 2015
2014-8	AES-YCM	DOOSAN HEAVY INDUSTRIES	MONG DOUNG-2 (1120 MW) / H2 COOLER	VIETNAM	1	4 SETS	2014
2015-1	GENERAL ELECTRIC COMPANY	DOOSAN HEAVY INDUSTRIES	7FH2B / H2 COOLER (ASME U-STAMP)	USA	2	8 SETS	2015
2015-2	GENERAL ELECTRIC COMPANY	DOOSAN HEAVY INDUSTRIES	7FH2B / H2 COOLER (ASME U-STAMP)	USA	4	16 SETS	2015
2015-3	KOREA DISTRICT HEATING CORP.	DOOSAN HEAVY INDUSTRIES	HWASUNG DONGTAN2 #1 & #2 (800MW) / AIR COOLER	KOREA	2	4 SETS	2015
2015-4	KOREA DISTRICT HEATING CORP.	DOOSAN HEAVY INDUSTRIES	HWASUNG DONGTAN2 #1 & #2 (800 MW) / H2 COOLER	KOREA	2	8 SETS	2016
2015-5	SAFI ENERGY COMPANY	mitsubishi HITACHI POWER SYSTEMS	SAFI INDEPENDENT POWER (1320 MW) / H2 COOLER	MOROCCO	2	8 SETS	2016
2016-1	ENPLAME	DOOSAN HEAVY INDUSTRIES	EMPALME #1,2 (770 MW) / H2 COOLER	MEXICO	2	8 SETS	2016
2016-2	PVN (PETRO VIETNAM)	DOOSAN HEAVY INDUSTRIES	SONGHAU1 (1200 MW) / H2 COOLER	VIETNAM	2	8 SETS	2017
2016-3	GANGREUNG ECO POWER	DOOSAN HEAVY INDUSTRIES	GANGREUNG #1,2 (1000 MW) / H2 COOLER	KOREA	2	8 SETS	2018
2016-4	SK E&C	DOOSAN HEAVY INDUSTRIES	GOSUNG 1,2 (1000 MW) / H2 COOLER	KOREA	2	8 SETS	2018
2016-5	KOREA MIDLAND POWER	DOOSAN HEAVY INDUSTRIES	SHIN SEOCHUN (1000 MW) / H2 COOLER	KOREA	1	4 SETS	2018
2016-6	PUBLIC POWER CORPORATION S.A	mitsubishi HITACHI POWER SYSTEMS	XGPT-5 IN GREECE (660 MW) / H2 COOLER	GREECE	1	2 SETS	2017
2016-7	AIR WATER & ENERGIA POWER YAMAGUCHI	FUJI ELECTRIC	HOFU BIOMASS POWER STATION / AIR COOLER	JAPAN	1	3 SETS	2017
2016-8	KOBE STEEL, LTD.	FUJI ELECTRIC	MOKA POWER PLANT #1 / H2 COOLER	JAPAN	1	2 SETS	2017
2016-9	SAN BUENAVENTURA POWER LTD.	mitsubishi HITACHI POWER SYSTEMS	XSP (600 MW) SUPERCRITICAL PULVERIZED / H2 COOLER	PHILIPPINE	1	4 SETS	2017
2016-10	KOREA SOUTH-EAST POWER	DOOSAN HEAVY INDUSTRIES	SAMCHONPO #5,6 (324 MW) / H2 COOLER	KOREA	2	8 SETS	2017 & 2018
2016-11	KOREA SOUTHERN POWER	DOOSAN HEAVY INDUSTRIES	HADONG #1-6 (300 MW) / H2 COOLER	KOREA	5	20 SETS	2017 & 2018
2017-1	KOBE STEEL, LTD.	FUJI ELECTRIC	MOKA POWER PLANT #2 / H2 COOLER	JAPAN	1	2 SETS	2017
2017-2	KOBE STEEL, LTD.	FUJI ELECTRIC	MOKA POWER PLANT #1,2 / AIR COOLER	JAPAN	2	6 SETS	2017 & 2018
2017-4	PUBLIC POWER CORPORATION S.A	mitsubishi HITACHI POWER SYSTEMS	XGPT-5, EXTRA (660 MW) / H2 COOLER	GREECE	1	1 SET	2017
2017-5	BUZEN NEW ENERGY	FUJI ELECTRIC	EREX BUZEN / AIR COOLER	JAPAN	1	3 SETS	2017
2017-6	PT SUPREME ENERGY	FUJI ELECTRIC	MUARALOBH GEOTHERMAL / AIR COOLER	INDONESIA	1	3 SETS	2018
2017-7	MURORANI BIOMASS POWER GEN.	FUJI ELECTRIC	MURORANI BIOMASS / AIR COOLER	JAPAN	1	3 SETS	2018
2017-8	FADHILI	DOOSAN HEAVY INDUSTRIES	FADHILI (1500 MW) / H2 COOLER	SAUDI ARABIA	2	4 SETS	2017
2017-9	MURARA TAWAR	DOOSAN HEAVY INDUSTRIES	MURARA TAWAR (1800 MW) / AIR COOLER	INDONESIA	3	2 SETS	2018
2017-10	ASSUT	DOOSAN HEAVY INDUSTRIES	ASSUT (650 MW) / H2 COOLER	EGYPT	1	4 SETS	2018
2017-11	CAIRO WEST	DOOSAN HEAVY INDUSTRIES	CAIRO WEST (650 MW) / H2 COOLER	EGYPT	1	4 SETS	2018
2017-12	ZERAN	DOOSAN HEAVY INDUSTRIES	ZERAN (490 MW) / AIR COOLER	POLAND	1	2 SETS	2018
2018-1	KOREA SOUTHERN POWER	YEONGWOL POWER PLANT	YEONGWOL COMBINED CYCLE POWER / H2 COOLER	KOREA	1	1 SET	2018
2018-2	THE KWALE OKPAI POWER PLANT	DOOSAN HEAVY INDUSTRIES	OKPAI-2 / AIR COOLER	NIGERIA	1	2 SETS	2018

Experience List (for Hydrogen Cooler & Air Cooler of Electric Generator)

JOB No	END USER	CONTRACTOR	PROJECT Name / ITEM Name	DELIVERY	Unit	Quantity	DELIVERY
2018-3	MARCUS HOOK ENERGY CENTER	TOSHIBA	MARCUS HOOK / H2 COOLER	U.S.A	1	4 SETS	2018
2018-4	GEOTHEMAL POWER PLANT	FUJI ELECTRIC	NORTH-AMERICA / AIR COOLER	U.S.A	1	4 SETS	2018
2018-5	RANTAU DEDAP GEOTHERMAL POWER PLANT	FUJI ELECTRIC	RANTAU U1, U2 / AIR COOLER	MALAYSIA	1	6 SETS	2019
2018-6	GEOTHEMAL POWER STATION	FUJI ELECTRIC	F-PROJECT / H2 COOLER	KENYA	1	4 SETS	2019
2018-7	OLKARIA I GEOTHERMAL POWER STATION	DAISHO-FUJI	OLKARIA U6 / AIR COOLER	KENYA	1	4 SETS	2019
2018-8	SHARJAH LAYAH POWER STATION	DAISHO-FUJI	OLKARIA U6 / AIR COOLER	KENYA	1	4 SETS	2019
2018-9	JSW STEEL DOLU WORKS	DOOSAN HEAVY INDUSTRIES	XULS-GTG-1,2STG / H2 COOLER	U.A.E	1	6 SETS	2019
2018-10	MONTGOMERY POWER PLANT	TOSHIBA	JSW DOLU / AIR COOLER	INDIA	1	2 SETS	2019
			MONTGOMERY / H2 COOLER	U.S.A	1	4 SETS	2019
2019-1	KOREA SOUTH-EAST POWER	DOOSAN HEAVY INDUSTRIES	YEONGHEUNG #2 / H2 COOLER	KOREA	1	4 SETS	2019
2019-2	ONAHAMA	FUJI ELECTRIC	ONAHAMA / AIR COOLER	JAPAN	1	3 SETS	2019
2019-3	CIREBON POWER PLANT	TOSHIBA	CIREBON / H2 COOLER	INDONESIA	1	4 SETS	2019
2019-4	NGHI SON II THERMAL POWER PLANT	MITSUBISHI HITACHI POWER SYSTEMS	XVNS-1,2 / H2 COOLER	U.A.E	1	8 SETS	2019
2019-5	OTTER TAIL POWER, ASTORIA STATION	MITSUBISHI HITACHI POWER SYSTEMS	XOTP-1,2 / AIR COOLER	U.A.E	1	8 SETS	2019
2019-6	GEOTHEMAL POWER STATION	FUJI ELECTRIC	F-PROJECT / AIR COOLER	KENYA	1	8 SETS	2019-20
2019-7	KOREA ZINC	FUJI ELECTRIC	KOREA ZINC PROJECT / AIR COOLER	KOREA	1	3 SETS	2020
2019-8	TOLA GODDO KAISHA	MITSUBISHI HITACHI POWER SYSTEMS	TKE3 TOKUYAMA TPP / H2 COOLER	JAPAN	1	4 SETS	2020
2019-9	JERA CO. - INC.	MITSUBISHI HITACHI POWER SYSTEMS	JERA TAKETOYO-5 TPP / H2 COOLER	JAPAN	1	4 SETS	2020
2019-10	JACKSON GENERATION	MITSUBISHI HITACHI POWER SYSTEMS	XJAX-1,2 / H2 COOLER	U.S.A	1	8 SETS	2020
2020-1	POWER SOUTH ENERGY COOPERATIVE	MITSUBISHI HITACHI POWER SYSTEMS	XPSSL- STG / H2 COOLER	U.S.A	1	2 SETS	2020
2020-2	POWER SOUTH ENERGY COOPERATIVE	MITSUBISHI HITACHI POWER SYSTEMS	XPSSL- GTG / H2 COOLER	U.S.A	1	2 SETS	2020
2020-3	MARIM AZUL	MITSUBISHI HITACHI POWER SYSTEMS	XMZ / H2 COOLER	BRAZIL	1	2 SETS	2020
2020-4	GCC ELECTRICAL TESTING LABORATORY	MITSUBISHI HITACHI POWER SYSTEMS	XGCC / AIR COOLER	U.A.E	1	2 SETS	2020
2020-5	TERMOCANDELARIA POWER	MITSUBISHI HITACHI POWER SYSTEMS	XTCN / H2 COOLER	COLUMBIA	1	2 SETS	2020
2020-6	RELANCE POWER	TOSHIBA	XVP-1,2 / H2 COOLER	BANGLADESH	1	8 SETS	2021
2020-7	KOREA WESTERN POWER	DOOSAN HEAVY INDUSTRIES	GMPO COGENERATION / AIR COOLER	KOREA	1	2 SETS	2020
2020-8	KOREA HYDRO & NUCLEAR POWER	DOOSAN HEAVY INDUSTRIES	HANUL #3,4# / H2 COOLER	KOREA	2	2 SETS	2021
2020-9	EMIRATES WATER & ELECTRICITY COMPANY	MITSUBISHI POWER	FUJAIRAH F3 IPP / H2 COOLER	UAE	3	2 SETS	2021
2020-10	ALCHI STEEL CORPORATION	FUJI ELECTRIC	M781-SH8809 / AIR COOLER	JAPAN	1	1 SET	2021
2020-11	SALJO POWER STATION	MITSUBISHI POWER	JAPAN SALJO POWER STATION / H2 COOLER	JAPAN	1	4 SETS	2021

Experience List (for Pressure Vessel)

JOB No	END USER	CONTRACTOR	PROJECT Name / ITEM Name	LOCATION	ITEM	Q'TY	DELIVERY
2015-1	NINGBO FORTUNE P.D.H	MISUZU Industrial Corporation	NINGBO FORTUNE P.D.H / BOOSTER CHAMBER & GAS FILTER	CHINA	6	6 UNIT	2015
2015-2	PARKER TECHNO	PARKER TECHNO	FX349 / CONTROL OIL FILTER	JAPAN	1	1 UNIT	2015
2015-3	KUWAIT NATIONAL PETROLEUM COMPANY	MISUZU Industrial Corporation	KNPC CLEAN FUEL / DRAIN POT	KUWAIT	1	3 UNIT	2015
2015-4	PETROLEUM MEXICANOS	MISUZU Industrial Corporation	SALAMANCA ULSD / DRAIN POT	MEXICO	1	1 UNIT	2015
2015-5	PARKER TECHNO	PARKER TECHNO	KOREA / OIL FILTER	KOREA	1	1 UNIT	2015
2015-6	KUWAIT NATIONAL PETROLEUM COMPANY	MISUZU Industrial Corporation	KNPC CLEAN FUEL / N2 GAS FILTER	KUWAIT	1	6 UNIT	2015
2015-7	PETROLEUM MEXICANOS	MISUZU Industrial Corporation	SALAMANCA ULSD / N2 GAS FILTER	MEXICO	1	2 UNIT	2015
2015-8	HYUNDAI CHEMICAL CO., LTD	MISUZU Industrial Corporation	HDC MX LLU P/T / DRAIN POT	KUWAIT	1	8 UNIT	2015
2015-9	KUWAIT NATIONAL PETROLEUM COMPANY	MISUZU Industrial Corporation	KNPC CLEAN FUEL / N2 GAS FILTER, DRAIN POT, BOOSTER POT	KUWAIT	3	2 UNIT	2015
2016-1	FORMOSA PLASTICS CORP.	KOBE STEEL, LTD.	FORMOSA / LO OVERHEAD TANK	TAIWAN	1	1 UNIT	2016
2016-2	CCO(SINGAPORE) PTE.	TSURUMI PUMP	CCO SINGAPORE / SEPARATOR TANK	SINGAPORE	2	1 UNIT	2016
2016-3	KOLON INDUSTRIES	KOLON INDUSTRIES	BX POLY #14 / MIST CATCHER	KOREA	1	1 UNIT	2016
2016-4	PARKER TECHNO	PARKER TECHNO	KOREA / DUPLEX OIL FILTER	KOREA	1	1 UNIT	2016
2016-5	YAN'AN COG	MISUZU Industrial Corporation	YAN'AN COG / GAS FILTER & DRAIN POT (ASME STAMP)	CHINA	6	7 UNIT	2016
2016-6	KUWAIT NATIONAL PETROLEUM COMPANY	MISUZU Industrial Corporation	SINOPEC KNPC / DRAIN POT & BOOSTER POT (ASME STAMP)	KUWAIT	2	2 UNIT	2016
2016-7	D.S.M.E	KOBE STEEL, LTD.	BOG BOOSTING COMP / PRESSURE VESSEL	KOREA	8	1 UNIT	2017
2017-1	HYUNDAI HEAVY INDUSTRIES	KOBE STEEL, LTD.	HHIPARDUS / PRESSURE VESSEL	KOREA	6	6 UNIT	2017
2017-2	OLTIN YO'L GTL	KOBE STEEL, LTD.	UZBEKISTAN GAS TO LIQUID / PRESSURE VESSEL	UZBEKISTAN	11	24 UNIT	2017
2017-3	POSCO	MISUZU Industrial Corporation	COG BOOSTER FOR POSCO POHANG STEEL WORKS / OIL TANK	KOREA	1	1 UNIT	2018
2017-4	OLTIN YO'L GTL	KOBE STEEL, LTD.	UZBEKISTAN GAS TO LIQUID / DRAIN POT	UZBEKISTAN	6	12 UNIT	2018
2018-1	ORIENTAL ENERGY NEW MATERIAL CO.,LTD	MISUZU Industrial Corporation	U-3980-2 / GAS FILTER, DRAIN POT	CHINA	9	12 UNIT	2018
2018-2	KOGAS	ATLAS COPCO - AMERICA	KOGAS / DAMPER & BLOCK	KOREA	1	4 UNIT	2018
2018-3	THAILAND PETROCHEMICAL PLANT	KOBE STEEL, LTD.	SECL PTTGC(VG593) / OIL HEAD TANK	THAILAND	2	3 UNIT	2019
2018-4	GCGV ASSET HOLDING, LLC	KOBE STEEL, LTD.	N224 CMI / RUNDOWN TANK	U.S.A	2	3 UNIT	2019
2019-1	ISU CHEMICAL	HOWDEN	H2S DIAPHRAGM COMP	KOREA	4	2 UNIT	2019
2019-2	-	HANWHA POWER SYSTEMS	AM PROJECT / SEPARATOR	KOREA	3	3 UNIT	2019
2019-3	SK E&C	HANWHA POWER SYSTEMS	S PROJECT / MOISTURE SEPARATOR	KOREA	1	4 UNIT	2019
2019-4	-	IHI ROTATING MACHINERY	3051-X05F(JAPAN) / DEMISTER TANK	JAPAN	1	1 UNIT	2019
2019-5	GS CALTEX	HANWHA POWER SYSTEMS	YESU NO.2 COMPLEX / SEPARATOR	KOREA	3	1 UNIT	2019
2019-6	MTSUI CHEMICALS	KOBE STEEL	MELS DEBOTTLENECKING / SUC & DIS. SNUBBER & SEPARATOR	JAPAN	3	1 UNIT	2019
2019-7	MTSUI CHEMICALS	KOBE STEEL	MELS DEBOTTLENECKING / SUC. SEPARATOR & SNUBBER	JAPAN	2	1 UNIT	2019
2019-8	MTSUI CHEMICALS	KOBE STEEL	MELS DEBOTTLENECKING / SUC. SEPARATOR & SNUBBER	JAPAN	1	1 UNIT	2018
2019-9	HYUNDAI OIL BANK	MISUZU Industrial Corporation	HDO REVAMP / GAS FILTER	KOREA	1	1 UNIT	2019
2019-10	HYUNDAI OIL BANK	MISUZU Industrial Corporation	HDO REVAMP / GAS FILTER & DRAIN POT	KOREA	2	1 UNIT	2019
2019-11	TOYO INK GCO	KOBE STEEL	IPP 650 KTA LLDPE / RUNDOWN TANK	RUSSIA	1	1 UNIT	2019
2019-12	MARAN GAS	KOBE STEEL	MARAN GAS 174,000 CBM LNGC (X-DF) / 1ST DIS. DAMPER	-	1	5 UNIT	2018
2019-13	MARAN GAS	KOBE STEEL	MARAN GAS 174,000 CBM LNGC (X-DF) / SUC. DAMPER & CHARCOAL FILTER	-	1	5 UNIT	2018
2019-14	MARAN GAS	KOBE STEEL	MARAN GAS 174,000 CBM LNGC (X-DF) / 2ND SUC. DAMPER	-	1	5 UNIT	2018

Experience List (for Pressure Vessel)

JOB No	END USER	CONTRACTOR	PROJECT Name / ITEM Name		LOCATION	ITEM	Q'TY	DELIVERY
2019-15	MARAN GAS	KOBE STEEL	MARAN GAS 174,000 CBM LNGC (X-DF) / 3RD DIS. DAMPER & OIL DETECTOR		-	1	5 UNIT	2018
2019-16	LONG SON PETROCHEMICALS	KOBE STEEL	VIETNAM LSP HDPE/PP / SEAL GAS DRAIN POT		VIETNAM	1	1 UNIT	2020
2020-1	LONG SON PETROCHEMICALS	KOBE STEEL	LLDPE PLANT / LUBE OIL HEAD TANK		VIETNAM	1	1 UNIT	2020
2020-2	MUTON SIDERURGICAS	KOBE STEEL - AMERICA	ES-587 / OIL RESERVOIR		BOLIVIA	1	1 UNIT	2020
2020-3	HYUNDAI CHEMICAL	KOBE STEEL	HPC FEED PROJECT / LUBE OIL HEAD TANK		KOREA	4	4 UNIT	2020
2020-4	HYUNDAI CHEMICAL	MISUZU Industrial Corporation	HPC FEED PROJECT / N2 FILTER, DRAIN POT		KOREA	4	1 UNIT	2020
2020-5	LINDE	ATLAS COPCO - GERMANY	YEOSU CO EXPANDER / RELUBRICATOR TANK		KOREA	1	1 UNIT	2020
2020-6	HYOSUNG VIMA CHEMICAL	KOBE STEEL	HSVC OIL 1 / RUNDOWN TANK		VIETNAM	1	1 UNIT	2020
2020-7	RDMP BALIKPAPAN JO	MISUZU Industrial Corporation	RDMP RU-V BALIKPAPAN / DRAIN POT		INDONESIA	3	1 UNIT	2020
2020-8	CPC CORPORATION	KOBE STEEL	LNG PLANT OF CPC THIRD TERMINAL / VOLUME DRUM		TAIWAN	16	4 UNIT	2021
2020-9	DSME	SAMWOO HEAVY INDUSTRY	NRS PILOT PLANT/ N2 INVENTORY TANK, GAS SEPARATOR		KOREA	2	1 UNIT	2021

Experience List (for JAPNA KHK, J2PVC)

JOB No	END USER	CONTRACTOR	PROJECT Name / ITEM Name		JAPANESE CODE	LOCATION	ITEM	Q'TY	DELIVERY
2015-1	JFE STEEL CORP.	IHI ROTATING MACHINERY	TAIYO NISSAN / NO.1 INTER COOLER		J2PVC	JAPAN	1	1 UNIT	2016
2015-2	JFE STEEL CORP.	IHI ROTATING MACHINERY	TAIYO NISSAN / NO.2 INTER COOLER		J2PVC	JAPAN	1	1 UNIT	2016
2015-3	JFE STEEL CORP.	IHI ROTATING MACHINERY	TAIYO NISSAN / AFTER COOLER		J2PVC	JAPAN	1	1 UNIT	2016
2018-1	TAIYO NIPPON SANSO	IHI ROTATING MACHINERY	3051-133-TNS / INTER, AFTER COOLER		J2PVC	JAPAN	3	3 UNIT	2018
2018-2	KOBE STEEL	IHI ROTATING MACHINERY	3051-141-KSL / INTER, AFTER COOLER		J2PVC	JAPAN	3	1 UNIT	2019
2018-3	TLO	IHI ROTATING MACHINERY	TLO / INTER, AFTER COOLER		J2PVC	JAPAN	2	1 UNIT	2019
2018-4	TAIYO NIPPON SANSO	IHI ROTATING MACHINERY	3051-142 TNS / INTER, AFTER COOLER		KHK(HPGSL)	JAPAN	3	1 UNIT	2018
2018-5	TAIYO NIPPON SANSO	IHI ROTATING MACHINERY	3051-142 TNS / INTER COOLER		J2PVC	JAPAN	1	1 UNIT	2019
2019-1	SUMIKIN	IHI ROTATING MACHINERY	3004Y43 / SUMIKIN / INTER, AFTER COOLER		J2PVC	JAPAN	2	2 UNIT	2019
2019-2	-	IHI ROTATING MACHINERY	3051-X05(F) / JAPAN / INTER, AFTER COOLER		J2PVC	JAPAN	3	3 UNIT	2019
2019-3	NAGOYA	IHI ROTATING MACHINERY	3051-154 / INTER COOLER		J2PVC	JAPAN	1	1 UNIT	2019
2019-4	NAGOYA	IHI ROTATING MACHINERY	3051-154 / AFTER COOLER		KHK(HPGSL)	JAPAN	1	1 UNIT	2019
2019-5	AIR LIQUIDE/KAGOSHIMA	IHI ROTATING MACHINERY	NO.1 INTER COOLER		KHK(HPGSL)	JAPAN	1	1 UNIT	2019
2019-6	AIR LIQUIDE/KAGOSHIMA	IHI ROTATING MACHINERY	NO.2 INTER COOLER		KHK(HPGSL)	JAPAN	1	1 UNIT	2019
2019-7	AIR LIQUIDE/KAGOSHIMA	IHI ROTATING MACHINERY	AFTER COOLER		KHK(HPGSL)	JAPAN	1	1 UNIT	2019
2019-8	AIR LIQUIDE/KAGOSHIMA	IHI ROTATING MACHINERY	AFTER COOLER		KHK(HPGSL)	JAPAN	1	1 UNIT	2019
2019-9	SAC/DAICEL	KOBE STEEL	SAC-DAICEL / INTER, AFTER COOLER		J2PVC	JAPAN	3	1 UNIT	2019
2019-10	LINDE/DAICEL	KOBE STEEL	LINDE - DAICEL / INTER COOLER		J2PVC	JAPAN	2	1 UNIT	2019
2019-11	NIPPON STEEL	KOBE STEEL	NIPPON STEEL / INTER, AFTER COOLER		J2PVC	JAPAN	2	1 UNIT	2020
2019-12	SUMITOMO	IHI ROTATING MACHINERY	NO.3 INTER COOLER, AFTER COOLER		J2PVC	JAPAN	2	1 UNIT	2019
2019-13	JFE STEEL CORP.	IHI ROTATING MACHINERY	3051-183 / INTER, AFTER COOLER		J2PVC	JAPAN	2	1 UNIT	2020
2020-1	AMAGASKI	HANWHA POWER SYSTEM	S.JP AL JAPAN AMAGASKI MAC / AFTER COOLER		J2PVC	JAPAN	1	1 UNIT	2021
2020-2	SODEGAURA	IHI ROTATING MACHINERY	SODEGAURA / INTER, AFTER COOLER		J2PVC	JAPAN	6	4 UNIT	2021
2020-3	AIR LIQUIDE FAR EASTERN	AIR LIQUIDE (JAPAN)	SONY KUMAMOTO NO.4 / INTER COOLER		KHK(HPGSL)	JAPAN	1	1 UNIT	2021
2020-4	OITA SC	IHI ROTATING MACHINERY	OITA SC PROJECT / INTER, AFTER COOLER		J2PVC	JAPAN	4	1 UNIT	2021
2020-5	TLO	IHI ROTATING MACHINERY	3005-X11_TLO / INTER COOLER		J2PVC	JAPAN	1	1 UNIT	2021
2020-6	NIPPON STEEL	IHI ROTATING MACHINERY	NSC / INTER COOLER		J2PVC	JAPAN	3	1 UNIT	2021

Experience List (for LNG & LPG SHIP)

JOB No.	CUSTOMER	CONTRACTOR	PROJECT Name / ITEM Name		CLASS	ITEM	Q'TY	DESIGN TEMP.	DELIVERY
2017-1	DSME	HANWHA POWER SYSTEMS	DSME MOL EXPANDER(H.2462) / AFTER COOLER		BV	1	1	200 °C	2017. 05
2017-2	DSME	KOBE STEEL	E.ON-MOL 180,000m3 LNG CARRIER(H.NO.2462) / DISCHARGE COOLER & DAMPER"		BV&IGC	11	12	180 °C	2017. 06
2017-3	H.H.I	KOBE STEEL	HHI PAROUS MSO COMPRESSOR (H.NO.2945) / DISCHARGE COOLER & DAMPER"		BV&IGC	9	9	180 °C	2018. 02
2017-4	DSME	HANWHA POWER SYSTEMS	DSME MOL EXPANDER(H.2462) / OIL COOLER		BV	1	1	100 °C	2017. 06
2017-5	CORAL FLNG / MOZAMBIQUE / S.H.I	HANWHA POWER SYSTEMS	CORAL SOUTH DEVELOPMENT / INTER&AFTER&OIL COOLER		LR&IGC	4	12	195 °C	2018. 11
2017-6	S.H.I	ATLAS CORPCO	KOGAS(H.NO.2233/2234) / PRE-HEATER		KR	1	4	-165 °C	2018. 09
2017-7	CORAL FLNG / MOZAMBIQUE / S.H.I	HANWHA POWER SYSTEMS	CORAL SOUTH DEVELOPMENT / LNG CARGO TANK WARM-UP HEATER		LR&IGC	1	4	-170 °C	2019. 06
2018-1	DSME	ATLAS CORPCO	MARAN 173,400 CBM FSRU(H.NO. 2477/2487) / AFTER COOLER		DNV-GL	3	6	200 °C	2019. 01
2019-1	S.H.I	ATLAS CORPCO	LNG SHIP(SN2297/2298) / OIL COOLER		LR	2	4	110 °C	2019. 06
2019-2	DSME	KOBE STEEL	E.ON-MOL 180,000m3 LNG CARRIER(H.NO.2488/2489) / DISCHARGE COOLER & DAMPER		BV&IGC	11	24	180 °C	2019. 11
2019-3	S.H.I	ATLAS CORPCO	LNG SHIP(SN213/2314) / OIL COOLER		LR	2	2	110 °C	2019. 12
2019-4	S.H.I	ATLAS CORPCO	LNG SHIP / OIL COOLER		ABS	1	1	140 °C	2020. 02
2019-5	S.H.I	ATLAS CORPCO	LNG SHIP(SN2310) / OIL COOLER		DNV-GL	1	2	110 °C	2020. 02
2019-6	DSME	KOBE STEEL	LNG SHIP PROJECT (H.NO.2485/2504) / DISCHARGE COOLER & DAMPER		ABS&IGC	11	24	180 °C	2020. 05
2019-7	DSME	KOBE STEEL	LNG SHIP PROJECT (H.NO.2505) / DISCHARGE COOLER & DAMPER"		BV&IGC	11	12	180 °C	2020. 05
2019-8	DSME	KOBE STEEL	LNG SHIP PROJECT (H.NO.2502/2503) / DISCHARGE COOLER & DAMPER		DNV-GL&IGC	11	24	180 °C	2020. 05
2019-9	DSME	KOBE STEEL	LNG SHIP PROJECT (H.NO.2507) / DISCHARGE COOLER & DAMPER		LR&IGC	11	12	180 °C	2020. 07
2019-10	DSME	KANGRIM HEAVY INDUSTRIES CO., LTD	DRYER (H.NO.2357/2358) / IGG GAS COOLER		LR	1	2	50 °C	2020. 11
2020-1	H.H.I	KANGRIM HEAVY INDUSTRIES CO., LTD	DRYER (H.NO.3185--3188) / IGG GAS COOLER		LR&DNV-GL&KR	1	4	50 °C	2020. 11
2020-2	H.H.I	KANGRIM HEAVY INDUSTRIES CO., LTD	DRYER (H.NO.8091--8094) / IGG STEAM GAS HEATER		LR&DNV-GL&KR	1	4	50 °C	2020. 11
2020-3	DSME	HANWHA POWER SYSTEMS	MOL 361,600 m3 LNG BARGE, N2 COMPANDER (H.NO.2512/2513) / INTER&AFTER&OIL COOLER		BV&RS&IGC	4	24	150 °C	2021. 04
2020-4	DSME	HANWHA POWER SYSTEMS	MOL 361,600 m3 LNG BARGE, BOG COMP. (H.NO.2512/2513) / INTER&AFTER&OIL COOLER		BV&RS&IGC	4	24	150 °C	2021. 04
2020-5	DSME	HANWHA POWER SYSTEMS	MOL 361,600 m3 LNG BARGE, FG COMP. (H.NO.2512/2513) / AFTER&OIL COOLER		BV&RS&IGC	2	8	150 °C	2021. 04
2020-6	DSME	SAMWOO HEAVY IND.	MOL 361,600 m3 LNG BARGE, (H.NO.2512/2513) / BOG PRE HEATER		BV&RS&IGC	1	6	-196 °C	2021. 03
2020-7	DSME	SAMWOO HEAVY IND.	MOL 361,600 m3 LNG BARGE, (H.NO.2512/2513) / WASTE GAS HEATER		BV&RS&IGC	1	6	-196 °C	2021. 03
2020-8	DSME	SAMWOO HEAVY IND.	DSME NRS PILOT PLANT / NG HEATER		KR	1	1	-196 °C	2021. 04
2020-9	DSME	SAMWOO HEAVY IND.	DSME NRS PILOT PLANT / N2 INVENTORY TANK		KR	1	1	70 °C	2021. 04
2020-10	DSME	SAMWOO HEAVY IND.	DSME NRS PILOT PLANT / LIQUID/GAS SEPARATOR		KR	1	1	-196 °C	2021. 04

Experience List (for RUSSIAN TR-CU

JOB No	END USER	CONTRACTOR	PROJECT Name / ITEM Name		LOCATION	ITEM	Q'TY	DELIVERY
2017-1	SEVERSTAL	HANWHA POWER SYSTEM	RU SEVERSTAL / INTER, AFTER COOLER		RUSSIA	3	9 UNIT	2017
2017-2	KAZANORGSYNTEZ	HANWHA POWER SYSTEM	RU KAZANORGSYNTEZ #01 / INTER, AFTER, OIL COOLER		RUSSIA	5	4 UNIT	2018
2017-3	OLTIN YO'L GTL	KOBE STEEL	HEC/OLTIN YO'L GTL / OIL COOLER, CW COOLER		UZBEKISTAN	6	6 UNIT	2018
2017-4	OLTIN YO'L GTL	KOBE STEEL, LTD.	UZBEKISTAN GAS TO LIQUID / PRESSURE VESSEL		UZBEKISTAN	11	24 UNIT	2017
2018-1	AMUR GAS PROCESSING PLANT	HANWHA POWER SYSTEM	TECHIMONT AGPP SINERGIA / INTER, OIL COOLER		RUSSIA	5	6 UNIT	2018
2018-2	AMUR GAS PROCESSING PLANT	HANWHA POWER SYSTEM	TECHIMONT AGPP SIAD / INTER, OIL COOLER		RUSSIA	3	6 UNIT	2018
2018-3	CRYOGENMASH	HANWHA POWER SYSTEM	S_RU CRYOGENMASH ZHELEZNOGORSK / AFTER COOLER		RUSSIA	1	1 UNIT	2018
2018-4	NEFTECHMSERVICE	HANWHA POWER SYSTEM	YASKY / AFTER COOLER		RUSSIA	1	1 UNIT	2019
2019-5	NIZHNEKAMSKNEFTEKHIM	HANWHA POWER SYSTEM	LINDE Nizhnekamsk / INTER COOLER		RUSSIA	2	1 UNIT	2020
2019-1	TOYO INKGCC	HANWHA POWER SYSTEM	IPP 650 KTA Ethylene Plant / INTER, OIL COOLER		RUSSIA	3	1 UNIT	2020
2019-2	VNIIEF	HANWHA POWER SYSTEM	RU VNIIEF / AFTER COOLER		RUSSIA	2	1 UNIT	2020
2019-3	ALNG	HANWHA POWER SYSTEM	TECHNIP ARCTIC LNG2 / INTER, OIL COOLER		RUSSIA	6	6 UNIT	2020
2019-4	SIBUR	HANWHA POWER SYSTEM	RU SIBUR PJT / AFTER, RECYCLE COOLER		RUSSIA	2	1 UNIT	2020
2020-5	VNIIEF	HANWHA POWER SYSTEM	VNIIEF PJT / AFTER COOLER		RUSSIA	1	1 UNIT	2020
2020-6	SIAD	HANWHA POWER SYSTEM	RU SIAD PROJECT / INTER COOLER		RUSSIA	3	1 UNIT	2021
2020-7	AMUR GCC LLC	HANWHA POWER SYSTEM	LINDE- SIBUR / INTER, OIL COOLER		RUSSIA	3	1 UNIT	2021

Experience List For Ship Building

JOB No	END USER	CONTRACTOR	PROJECT Name	ITEM	Q'TY	DELIVERY
1	-	HSD Engine	BP2441	VENT SILENCER 3 FULL SETS.	1	Apr. 2017
2	-	HSD Engine	CHAN H2464	VENT SILENCER 3 FULL SETS.	1	Sep. 2017
3	-	HSD Engine	BP2442	VENT SILENCER 3 FULL SETS.	1	Oct. 2017
4	-	HSD Engine	BP2443	VENT SILENCER 3 FULL SETS.	1	Dec. 2017
5	-	HSD Engine	BP2444	VENT SILENCER 3 FULL SETS.	1	Jan. 2018
6	-	HSD Engine	BP2445	VENT SILENCER 3 FULL SETS.	1	Feb. 2018
7	-	HSD Engine	BP2446	VENT SILENCER 3 FULL SETS.	1	Apr. 2018
8	-	HSD Engine	SEAT2470	VENT SILENCER 3 FULL SETS.	1	May. 2018
9	-	HSD Engine	SEAT2471	VENT SILENCER 3 FULL SETS.	1	Jul. 2018
10	-	HSD Engine	BWGA 2489	VENT SILENCER 3 FULL SETS.	1	Aug. 2018
11	-	HSD Engine	BWGA 2490	VENT SILENCER 3 FULL SETS.	1	Dec. 2018
12	-	HSD Engine	PASH-0210	VENT SILENCER FOR ME-GI 1SET	1	Feb. 2019
13	-	HSD Engine	BWGA 2491	VENT SILENCER 3 FULL SETS.	1	May. 2019
14	-	HSD Engine	SEAT 2479	VENT SILENCER 3 FULL SETS.	1	Jul. 2019
15	-	HSD Engine	ALPH 2483	VENT SILENCER 3 FULL SETS. with PLATFORM	1	Jul. 2019
16	-	HSD Engine	SEAT 2480	VENT SILENCER 3 FULL SETS.	1	Aug. 2019
17	-	HSD Engine	SEAT 2492	VENT SILENCER 3 FULL SETS.	1	Sep. 2019
18	-	HSD Engine	ALPH 2484	VENT SILENCER 3 FULL SETS. with PLATFORM	1	Oct. 2019
19	-	HSD Engine	PASH-0211	VENT SILENCER FOR ME-GI 1SET	1	Oct. 2019
20	-	HSD Engine	MINE 2481	VENT SILENCER 3 FULL SETS. with PLATFORM	1	Dec. 2019
21	-	HSD Engine	MINE 2482	VENT SILENCER 3 FULL SETS. with PLATFORM	1	Feb. 2020
22	-	HSD Engine	BWGA2496	VENT SILENCER 3 FULL SETS.	1	Feb. 2020
23	-	HSD Engine	BWGA2497	VENT SILENCER 3 FULL SETS.	1	Mar. 2020
24	-	HSD Engine	ALPH 2485	VENT SILENCER 3 FULL SETS. with PLATFORM	1	Apr. 2020
25	-	HSD Engine	ALPH 2500	VENT SILENCER 3 FULL SETS. with PLATFORM	1	May. 2020

1	-	HSD Engine	GASL2212	X72DF / AIR SEPARATOR	2	Apr. 2019
2	-	HSD Engine	GASL2262	X72DF / AIR SEPARATOR	2	May. 2019
3	-	HSD Engine	GASL2300	X72DF / AIR SEPARATOR	2	Aug. 2019
4	-	HSD Engine	GASL2213	X72DF / AIR SEPARATOR	2	Sep. 2019
5	-	HSD Engine	GASL2274	X72DF / AIR SEPARATOR	2	Sep. 2019
6	-	HSD Engine	GASL2301	X72DF / AIR SEPARATOR	2	Sep. 2019
7	-	HSD Engine	GASL2130P1G	X72DF / AIR SEPARATOR	2	Oct. 2019
8	-	HSD Engine	MINE2304	X72DF / AIR SEPARATOR	2	Nov. 2019
9	-	HSD Engine	GASL2311	X72DF / AIR SEPARATOR	2	Dec. 2019
10	-	HSD Engine	MOL_2498	X72DF / AIR SEPARATOR	2	Dec. 2019
11	-	HSD Engine	MOL_2499	X72DF / AIR SEPARATOR	2	Jan. 2020
12	-	HSD Engine	NAV12310	X72DF / AIR SEPARATOR	2	Jan. 2020
13	-	HSD Engine	MINE2305	X72DF / AIR SEPARATOR	2	Feb. 2020
14	-	HSD Engine	OA2345	6X62DF / AIR SEPARATOR	1	May. 2020
15	-	HSD Engine	GASL2312	X72DF / AIR SEPARATOR	2	Jun. 2020
16	-	HSD Engine	OA2346	6X62DF / AIR SEPARATOR	1	Jul. 2020
17	-	HSD Engine	OA2347	6X62DF / AIR SEPARATOR	1	Aug. 2020
18	-	HSD Engine	OA2348	6X62DF / AIR SEPARATOR	1	Sep. 2020
19	-	HSD Engine	OA2349	6X62DF / AIR SEPARATOR	1	Oct. 2020
20	-	HSD Engine	OA2350	6X62DF / AIR SEPARATOR	1	Nov. 2020
21	-	HSD Engine	OA2351	6X62DF / AIR SEPARATOR	1	Nov. 2020

1	D.S.M.E	HI-AIR KOREA	DSM0302	WEATHER LOUVER	3	Mar. 2011
2	HANJIN HEAVY IND.	HI-AIR KOREA	HHCOS126	WEATHER LOUVER	2	Jan. 2014
3	HYUNDAI HEAVY IND.	HI-AIR KOREA	HHIO0Q41	WEATHER LOUVER	2	Feb. 2016
4	HYUNDAI HEAVY IND.	HI-AIR KOREA	HHIO2546	WEATHER LOUVER	18	Jun. 2012
5	HYUNDAI HEAVY IND.	HI-AIR KOREA	HHIOP136 /	WEATHER LOUVER	8	Oct. 2012
6	HYUNDAI HEAVY IND.	HI-AIR KOREA	HHIOQ526	WEATHER LOUVER	30	Apr. 2013
7	HYUNDAI MIPO IND.	HI-AIR KOREA	HMD08068	WEATHER LOUVER	2	Mar. 2011
8	HYUNDAI MIPO IND.	HI-AIR KOREA	HMD08069	WEATHER LOUVER	2	Mar. 2011
9	HYUNDAI MIPO IND.	HI-AIR KOREA	HMD08073	WEATHER LOUVER	2	Jul. 2011

Experience List For Ship Building

JOB No	END USER	CONTRACTOR	PROJECT Name	ITEM	Q'TY	DELIVERY
10	HYUNDAI MIPO IND.	HI-AIR KOREA	HMD08106	WEATHER LOUVER	4	Nov. 2012
11	HYUNDAI MIPO IND.	HI-AIR KOREA	HMD08107	WEATHER LOUVER	4	Feb.2013
12	HYUNDAI MIPO IND.	HI-AIR KOREA	HMD08163	WEATHER LOUVER	2	Oct. 2014
13	HYUNDAI MIPO IND.	HI-AIR KOREA	HMD08164	WEATHER LOUVER	2	Dec. 2014
14	HYUNDAI MIPO IND.	HI-AIR KOREA	HMD08165	WEATHER LOUVER	2	Mar. 2015
15	HYUNDAI MIPO IND.	HI-AIR KOREA	HMD08166	WEATHER LOUVER	4	Apr. 2015
16	HYUNDAI MIPO IND.	HI-AIR KOREA	HMD08167	WEATHER LOUVER	2	Jun. 2015
17	HYUNDAI MIPO IND.	HI-AIR KOREA	HMD08170	WEATHER LOUVER	3	Jan. 2016
18	HYUNDAI MIPO IND.	HI-AIR KOREA	HMD08171	WEATHER LOUVER	3	Jan. 2016
19	HYUNDAI MIPO IND.	HI-AIR KOREA	HMD08209	WEATHER LOUVER	2	May. 2017
20	HYUNDAI MIPO IND.	HI-AIR KOREA	HMD08210	WEATHER LOUVER	2	Aug. 2017
21	HYUNDAI MIPO IND.	HI-AIR KOREA	HMD08213	WEATHER LOUVER	2	Jan. 2017
22	HYUNDAI MIPO IND.	HI-AIR KOREA	HMD08214	WEATHER LOUVER	2	Feb. 2017
23	HYUNDAI SAMHO IND.	HI-AIR KOREA	HS00672	WEATHER LOUVER	20	Jun. 2014
24	HYUNDAI SAMHO IND.	HI-AIR KOREA	HS00842	WEATHER LOUVER	4	Sep. 2016
25	HYUNDAI SAMHO IND.	HI-AIR KOREA	HS00843	WEATHER LOUVER	4	Dec. 2016
26	HYUNDAI SAMHO IND.	HI-AIR KOREA	HS00844	WEATHER LOUVER	4	Jan. 2017
27	HYUNDAI SAMHO IND.	HI-AIR KOREA	HS00845	WEATHER LOUVER	4	Feb. 2017
28	HYUNDAI SAMHO IND.	HI-AIR KOREA	HS00846	WEATHER LOUVER	4	Apr. 2017
29	HYUNDAI SAMHO IND.	HI-AIR KOREA	HS00847	WEATHER LOUVER	4	May. 2017
30	HYUNDAI SAMHO IND.	HI-AIR KOREA	HS00848	WEATHER LOUVER	4	Jul. 2017
31	HYUNDAI SAMHO IND.	HI-AIR KOREA	HS00849	WEATHER LOUVER	4	Jun. 2017
32	HYUNDAI SAMHO IND.	HI-AIR KOREA	HS00850	WEATHER LOUVER	4	Sep. 2017
33	HYUNDAI SAMHO IND.	HI-AIR KOREA	HS00851	WEATHER LOUVER	4	Oct. 2017
34	HYUNDAI SAMHO IND.	HI-AIR KOREA	HS0S707	WEATHER LOUVER	1	Sep. 2015
35	SAMSUNG HEAVY IND.	HI-AIR KOREA	SHI01755	WEATHER LOUVER	2	Nov. 2011
36	SAMSUNG HEAVY IND.	HI-AIR KOREA	SHI01911	WEATHER LOUVER	5	Dec. 2011
37	SAMSUNG HEAVY IND.	HI-AIR KOREA	SHI01912	WEATHER LOUVER	5	Jan. 2012
38	SAMSUNG HEAVY IND.	HI-AIR KOREA	SHI01940	WEATHER LOUVER	2	Jul. 2012
39	SAMSUNG HEAVY IND.	HI-AIR KOREA	SHI01979	WEATHER LOUVER	5	Apr. 2012
40	SAMSUNG HEAVY IND.	HI-AIR KOREA	SHI02013	WEATHER LOUVER	5	Jan.2012
41	SAMSUNG HEAVY IND.	HI-AIR KOREA	SHI02014	WEATHER LOUVER	5	Jan.2012
42	SAMSUNG HEAVY IND.	HI-AIR KOREA	SHI02015	WEATHER LOUVER	6	Jun. 2012
43	SAMSUNG HEAVY IND.	HI-AIR KOREA	SHI02018	WEATHER LOUVER	4	Jul. 2012
44	SAMSUNG HEAVY IND.	HI-AIR KOREA	SHI02019	WEATHER LOUVER	4	Oct. 2012
45	SAMSUNG HEAVY IND.	HI-AIR KOREA	SHI02020	WEATHER LOUVER	5	Jul. 2012
46	SAMSUNG HEAVY IND.	HI-AIR KOREA	SHI02030	WEATHER LOUVER	95	Dec. 2012
47	SAMSUNG HEAVY IND.	HI-AIR KOREA	SHI02032	WEATHER LOUVER	5	Aug. 2012
48	SAMSUNG HEAVY IND.	HI-AIR KOREA	SHI02054	WEATHER LOUVER	5	Nov. 2012
49	SAMSUNG HEAVY IND.	HI-AIR KOREA	SHI02059	WEATHER LOUVER	12	May. 2013
50	SAMSUNG HEAVY IND.	HI-AIR KOREA	SHI02062	WEATHER LOUVER	12	Jun. 2013
51	SAMSUNG HEAVY IND.	HI-AIR KOREA	SHI02063	WEATHER LOUVER	5	Oct. 2013
52	SAMSUNG HEAVY IND.	HI-AIR KOREA	SHI02068	WEATHER LOUVER	5	Jul. 2013
53	SAMSUNG HEAVY IND.	HI-AIR KOREA	SHI02096	WEATHER LOUVER	12	Jun. 2013
54	SAMSUNG HEAVY IND.	HI-AIR KOREA	SHI02126	WEATHER LOUVER	22	Nov. 2015
55	SAMSUNG HEAVY IND.	HI-AIR KOREA	SHI02132	WEATHER LOUVER	1	Oct. 2015
56	SAMSUNG HEAVY IND.	HI-AIR KOREA	SHI02133	WEATHER LOUVER	1	Nov. 2015
57	SAMSUNG HEAVY IND.	HI-AIR KOREA	SHI02134	WEATHER LOUVER	1	Jan. 2016
58	SAMSUNG HEAVY IND.	HI-AIR KOREA	SHI02135	WEATHER LOUVER	1	Mar. 2016
59	SAMSUNG HEAVY IND.	HI-AIR KOREA	SHI02136	WEATHER LOUVER	1	Jul. 2016
60	SAMSUNG HEAVY IND.	HI-AIR KOREA	SHI02137	WEATHER LOUVER	1	Aug. 2016
61	SAMSUNG HEAVY IND.	HI-AIR KOREA	SHI02172	WEATHER LOUVER	1	Mar. 2017
62	SAMSUNG HEAVY IND.	HI-AIR KOREA	SHI02173	WEATHER LOUVER	1	Apr. 2017
63	SAMSUNG HEAVY IND.	HI-AIR KOREA	SHI02174	WEATHER LOUVER	1	Apr. 2017
64	SAMSUNG HEAVY IND.	HI-AIR KOREA	SHI02175	WEATHER LOUVER	1	Apr. 2017
65	SAMSUNG HEAVY IND.	HI-AIR KOREA	SHI02176	WEATHER LOUVER	1	Apr. 2017
66	SAMSUNG HEAVY IND.	HI-AIR KOREA	SHI02177	WEATHER LOUVER	1	May. 2017

Experience List For Ship Building

JOB No	END USER	CONTRACTOR	PROJECT Name	ITEM	Q'TY	DELIVERY
67	SAMSUNG HEAVY IND.	HI-AIR KOREA	SHI02245	WEATHER LOUVER	1	Apr. 2017
68	SAMSUNG HEAVY IND.	HI-AIR KOREA	SHI07074	WEATHER LOUVER	4	Apr. 2011
69	SAMSUNG HEAVY IND.	HI-AIR KOREA	SHI07081	WEATHER LOUVER	7	Apr. 2010
70	SAMSUNG HEAVY IND.	HI-AIR KOREA	SHI07085	WEATHER LOUVER	2	Nov. 2010
71	SAMSUNG HEAVY IND.	HI-AIR KOREA	SHI07091	WEATHER LOUVER	9	Apr. 2012
72	SAMSUNG HEAVY IND.	HI-AIR KOREA	SHI07092	WEATHER LOUVER	1	Aug. 2012
73	SAMSUNG HEAVY IND.	HI-AIR KOREA	SHI07094	WEATHER LOUVER	23	Jun. 2012
74	SAMSUNG HEAVY IND.	HI-AIR KOREA	SHI07096	WEATHER LOUVER	23	Aug. 2012
75	SAMSUNG HEAVY IND.	HI-AIR KOREA	SHI07099	WEATHER LOUVER	4	Jan. 2013
76	SAMSUNG HEAVY IND.	HI-AIR KOREA	SHI07101	WEATHER LOUVER	4	Oct. 2012
77	SAMSUNG HEAVY IND.	HI-AIR KOREA	SHI07103	WEATHER LOUVER	23	Sep. 2012
78	SAMSUNG HEAVY IND.	HI-AIR KOREA	SHI07104	WEATHER LOUVER	25	Oct. 2013
79	SAMSUNG HEAVY IND.	HI-AIR KOREA	SHI07105	WEATHER LOUVER	4	Mar. 2013
80	SAMSUNG HEAVY IND.	HI-AIR KOREA	SHI07107	WEATHER LOUVER	4	Jun. 2013
81	SAMSUNG HEAVY IND.	HI-AIR KOREA	SHI07108	WEATHER LOUVER	2	Dec. 2014
82	SAMSUNG HEAVY IND.	HI-AIR KOREA	SHI07121	WEATHER LOUVER	24	Sep. 2014
83	STX HEAVY IND.	HI-AIR KOREA	STXF1005	WEATHER LOUVER	10	Jan. 2013
84	STX HEAVY IND.	HI-AIR KOREA	STXF1006	WEATHER LOUVER	10	Aug. 2013
85	STX HEAVY IND.	HI-AIR KOREA	STXB5055	WEATHER LOUVER	8	Dec. 2010
86	STX HEAVY IND.	HI-AIR KOREA	STXB5057	WEATHER LOUVER	8	Mar. 2011
87	STX HEAVY IND.	HI-AIR KOREA	STXS1611	WEATHER LOUVER	1	Jan. 2015
88	STX HEAVY IND.	HI-AIR KOREA	STXS1612	WEATHER LOUVER	1	Jul. 2015
89	STX HEAVY IND.	HI-AIR KOREA	STXS1613	WEATHER LOUVER	1	Sep. 2015
90	STX HEAVY IND.	HI-AIR KOREA	STXS1614	WEATHER LOUVER	1	Aug. 2015
91	STX HEAVY IND.	HI-AIR KOREA	STXS1615	WEATHER LOUVER	1	Aug. 2015
92	STX HEAVY IND.	HI-AIR KOREA	STXS1616	WEATHER LOUVER	1	Jan. 2016
93	STX HEAVY IND.	HI-AIR KOREA	STXS1617	WEATHER LOUVER	1	Nov. 2015
94	STX HEAVY IND.	HI-AIR KOREA	STXS1618	WEATHER LOUVER	1	Jan. 2016
95	STX HEAVY IND.	HI-AIR KOREA	STXS1619	WEATHER LOUVER	1	Mar. 2016
96	STX HEAVY IND.	HI-AIR KOREA	STXS1631	WEATHER LOUVER	1	Nov. 2015
97	STX HEAVY IND.	HI-AIR KOREA	STXS1632	WEATHER LOUVER	1	Nov. 2015
98	STX HEAVY IND.	HI-AIR KOREA	STXS1633	WEATHER LOUVER	1	Feb. 2016
99	STX HEAVY IND.	HI-AIR KOREA	STXS1635	WEATHER LOUVER	1	Mat. 2016
100	STX HEAVY IND.	HI-AIR KOREA	STXS1694	WEATHER LOUVER	1	Feb. 2016
101	STX HEAVY IND.	HI-AIR KOREA	STXS1695	WEATHER LOUVER	1	May. 2016
102	STX HEAVY IND.	HI-AIR KOREA	STXS1696	WEATHER LOUVER	1	Oct. 2016
103	STX HEAVY IND.	HI-AIR KOREA	STXS1697	WEATHER LOUVER	1	Nov. 2016
1	SAMSUNG HEAVY IND.	HI-AIR KOREA	SHI02030	WATER ELIMINATOR	1 SET	May. 2015
2	SAMSUNG HEAVY IND.	HI-AIR KOREA	SHI07108	WATER ELIMINATOR	4 SET	Oct. 2017
3	SAMSUNG HEAVY IND.	HI-AIR KOREA	SHI07117	WATER ELIMINATOR	1 SET	Sep. 2017
4	SAMSUNG HEAVY IND.	HI-AIR KOREA	SHI07118	WATER ELIMINATOR	1 SET	Sep. 2017
1	-	ABEX	SP 9364	OIL UNIT	1 SET	Jun. 2019
2	-	MES	SW 0118	OIL UNIT	1 SET	Jan. 2020
1	DSM Ship Management	HI-AIR KOREA	DSM03401	SOUND ATTENUATOR	230	Jul. 2012
2	DSM Ship Management	HI-AIR KOREA	DSM03402	SOUND ATTENUATOR	1	Sep. 2012
3	DSM Ship Management	HI-AIR KOREA	DSM03618	SOUND ATTENUATOR	1	Jun. 2017
4	DSM Ship Management	HI-AIR KOREA	DSM03620	SOUND ATTENUATOR	40	Dec. 2014
5	DSM Ship Management	HI-AIR KOREA	DSM06054	SOUND ATTENUATOR	316	Mar. 2014
6	DSM Ship Management	HI-AIR KOREA	DSME7511	SOUND ATTENUATOR	1	May. 2011
7	DAESUN SHIP BUILDING	HI-AIR KOREA	DSSSB567	SOUND ATTENUATOR	1	Sep. 2013
8	DAESUN SHIP BUILDING	HI-AIR KOREA	DSSSB568	SOUND ATTENUATOR	1	Sep. 2013
9	DAESUN SHIP BUILDING	HI-AIR KOREA	DSSSB569	SOUND ATTENUATOR	1	Oct. 2013
10	HYUNDAI HEAVY IND.	HI-AIR KOREA	HHI02154	SOUND ATTENUATOR	1	Nov. 2011
11	HYUNDAI HEAVY IND.	HI-AIR KOREA	HHI02155	SOUND ATTENUATOR	1	Nov. 2011
12	HYUNDAI HEAVY IND.	HI-AIR KOREA	HHI02156	SOUND ATTENUATOR	1	Nov. 2011

Experience List For Ship Building

JOB No	END USER	CONTRACTOR	PROJECT Name	ITEM	Q'TY	DELIVERY
13	HYUNDAI HEAVY IND.	HI-AIR KOREA	HHI02157	SOUND ATTENUATOR	1	Dec. 2011
14	HYUNDAI HEAVY IND.	HI-AIR KOREA	HHI02164	SOUND ATTENUATOR	1	Dec. 2011
15	HYUNDAI HEAVY IND.	HI-AIR KOREA	HHI02165	SOUND ATTENUATOR	1	Dec. 2011
16	HYUNDAI HEAVY IND.	HI-AIR KOREA	HHI02166	SOUND ATTENUATOR	1	Dec. 2011
17	HYUNDAI HEAVY IND.	HI-AIR KOREA	HHI02167	SOUND ATTENUATOR	1	Dec. 2011
18	HYUNDAI HEAVY IND.	HI-AIR KOREA	HHI02503	SOUND ATTENUATOR	5	Mar. 2012
19	HYUNDAI HEAVY IND.	HI-AIR KOREA	HHI02504	SOUND ATTENUATOR	38	Jul. 2012
20	HYUNDAI HEAVY IND.	HI-AIR KOREA	HHI02506	SOUND ATTENUATOR	38	May. 2012
21	HYUNDAI HEAVY IND.	HI-AIR KOREA	HHI02507	SOUND ATTENUATOR	39	Oct. 2012
22	HYUNDAI HEAVY IND.	HI-AIR KOREA	HHI02508	SOUND ATTENUATOR	43	May. 2013
23	HYUNDAI HEAVY IND.	HI-AIR KOREA	HHI02512	SOUND ATTENUATOR	38	Nov. 2012
24	HYUNDAI HEAVY IND.	HI-AIR KOREA	HHI02546	SOUND ATTENUATOR	39	Jan. 2013
25	HYUNDAI HEAVY IND.	HI-AIR KOREA	HHI02559	SOUND ATTENUATOR	36	Jul. 2012
26	HYUNDAI HEAVY IND.	HI-AIR KOREA	HHI02560	SOUND ATTENUATOR	40	Oct. 2012
27	HYUNDAI HEAVY IND.	HI-AIR KOREA	HHI02563	SOUND ATTENUATOR	47	May. 2013
28	HYUNDAI HEAVY IND.	HI-AIR KOREA	HHI02564	SOUND ATTENUATOR	35	Oct. 2013
29	HYUNDAI HEAVY IND.	HI-AIR KOREA	HHI02622	SOUND ATTENUATOR	37	Oct. 2013
30	HYUNDAI HEAVY IND.	HI-AIR KOREA	HHI02704	SOUND ATTENUATOR	38	Jul. 2014
31	HYUNDAI HEAVY IND.	HI-AIR KOREA	HHI02813	SOUND ATTENUATOR	2	Oct. 2015
32	HYUNDAI HEAVY IND.	HI-AIR KOREA	HHI02814	SOUND ATTENUATOR	2	Nov. 2015
33	HYUNDAI HEAVY IND.	HI-AIR KOREA	HHI0Q522	SOUND ATTENUATOR	65	Jun. 2011
34	HYUNDAI HEAVY IND.	HI-AIR KOREA	HHI0Q524	SOUND ATTENUATOR	211	Oct. 2012
35	HYUNDAI HEAVY IND.	HI-AIR KOREA	HHI0Q525	SOUND ATTENUATOR	22	Sep. 2012
36	HYUNDAI HEAVY IND.	HI-AIR KOREA	HHI0Q538	SOUND ATTENUATOR	14	May. 2014
37	HYUNDAI HEAVY IND.	HI-AIR KOREA	HHI0Q539	SOUND ATTENUATOR	51	Dec. 2014
38	HYUNDAI MIPO IND.	HI-AIR KOREA	HMD02635	SOUND ATTENUATOR	1	Apr. 2014
39	HYUNDAI MIPO IND.	HI-AIR KOREA	HMD08039	SOUND ATTENUATOR	10	Aug. 2010
40	HSB (TRADING & SHIPPING)	HI-AIR KOREA	HSB00672	SOUND ATTENUATOR	160	Feb. 2014
41	HSB (TRADING & SHIPPING)	HI-AIR KOREA	HSB00824	SOUND ATTENUATOR	1	Jan. 2016
42	HSB (TRADING & SHIPPING)	HI-AIR KOREA	HSB00825	SOUND ATTENUATOR	1	Apr. 2016
43	HSB (TRADING & SHIPPING)	HI-AIR KOREA	HSB00826	SOUND ATTENUATOR	1	Feb. 2016
44	HSB (TRADING & SHIPPING)	HI-AIR KOREA	HSB00827	SOUND ATTENUATOR	1	Mar. 2016
45	HSB (TRADING & SHIPPING)	HI-AIR KOREA	HSB09001	SOUND ATTENUATOR	1	Nov. 2018
46	HSB (TRADING & SHIPPING)	HI-AIR KOREA	HSB09002	SOUND ATTENUATOR	1	Sep. 2019
47	HSB (TRADING & SHIPPING)	HI-AIR KOREA	HSB09003	SOUND ATTENUATOR	1	Jan. 2020
48	SDSS SHIPPING	HI-AIR KOREA	SDSS2048	SOUND ATTENUATOR	3	Jan. 2016
49	SDSS SHIPPING	HI-AIR KOREA	SDSS2049	SOUND ATTENUATOR	3	Jul. 2016
50	SDSS SHIPPING	HI-AIR KOREA	SDSS3075	SOUND ATTENUATOR	1	Apr. 2015
51	SDSS SHIPPING	HI-AIR KOREA	SDSS3077	SOUND ATTENUATOR	1	Sep. 2015
52	SDSS SHIPPING	HI-AIR KOREA	SDSS3086	SOUND ATTENUATOR	1	Sep. 2015
53	SDSS SHIPPING	HI-AIR KOREA	SDSS3095	SOUND ATTENUATOR	1	Sep. 2015
54	SDSS SHIPPING	HI-AIR KOREA	SDSS3096	SOUND ATTENUATOR	1	Nov. 2015
55	SDSS SHIPPING	HI-AIR KOREA	SDSS3097	SOUND ATTENUATOR	1	Dec. 2015
56	SDSS SHIPPING	HI-AIR KOREA	SDSS3098	SOUND ATTENUATOR	1	Feb. 2016
57	SDSS SHIPPING	HI-AIR KOREA	SDSS3099	SOUND ATTENUATOR	1	Spr. 2016
58	SDSS SHIPPING	HI-AIR KOREA	SDSS3100	SOUND ATTENUATOR	1	Jne. 2016
59	SAMSUNG HEAVY IND.	HI-AIR KOREA	SHI01755	SOUND ATTENUATOR	4	Jne. 2016
60	SAMSUNG HEAVY IND.	HI-AIR KOREA	SHI01865	SOUND ATTENUATOR	2	Apr. 2010
61	SAMSUNG HEAVY IND.	HI-AIR KOREA	SHI01866	SOUND ATTENUATOR	2	Jun. 2010
62	SAMSUNG HEAVY IND.	HI-AIR KOREA	SHI01898	SOUND ATTENUATOR	4	Sep. 2010
63	SAMSUNG HEAVY IND.	HI-AIR KOREA	SHI01907	SOUND ATTENUATOR	14	Mar. 2011
64	SAMSUNG HEAVY IND.	HI-AIR KOREA	SHI01908	SOUND ATTENUATOR	14	Apr. 2011
65	SAMSUNG HEAVY IND.	HI-AIR KOREA	SHI01911	SOUND ATTENUATOR	23	Nov. 2011
66	SAMSUNG HEAVY IND.	HI-AIR KOREA	SHI01912	SOUND ATTENUATOR	19	Jan. 2012
67	SAMSUNG HEAVY IND.	HI-AIR KOREA	SHI01940	SOUND ATTENUATOR	31	Jul. 2012
68	SAMSUNG HEAVY IND.	HI-AIR KOREA	SHI01950	SOUND ATTENUATOR	11	Apr. 2012
69	SAMSUNG HEAVY IND.	HI-AIR KOREA	SHI01951	SOUND ATTENUATOR	88	Jan. 2012

Experience List For Ship Building

JOB No	END USER	CONTRACTOR	PROJECT Name	ITEM	Q'TY	DELIVERY
70	SAMSUNG HEAVY IND.	HI-AIR KOREA	SHI02012	SOUND ATTENUATOR	30	Nov. 2011
71	SAMSUNG HEAVY IND.	HI-AIR KOREA	SHI02013	SOUND ATTENUATOR	2	Oct. 2012
72	SAMSUNG HEAVY IND.	HI-AIR KOREA	SHI02014	SOUND ATTENUATOR	16	Mar. 2012
73	SAMSUNG HEAVY IND.	HI-AIR KOREA	SHI02015	SOUND ATTENUATOR	15	Jun. 2012
74	SAMSUNG HEAVY IND.	HI-AIR KOREA	SHI02018	SOUND ATTENUATOR	24	Jun. 2012
75	SAMSUNG HEAVY IND.	HI-AIR KOREA	SHI02019	SOUND ATTENUATOR	23	Sep. 2012
76	SAMSUNG HEAVY IND.	HI-AIR KOREA	SHI02028	SOUND ATTENUATOR	24	Dec. 2012
77	SAMSUNG HEAVY IND.	HI-AIR KOREA	SHI02029	SOUND ATTENUATOR	23	May, 2013
78	SAMSUNG HEAVY IND.	HI-AIR KOREA	SHI02032	SOUND ATTENUATOR	2	Oct. 2012
79	SAMSUNG HEAVY IND.	HI-AIR KOREA	SHI02054	SOUND ATTENUATOR	2	Mar. 2014
80	SAMSUNG HEAVY IND.	HI-AIR KOREA	SHI02057	SOUND ATTENUATOR	15	Jan. 2013
81	SAMSUNG HEAVY IND.	HI-AIR KOREA	SHI02059	SOUND ATTENUATOR	25	May, 2013
82	SAMSUNG HEAVY IND.	HI-AIR KOREA	SHI02062	SOUND ATTENUATOR	31	Jul. 2013
83	SAMSUNG HEAVY IND.	HI-AIR KOREA	SHI02067	SOUND ATTENUATOR	25	Nov. 2013
84	SAMSUNG HEAVY IND.	HI-AIR KOREA	SHI02071	SOUND ATTENUATOR	58	Oct. 2013
85	SAMSUNG HEAVY IND.	HI-AIR KOREA	SHI02075	SOUND ATTENUATOR	15	Jan. 2014
86	SAMSUNG HEAVY IND.	HI-AIR KOREA	SHI02096	SOUND ATTENUATOR	24	Mar. 2014
87	SAMSUNG HEAVY IND.	HI-AIR KOREA	SHI02099	SOUND ATTENUATOR	22	Oct. 2014
88	SAMSUNG HEAVY IND.	HI-AIR KOREA	SHI02100	SOUND ATTENUATOR	4	May, 2014
89	SAMSUNG HEAVY IND.	HI-AIR KOREA	SHI02119	SOUND ATTENUATOR	15	Apr. 20174
90	SAMSUNG HEAVY IND.	HI-AIR KOREA	SHI02126	SOUND ATTENUATOR	149	Dec. 2015
91	SAMSUNG HEAVY IND.	HI-AIR KOREA	SHI02235	SOUND ATTENUATOR	128	Nov. 2018
92	SAMSUNG HEAVY IND.	HI-AIR KOREA	SHI02248	SOUND ATTENUATOR	2	Aug. 2018
93	SAMSUNG HEAVY IND.	HI-AIR KOREA	SHI02249	SOUND ATTENUATOR	2	Oct. 2018
94	SAMSUNG HEAVY IND.	HI-AIR KOREA	SHI02250	SOUND ATTENUATOR	2	Dec. 2018
95	SAMSUNG HEAVY IND.	HI-AIR KOREA	SHI02251	SOUND ATTENUATOR	2	Feb. 2019
96	SAMSUNG HEAVY IND.	HI-AIR KOREA	SHI02252	SOUND ATTENUATOR	2	Dec. 2018
97	SAMSUNG HEAVY IND.	HI-AIR KOREA	SHI02253	SOUND ATTENUATOR	2	Jan. 2019
98	SAMSUNG HEAVY IND.	HI-AIR KOREA	SHI02302	SOUND ATTENUATOR	3	Dec. 2019
99	SAMSUNG HEAVY IND.	HI-AIR KOREA	SHI02304	SOUND ATTENUATOR	4	Sep. 2019
100	SAMSUNG HEAVY IND.	HI-AIR KOREA	SHI02305	SOUND ATTENUATOR	4	Mar. 2020
101	SAMSUNG HEAVY IND.	HI-AIR KOREA	SHI02306	SOUND ATTENUATOR	3	Jul. 2020
102	SAMSUNG HEAVY IND.	HI-AIR KOREA	SHI02307	SOUND ATTENUATOR	1	Aug. 22
103	SAMSUNG HEAVY IND.	HI-AIR KOREA	SHI02311	SOUND ATTENUATOR	4	Feb. 2020
104	SAMSUNG HEAVY IND.	HI-AIR KOREA	SHI02312	SOUND ATTENUATOR	4	Jun. 2020
105	SAMSUNG HEAVY IND.	HI-AIR KOREA	SHI07084	SOUND ATTENUATOR	29	Jan. 2011
106	SAMSUNG HEAVY IND.	HI-AIR KOREA	SHI07085	SOUND ATTENUATOR	1	Nov. 2010
107	SAMSUNG HEAVY IND.	HI-AIR KOREA	SHI07086	SOUND ATTENUATOR	30	May, 2011
108	SAMSUNG HEAVY IND.	HI-AIR KOREA	SHI07088	SOUND ATTENUATOR	30	Jun. 2011
109	SAMSUNG HEAVY IND.	HI-AIR KOREA	SHI07090	SOUND ATTENUATOR	14	Nov. 2011
110	SAMSUNG HEAVY IND.	HI-AIR KOREA	SHI07091	SOUND ATTENUATOR	26	May, 2012
111	SAMSUNG HEAVY IND.	HI-AIR KOREA	SHI07093	SOUND ATTENUATOR	14	Apr. 2012
112	SAMSUNG HEAVY IND.	HI-AIR KOREA	SHI07095	SOUND ATTENUATOR	2	Apr. 2012
113	SAMSUNG HEAVY IND.	HI-AIR KOREA	SHI07097	SOUND ATTENUATOR	27	Jun. 2012
114	SAMSUNG HEAVY IND.	HI-AIR KOREA	SHI07098	SOUND ATTENUATOR	14	Jun. 2012
115	SAMSUNG HEAVY IND.	HI-AIR KOREA	SHI07099	SOUND ATTENUATOR	41	Jul. 2012
116	SAMSUNG HEAVY IND.	HI-AIR KOREA	SHI07100	SOUND ATTENUATOR	4	Aug. 2013
117	SAMSUNG HEAVY IND.	HI-AIR KOREA	SHI07101	SOUND ATTENUATOR	45	Oct. 2012
118	SAMSUNG HEAVY IND.	HI-AIR KOREA	SHI07105	SOUND ATTENUATOR	41	Mar. 2013
119	SAMSUNG HEAVY IND.	HI-AIR KOREA	SHI07107	SOUND ATTENUATOR	43	May, 2013
120	SAMSUNG HEAVY IND.	HI-AIR KOREA	SHI07108	SOUND ATTENUATOR	177	Aug. 2014
121	SAMSUNG HEAVY IND.	HI-AIR KOREA	SHI07109	SOUND ATTENUATOR	14	Mar. 2013
122	SAMSUNG HEAVY IND.	HI-AIR KOREA	SHI07110	SOUND ATTENUATOR	14	May, 2013
123	SAMSUNG HEAVY IND.	HI-AIR KOREA	SHI07111	SOUND ATTENUATOR	14	Mar. 2013
124	SAMSUNG HEAVY IND.	HI-AIR KOREA	SHI07112	SOUND ATTENUATOR	28	Mar. 2013
125	SAMSUNG HEAVY IND.	HI-AIR KOREA	SHI07114	SOUND ATTENUATOR	14	Sep. 2013
126	SAMSUNG HEAVY IND.	HI-AIR KOREA	SHI07116	SOUND ATTENUATOR	27	Feb. 2014

Experience List For Ship Building

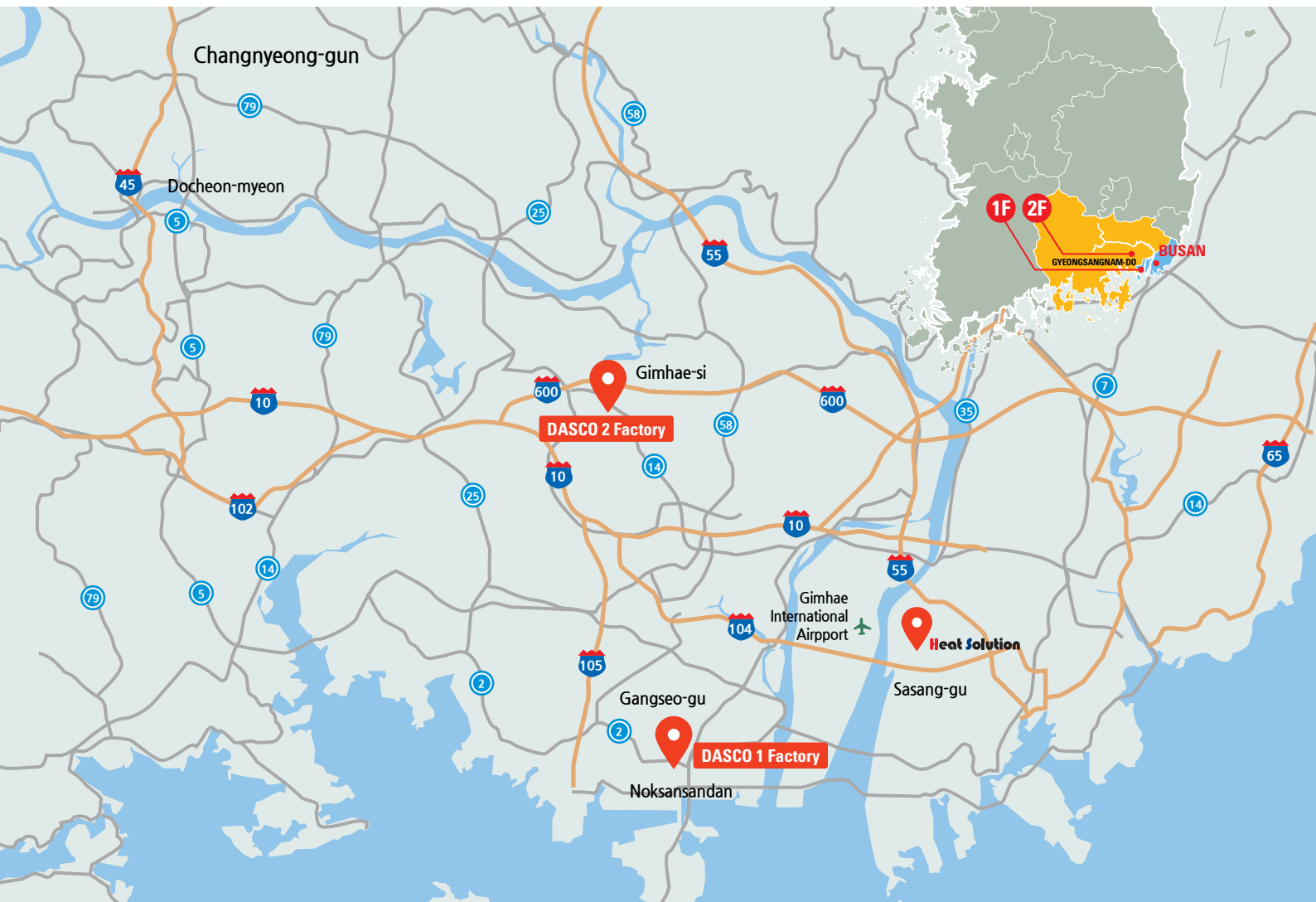
JOB No	END USER	CONTRACTOR	PROJECT Name	ITEM	Q'TY	DELIVERY
127	SAMSUNG HEAVY IND.	HI-AIR KOREA	SHI07117	SOUND ATTENUATOR	329	May, 2015
128	SAMSUNG HEAVY IND.	HI-AIR KOREA	SHI07118	SOUND ATTENUATOR	288	Jul. 2015
129	SAMSUNG HEAVY IND.	HI-AIR KOREA	SHI07119	SOUND ATTENUATOR	14	Jul. 2014
130	SAMSUNG HEAVY IND.	HI-AIR KOREA	SHI07120	SOUND ATTENUATOR	17	Aug. 2014
131	STX HEAVY IND.	HI-AIR KOREA	STX1005	SOUND ATTENUATOR	5	Feb. 2013
132	STX HEAVY IND.	HI-AIR KOREA	STXF1003	SOUND ATTENUATOR	2	Oct. 2010
133	STX HEAVY IND.	HI-AIR KOREA	STX1006	SOUND ATTENUATOR	15	Jun. 2014
134	SAMSUNG HEAVY IND.	HI-AIR KOREA	TC030338	SOUND ATTENUATOR	24	Dec. 2018

1	STX-CUMMINS	STX Engine.	E16C153, 187	ENGINE COOLER PACKAGE / QSK23M	4 SET	Apr. 2017
2	STX-CUMMINS	STX Engine.	E16C153, 187	ENGINE COOLER PACKAGE / QSK23M	3 SET	Dec. 2017
3	STX-CUMMINS	STX Engine.	E16C153, 187	ENGINE COOLER PACKAGE / QSK23M	2 SET	Feb. 2018
4	STX-CUMMINS	STX Engine.	E16C153, 187	ENGINE COOLER PACKAGE / QSK23M	4 SET	Jun. 2018
5	STX-CUMMINS	STX Engine.	E16C153, 187	ENGINE COOLER PACKAGE / QSK23M	3 SET	May. 2019
6	STX-CUMMINS	STX Engine.	E16C153, 187	ENGINE COOLER PACKAGE / QSK23M	2 SET	Sep. 2019

1	-	KUMOH Co.,Ltd.	SN-2065	VIBRATION COMPENSATOR (KT-13H)	1	Feb. 2014
2	-	KUMOH Co.,Ltd.	SN-2066	VIBRATION COMPENSATOR (KT-13H)	1	May. 2014
3	-	KUMOH Co.,Ltd.	H-1059	VIBRATION COMPENSATOR (KT-65H)	1	Mar. 2015
4	-	KUMOH Co.,Ltd.	H-1059	VIBRATION COMPENSATOR (KT-40H)	1	Sep. 2015
5	-	KUMOH Co.,Ltd.	H-1060	VIBRATION COMPENSATOR (KT-65H)	1	Mar. 2016
6	-	KUMOH Co.,Ltd.	SN2153	VIBRATION COMPENSATOR (KT-90H)	1	Mar. 2016
7	-	KUMOH Co.,Ltd.	SN2153	VIBRATION COMPENSATOR (KT-90H)	1	Mar. 2016
8	-	KUMOH Co.,Ltd.	SN2080	VIBRATION COMPENSATOR (KT-40H)	1	Mar. 2016
9	-	KUMOH Co.,Ltd.	SN2080	VIBRATION COMPENSATOR (KT-40H)	1	Mar. 2016
10	-	KUMOH Co.,Ltd.	SN2081	VIBRATION COMPENSATOR (KT-40H)	1	Apr. 2016
11	-	KUMOH Co.,Ltd.	SN2081	VIBRATION COMPENSATOR (KT-40H)	1	Apr. 2016
12	-	KUMOH Co.,Ltd.	H-1061	VIBRATION COMPENSATOR (KT-65H)	1	Apr. 2016
13	-	KUMOH Co.,Ltd.	SN2154	VIBRATION COMPENSATOR (KT-90H)	1	May. 2016
14	-	KUMOH Co.,Ltd.	SN2154	VIBRATION COMPENSATOR (KT-90H)	1	May. 2016
15	-	KUMOH Co.,Ltd.	SN2065	VIBRATION COMPENSATOR (KT-13H)	1	Jul. 2016
16	-	KUMOH Co.,Ltd.	SN2066	VIBRATION COMPENSATOR (KT-13H)	1	Jul. 2016
17	-	KUMOH Co.,Ltd.	H-6601	VIBRATION COMPENSATOR (KT-90H)	1	Dec. 2017
18	-	KUMOH Co.,Ltd.	H-6602	VIBRATION COMPENSATOR (KT-90H)	1	Jan. 2018
19	-	KUMOH Co.,Ltd.	SN-2170	VIBRATION COMPENSATOR (KT-40H)	1	Sep. 2018
20	-	KUMOH Co.,Ltd.	SHI-2170	VIBRATION COMPENSATOR (KT-40H)	1	Jan. 2020
21	-	KUMOH Co.,Ltd.	NS-6601	VIBRATION COMPENSATOR (KT-90H)	1	Mar. 2020
22	-	KUMOH Co.,Ltd.	NS0005	VIBRATION COMPENSATOR (KT-90H)	1	May. 2020

1		KUMOH Co.,Ltd.	8034	VIBRATION COMPENSATOR (EMC-400V)	1	Mar. 2020
2		KUMOH Co.,Ltd.	8035	VIBRATION COMPENSATOR (EMC-400V)	1	May. 2020
3		KUMOH Co.,Ltd.	8027	VIBRATION COMPENSATOR (EMC-350V)	1	Aug. 2018
4		KUMOH Co.,Ltd.	8028	VIBRATION COMPENSATOR (EMC-350V)	1	Feb. 2019
5		KUMOH Co.,Ltd.	8029	VIBRATION COMPENSATOR (EMC-400V)	1	Jul. 2019
6		KUMOH Co.,Ltd.	7885	VIBRATION COMPENSATOR (EMC-400V)	1	Dec. 2017
7		KUMOH Co.,Ltd.	7886	VIBRATION COMPENSATOR (EMC-300V)	1	Jun. 2018
8		KUMOH Co.,Ltd.	7991	VIBRATION COMPENSATOR (EMC-300V)	1	Jan. 2017
9		KUMOH Co.,Ltd.	7992	VIBRATION COMPENSATOR (EMC-400V)	1	May. 2017

1	HYUNDAI ENGINEERING	SEAH ENGINEERING.	HEC_EGAT	OUTLET HEADER	2 SET	DEC. 2020
2	HYUNDAI ENGINEERING	SEAH ENGINEERING.	HEC_EGAT	PACKAGE PIPE LINE	9 SET	DEC. 2020
3	HYUNDAI ENGINEERING	SEAH ENGINEERING.	HEC_EGAT	OIL RESERVOIR	1 SET	DEC. 2020
4	HYUNDAI ENGINEERING	SEAH ENGINEERING.	HEC_EGAT	AIR LINE	7 SET	DEC. 2020
5	HYUNDAI ENGINEERING	SEAH ENGINEERING.	HEC_EGAT	OIL LINE	11 SET	DEC. 2020
6	HYUNDAI ENGINEERING	SEAH ENGINEERING.	HEC_EGAT	WATER LINE	7 SET	DEC. 2020



DYNAMIC & SPECIAL COMPANY

DASCO

DYNAMIC & SPECIAL COMPANY

DASCO

Head office | 33, Noksansandan 17-ro 78beon-gil, Gangseo-gu, Busan, Korea
and factory | T. 82.51.973.4895 E-mail: dasco@dascohex.com <http://www.dascohex.com>

Factory 2 | 19-52, Inje-ro 694 beon-gil, Saengrim-myeon, Gimhae-si, Gyeongsangnam-do, Korea

Heat Solution

for Your Good Partner

Hi Air Korea BLDG 1F, 10, Sasang-ro 181 beon-gil, Sasang-gu, Busan, Korea
T. 82.51.715.9981 E-mail: hs@heatsolution.co.kr