

PRE-QUALIFICATION

Global Top Plant

Now **I-Plant** is preparing the new 21 century
with 20 years know-how in Chemical Plant



SK GAS PDH PROJECCT (2014) / SK GAS
FAB. & ERECTION OF REACTOR CHARGE HEATER



KPIC ONE PROJECT (2016) / KPIC
FAB. & ERECTION OF 2 ETHYLENE CRACKING HEATER



DY REFORMER PROJECT (2013) / DEOKYANG
ERECTION OF STEAM REFORMER

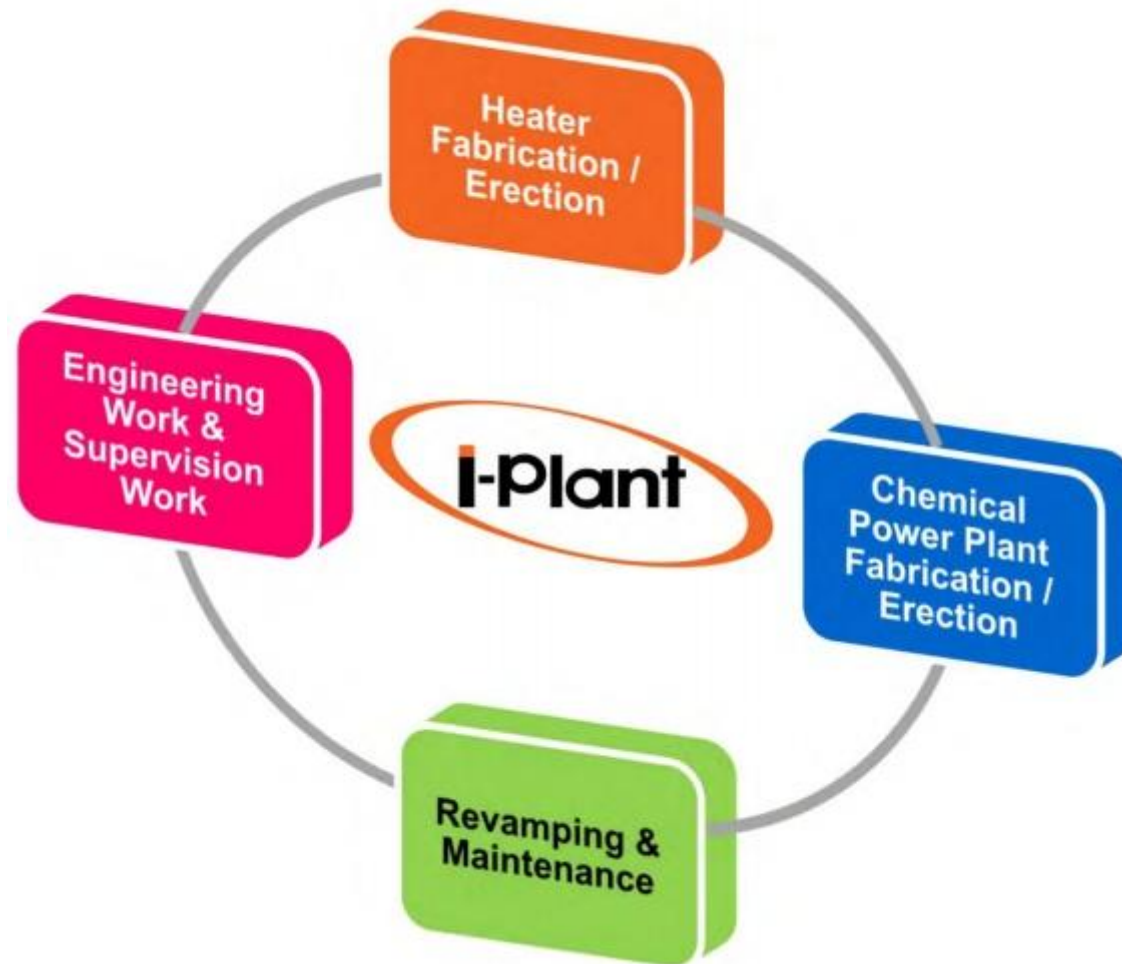
1. COMPANY PROFILE
2. COMPANY BACKGROUND
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13. OSHA 18001 & KOSHA 18001
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15. 1st FACTORY (COIL WELDING)
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17. 2nd FACTORY (STEEL FABRICATION)
18. EQUIPMENT LIST
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20. MAIN PERFORMANCE RECORDS
21. BUSINESS & PERFORMANCE PHOTO
22. MAIN BUSINESS COMPANY
23. SCHEDULE CONTROL (SAMPLE)
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25. TRANSPORTATION
26. COMPANY MAP

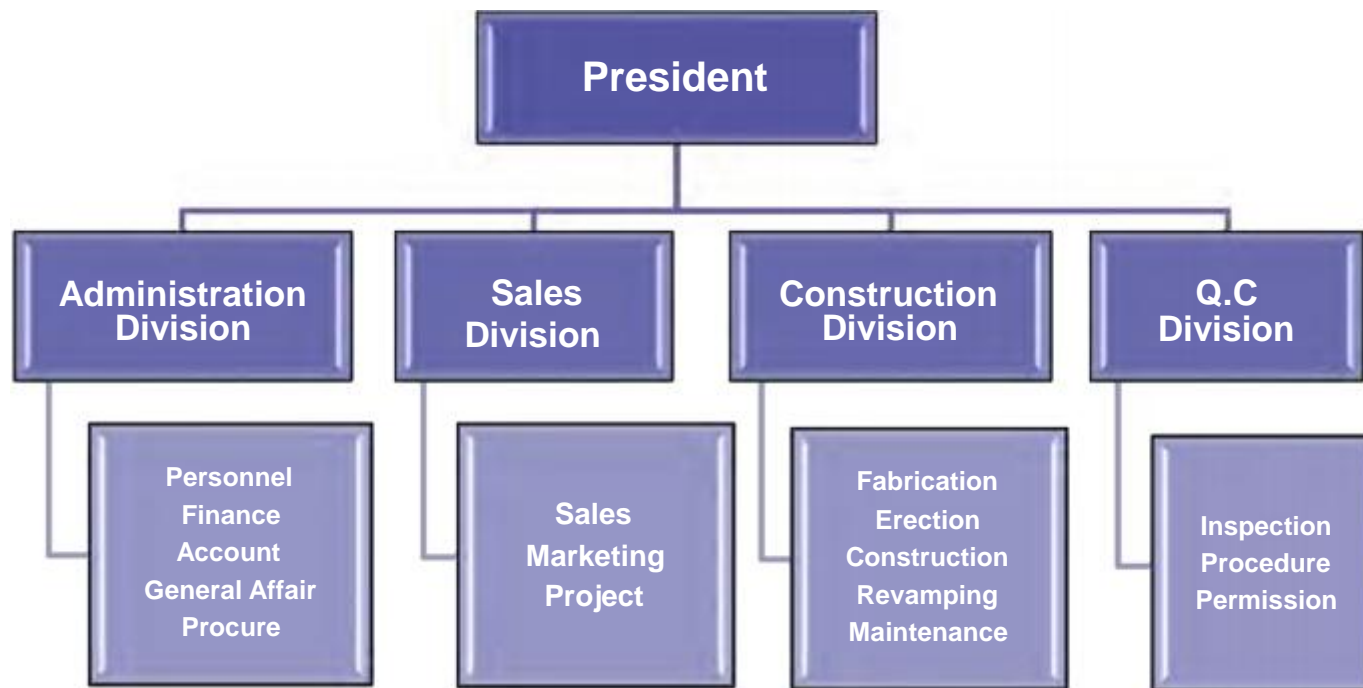
<p>Company Name</p>	<p>I-PLANT, LIMITED</p>		
<p>President</p>	<p>Hwang, Yong Han</p>		
<p>Capital Status</p>	<p>₩ 1,000,000,000 (\$910,000)</p>		
<p>Business Lines</p>	<p>Heater Fabrication & Erection, Revamping & Maintenance, Refractory Lining</p>		
<p>Man Power</p>	<p>Engineers : 50 Persons Labors : 200 ~ 250 Persons</p>		
<p>Location</p>	<p>156, Cheoyongsaneop, 3-gil, Cheongnyang-myeon, Ulju-gun, Ulsan, Korea</p>		
<p>Tel.</p>	<p>82-52-283-4400</p>	<p>Fax</p>	<p>82-52-283-4402</p>
<p>E-Mail</p>	<p>admin@i-plantco.com</p>	<p>Homepage</p>	<p>www.i-plantco.com</p>

I-Plant has outstanding manpower and accumulated know-how more than 20 years in Heater Fabrication, Erection & Maintenance area of Chemical Plant Facility.

We shall take our best effort in Quality, Delivery and Services.

Furthermore I-Plant shall take step further as a reputable globalized specialist company not only in Korea but also in overseas countries.





MANAGEMENT & ENGINEERING MANPOWER

WOKER MANPOWER

Title	Total	President	Admin.	Sales	Const.	Q.C
Executives	5	1	1	1	2	
General Manager	6		1	1	3	1
Deputy Manager	16		2	2	8	4
Engineer	23		2	1	15	5
Engineer Total	50	1	6	5	28	10

Title	Total	Welder	Remark
Steel Worker	40	15	
Coil Worker	40	30	
Refractory Worker	20		
Erection Worker	100		
Total	200		

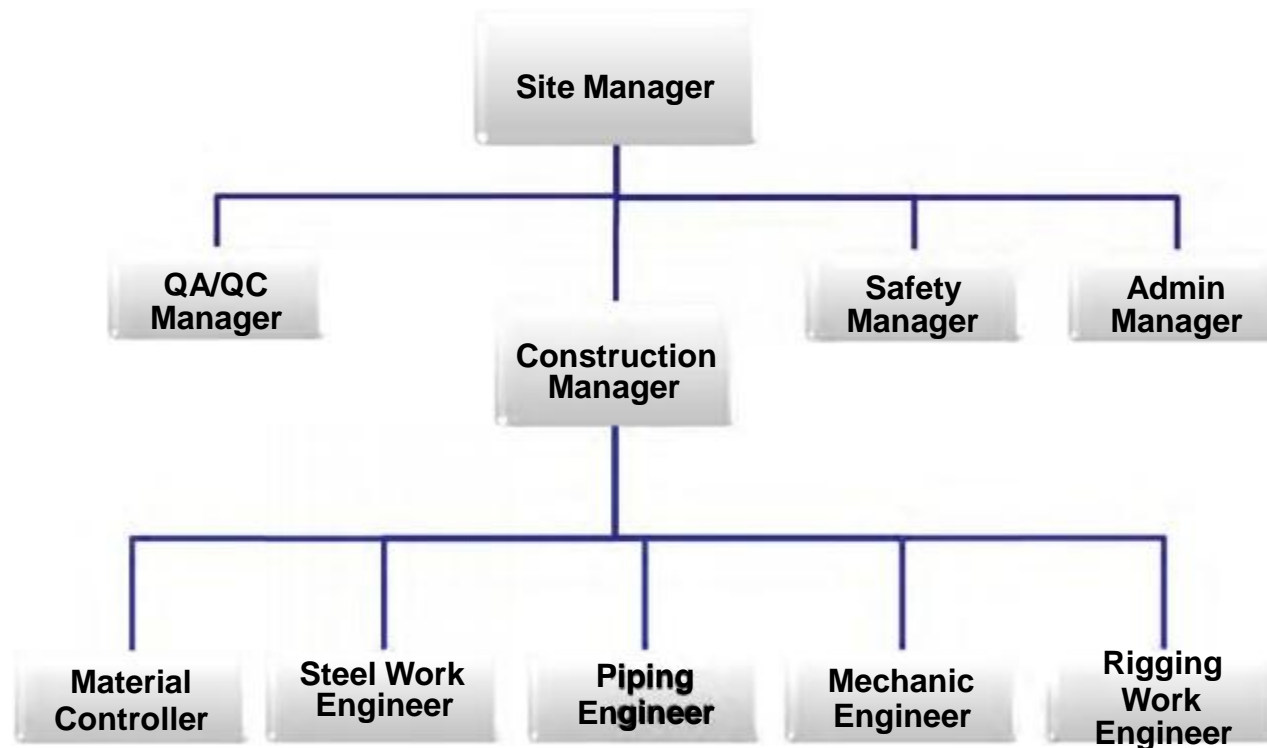
1. LOCATION

Jeddah Seaveen St. Al-Safa Plaza Center Opposit Aziz Mall Fifth Floor Tower a,
office No.(530)

2. CONTACT POINT

Person in Charge : D. C. CHO
Tel : 966-58-052-1000

3. ORGANIZATION



BUSINESS REGISTRATION CERTIFICATE



[1 / 1]

발급번호 Issuance number	사업자등록증명 Certificate of Business Registration (법인사업자) (Corporate Taxpayer)		처리기간 Processing period
8621-121-0223-717			즉시 Immediately
상호(법인명) Name of company	주식회사 아이플랜트 I-PLANT, LIMITED		
사업자등록번호 Business registration number	620-81-38876		
성명(대표자) Name of representative	황용한 HWANG, YONG HAN		
주민(법인)등록번호 Resident(Corporation) registration number	230111-0175321		
사업장소재지 Address	울산광역시 울주군 청량면 처용산업3길 156 156, Cheoyongsaneop 3-gil, Cheongnyang-myeon, Ulsju-gun, Ulsan		
개업일 Date of business commencement	2011년(Year) 04월(Month) 01일(Day)		
사업자등록일 Date of business registration	2011년(Year) 04월(Month) 06일(Day)		
업태 Business type	건설업/제조업 Construction/Manufacturing		
종목 Business item	가열로, 플랜트설치업, 내화물공사업 가열로, 플랜트 Construction of Industrial Plants Manufacture of Metal Doors, Windows, Shutters and Related Products		
공동사업자 Joint business owner	성명(법인명)/ Name(Name of company)	주민(사업자)등록번호 Resident(Business) registration no.	
	해당사항 없습니다 (No Data)		
접수번호 Receipt No.	500289871306	위와 같이 증명합니다. We hereby certify the above.	
담당부서 Department	민원봉사실 Taxpayer Service Center	2016년 7월 1일 Year Month Day	
담당자 Staff in Charge	김혜영	울산세무서장 (인) Head of Ulsan District Tax Office	
연락처 Telephone No.	052-259-0424	(Stamp)	



* 본 증명은 국세청 홈택스(www.its.go.kr)에서 「인원증명 원본확인」 메뉴를 통해 문서발급번호로 위·변조 여부를 확인하거나, 문서 하단의 바코드로 확인해 주십시오. 다만 문서발급번호를 통한 확인은 발급일로부터 90일까지 가능합니다.
* 본 증명은 홈택스(www.its.go.kr)대인 온라인 서비스를 통해 발급된 증명서입니다.



وزارة التجارة والصناعة
Ministry of Commerce and Industry

شهادة تسجيل شركة

الرقم: ٤٠٣٠٢٨٨٢١٩

التاريخ: ١٤٣٧\٠٥\٢٩

٧٠٠٣٤٣٣٠٢

الاسم التجاري للشركة: شركة مصنع الصناعات الهندسية والمقاولات المحدودة

نوعها: ذات مسئولية محدودة

جنسيتها: سعودي

مدة الشركة: ٥ سنوات

تبدأ من: ١٤٣٧\٠٥\٢٩ وتنتهي في: ١٤٤٢\٠٥\٢٩

مركزها الرئيسي: جدة - حي الصفا - شارع الامير ماجد - مركز الصفا بلازا

ص.ب: ٤٧٩ الرمز البريدي: ٦٧٨١٨٩٤ هاتف: ٢١٤١١ فاكس: ٦٧٨١٨٩٤

النشاط: مقاولات عامة للمباني السكنية والتجارية والتعليمية والترفيهية والصناعية وصيانتها ونظافتها ومقاولات الاعمال الهندسية والميكانيكية والكهربائية واعمال الحدادة

رأس المال: ٥٠٠٠٠٠,٠٠ ريال سعودي

المديرون:

١-	الأميرة العنود بنت محمد بن منصور ال سعود
٢-	
٣-	
٤-	
٥-	
٦-	
٧-	
٨-	
٩-	
١٠-	
١١-	

سلطات المدير / المديرون: احسب ما نص عليه عقد الشركة ~

يشهد مكتب السجل التجاري بمدينة جدة بأنه تم تسجيل فرع الشركة المذكورة أعلاه بمدينة جدة وتنتهي صلاحية الشهادة في ١٤٣٩\٠٥\٢٩ بموجب الإيصال رقم: ٣٧٩٣٩٤٢ تاريخ: ١٤٣٧\٠٥\٢٨

مدير السجل التجاري للشركات: حسن بن سعيد الغامدي

التوقيع: ١٤٣٧ ٥/٢٩





건설업등록증

업종 : 기계설비공사업 등록번호 : 울산복구 2011-10-02
 상호 : (주)아이플랜트 대표자 : 황용한
 영업소재지 : 울산광역시 북구 명촌동 899-5 법인(주)등록번호 : 230111-0175321
 국적 또는 소속국가명 : 대한민국 등록일자 : 2011-08-23

건설산업기본법 제9조의 규정에 의한 건설업자임을 증명합니다.
 2011년 8월 23일

울산광역시 북구청장 인



변경사항			
변경년월일	변경구분	변경내용	기록년월일·기록재(인)
2012. 12. 10.	소재지	울산광역시 북구 명촌동 899-5 대입로 10-4	2012. 12. 12. 영취
2015. 8. 23	소재지	울산 동구권 혁명로 서동신당3길 15-6	2015. 12. 23. 영취

제 542 호
No.542

해외건설업신고필증 (Certification of International Contractor)

상호 : (주)아이플랜트
 (Name of Company) (I Plant)
 대표자 : 황용한
 (Name of Company Representative) (Hwang Yong Hwan)
 신고업종 : 기계설비공사업
 (Type of Business) (Machinery & Equipment)
 영업소소재지 : 울산광역시 북구 명촌동 899-5
 (Address of Company) (899-5, Myeongchon-dong, Buk-gu, Ulsan, Korea)

해외건설촉진법 제6조 제1항의 규정에 의하여 해외건설업의 신고를 하였음을 증명합니다.

(This is to certify that the above mentioned company is an enrolled international contractor in compliance with Clause 1 under Article 6 of Overseas Construction Promotion Act)

2011년 09월 21일

해외건설협회
 (Chairman of International Contractors Association of Korea)



FACTORY REGISTRATION CERTIFICATE



■ 산업집적활성화 및 공장설립에 관한 법률 시행규칙 [별지 제6호의2서식] <개정 2012.10.5> 공장설립관리지원시스템(www.famis.go.kr)에서도 신청할 수 있습니다.

공장등록증명(신청서)

※ 바탕색이 어두운 난은 신청인이 적지 않으며, []에는 해당되는 곳에 표를 합니다. (양쪽)

접수번호	접수일	처리기간	특시
신청인			
회사명 (주)아이플랜트	전화번호 052) 283-4400		
대표자 성명 황용환	생년월일(법인등록번호) 230111-0175321		
대표지주소(법인소재지) 울산광역시 울주군 청량면 처용산업3길 156			
등록 내용			
공장소재지 도로명 : 울산광역시 울주군 청량면 처용산업3길 156 지번 : 울산광역시 울주군 청량면 용암리 930번지	지목 공장용지	보유구분 자가 [✓] 임대 []	
공장등록일 2016-01-12	사업시작일	종업원수 남:42 여:3	
공장의 업종(분류번호) 설치용 금속탱크 및 저장용기 제조업 (25122)			
공장부지면적 12,375.000 m ²	제조시설면적 3,801.970 m ²	부대시설면적 1,111.650 m ²	
등록 조건			
등록변경·중설등 기재사항 변경내용(변경 날짜 및 내용)			
「산업집적활성화 및 공장설립에 관한 법률 시행규칙」 제12조의3에 따라 위와 같이 공장등록증명서를 신청합니다. 2016년 01월 14일 신청인 오창준 (서명 또는 인) 울산자유무역지역관리원장 귀하			
구비서류	없음	수수료	원
처리절차			
신청서작성	→ 접수	→ 등록 여부 확인	→ 결제
신청인	→ 접수	→ 등록 여부 확인	→ 결제
신청인	처리기간	처리기간	처리기간
「산업집적활성화 및 공장설립에 관한 법률」 제16조([] 제1항· [] 제2항· [] 제3항)에 따라 위와 같이 등록된 공장임을 증명합니다. 2016년 01월 14일 울산자유무역지역관리원장			

[별지 제6호의2서식] <개정 2011.10.19> 공장설립관리지원시스템(www.famis.go.kr)에서도 신청할 수 있습니다.

공장등록증명(신청서)

※ []에는 해당되는 곳에 표를 합니다. (양쪽)

접수번호	접수일자	처리기간	특시
신청인			
회사명 주식회사 아이플랜트	전화번호 052) 283-4400		
대표자 성명 황용환	생년월일(법인등록번호) 230111-0175321		
대표지주소(법인소재지) 울산광역시 울주군 온산읍 디정로 10-4			
등록 내용			
공장소재지 울산광역시 울주군 온산읍 디정로 10-4	지목 공장용지	보유구분 자가 [], 임대 [✓]	
공장등록일 2012-10-11	사업시작일	종업원수 남:85 여:6	
공장의 업종(분류번호) 설치용 금속탱크 및 저장용기 제조업 (25122)			
공장부지면적 4,958.60 m ²	제조시설면적 1,101.95 m ²	부대시설면적 411.56 m ²	
등록 조건			
등록변경·중설등 기재사항 변경내용(변경 날짜 및 내용)			
「산업집적활성화 및 공장설립에 관한 법률 시행규칙」 제12조의3에 따라 위와 같이 공장등록증명서를 신청합니다. 2012년 12월 12일 신청인 황용환 (서명 또는 인) 한국산업단지공단 이사장 귀하			
구비서류	없음	수수료	0 원
처리절차			
신청서작성	→ 접수	→ 등록 여부 확인	→ 결제
신청인	→ 접수	→ 등록 여부 확인	→ 결제
신청인	처리기간	처리기간	처리기간
「산업집적활성화 및 공장설립에 관한 법률」 제16조([] 제1항· [] 제2항· [] 제3항)에 따라 위와 같이 등록된 공장임을 증명합니다. 2012년 12월 12일 한국산업단지공단 이사장			

● 고압가스 안전관리법 시행규칙 [별지 제7호의2사식] <개정 2012.10.5> (앞 쪽)

제 2011-3730102-16-5-00005 호
(Certificate No.)

용기(냉동기 및 특정설비)제조 등록증명서
Certificate of Manufacture Registration of Cylinder(Refrigerator & Specific Equipment)

사업의 종류(Business Type)	특정설비 제조		
상호(Company Name)	(주)아이플랜트		
사업소 소재지 (Office Address)	울산광역시 울주군 온산읍 대정로 10-4		
대표자 성명 (Name of Representative)	황용한	생년월일 (The date of birth)	1960.01.10
용기·냉동기·특정설비 (Cylinder, Refrigerator, Specified Equipment)	종류(Type)	규격(Standard)	
	압력용기 저장탱크	열교환기, 드럼, 반응기, 탱류, 기타 원통형	

「고압가스 안전관리법」 제5조제1항, 제5조의2제1항·제2항 및 같은 법 시행규칙 제6조제1항제3호에 따라 용기(냉동기·특정설비)의 제조등록 또는 재등록을 마쳤으므로 용기(냉동기·특정설비)제조 등록증명서를 발급합니다.

[This certificate is granted for completing the manufacture registration under Article 5(1), Article 5-2(1) or (2) of the High-Pressure Gas Safety Control Act and Article 6(1)3 of the Enforcement Rule there of]

유효기간:
(Valid Period):

2012년 12월 17일
(Year) (Month) (Date)

울산광역시 울주군수

직인
(Signature)

The American Society of Mechanical Engineers



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:

I-PLANT, LIMITED
156, Cheoyongsaneop 3-gil, Cheongyang-myeon,
Ulju-gun, Ulsan 44988
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: October 13, 2016
EXPIRES: November 8, 2019
CERTIFICATE NUMBER: 45,999

Richard R. Stevenson
Board Chair, Conformity Assessment

Joseph J. ...
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:

I-PLANT, LIMITED
156, Cheoyongsaneop 3-gil, Cheongyang-myeon,
Ulju-gun, Ulsan 44988
Republic of Korea

SCOPE:

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

AUTHORIZED: October 13, 2016
EXPIRES: November 8, 2019
CERTIFICATE NUMBER: 45,998

Richard R. Stevenson
Board Chair, Conformity Assessment

Joseph J. ...
Director, Conformity Assessment



API 936 CERTIFICATION FOR REFRACTORY INSPECTION



energy API AMERICAN PETROLEUM INSTITUTE
Individual Certification Programs: ICP™

API Individual Certification Programs
verifies that

goel jang

has met the requirements for API certification

API-936 Refractory Personnel

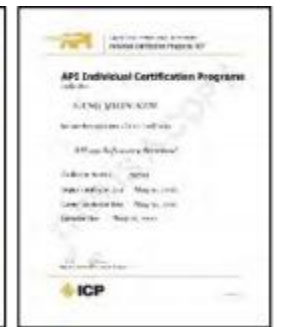
Certification Number **75136**

Original Certification Date *August 31, 2017*

Current Certification Date *August 31, 2017*

Expiration Date *August 31, 2020*

[Signature]
Manager, Individual Certification Programs





Certificate of Proficiency

BS EN ISO 17637:2011 Non-destructive testing of welds, visual testing of fusion-welded joints.

CSWIP CERT NO 99357

This is to certify that:

Jang Goel

Date of birth 14 January 1974

has demonstrated proficiency in fusion welding inspection as a Welding Inspector in accordance with CSWIP requirements published in Document CSWIP-WI-6-92, 12th Edition May 2012 and amendments in force on the examination date.

Date of issue 6 July 2015

Date of expiry 6 June 2020

Signed

(For CSWIP)

SIGNATURE OF HOLDER
(Person named above)

Date

July. 31. 2015

NEW EMPLOYERS SHOULD ALWAYS ASK TO SEE THE CERTIFICATE HOLDER'S TWI CERTIFICATION LTD IDENTITY CARD, AND VERIFY CERTIFICATE VALIDITY AT WWW.CSWIP.COM

PLEASE READ THE NOTES OVERLEAF

Photocopies are unauthorised by
TWI Certification Ltd

Issued by:
TWI Certification Ltd, Granta Park, Great Abington, Cambridge CB21 6AL, UK

The use of the UKAS Accreditation Mark indicates accreditation in respect of those activities covered by Accreditation Certificate No. 025
This certificate is the property of TWI Certification Ltd and must be surrendered on request





CERTIFICATE OF REGISTRATION

Certificate No : OHS - 0059

Company Name : I-PLANT CO., LTD.

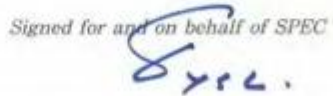
Main office : 156, Cheoyongsaneop 3-gil, Cheongnyang-myeon, Ulju-gun, Ulsan, Korea
Site : 68, Onsan-ro, Onsan-eup, Ulju-gun, Ulsan, Korea

Scope of registration : Manufacturing, installation and maintenance of industrial plant mechanical equipment(heater, furnace, reformer, boiler)

Standard : K-OHSMS 18001:2007 / OHSAS 18001:2007

SPEC hereby certifies that the Occupational and Safety 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 : 2017-05-16 **Certificate Expiry** : 2020-05-15
(Registration on 2017-05-16)
Issue date : 2017-05-16

Signed for and on behalf of SPEC


By authority of the Chief Executive



The Accreditation Mark indicates accreditation by KAB in respect of these activities covered by the accreditation certified number KAB-OC-14



Certificate No. 2289

CERTIFICATE for KOSHA 18001

Occupational Safety and Health Management System

Company : I-PLANT S-OIL Head Office

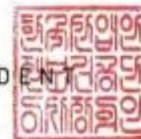
Date of Issue : MAY. 16. 2017

Valid Period : MAY. 16. 2017 ~ MAY. 15. 2020

This is to certify that the occupational safety and health management system of the above company has been assessed and complied with the requirements of the KOSHA 18001

KOSHA
KOREA OCCUPATIONAL
SAFETY & HEALTH AGENCY
400, Jongga-ro, Jung-gu
Ulsan, 44429, Republic of Korea

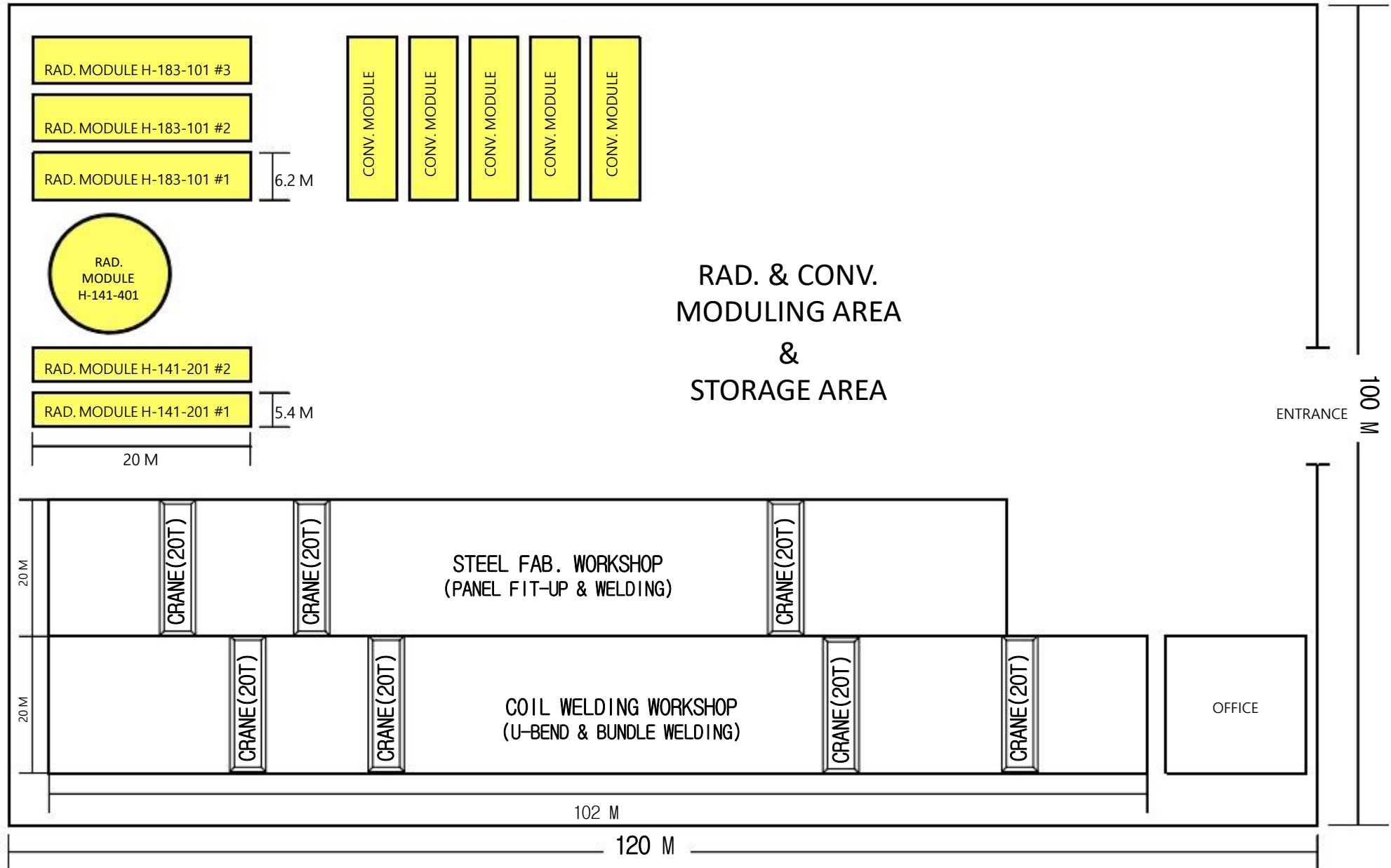
PRESIDENT



1ST FACTORY LAYOUT



AREA : 12,000M² (120M x 100M)
FACTORY AREA : 3,600 M² (102M x 20M, 78M x 20M)
CRANE : OVERHEAD CRANE (20TON) - 7 SETS



1ST FACTORY (COIL WELDING & MODULING)



FACTORY PANORAMIC VIEW



MATERIAL STORAGE AREA



U-BEND WELDING



COIL WELDING



HEADER WELDING



CONV. COIL WELDING



ARBOR COIL WELDING



ARBOR COIL WELDING



PRE-HEATING



HELICAL COIL WELDING



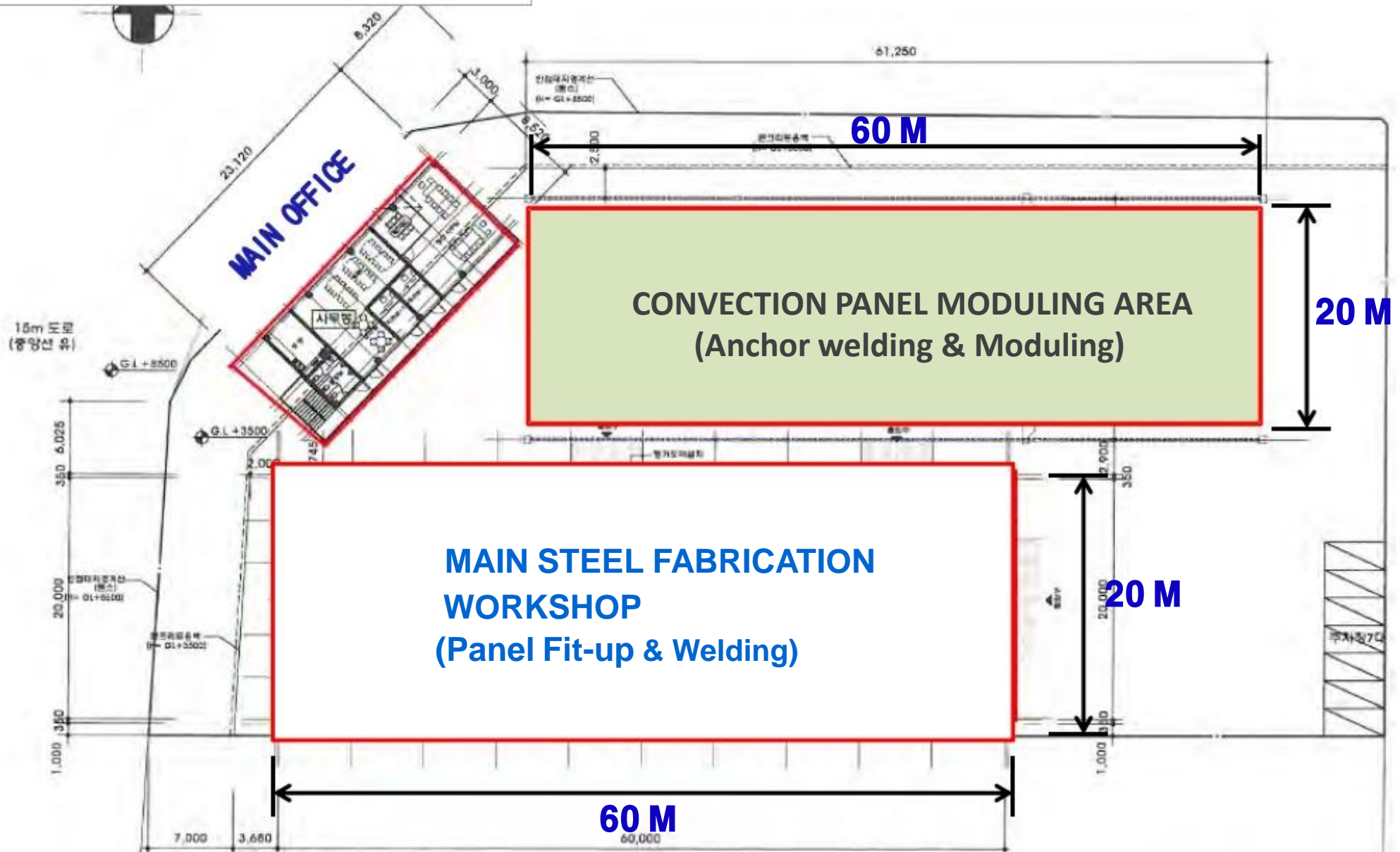
RADIANT COIL MODULING



OUTLET HEADER WELDING

2ND FACTORY LAYOUT (STEEL FABRICATION)

AREA : 5,000M² (100M x 50M)
FACTORY AREA : 1,200 M² (60M x 20M)
CRANE : OVERHEAD CRANE (10TON-2 SETS)
 GANTRY CRANE (20TON-2SETS)





BRANCH OFFICE



BRANCH OFFICE



2ND FACTORY



GANTRY CRANE YARD



GANTRY CRANE YARD



FACTORY VIEW

EQUIPMENT LIST



	EQUIPMENT	SIZE	Q'TY	REMARK
WELDING MACHINE	TIG WELDING MACHINE	500A	50	PRESSURE PIPE WELDING
	CO ₂ WELDING MACHINE	500A	30	WELDING
	ARC WELDING MACHINE	20 kw	10	WELDING
	PLASMA MACHINE	1000A	3	STAINLESS CUTTING
	GOUGING MACHINE	1000A	2	
	WELDING ROD DRYOVEN	400 °C	1	
	PORTABLE DRYBOVEN	5 kg, 10kg	20	
PUMP	HIGH PRESSURE PUMP	520 kg/cm ²	1	HYDRO TEST
	PRESSURE PUMP	250 kg/cm ²	1	HYDRO TEST
FURNACE	PWHT FURNACE	10M x 3M x 2M	1	HEADER PWHT
OTHERS	TURNING ROLLER	10 Ton, 30 Ton	10	
	CRANE	20 Ton, 10 Ton, 3 Ton	11	OVERHEAD CRANE
		20 Ton	2	GANTRY CRANE
	BAND SAW	1600mm	2	SHAPE BEAM CUTTING
	DRILLING MACHINE	MAX 25Φ	2	HOLE MACHINING

TEST & INSPECTION EQUIPMENT LIST



EQUIPMENT	SIZE	Q'TY	REMARK
DEAD WEIGHT	0.5 ~ 300 kg/cm ² .G	1	
PMI EQUIPMENT		1	
FERRITE CHECK MACHINE	0.1% ~ 80%	1	
THICKNESS GAUGE	1.2 ~ 225 mm	1	
TEMPERATURE GAUGE	-40 ~ 1090°C	2	
PAINT THICKNESS GAUGE	0 ~ 1,000 μm	2	
VERNIER CALIPERS	0 ~ 150,300 mm	5	
THREAD GAUGE	inch / mm	2	
MICOR METER	0 ~ 25 mm	1	
DIGITAL CLAMP METER	600A/600V	1	
AIR TEMPERATURE GAUGE	-30 ~ 500°C	1	
PRESSURE PUMP	1 ~ 520 kg/cm ² .G	2	
PRESSURE GAUGE	1 ~ 500 kg/cm ² .G	50	
FLOW METER	5 l/min	1	
IMPACT TESTER	0 ~ 30 kg/fm ²	1	OUT SOURCING
UNIVERSAL TESTING MACHINE	50 ton	1	OUT SOURCING

MAIN PERFORMANCE RECORDS (RECENT 5 YEARS)



NO	PROJECT NAME	END USER	ENGINEERING	SCOPE OF WORKS	COIL & REFRACTORY MAT'L		PERIOD	REMARKS
					COIL	REFRACTORY		
1	UNF PROJ	NAVOIYAZOT JSC (UZBEKISTAN)	MHI / FEI	FAB. OF REFORMER CONVECTION MODULE - 6 CONVECTION MDOULES - START-UP HEATER - INLET DISTRIBUTOR	A312 TP304H A335 P22 A182 F321H	CASTABLE CERAMIC BLANKET	2017 MAR ~ 2017 OCT	
2	KPIC PROJ	KPIC / KBR (ULSAN, KOREA)	GS E&C / JNK	FAB. & EREC. OF SCORE SC-1 TYPE HYBRID CRACKING HEATER - 2 CRACKING HEATERS - TOTAL STEEL FABRICATION : 2,700 TON	HP MODIFIED+NbMA (FM KUBOTA) A312 TP304H A335 P11		2016 APR ~ 2017 MAR	ATTACH #1
3	KPIC RADIANT COIL PROJ	KPIC / KBR (ULSAN, KOREA)	KUBOTA	FAB. & ERECTION OF RADIANT COIL - 16 SETS OF RADIANT COIL BUNDLES	KHR35CL (25Cr-35Ni-Nb) KHR35CT-HiSi (25Cr-35Ni-Nb-MA)		2016 JAN ~ 2016 JUN	ATTACH #2
4	AR-RAZI 5 CM PROJ	AR-RAZI (SAUDI METHANOL COMPANY)	MHI / FEI	FAB. OF REFORMER CONVECTION MODULE FABRICATION OF INLET HEADER	A312 TP304H SA335 P22	CASTABLE	2016 JUL ~ 2016 NOV	ATTACH #3
5	ASC PROJ	PT ASAHIMAS CHEMICAL (INDONESIA)	MORITANI / FEI	FAB. OF CONVECTION MODULE	A335 Gr. P91	CASTABLE	2016 FEB ~ 2016 JUN	
6	FCFC #1 ARO. PROJ	FORMOSA (TAIWAN)	JNK	FAB. OF CCR CHARGE HEATER (1 CCR HEATER & 4 HEATERS CONV. MODULE)	A335 P9 A335 P11 A106 Gr.B	CASTABLE	2015 OCT ~ 2016 FEB	ATTACH #4
7	PEMEX DUBA PROJ	PEMEX (MEXICO)	SAMSUNG ENG. JNK	FAB. OF REACTOR CHARGE HEATER (1 CYLINDRICAL HEATER with APH SYSTEM)	A312 TP321H A312 TP310	CASTABLE	2015 OCT ~ 2016 MAR	
8	REFORMER CATALYST TUBE REPLACEMENT	S-OIL (ULSAN, KOREA)	I-PLANT	#2 HPM REFORMER TUBE REPLACEMENT (CATALYST TUBE 352EA)	25Cr-35NI Nb	HIGH ALUMINA	2015 OCT ~ 2015 DEC	
9	SK GAS PDH PROJ	SK GAS (ULSAN, KOREA)	SKEC / JNK	FAB. & EREC. OF REACTOR CHARGE HEATER - RADIANT FULL MODULING (W/COIL & LINING) - CONVECTION FULL MODULING - STACK FULL MODULING	A312 TP321H A335 P11	CASTABLE CERAMIC MOD'	2014 JUL ~ 2015 MAR	ATTACH #5
10	KUBOTA PROJ	LLC / KSC (SAUDI ARABIA)	KUBOTA	FAB. OF OUTLET HEADER - TOTAL 48 SETS OF HEADER WELDING	KHR32C (20Cr-32Ni-Nb) ALLOY 800HT		2015 JAN ~ 2015 MAR	ATTACH #6

MAIN PERFORMANCE RECORDS (RECENT 5 YEARS)



NO	PROJECT NAME	END USER	ENGINEERING	SCOPE OF WORKS	COIL & REFRACTORY MAT'L		PERIOD	REMARKS
					COIL	REFRACTORY		
11	DH-2 PROJ	HYOSUNG (ULSAN, KOREA)	DAELIM JNK	FAB. & EREC. OF CCR HEATER	A312 TP347H A335 P11 A106 Gr.B	CASTABLE CERAMIC FIBER	2014 APR ~ 2014 DEC	ATTACH #7
12	IEFCL PROJ	INDORAMA (NIGERIA)	TOYO ENG. JNK	FAB. OF PRIMARY REFORMER CONVECTION - TOTAL 8 CONVECTION MODULES - INLET DISTRIBUTOR - HAIR PIN TUBE	ALLOY 800HT A312 TP304H A335 P11	CASTABLE	2014 FEB ~ 2014 AUG	ATTACH #8
13	STEAM REFORMER PROJ	DEOKYANG (ULSAN, KOREA)	PCK	ERECTION OF STEAM REFORMER (50,000 Nm3/h H2 + 12,000 kg/Hco2 Plant)	A312 TP321H A335 P11	CASTABLE CERAMIC MOD'	2013 NOV ~ 2014 APR	ATTACH #9
14	TORE PROJ	TURKMENBASHI OIL (TURKMENISTAN)	HYUNDAI ENG. JNK	FAB. OF 2 FIRED HEATERS - RADIANT FULL MODULING W/COIL & LINING	A335 P5 A106 Gr.B	CASTABLE CERAMIC FIBER	2013 SEP ~ 2014 JAN	ATTACH #10
15	NEEDLE COKE PROJ	POSCO (KWANGYANG, KOREA)	POSCO / JNK	FABRICATION OF 3 FIRED HEATERS - RAD. FULL MODULING W/COIL, LINING, PLATF	SS347 AP A312 TP304	CASTABLE CERAMIC FIBER	2013 OCT ~ 2014 JAN	ATTACH #11
16	NEW PX PROJ	SK INNOVATION (ULSAN, KOREA)	SKEC / PCK	FAB. & EREC. OF FIRED HEATER - TOTAL 6 FIRED HEATERS - CONV. MODULE 15 SETS - WITH APH SYSTEM	A335 P11,P22 A106 Gr.B	CASTABLE	2013 FEB ~ 2013 OCT	ATTACH #12
17	MOSH PROJ	S-OIL (ULSAN, KOREA)	JNK	FAB. & EREC. OF FIRED HEATER - RAD. FULL MODULING	A335 P5 A335 P22	CASTABLE CERAMIC FIBER	2013 APR ~ 2013 JUL	
18	STC A2 PROJ	SAMSUNG TOTAL (DAESAN, KOREA)	JNK	FAB. & EREC OF HEATER ERECTION - TOTAL 4 HEATERS W/APH SYSTEM	A335 P5,P11 A335 P22	CASTABLE CERAMIC FIBER	2013 JAN ~ 2013 JUL	

KPIC PROJECT	
CLIENT	KPIC / KBR / GS E&C / JNK
SCOPE OF WORK	FAB. & EREC. OF HYBRID CRACKING HEATER
WORK VOLUMN	STEEL : 2,700TON / COIL WELDING : 70,000 DI
WORK PERIOD	2016. 04 ~ 2017. 03



RADIANT SIDE PANEL FIT-UP & WELDING



RADIANT MODULING



Z-NECK DUCT MODULING



CONVECTION MODULE

KPIC PROJECT

CLIENT	KPIC / KBR / KUBOTA
SCOPE OF WORK	FABRICATION OF RADIANT COIL FOR HYBRID CRACKING HEATER
WORK VOLUME	16 BUNDLES OF RADIANT COIL
WORK PERIOD	2016. 01 ~ 2016. 06



RADIANT COIL



HEADER WELDING



TETRA FITTING WELDING



TETRA FITTING WELDING



HYDRO. TEST



HANGING TEST



SK GAS PDH PROJECT (ULSAN, KOREA)

CLIENT	SK GAS / JNK HEATERS
SCOPE OF WORK	FABRICATION & ERECTION OF REACTOR CHARGE HEATER
WORK VOLUME	STEEL : 350TON / COIL WELDING : 6,000 DI
WORK PERIOD	2014. 06 ~ 2015. 02



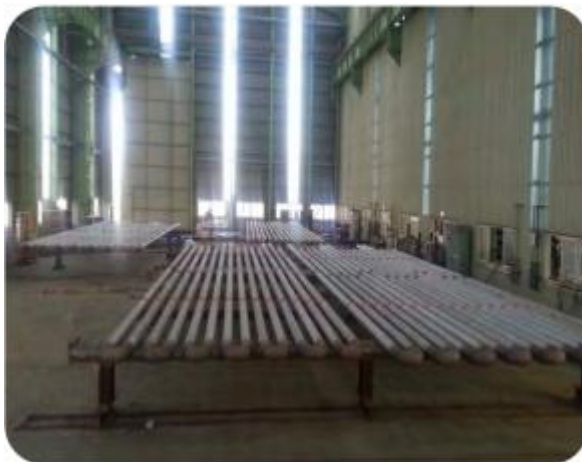
RADIANT & CONVECTION MODULE TRANSPORTATION



RADIANT ERECTION



CONVECTION & STACK ERECTION



RADIANT COIL FABRICATION



RADIANT OUTLET MANIFOLD



CONVECTION COIL FABRICATION



PDH PROJECT / SK GAS, 2014'
(RADIANT FULL MODULING W/RAD. COIL & CERAMIC LINING)

DH-2 PROJECT

CLIENT	HYOSUNG / DAELIM ENGINEERING / JNK
SCOPE OF WORK	FAB. & EREC. OF CCR HEATER
WORK VOLUMN	FAB. & EREC. OF CCR HEATER
WORK PERIOD	2014 APR ~ 2014 DEC



CONVECTION MODULING WORK



RADIANT ABOR COIL TRANSPORTATION



CONVECTION MODULE TRANSPORTATION



FIELD ERECTION

FCFC #1 ARO PROJECT	
CLIENT	FORMOSA / JNK
SCOPE OF WORK	FABRICATION OF HEADERS
WORK VOLUMN	1 CCR HEATER & 4 HEATERS CONV. MODULE
WORK PERIOD	2015 OCT ~ 2016 FEB



WELDOLET WELDING FOR ABOR COIL HEADER



RADIANT ABOR COIL WELDING



RADIANT ABOR COIL WELDING



CONVECTION MODULE TRANSPORTATION

TORE PROJECT (TURKMENBASHI, TURKMENISTAN)	
CLIENT	HYUNDAI ENGINEERING / JNK HEATERS
SCOPE OF WORK	FABRICATION OF FIRED HEATERS
WORK VOLUME	STEEL : 300TON / COIL WELDING : 5,000 DI
WORK PERIOD	2013. 08 ~ 2014. 02



RADIANT MODULING



RADIANT MODULING – CERAMIC & COIL WELDING



RADIANT COIL FABRICATION



CONVECTION MODULE HYDRO. TEST

NEEDLE COKE PROJECT (POSCO, KOREA)

CLIENT	POSCO ENGINEERING / JNK HEATERS
SCOPE OF WORK	FABRICATION OF 3 FIRED HEATERS
WORK VOLUME	STEEL : 250TON / COIL WELDING : 4,000 DI
WORK PERIOD	2013. 10 ~ 2014. 02



RADIANT MODULING



RADIANT COIL ABRICATION



STACK TRANSPORTATION



RADIANT MODULE TRANSPORTATION

MOSH PROJECT (ULSAN, KOREA)	
CLIENT	S-OIL / JNK HEATERS
SCOPE OF WORK	FABRICATION OF VACUUM CHARGE HEATER
WORK VOLUME	STEEL : 150TON / COIL WELDING : 1,500 DI
WORK PERIOD	2013. 07 ~ 2013. 12



RADIANT MODULING



RADIANT MODULE TRANSPORTATION



RADIANT COIL FABRICATION



RADIANT OUTLET MANIFOLD FABRICATION

REFORMER ERECTION



DY HYDROGEN REFORMER PROJECT / DEOKYANG 2014'
(50,000 Nm³/h)



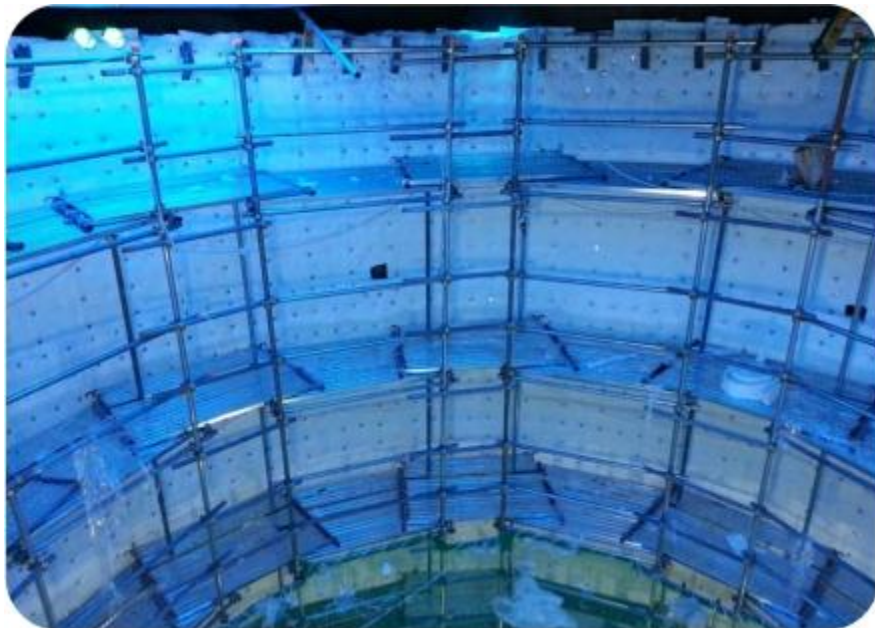
NEW PX PROJECT / SK INNOVATION, 2013'
(8 Cylindrical Heaters with APH System)



H PROJECT / SK INNOVATION, 2013'
(2 Cylindrical Heaters)



H PROJECT / SK INNOVATION, 2013'
(4 Cylindrical Heaters)



**STC A2 PROJECT / SAMSUNG TOTAL, 2013'
(5 Cylindrical Heaters with APH System)**



RADIANT ARBOR COIL WELDING



INLET HEADER WELDING



HERICAL COIL WELDING



HYDRO. TEST

BUSINESS PERFORMANCE PHOTO (REFRACTORY LINING)



BUSINESS PERFORMANCE PHOTO (REVAMPING & MAINTENANCE)



Heater Conv. Module ETS Replacement



Heater Conv. Module Coil Replacement



Radiant Coil Replacement



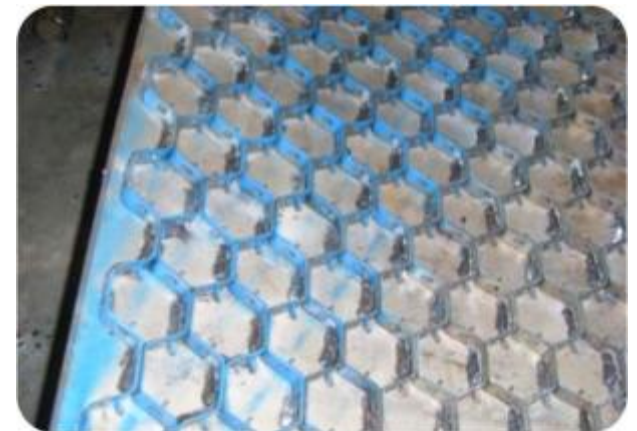
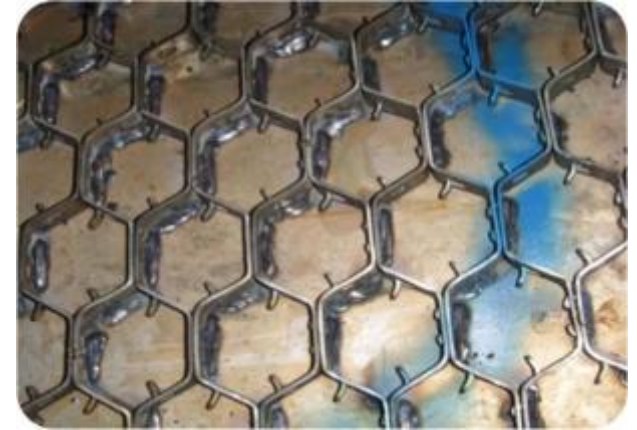
Burner Replacement

THERMAL REACTOR REFRACTORY LINING



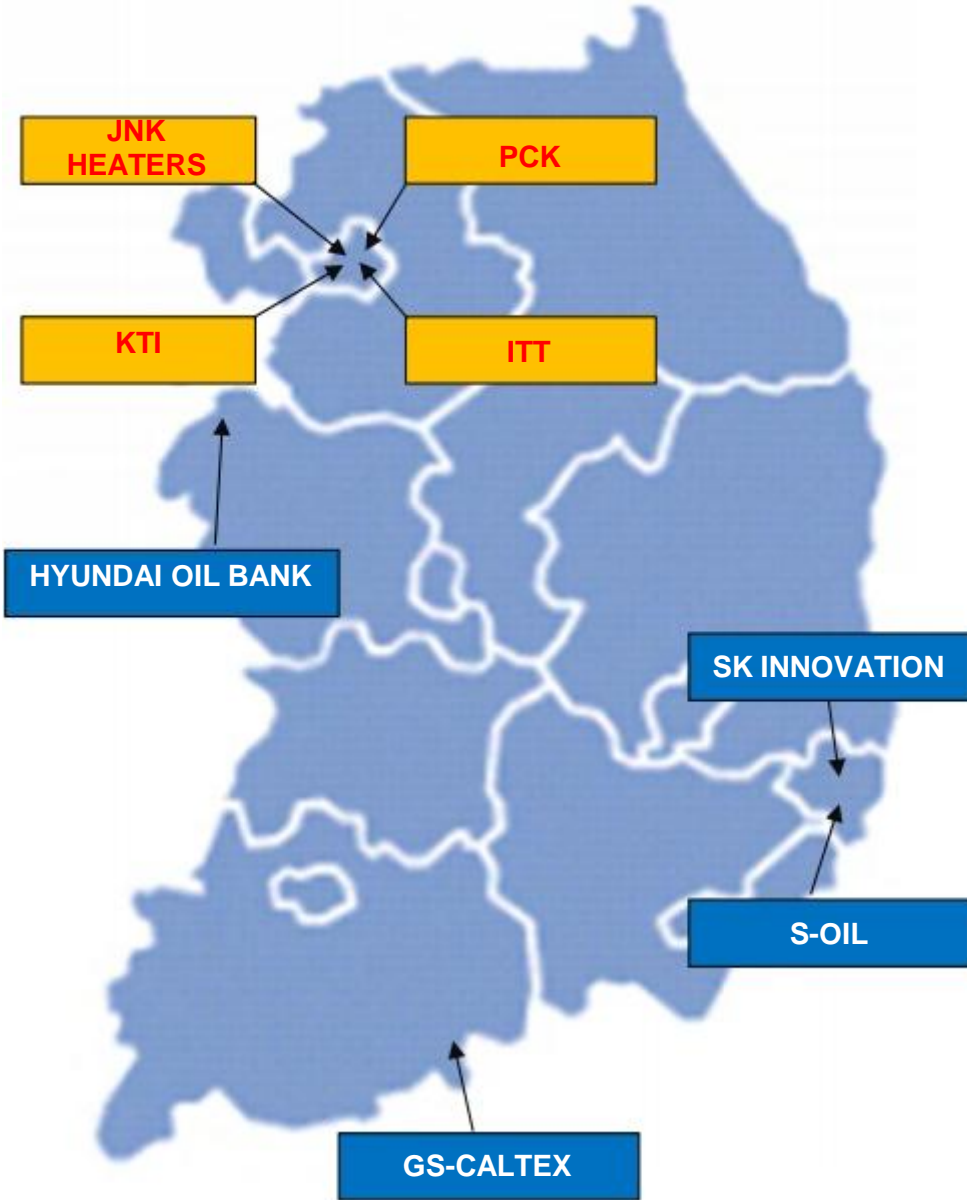
S-OIL THERMAL REACTOR, 2012'

HEXAGON MESH INSTALLATION



BURNER TILE INSTALLATION WORK





DOMESTIC COMPANY

- SK INNOVATION
- S-OIL
- HYUNDAI OIL BANK
- GS-CALTEX

DOMESTIC ENGINEERING COMPANY

- HYUNDAI ENGINEERING
- SAMSUNG ENGINEERING
- GS ENGINEERING & CONST.
- JNK HEATERS
- PCK
- KTI
- ITT

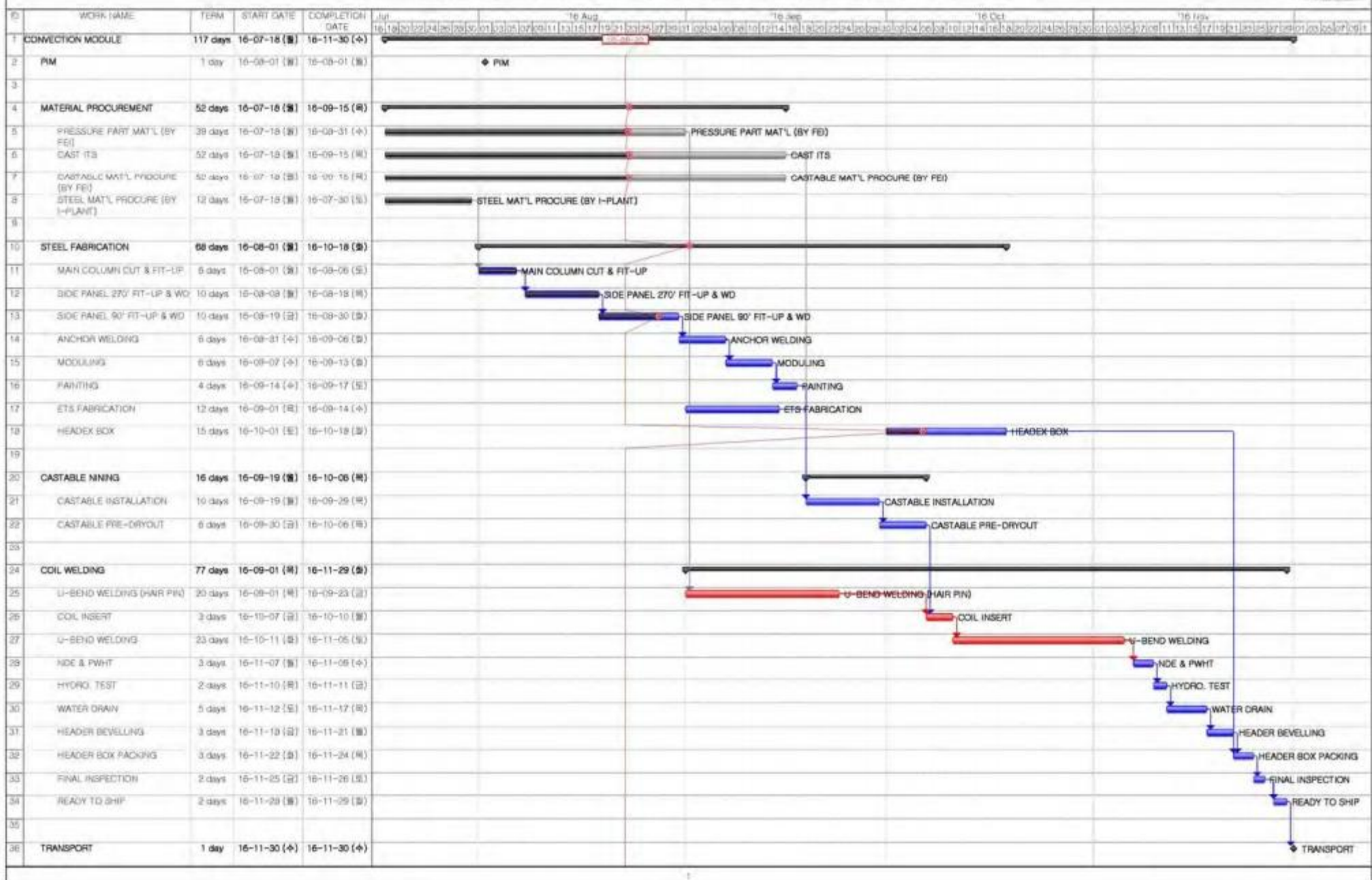
OVERSEAS ENGINEERING COMPANY

- JGC (JAPAN)
- CHIYODA (JAPAN)
- TOYO ENGINEERING (JAPAN)
- FEI (JAPAN)
- MHI (JAPAN)
- TECHNIP (USA)
- AMEC FW (USA)
- ITT (ITALY)
- ONQUEST (CANADA)

SCHEDULE CONTROL (SAMPLE)



Detail Fabrication Schedule / AR-RAZI 5 Convection Module Project



COMPANY ROAD MAP (1ST FACTORY)



- I-PLANT, LIMITED

156 Cheoyongsaneop 3-gil, Cheongnyang-myeon, Ulju-gun, Ulsan, Korea





I-PLANT, LIMITED

항상 당신과 나의 미래의 가치를 생각합니다

THINK FUTURE !!

Thank You
IPLANT YOU