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# **Construction Nomination**

struction Nor

The construction Nomination is for nominating

for the project named \_\_\_\_\_,

please consider its contents and hopefully

make the chance to do business together.

Date

Month

Year

Koins Co., Ltd. President Myung-Hwan, Choi



# **Ceo message**



We appreciate giving a chance to introduce our company. We are carrying out leading position with fruitful growing based on our advanced technology & experience in this pipeline field which is core for national key industry including petrochemical plants. We are recognized for our professionalism on pipeline maintenance, especially pigging technology since the foundation of our company. We get prior & competitive position with integrated system in a range of engineering, design, manufacture, pig production, outsourcing technology and site service. Based on this robust ability and experience in pipeline maintenance field, we are extending our service territory on pipeline inspection as well as maintenance. Now we pursue to achieve highest level through technical ability &

global network and get the competitiveness

in global market. We are going to meet you with package process service in all industrial field with pipeline inspection, maintenance and rehabilitation.

Our executives and staff guarantee to fulfill the need with first class technology & service to domestic, national, further world wide client with our sense of responsibility and principle that we are at a pivotal role of industry.

Sincerely yours.

# Company profile

Con

## Company Overview

Name	KOINS CO., LTD.	ΤeΙ	0+82-61-684-6862
President	Myung-Hwan, Choi	Fax	0+82-61-684-6865
Establish	25th. July, 2014	Web.	www.koins21.co.kr
Address	109-32, SandanJoongang-Ro, Yeosu, Korea	E-mail	koins@koins21.co.kr

## History

2014		04. 03. 03. 02.	ASME Certification with "U", "U2" and "PP" Designator Sign on Agency with PETROMAC in UAE Sign on EXCLUSIVE AGENT with Projectile tube cleaning Co. (USA) Sign on Agency with KENOR ASIA in Iran License for Mechanical utility construction Partnership with Jiwon Tech. for CHEMICAL CLEANING (KOREA)
2013		05. 05.	Registered family company with Suncheon University (KOREA) Designated to promising S&M company (Technical prospect of Jeollanam-Do in KOREA)
2012	I	10. 09.	Designated to star company of Yeosu-Si(Ministry of Knowledge Economy) Sign on Partnership with INPIPE inc. UK Award S&M company technical innovation prize from head of Ministry of Knowledge Economy Designated to good company for work in local (Ministry of Knowledge Economy)
2011		07. 05. 03.	
2009		07. 05.	
2008			Opening The Shop for Self - producing Pig Acquire certificate of ISO9001(Quality) and 14001(Environment)
2007			Sign on exclusive agent with Rosen Inc. Malaysia         Sign on partner relationship with SeonWoo TS. Co. (KOREA)
2006		07.	Acquire regular membership of national trade associate of Korea
2005	I	12. 10.	Establishing Koins India branch (PLANT MAINTENANCE) Partnership PIGSUNLIMITED in USA Partnership with POLY UNION PIG LINING Co. in Japan Establishing Koins co,. Itd.

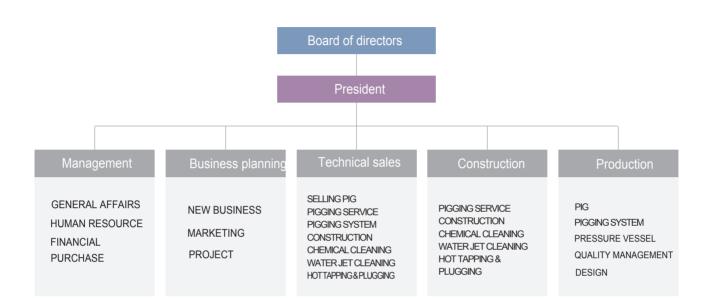
# **Business field**

CONSTRUCTION

PIPELINE CONSTRUCTION, MECHANICAL ERACTION, PRESSURE VESSEL FABRICATION

- MANUFACTURE & SUPPLY
   MANUFACTURE & SELLING PIGS / PIGGING RELATED ITEMS
- **PIGGING SERVICE** PIPELINE PIG CLEANING, DESCALING, FURNACE HEATER TUBE DECOKING, LEAK TEST
- **PIGGING SYSTEM** DESIGN, FAVRICATION AND ERACTION FOR PIGGING TRAP, SIGNALLER, DIVERTER
- INSPECTION SERVICE
   INTELLIGENT PIGGING, LASER PROFILER, MAPPING SERVICE, CCTV VISUAL
- LINING SERVICE
   PIG LINING, SPRAY LINING
- HOT TAPPING & PLUGGING
   HOT TAPPING & PLUGGING
- HIGH PRESSURE WATER JET CLEANING
   HIGH PRESSURE WATER JET CLEANING

CHEMICAL CLEANING SALT BASE CLEANING, REMOVING SCALE FROM HEAT EXCHANGER, TUBE, PIPE, VOLTE, ETC



# Organization

# **Current status officers & employee**

Location	Directors	Staff	Non-regular	Total
Head office	2	27	40	69
India Coporation	2	170	-	172
Gwacheon office	2	3	-	5
Ulsan Office	1	2	-	3



# **Current Status of owend equipment**

#### **PIG CLEANING**

ITEM	SIZE	UNIT	<b>Ο΄ΤΥ</b>	REMARK
AIR COMPRESSOR	1070CFM, 25kgf/cm <sup>2</sup>	EA	2	
AIR DRYER	850CFM, 10kgf/cm <sup>2</sup>	EA	5	
DECOKING & HYDROTEST PACKAGE	3m <sup>3</sup> /min, 30kgf/cm <sup>2</sup>	UNIT	2	40ft CONTAINER
DECOKING & HYDROTEST PACKAGE	2.5m <sup>3</sup> /min,15kgf/cm <sup>2</sup>	UNIT	2	20ft CONTAINER
MOTOR PUMP	2m <sup>3</sup> /min, 10kgf/cm <sup>2</sup>	SET	1	
MOTOR PUMP	0.1m <sup>3</sup> /min, 200kgf/cm <sup>2</sup>	SET	4	
LAUNCHER/RECIEVER	2"~20"(EACH)	SET	40	
LAUNCHER/RECIEVER	22"~46"(EACH)	SET	20	
WATERTANK	1m <sup>3</sup>	SET	10	
WATERTANK	7m <sup>3</sup>	SET	3	
WATERTANK	15m <sup>3</sup>	SET	2	
WATERTANK	25m <sup>3</sup>	SET	2	
MACHANICALTOOL	2"~20"(EACH)	SET	8	
TEMPORARY PIG SIGNALLER	2"	EA	20	
PIG DETECTOR & TRANSMITTER		SET	3	
TRUCK	1ton	EA	8	
TRUCK	3.5ton	EA	1	
TRUCK	5ton	EA	1	



# **Current Status of owend equipment**

# WATER JET CLEANING

ITEM	SIZE	UNIT	<b>Ω'</b> ΤΥ	REMARK
HIGH PRESSURE WATER JET CLEANER	1000bar, 109ℓ/min	EA	2	
HIGH PRESSURE WATER JET CLEANER	1000bar, 188ℓ/min	EA	1	
HIGH PRESSURE WATER JET CLEANER	1000bar, 156ℓ/min	EA	2	
HIGH PRESSURE WATER JET CLEANER	1000bar, 187ℓ/min	EA	1	
HIGH PRESSURE WATER JET CLEANER	1040bar, 94ℓ/min	EA	1	
ULTRA PRESSURE WATER JET CLEANER	2700bar, 24ℓ/min	EA	1	
ULTRA PRESSURE WATER JET CLEANER	2700bar, 17ℓ/min	EA	1	
ULTRA PRESSURE WATER JET CLEANER	2200bar, 27ℓ/min	EA	1	
CUTTING SYSTEM(WATER JET CUTTER)	2500bar	EA	2	
ROTO-FAN	1000bar	EA	1	
PTC(INTERNAL)	1034bar	EA	1	
PTC(EXTERNAL)	1034bar	EA	1	



# **Current Status of owend equipment**

#### **CHEMICAL CLEANING**

ITEM	SIZE	UNIT	<b>Q′T</b> Y	REMARK
CHEMICAL CLEANING PACKAGE	8m³/min	SET	1	20ft CONTAINER
PUMP & TANK SET	100m <sup>3</sup> /hr, 7kgf/cm <sup>2</sup> - TANK 2m <sup>3</sup>	SET	2	SUS
CHEMICAL CLEANING PUMP	3m <sup>3</sup> /min,15kgf/cm <sup>2</sup>	EA	1	
CHEMICAL & WATER FLUSHING PUMP	4m <sup>3</sup> /min, 20kgf/cm <sup>2</sup>	EA	1	
CHEMICAL & WATER FLUSHING PUMP	4m³/min	EA	1	
OIL FLUSHING PUMP	3m³/min, 20kgf/cm²	EA	1	
OIL FLUSHING PUMP	4.5m³/min	EA	1	
OIL FLUSHING PUMP	5m³/ min	EA	1	
PUMP	500m <sup>3</sup> /hr, 5kgf/cm <sup>2</sup>	EA	1	SUS
PUMP	350m <sup>3</sup> /hr, 5kgf/cm <sup>2</sup>	EA	1	SUS
PUMP	500m <sup>3</sup> /hr, 7kgf/cm <sup>2</sup>	EA	4	SUS
PUMP(다단)	200m <sup>3</sup> /hr, 12kgf/cm <sup>2</sup>	EA	2	SUS
DIAPHRAM PUMP	2″	EA	2	SUS & TEFLON
DIAPHRAM PUMP	1″	EA	2	SUS & TEFLON
DIAPHRAM PUMP	3/4"	EA	2	TEFLON
TANK	11m <sup>3</sup>	EA	1	Heater&Steam
TANK	7m <sup>3</sup>	EA	2	Heater&Steam
TANK	1m <sup>3</sup>	EA	2	Electric heater



# Certificate

We do not neglect even 1% possibility to ensure 100% of customer satisfaction

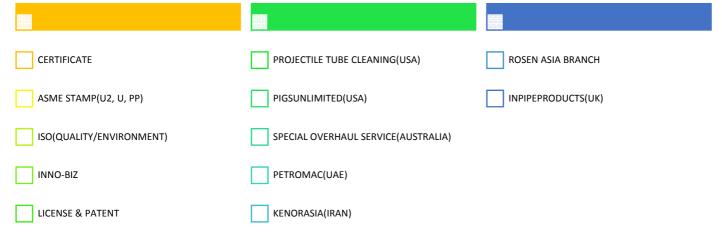
Leans L

Company



# KOINS GENERAL AGENCY

# PARTNERSHIP







# Business certificate | Local

발급번호	사	업자등록췽	ह म्र्	처리기간	
Issuance number	Certificate for Business Registration			Processing period	
5543-030-1709-120		(법인사업자) (Corporate Taxpaye		즉 시 Immediately	
상 호 (법 인 명) Name of company	the second s	회사코인즈 INS CO.,LTD			
사업자등록번호 Business registratio	n number 417-	-81-31578			
성 명(대 표 자) Name of representat	최명 CH(	환 DI MYUNG HWAN			
주민(법인)등록번호 Resident(Corporation registration number	n) 2062	211-0030581			
사 업 장 소 재 지 Address		한지 11-2-3(4 구역 )) 1-2-3,S&M Business ngang-ro,	Industrial Complex),		
개 업 일 Date of business commencement	2005년(Year) 7월(I	Month) 25일(Day)	0		
사업자등록일 Date of business registration	2005년(Year) 7월(I	Month) 26일(Day)	S/AE		
업 태 Business type	and the second s	ntific and technical a	1/2/2		
종 목 Business item	배관기술서비스 , 기계설비 Civil Engineering Service				
공 동 사 업 자 Joint business owner	Name (Nam	(법인명) ie of company) 니다. (NO DATA)			
		위와 같이 We hereby	국명합니다. certify the above.		
담당부서	민원봉사실		14년 8월 21일	同時間日	
담당자	Taxpayer Service C 강형순	enter	Year Month Day 여수세	무서장 리리이크	
Staff in charge 연락처 Telephone No. (	061)688-0221	Head	1 of Yeosu District Ta	x Office	
국 세 청 <u>ws</u> 62 국세청					



# Business certificate | Local (Ulsan branch)

	사업자등록중 ate for Business R		Processing period	
			and the second	
	(법인사업자) (Corporate Taxpayer	)	즉 시 Immediately	
12 Mar 19 19 19 19 19 19 19 19 19 19 19 19 19	(주) 코인즈 울산지점 /LSAN BRANCH OF KOI	IS CO., LTD.		
number 61	0-85-47702			
and the second se	Contraction and the second			
) 20	06211-0030581			
(1 층 ) (#403), 403, Deoksin-re	o,			
2014년(Year) 5위	월(Month) 22일(Day)		and an	
2014년(Year) 6월	월(Month) 9일(Day)			
and the second	cientific and technical a	12/2		
	rices			
Name (N	ame of company)		업자)등록번호 ess) registration No.	
민원봉사실	and the second sec	and a second sec	<b>B</b> BBB用	
Taxpayer Service 김환진		Year Month Day 울산 세 무 서 장 Head of Ulean District Tay Office		
52)259-0226				
	L           number         61           3         3           7e         20           운산광역시 울주는         (1 층 )           (#403),         403, Deoksin -r           403, Deoksin -r         Onsan - eup, Ulju           2014년(Year)         64           자비스         Professional, sa           매관기술석비스         Civil Engineering Serv           실험         Name (N           해당사항없         1           일원봉사실         `axpayer Service           '환진	ULSAN BRANCH OF KOR number 610-85-47702 최명환 CHOI MYUNG HWAN 7e 206211-0030581 을산광역시 울주군 운산읍 덕신로 403 (1 층 ) (#403), 403, Deoksin-ro, Onsan-eup, Ulju-gun, Ulsan, Korea 2014년(Year) 5월(Month) 22일(Day) 2014년(Year) 5월(Month) 22일(Day) 2014년(Year) 6월(Month) 9월(Day) 지비스 Professional, scientific and technical a 대관기술서비스 Civil Engineering Services 성명(범인명) Name (Name of company) 해당사항없습니다. (NO DATA) 위와 같이 죽 We hereby of 2014년(Part Participant) 위와 같이 죽 We hereby of 2014년(Part Participant) 2014년(Part Participant) 2014년	ULSAN BRANCH OF KOINS CO., LTD. number 610-85-47702 계명환 CHOI MYUNG HWAN 7e 206211-0030581 을산광역시 울주군 온산읍 덕신로 403 (1 층 ) (#403), 403, Deoksin-ro, Onsan-eup, Ulju-gun, Ulsan, Korea 2014년(Year) 5월(Month) 22일(Day) 2014년(Year) 6월(Month) 9월(Day) 지비스 Professional, scientific and technical a 해관기술세비스 Civil Engineering Services 성명(법인명) 주민(사 Name (Name of company) Resident(Busin 해당사항없습니다. (NO DATA) 위와 같이 증명합니다. We hereby certify the above. 위와 같이 증명합니다. We hereby certify the above. 2014년 8월 21일 Year Month Day 을산것 Head of Ulsan District T	



## Business certificate | Overseas (India Corporation)

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X		X
AN NZ	स्वयेष अव्य प्रारूप 1	AA Na
ZX	पंजीकरण प्रमाण–पत्र	Z/X
毅	कॉर्पोरेट पहचान संख्याः U74999MH2011PTC217379 2011 - 2012	畿
畿		畿
N/2	में एतदद्वारा सत्यापित करता हूँ कि मैसर्स KOINS INDIA MAINTENANCE SOLUTIONS SERVICES PRIVATE LIMITED	-
AN NX	का पंजीकरण, कम्पनी अधिनियम 1956 (1956 का 1) के अंतर्गत आज किया जाता है और यह	NX
ZX	कम्पनी प्राइवेट लिमिटेड है।	XX
翁	यह निगमन-पत्र आज दिनांक बारह मई  दो हजार ग्यारह को मेरे हस्ताक्षर से मुंबई में जारी किया जाता *	袚
器	anu 	畿
NZ	Form 1	XX
4x X	Certificate of Incorporation	NZ
TA	Corporate Identity Number : U74999MH2011PTC217379 2011 - 2012 I hereby certify that KOINS INDIA MAINTENANCE SOLUTIONS SERVICES	AX
殺	PRIVATE LIMITED is this day incorporated under the Companies Act, 1956 (No. 1 of 1956) and that the company is private limited.	举
影		發
X	Given under ny hand at Mumbai this Twelfth day of May Two Thousand Eleven.	N/2
4A Na	the chil	NZ
R	(HENRY RICHARD) कम्पनी रजिस्ट्रार /Registrar of Companies	ZX
毅	महाराष्ट्र, मुंबई Maharashtra, Mumbai	畿
畿	कम्पनी रजिस्त्र के काम्म - अभिलेख में उपलब्ध पत्राचार का पता :	畿
X	Mailing Address as per record available in Registrar of Companies office: KOINS INDIA MAINTENANCE SOLUTIONS SERVICES PRIVATE LIMITED	N/S
NA	24, MAJITHIA INDUSTRIAL ESTATE,, W.T.PATIL MARG,, DEONAR - 400088, Maharashtra, INDIA	NZ
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# **Certificate of Factory registration**



[별지 제8호의 2서식] <개정 2008. 2. 5>

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인	대표자 주: (법인소재지		전라남	도이	비수시	여수ㅋ	국가산업	법단지내			011-02	-0003,4	1구역	
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록	공장등록일	200	8-10-07	7	사업시	직일	2005-	-07-25	종업*	친수	남:12		여:1	
내	공장의	업종	는 (분류	번호	)	공	장부지	면적(m')	제조시	실면	적(m')	부대	시설면	적(m')
용	그외기타분류 조업 외 1 종 (하단참조)		특수목?	적용기	기계제			3,225.60			393.40			596.40
5	○공장등록후 취소되며,	라도	실태조	사 결	과, 관	련사	업계획이 치됩니	게 의한 > 다.	베조업을	영위	하지 않는	을경우	· 공장 이주기	등록은
· 항	○ 환경·교통·; 이행해야 학 ○산업집적활 변경·증설등 기 변경내용	재해 불 할 부 성화	등에 관 분은 반 및 공장	한 영 드시 남설록	양평기 이행히 님에 관	)법에 가여야 한 법	의한 원 합니디 률을 빈	난경영향픽 나.	가 대상			1.9.9.	8121	1 세지
건 등록 변경 ※ 222	<ul> <li>○한정·교통··· 이행해야 확</li> <li>○산업집적整</li> <li>변경·증설등 7</li> <li>변경내용</li> <li>방과 및 내용</li> <li>공장의업종(분·</li> </ul>	재해 한 부 · 성화 · 성화 · 시재	등에 관 분은 반 및 공정 [신설	한 영 드시 남설록	양평기 이행히 님에 관	)법에 가여야 한 법	의한 원 합니디 률을 빈	난경영향품 나. 난드시 준	가 대상				수 - 4	<b>五</b> 4
건 등록 변경 2222 KS	○환경·교통·· 이행해야 확 ○산업집적활 변경·증설등 7 변경내용 당과 및 내용 공장의업종(분· 250	재해 할 부분 ·성화 ·기재 ) 류번호	등에 관 분은 반 및 공진 [신설	한 영 도시 한 설 록 변 경	[향평기 이행* 네에 관 승인]	법에 하여야 한법 등록일	의한 확 합니디 률을 변	산경영향곡  - <u></u> 8-10-07	<b>가 대상</b> 수하여이	: 합니	14.		<u>ት</u> ት	는 료 0 원
건 등록 변경 2222 KS	○ 환경·교통:: 이행해야 협 이산업집적활 변경·중설등 7 변경내용 당날짜 및 내용 공장의업종(분· 550 MC-8: 29399 산업집적활성3	재해 : 상화 1재 ) 류번호	등에 관 분은 반 및 공 2 [신설	한 <sup>영</sup> 드시 변경 에관	[향평기 이행* 네에 관 승인]	법에 하여야 한법 등록일	의한 확 합니디 률을 변	산경영향곡  <u>- 준</u> 10-07 제12조의	<b>가 대상</b> 수하여이	: 합니 + 위외	14.	공장등	<u>ት</u> ት	<sup>2</sup> 료 0 원
건 등록 반항 변경 ※2222 KS 「 、 정합 -	<ul> <li>○ 환경·교통·: 이행해야 함</li> <li>○ 산업집적활</li> <li>변경내용</li> <li>날짜 및 내용</li> <li>날짜 및 내용</li> <li>공장의업종(분·</li> <li>550</li> <li>SC -8: 29399</li> <li>산업집적활성3</li> <li>니다.</li> </ul>	재해 : 발 부탁 ·성화 · · · · · · · · · · · · · · · · · · ·	중에 관문은 반분및 공건 문은 반분및 공건 [신설 :장설립 ·장설립	한 영 드시 번경 번경	[향평기 이행관 ]에 관 승인]	사업에 다 하여야 한법 등록일 시행규	의한 확 합니디 률을 변 길 : 200	전영향평 <u>1 등시 준</u> 8-10-07 전 1 제1항·□ 2008 5	3에 따리 3에 따리 정 인 ]제2항·□	: 합니 } 위외 ! ( ]제3 <sup>2</sup> ! 10	]다. → 같이 주)코인= 창)의 규·	ठउठ ठठ ठ ठ ठ ठ ठ ठ र ठ र ठ र ठ	수 イ   록 중 명   ()	- 료 0 원 서를 인



#### **Credit assessment**





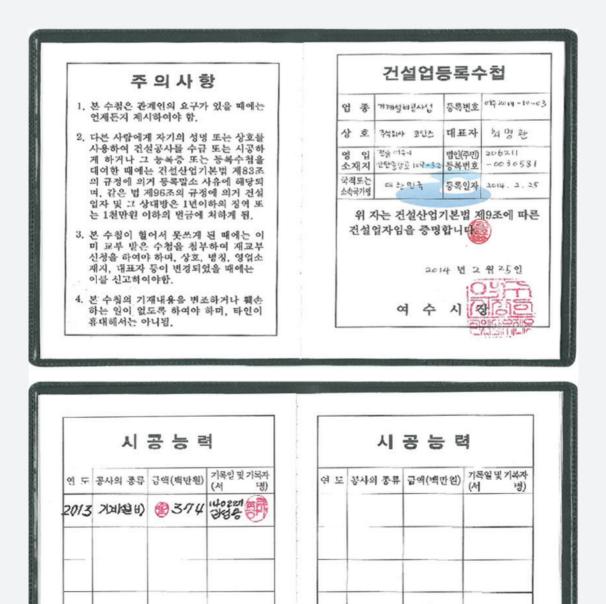
# Certificate of Construction registration | Mechanical Utility Registration

별지 제3호 서식]						(앞 쪽
Z	건식	철 업	비	록	No	2
여수시 업 YEOSU CITY	종 : 기계설	비공사업	비	록 번	호: 여수201	EXPO 2012 4+120+08REA
상	호 : 주식회	사코인즈	대	丑	자: 최명환	
주된영업소 소	재지:전라남	도 여수시 산단	중앙로 1	09-32 (	화 치 동 )	
법인(주민)등록	·번호:206211·	-****				
국적또는 소 속 국 가	명 :대한민	F	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	록 일	자: 2014.02	.25
		an silona.	lana nama			
위 자는	건설산업기본	법 제9조의 규기	정에 의한	건설업기	자임을 증명히	14 H
		2014	년 그	월	25 일	OUTE
				전라	날도 여수시	121 C 02
0	변	경	사		항	-
현 경 연 월 변 경 구 분	2	변	경내용		and the second	기록일 및 기록지 (서명 또는 인)



Certificate

Certificate of Construction registration | Mechanical Utility Registration





### **Certificate of Trade Business number**

# 무역업고유번호부여증 CERTIFICATE OF TRADE BUSINESS NUMBER

① 무역업고유번호* (Trade Business Number)	45232024		
② 상 호 (Name of Company)	(주)코인즈		
③ 주 소 (Address)	전남 여수시 화치동	- 국민임대단지 11-2	-3(4구역)
④ 대표자 성명 (Name of Rep.)	최명환		
⑤ 주민등록번호 (Passport Number)	591220-1024321	⑥ 사업자등록번호 (Business Registry Number)	417-81-31578
We hereby	무역업고유번호를 위 certify that the above accordance with A egulation.	e-mentioned trade h	ousiness number was
		2006 <sup>년</sup> 07 Year M	
Chai	사단법인 한국- irman of Korea Inte		ssociation



Certificate

#### **Overseas agency** | **PROJECTILE TUBE CLEANING (TUBE CLEANER : USA)**



Projectile Tube Cleaning 110 Valley View Drive Ford City PA, 16226

#### Authorization letter

Dear Mr. M. H. Choi / President

This is to certify that KOINS CO., LTD. (herein after "Agent"), 11-2-3 S&M Business Indus. Comp., Hwachi-Dong, Yeosu-Si, Jeollanam-Do, 555-280, S. Korea, has sole authorization of PROJECTILE TUBE CLEANING INC. (herein after "Company"), to act as our local agent to quote, sell and supply Tube cleaner & its related item (herein after "Product") in Korea.

Agent also receives our technical support for any and all issues regarding the use of our products.

In accordance with this authorization, Agent may take the required actions to enable Company to be included on the approved vendors list for those companies offering invitations to tender for projects in Korea.

Further above, Company endeavors to get tenders and to participate in the projects from Korean market when Agent takes part in the projects as our agency.

This authorization letter has an effect for 1 year, on 21<sup>st</sup> Feb. 2014. If there's no intention to terminate this agent relationship under mutual consent, this authorization will be automatically extended for every year.

21st. Feb. 2014

Sincerely,

President / Dan Lyle Projectile Tube Cleaning Inc.



## **Overseas Agency** | PIGSUNLIMITED (Manufacturing PIG, USA)

U	Authorization Letter
	December 1, 2005
	To Whom It May Concern:
	This is to certify that KOINS Co., Ltd., #1325, Ilwachidong, Yeosusi, Jeonnam, 555-280, Korea, has authorization of Pigs Unlimited, Inc., of the United States of America, to act as their local agent to quote, sell and supply pigs and pigging-related products in Korea. KOINS Co., Ltd. also receives our full technical support for any and all issues regarding the use of our products.
	In accordance with this authorization, KOINS Co., Ltd. may take the required actions to enable Pigs Unlimited, Inc. to be included on the approved vendors list for those companies offering invitations to tender for projects in Korea.
	This authorization letter is of a temporary nature, pending the establishment of a long-term agreement for commercial cooperation between KOINS Co., Ltd. and Pigs Unlimited, Inc., and will expire on December 1, 2010. However, any contract awarded during the duration of this authorization will be honored by both parties until completed – even after the expiry of the authorization.
	If you have any questions or need additional information, please do not hesitate to contact us.
	Sincerely,
1	Street in
1	A. Keith Wagner Vice President
	email: sales@pigsunlimited.com
3802	FM 2978, Suite B3 • Tomball, TX 77375 • Tel: 281-351-2749 • Fax: 281-351-4658 • Toll-free: 800-578-743



Certificate

#### **Overseas Agency** | SPECIALISED OVERHAUL SERVICE(TUBE CLEANER : Australia)



#### SPECIALISED OVERHAUL SERVICE PTY. LTD.

MARINE & ELECTRICAL ENGINEERS

A.C.N. 001 766 409

Manufacturers of Tube Cleaning Systems for:-Electricity Generation Power Plants Petro-Chemical & Industrial Air Conditioning & Refrigeration Sydney Office: 15 RANDALL COURT, COLLAROY N.S.W. 2097 AUSTRALIA Tel : (02) 9981 4010 INT(++) 61 2 9981 4010 Fax: (02) 9982 2240 INT(++) 61 2 9982 2240

# **Authorization Letter**

1<sup>st</sup> May 2009

#### To Whom It May Concern

This is to certify that KOINS CO.,LTD, 11-2-3, Imdaedanji, Industrial Complex, Hwachi-Dong, Yeosu-City, Jeollanam-Do, 555-280, Republic of Korea, has the authorization of Specialised Overhaul Service P/L of Australia, to act as their local distributor and applicator to quote, sell and supply Tube Cleaning Equipment and Tube Cleaning Equipment related products in Korea. KOINS Co., Ltd also receives our full technical support for any and all issues regarding the use of our products.

On this day a distribution agreement has been made between KOINS Co.,Ltd and Specialised Overhaul Service P/L formalizing the above arrangement.

Yours Sincerely,

Graham H. Smith Managing Director.



#### **Overseas Agency** | PETROMAC (UAE)

- 8.2 Any of the respective parties ceasing business or being declared bankrupt.
- 8.3 The Agent's business going into liquidation or being dissolved other than for the purpose of re-construction or re-organization.
- 9. On termination of this Agreement from whatever cause the Agent shall return to the Company all drawings, customer records and other data relating to the Company's business or services which may be in his possession.
- Both, the Company and the Agent have no objection to register this Agency Agreement at the Ministry of Economy, Trading Agencies Department.
- 11. For any argument between the parties during the period under this agreement, it should be solved under mutual discussion & agreement of the parties.

On date: 24th February, 2014

#### Signed by:

The authorized representatives:

For and on behalf of **PETROMAC** 

Name: Samer Naim Title : Managing Director



For and on behalf of KOINS CO., Ltd.

Name:Myung-Hwan, Choi Title : President

#### Overseas Agency | KENOR ASIA (IRAN)

KOINS by mutual cooperation in good faith, such dispute or disagreement shall be referred to and settled finally and conclusively under provisions of International Chambers of Commerce (ICC) in Paris, and the rules and regulations made thereof.

Certificate

#### **CLAUSE 21. ENTIRE AGREEMENT :**

The provisions of this agreement constitute the entire agreement between KENOR and KOINS, related to the matter covered by this agreement and supersedes all previous agreements related to the same. In witness the parties hereto have executed this agreement as of the day and year, first above written.

#### CLAUSE 22. ARGUMENT

For any argument between the parties during the period under this agreement, it should be solved under mutual discussion & agreement of the parties.

For an on Behalf of: KENOR Asia Co. Ltd.

Hossein Nassehzadeh CEO 10<sup>th</sup>March 2014

KENOR ASIA

Atalate Shakinpa

For an on Behalf of: KOINS Co., Ltd.

Myung Hwan Choi President

10<sup>th</sup>March 2014



**Overseas Partner** | ROSEN(INTELLIGENT PIG : Asia branch)

10/10 m

Doc. Name Doc. Base	ROFEA_KOINS_EAA_080101 EAA_ROFEA_KOINS_080101.doc EAA_CPL_ST115_011109 draft 12 01-January-2008	F	Pipeline inspection
30	Entire Agreement This Agreement (together with the Attact to herein) constitutes the entire contract subject matter hereof and supersedes al understandings relating to such subject r	and understanding between the prior agreements, arrangement	parties on the
	IN WITNESS WHEREOF, the parties he day and year first above written	eto have executed this Agreeme	ent as of the
For Fuel alian And			
For Exclusive Ag			
Location:	teo Su Cok	a	
Date:	Feb 14 200 f		
Signature:	Mr. Myung Hwan Choi CEO, KOINS Co., Ltd.	3. 24	
For Company:	V-1-		
Location:	K L		
Date:	80008	B. INDERJIT S	
	Mr. Roslan Arshah General Manager, ROSEN Far East	6TH FLOOR, BANGKOK 105. JALAN TUJ 10000 KUALA LUMPUS TEL: 107274	I.S. LDE, MALAYSIA
Appears on this doc Certificate/Birth/Der BINDERJ isfrom Notro The Ministry of Fore	to certify that signature that ument/Certificate/Marriage atth Certificate is that of TSINCHT who Public ign Affairs, Malaysin 9 not ccuracy of the morror for	* B. Indenit Singh * B. Indenit Singh * Singh A. S.	
OF FOREIGN AMALAYSIA*	ABDUL RAHIM BRAHIM Example Officer Consular Division Ministry of Foreign Alfairs Putrajaya Malaysia 2 1 MAR 2008		
Page 2 bit 2 BAYAR	RM 201	GloMar: .	(ITA)

#### Certificate | ASME CERTIFICATE WITH "U2"

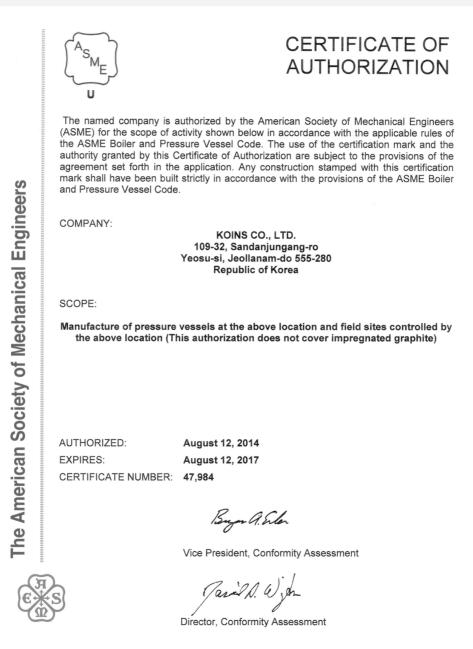
CERTIFICATE OF **AUTHORIZATION** U2 The named company is authorized by the American Society of Mechanical Engineers (ASME) for the scope of activity shown below in accordance with the applicable rules of the ASME Boiler and Pressure Vessel Code. The use of the certification mark and the authority granted 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: KOINS CO., LTD. 109-32, Sandanjungang-ro Yeosu-si, Jeollanam-do 555-280 **Republic of Korea** SCOPE: Manufacture of pressure vessels at the above location and field sites controlled by the above location AUTHORIZED: August 12, 2014 EXPIRES: August 12, 2017 CERTIFICATE NUMBER: 47,985 Buger a. Elen Vice President, Conformity Assessment Paril D. W. on

Certificat

The American Society of Mechanical Engineers

Director, Conformity Assessment

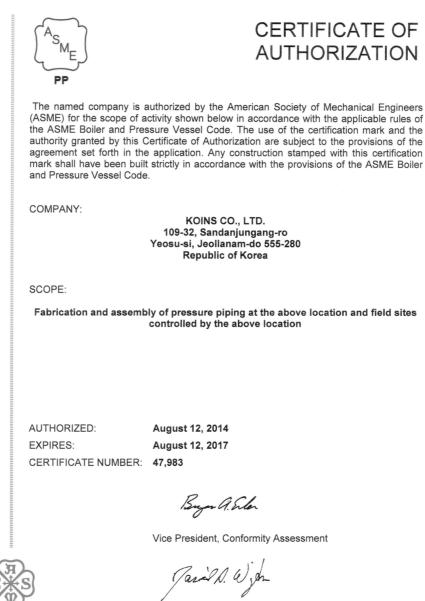
#### Certificate | ASME CERTIFICATE WITH "U"



Certificate

#### Certificate | ASME CERTIFICATE WITH "PP"

The American Society of Mechanical Engineers



Certificat

Director, Conformity Assessment

Certificate No : RQM3856-1

#### Certificate | Quality control



Certificat

# Quality Management System Certificate

This is to certify that the quality management system of

# KOINS CO., LTD.

at

(4Area) #11-2-3, Imdaedanji, Yeosu Indus. Complex, Yeosu-si, Jeonnam, Korea

Has been found to conform to the Quality Management System Standards:

KS Q ISO 9001:2009 / ISO 9001:2008

This Certificate is valid for the following product or service ranges:

Design, Development, Production and Services of PIG

Issue Date Apr. 14. 2014

Certification Date : May. 26. 2014

Valid Date : May. 25, 2017







Wark indicates that KWAR is accredited by the KAB (No. KAB-QC-17)

O Vark Indicates that KVAR is Accredited by the member of the International Accreditation Forum Vultilateral Recognition Arrangement
 KSIC CODE 118/ Initial certification date: Vay. 26, 2008

#### Certificate | Quality control



# **Quality Management System Certificate**

This is to certify that the quality management system of

# KOINS CO., LTD.

(4Area) #11-2-3, Imdaedanji, Yeosu Indus. Complex, Yeosu-si, Jeonnam, Korea

Has been found to conform to the Quality Management System Standards:

KS Q ISO 9001:2009 / ISO 9001:2008

This Certificate is valid for the following product or service ranges:

Development, Operation and Services of PIGGING System

Issue Date Apr. 14. 2014

Certification Date : May. 26. 2014 Valid Date : May. 25. 2017





Mark indicates that KWAR is accredited by the KAB (No. KAB-QC-17)

· @ Vark indicates that KVAR is Accredited by the member of the international Accreditation Forum Vultilateral Recognition Arrangement • KSIC CODE :18/ initial certification date: May. 26. 2008

Certificate No : REM1212-1

#### Certificate | Invironment control



# **Environmental Management System Certificate**

This is to certify that the environmental management system of

# KOINS CO., LTD.

at

(4Area) #11-2-3, Imdaedanji, Yeosu Indus. Complex, Yeosu-si, Jeonnam, Korea

has been found to conform to the Environmental Management System Standards:

KS I ISO 14001:2009 / ISO 14001:2004

This Certificate is valid for the following product or service ranges:

Design, Development, Production and Services of PIG

Issue Date Apr. 14. 2014

Certification Date : May. 26. 2014

Valid Date : May. 25. 2017



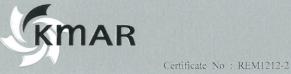
Authorized By CH Park

Ki Ho Park, Presider

+  $\leftrightarrow$  - Mark indicates that KMAR is accredited by the KAB (No. KAB-EC-17)

• @ Vark indicates that KVAR is accredited by the member of the international Accreditation Forum Vultilateral Recognition Arrangement KSIC CODE 118/ Initial certification date: May. 26. 2008

#### Certificate | Invironment control



# **Environmental Management System Certificate**

This is to certify that the environmental management system of

## KOINS CO., LTD.

(4Area) #11-2-3, Imdaedanji, Yeosu Indus. Complex, Yeosu-si, Jeonnam, Korea

has been found to conform to the Environmental Management System Standards:

KS I ISO 14001:2009 / ISO 14001:2004

This Certificate is valid for the following product or service ranges:

DDevelopment, Operation and Services of PIGGING System

Issue Date Apr. 14. 2014

Certification Date : May. 26. 2014

Valid Date : May. 25. 2017





Ki Ho Park, President

 $\leftarrow$  Mark indicates that KVAR is accredited by the KAB (No. KAB-EC-17)

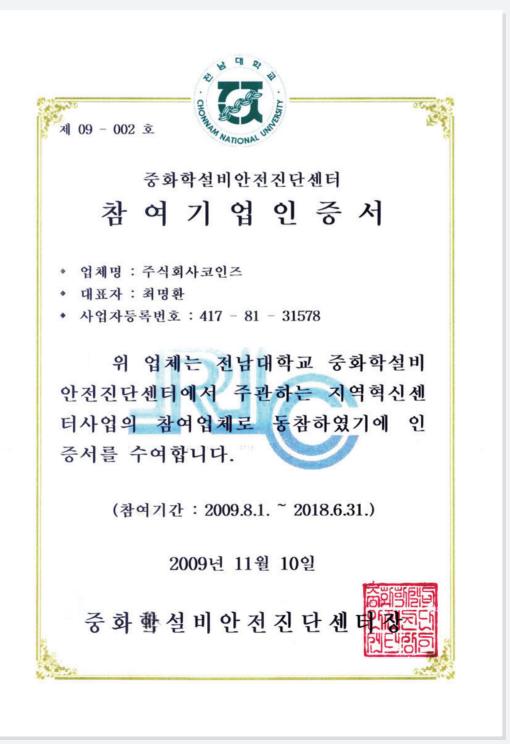
· @ Vark indicates that KVAR is accredited by the member of the international Accreditation Forum Vultilateral Recognition Arrangement · KSIC CODE 118/ Initial contification date: Vay. 26, 2008

Certificate | Smart pig for pipeline integrity

산학 제 2009-10호			Y	
인	장	서		
	업체명 : (주 과제명 : 배관	)코인즈 산진단용 스마트	트 피그 개발	
귀사는 중소기업청에서 지원하는 전남대학교 중소기업산학협력센터(여수)의 제17차년도(2009.6.1.~2010.5.31.) 산·학 공동기술개발 사업의 생산현장 애로기술 및 신기술 개발을 위한 참여 업체임을 증명합니다.				
200	9년 6월	1일		
전님	불 대 '	확 교	진비비대학 고종(Se	
중소기업산학 전남대학교산학			各本 四日	



#### Certificate | Joint Certificate



Certificat

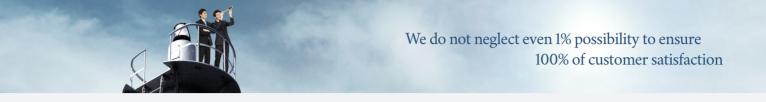


Certificate | Sona Caliper for pipeline integrity

산학 제2010-9호
인 증 서
업체명 : (주)코인즈 과제명 : 배관진단용 소나 캘리퍼 개발
귀시는 중소기업청에서 지원하는 전남대학교 중소기업산학협력센터(여수)의 제18차년도 (2010.6.1.~2011.5.31.) 산·학 공동기술개발 사업의 생산현장 애로기술 및 신기술 개발을
위한 참여 업체임을 증명합니다. 2010년 6월 1일
전 남 대 학 교 중소기업산학협력센터장 김 민 전남대학교산학협력본부장 백 병 천

#### Certificate | Ultrasonic IRIS for heat exchanger tube

<i>b</i>	산학 제 2011-10호
	인 증 서
	기업체명 : (주)코인즈 과 제 명 : 열교환기 튜브 검사용 초음파 IRIS 개발
	귀사는 중소기업청에서 지원하는 전남대학교 중소기업산학협력센터(여수)의 제19차년도(2011.6.1.~2012.5.31.) 산·학 공동기술개발사업의 생산현장 애로기술 및 신기술 개발을 위한 참여 업체임을 인증합니다.
	2011년 6월 1일
	전남대학교
+	중소기업산학협력센터장 김 민 정남대학교산학협력본부장 윤 양

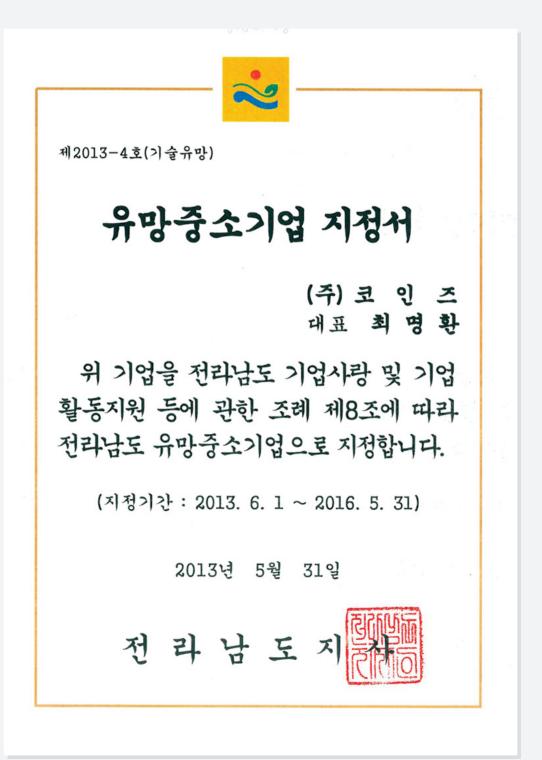


Certificate

Assignment certificate | Assigned Star company



Assignment certificate | Designated to promising S&M company



Certifica

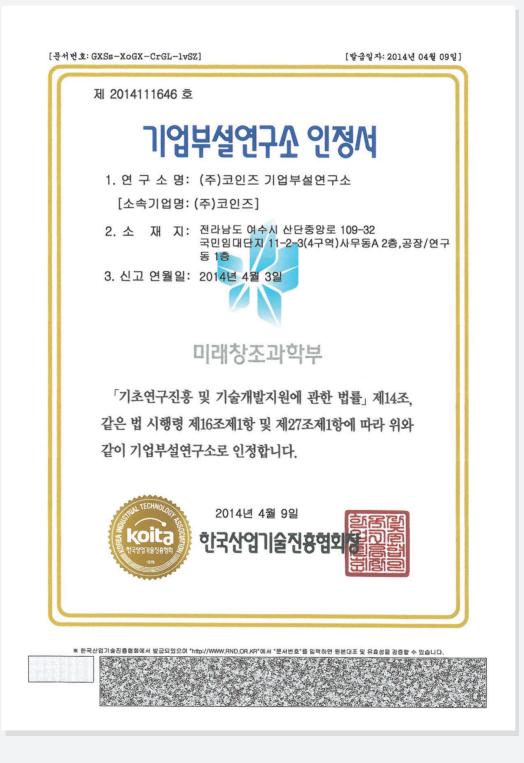


Assignment Certificate | Assigned CLEAN business field





Assignment Certificate | Assigned Reserch center





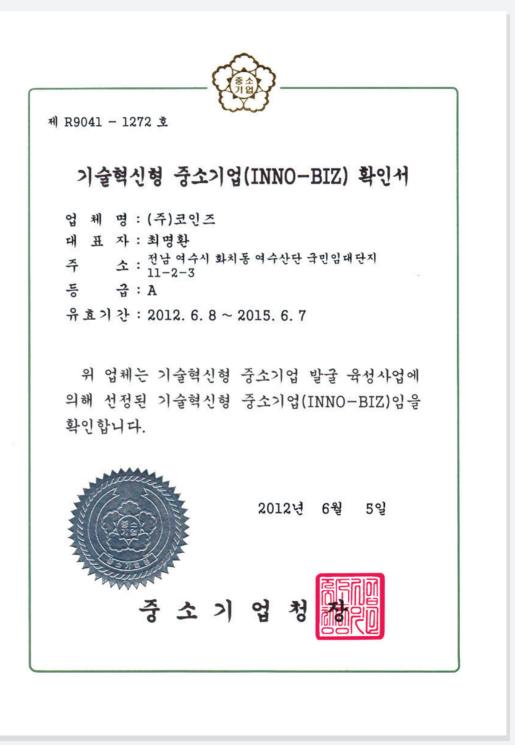
#### Certification of commendation | Selected as a green management company





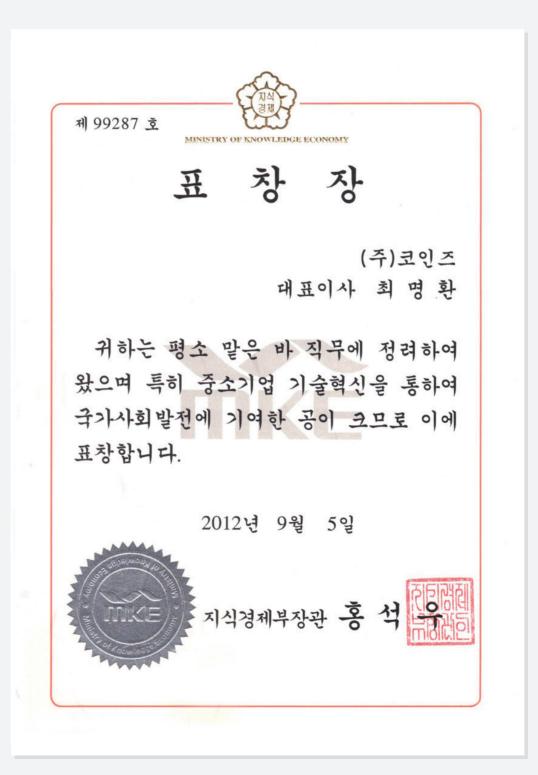
Certificate

Certification of commendation | INNO-BIZ

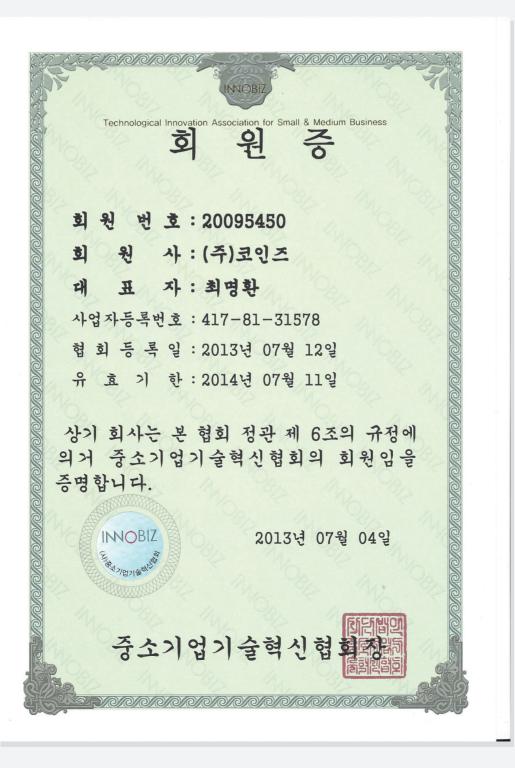


Certificat

Certification of commendation | head of Ministry of Knowledge Economy



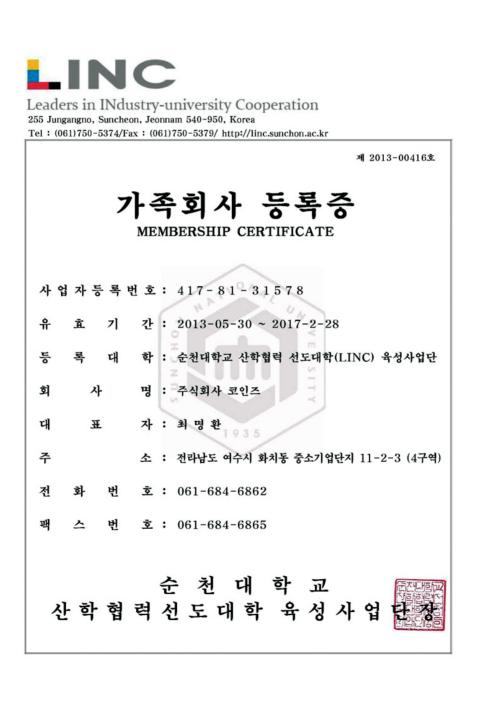
Membership certificate | Associate of S&M company technical innovation



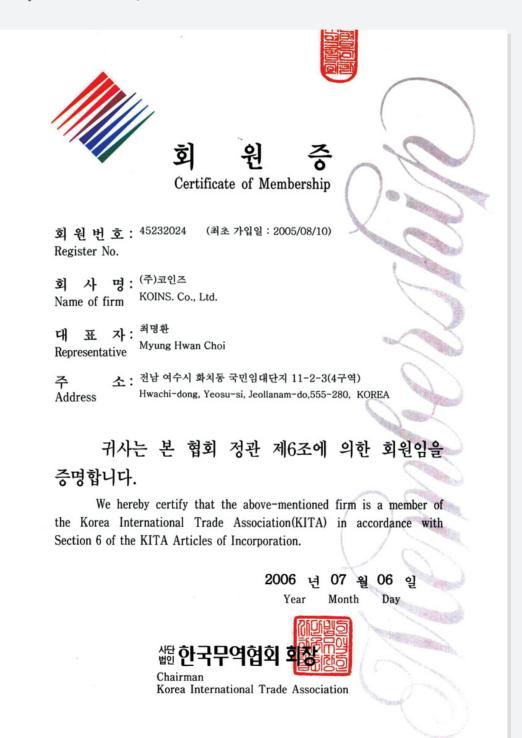
#### Membership certificate | Jeonnam University

	제2011-10호		
	회 원	] 증	•
			명 : (주)코인즈
		대표기	아:최명 환
귀기위	법은 2011	년도 전	남대학교의
산학협력	지원사업	에 참여	하여 공동
기술개발	을 수행함	으로써	전남대학교
산학협력	단 회원기	기업이 3	티었으므로
이 증서틀	는 드립니다	P.AL UN	
	2011년	6월 1일	
전남대	학교	산학협	력 단 장

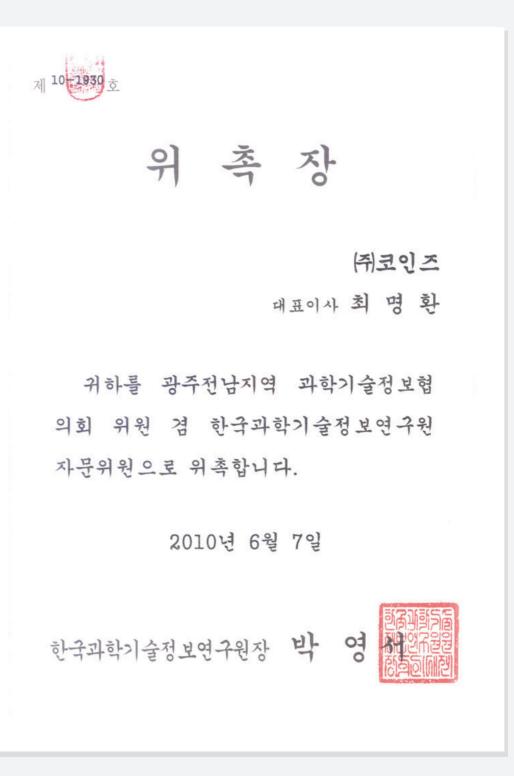
Membership certificate | LINC Family company regtistration



Membership certificate | Korea trade association



Membership certificate | Science Technology information Association for Kwangju Jeonnam

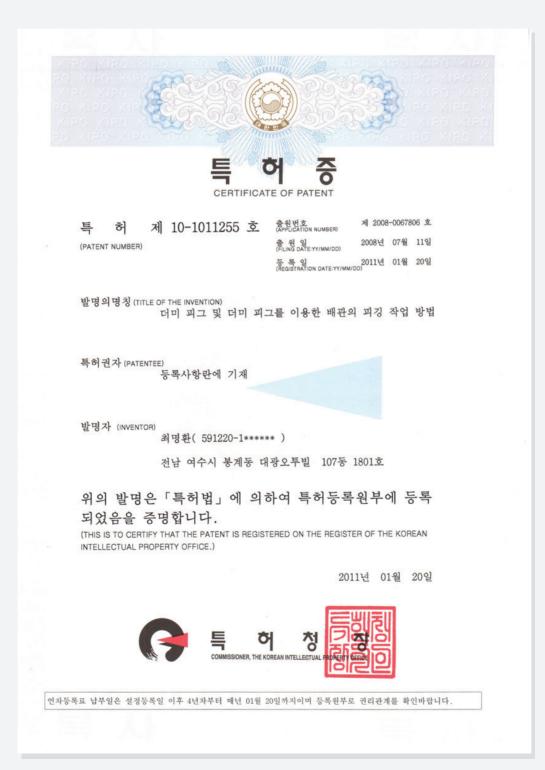


Membership certificate | Safety control center for heavy chemical utility

6

	위 촉 장		
	소 속 : (주)코인즈 직 위 : 대표이사 성 명 : 최 명 환		
귀하를 중화학설비안전진단센터에서 추진되고 있는 장비의 도입과 변경을 심의 하여 장비활용 사업이 효율적으로 집행 될 수 있도록 장비도입심의위원회 위원 으로 위촉합니다.			
	2009년 8월 14일		
	중화학설비안전진단센터형인코다 렌티펑크		

License & Patent | Patent(Dummy Pig and Pigging by dummy pig)



#### License & Patent | Certi of Utility Model Registration(Pig for Offensive ordor treatment)



License & Patent | Service mark registration (Local)



#### License & Patent | Service mark registration (India)

FORM 0-2			MARIE		
					बौच्चिक सम्पदा, भारत
		2113	सन्वमेब जबते त सरकार		Intellectual Property, India
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व्यापार चिन्ह संख्या/T	rade Mark No		Pair Data		my IN-
		2215260	दिनांक/ Date 04	10/2011	ड्या/ J.No. 1565
	ता है कि जिस प्रका	र चिन्ह की समाकृति	इसके साथ संलग्न है, व	5	
के बारे में दिनांक	•••••			नाम	से रजिस्ट्रीकृत हो चुका है।
Certified that the	Trade Mark / a	representation i	s annexed hereto,	has been register	ed in the name(s) of
KOINS CO. LTD., 11	-2-3, S&M BUSIN	ESS INDUSTRY C	OMPLEX, HWACHI-DO	NG, YEOSU-SI, JEO	OLLANAM-DO.
SOUTH KOREA, SE	RVICE PROVIDE	R, (Body Incorpora	ate)		
In Class 37	Under No.	2215260	as of the Date	04 October	in respect of
37 PLUMBING; CLEAN	ING OF PIPES F	OR WATER SUPPL	Y AND DRAINAGE; C	04 October	2011
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#### License & Patent | Service mark registration (India)



#### License & Patent | Design Registration

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등 록 제 30-0740730 호 (REGISTRATION NUMBER)	출원번호 (APPLICATION NUMBER) 출원일 (FILING DATE:YY/MM/DD) 등록일 (REGISTRATION DATE:YY/MM/DD) 등록의 구분 (TYPE OF REGISTRATION)	제 2013-0001676 호 2013년 01월 10일 2014년 04월 21일 십 사 등 록 (EXAMINED REGISTRATION)
디자인의 대상이 되는 물품 (ARTICLE THAT I 배관의 라이닝용 피그	S THE OBJECT OF THE DES	IGN)
디자인권자 (OWNER OF THE DESIGN RIGHT) 주식회사 코인즈(206211 전남 여수시 화치동 국당		*역)
창작자 (CREATOR) 허형영(630415-1****** 전라남도 여수시 소호로	-	
위의 디자인은「디자인보호법」 등록되었음을 증명합니다. (THIS IS TO CERTIFY THAT THE DESIGN IS REGIS INTELLECTUAL PROPERTY OFFICE.)		R OF THE KOREAN
COMMISSIONER, THE KOREAN	NTELLECTUAL PROPERTY ON	
견차등록료는 2017년부터 매년 04월 21일까지 납부하여야 하	며, 등록원부로 권리관계를	를 확인바랍니다.

## Record of Performance

The best partner should make a succes of your business.

#### **PIG CLEANING**

DATE	CLIENT	DSESCRIPTION
2014.05	Jeongho E&C	KNOC SMALL TANK PIG CLEANING
2014.05	YouA Construction	POSCO OXYZEN PIPELINE PIG CLEANING
2014.05	GS CALTEX	VRHCR 1TEAM 612F-301 HEATER DECOKING
2014.04	Youngjin Ind.(OKYC)	OKYC BUNKER BLENDING PIG CLEANING
2014.04	Hanhwa chemical	CL2 LINE PIG CLEANING
2014.04	Hanhwa chemical	C5 LINE PCW LINE PIG CLEANING
2014.03	Samjin	ANSAN POWER PLANT PIG CLEANING
2014.03	Hyundai Oilbank	HDO-LG PFO LINE PIG CLEANING
2014.02	Hankook Silicon	2C-903 SIDE CUT PIG CLEANING
2014.03	LG Chemical	OXO - EC 101 PIG CLEANING
2014.02	YNCC	E-BA105 CONV.FEED PREHEAT COIL PIG CLEANING
2014.02	LG Chemical	NCC-E-EA-20" XW LINE PIG CLEANING
2014.01	Daeshin Mechanic	GS CALTEX VRU PIG CLEANING
	·	
2013.12	Youill Geonyung	FG LINE MECHANICAL CLEANING
2013.12	Hyundai Oilbank	STEAM LINE PIG CLEANING
2012 12	Yoohan Tech.	

2013.12	Hyundai Oilbank	STEAM LINE PIG CLEANING
2013.12	Yoohan Tech.	NEW PIPELINE PIG CLEANING
2013.12	Jeongho E&C	NEW PIPELINE PIG CLEANING
2013.11	KPX Green chem.	FIRE PIPE PIG CLEANING & PIG LINING
2013.11	Kangwoo	KORONG UTILITY PIG CLEANING
2013.11	Youill Geonyung	YOOLCHON POWER PLANT 30" MECHANICAL TOOL CLEANING
2013.11	Hanhwa chemical	EDC SHIPMENT LINE PIG CLEANING
2013.11	LG Chemical	INDUSTRIAL WATER PIPELINE DESCALING
2013.11	LG Chemical	GAS COOLER COIL DECOKING
2013.10	YNCC	E-BA107 CONV. FEED PREHEAT COIL PIG CLEANING
2013.10	LG Chemical	VCM LINE PIG EVACUATION
2013.10	LG Chemical	INDUSTRIAL WATER PIPELINE DESCALING
2013.10	LG Chemical	OXO PLANT EC-101 FURNACE TUBE CLEANING

#### **PIG CLEANING**

DATE	CLIENT	DESCRIPTION
2013.10	KEUMHWA PSC	YOOLCHON POWER PLANT MECHANICAL TOOL CLEANING
2013.09	GS CALTEX	HMP REFORMER TUBE CLEANING
2013.09	GS CALTEX	HIGH PRESSURE STEAM LINEPIG CLEANING
2013.08	YOUNGJIN	WASTE WATER PIPELINE PIG DESCALING
2013.07	JAEILMOJIC	SM, BD, AN LINE PIG CLEANING
2013.07	KPX	FIRE PIPE DESCALING & CCTV INSPECTION
2013.06	SEONGCHANG E&C	SEJONG HEAT POWER PLANT LNG배 PIPE PIG CLEANING
2013.05	SAMSUNG ENG	MA'ADEN PROJECT PIG CLEANING & INTELLINGENT PIGGING
2013.05	YNCC	E-BA104 CONV. FEED PREHEAT COIL PIG CLEANING
2013.04	GS CALTEX	C4 TANK 1 PIG CLEANING
2013.03	SAMSUNG ENG	ALGERIA SKIKDA PROJECT HEATER TUBE DECOKING
2013.03	DAELIM INDUS.	KEUMHO YEP IV(E) YEP CLEANING
2013.03	YNCC	KPC PIGGING
2013.02	DAESIN	GS CALTEX 1AREA NEW PIPE PIG CLEANING
2013.02	YEON ENG.	DAEWOO CON. UUED&SSGGP PIG DESIGN OUTSOURCING

2012.11	HDEC	U.A.E BOROUGE3 PROJECT PIG CLEANING
2012.10	LG CHEMICAL	OXO PLANT EC-101 FURNACE TUBE CLEANING
2012.07	LG CHEMICAL	NCC-E-MP ETHYLENE SERVICE PIG CLEANING
2012.07	HYUNDAE E&C	OKYC PIG CLEANING
2012.06	WINTECH	CRUDE & PRORYLENE TANK AREA PIG CLEANING
2012.05	SEONJIN EC&T	PIGGING SYSTEM & PIG CLEANING
2012.05	LG CHEMICAL	HDPE T-601 A~G LINE PIG CLEANING
2012.04	KOREA NATIONAL OIL CORPORATION	PRODUCT PIPE PIG CLEANING
2012.02	LG CHEMICAL	GBT201 HS PIG CLEANING
2012.01	SEONGCHANG E&C	HPC EM2 PROJECT PIG CLEANING

2011.12	LG CHEMICAL	4AA PROJECT MS PIG CLEANING
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#### **PIG CLEANING**

DATE	CLIENT	DESCRIPTION
2011.12	GS CON.	GSC VGOFCC PROJECT PIG CLEANING
2011.11	GS NEOTEC.	LEESUNSIN BRIDGE PIPELINE PIG CLEANING
2011.11	HDEC	KOC1 PIPELINE PROJECT HYDROTEST 및 PIG CLEANING
2011.10	KEUMHO P&B	EBR LINE PIG CLEANING
2011.10	LG CHEMICAL	BPA OXIDIZER O <sub>2</sub> PIPE PIG CLEANING
2011.07	BYUKJIN E&C	TAIWAN FORMOSA ARO-3 PLANT TUBE DECOKING
2011.07	SOOSUNG HEAVY IND.	BUNKER-C LINE EVACUATION
2011.06	SINSIN INDUS.	PIPE EPOXY LINING
2011.06	LG CHEMICAL	VCM TUBE PIG CLEANING
2011.05	YNCC	HIGH PRESSURE PIPE PIG CLEANING
2011.04	GS NEOTECH	LEESUNSIN BRIDGE PIPE PIG CLEANING
2011.04	DONGIN PLANT	H2GAS PIPE PIG CLEANING
2011.04	DONGKANG PLANT	HUCHEMS MAIN PIPE RACK
2011.04	WOONG NAM	SEOSAN REVAMP CONSTRUCTION
2011.03	HONAM PC	NAPTHA PIPELINE PIG CLEANING

#### **INTELLIGENT PIGGING**

DATE	CLIENT	DESCRIPTION
2013.05	SAMSUNG ENG	SAUDI ARABIA(Ma'aden Rolling Company) NATURAL GAS
		PIPELINE INTELLIGENT PIGGING (20"-30km)
2011.08	KOGAS	SEOKSU~GAJWA AREA NATURAL GAS PIPELINE
		INTELLIGENT PIGGING (20"-30km)
2008.04	KOGAS	MOKDONG~HAPJEONG AREA NATURAL GAS PIPELINE
		INTELLIGENT PIGGING (20"-6.4km)

#### WATER JET CLEANING

DATE	CLIENT	DESCRIPTION
2013.08	BASF	CSL TANK CLEANING
2013.03	YNCC	NCC EA-425B TUBE CLEANING
2013.02	LG CHEMICAL	MBS:TK-5554B INSIDE CLEANING

2012.12	HANHWA CHEM	T-281-1/2 CLEANING
2012.11	LG CHEMICAL	PVC K-56 CN-9211D TUBE JET CLEANING
2012.10	LOTTE CHEMICAL	MMA EA-141 AND 1 ITEM JET CLEANING
2012.03	HONAM PC	SPP/3PP POWDER PIPE CLEANING
2012.02	LG CHEMICAL	BPA BPA2 HEAT EXCHANGER CLEANING

2011.12	HONAM PC	MMA EA-211 AND 24 ITEM JET CLEANING(I/C)-
2011.03	SAMNAM PC	AC HEAT EX CHAN GER CLEANING
2011.01	SAMNAM PC	PIPELINE CLEANING

#### **CHEMICAL CLEANING**

DATE	CLIENT	DESCRIPTION
2014	LG CHEMICAL	HEAVY PIPE CHEMICAL CLEANING
2014	LG CHEMICAL	NPG CATALYST FILTER CHEMICAL CLEANING

2013	HD STEEL	BTX HEAT EXCHANGER CHEMICAL CLEANING						
2013	KRAKATAU STEEL(INDONESIA)	BEARING, SHELL & TUBE TYPE COOLER CHEMICAL CLEANIG						
2013	DONGWON IND.	CHEMICAL CLEANING						
2013	SAMSUNG HEAVY IND.	CHEMICAL CLEANING						
2013	KOREA POWER PLANT	(CCW). 6TH. MACHINE CHEMICAL CLEANING						
2013	SINGAPORE OIL	CHLORINATION CHEMICAL CLEANING						
2013	KOREA WATER CONTROL	CHEMICAL CLEANING						

#### **CHEMICAL CLEANING**

DATE	CLIENT	DESCRIPTION
2012	HYUNDAI OIL	FIN FAN COOLER CHEMICAL CLEANING
2012	KOREA POWER PLANT	3, 4 MACHINE AIR COMP. A,B,C,D CHEMICAL CLEANING
2012	CLESTRONICS (MALAYSIA)	CHEMICAL CLEANING

#### **MANUFACTURE & ERACTION**

DATE	CLIENT	DESCRIPTION
2014	LOTTE CHEM.	LGTOYO-R-601
2014	GS CALTEX	SQ' TANK
2014	HANJOO SALT	SEA WATER TREATMENT 40" INTAKE HEAD & SLEEVE

2013	POSCO PLATEC	HEATING COIL TK-602외 8건
2013	GS CALTEX	SAND FILTER 8SET
2013	KEUMHO (YEP)	NO.1 EASMAKE-UP TANK (I.D 3,500 x 4,800 H x 6t)
2013	KEUMHO (YEP)	NO.1 DEASMAKE-UP TANK (I.D 3,500 x 4,800 H x 6t)

#### **PIGGING SYSTEM**

DATE	CLIENT	DESCRIPTION
2004	BSI Indonesia	Lube oil Pigging System, 12" x 4 sets
2006	LG CHEMICAL	Sample line Pigging System 6" x 2 sets
2011	KNOC	GASOILNE, DISEL LINE Pigging System, 24"x 4 sets
2012	SAMYANG INNOCHEM	H-PHENOL, ACETONE LINE Pigging System, 8" x 4 sets
2014	OKYC	Pigging System 10" 6 sets, 14" 4 sets, Diverter 10" 2 sets, 14" 2sets
2014	KNOC SEOSAN BRANCH	Pigging System 40" 2 sets, 16" 2 sets, 10" 2 sets
2014	HANHWA CHEMICAL	Pigging System 2" TCS LINE
2014	KNOC PYEONGTACK BRANCH	Pigging System 24" PRODUCT LINE

# **Reference** photos

MP-52-

MP-52-03

MP-52-04 프로판

MP-52-05

MP-52-11

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### **PIGGING SERVICE**



BEFORE PIG CLEANING

AFTER PIG CLEANING



BEFORE PIG DESCALING



AFTER PIG DESCALING



**BEFORE PIG DECOKING** 

AFTER PIG DECOKING

## **PIGGING SERVICE**





**PIG EVACUATION** 

**PIG EVACUATION** 



**PIG LINING** 



**PIG LINING** 



INTELLIGENT PIGGING

INTELLIGENT PIGGING

## **PIGGING SERVICE**



PIGGING SYSTEM

PIGGING SYSTEM



FOREIGN CONTAMINENT



FOREIGN CONTAMINENT



FOREIGN CONTAMINENT

DUST & RUST

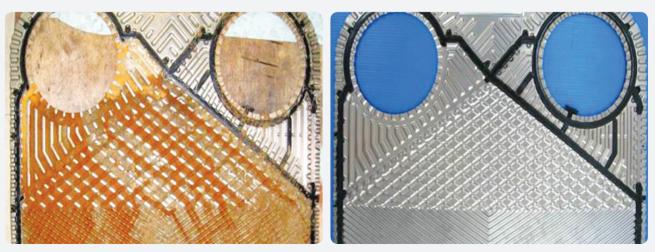
## **CHEMICAL CLEANING**



BEFORE & AFTER DOUBLE PIPELINE COOLING WATER LINE CHEMICAL CLEANING



BEFORE & AFTER AIR FIN FAN COOLER CHEMICAL CLEANING

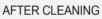


BEFORE & AFTER PLATE HEAT EXCHANGER CHEMICAL CLEANING

## WATER JET CLEANING

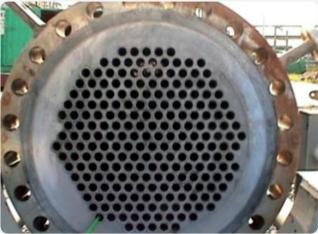


**BEFORE CLEANING** 

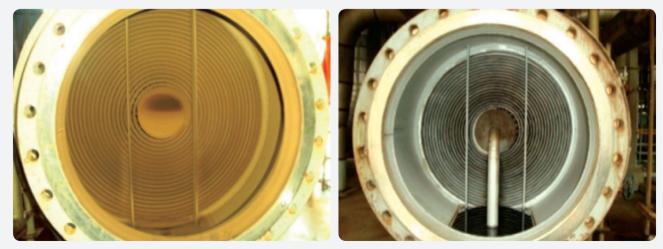




**BEFORE CLEANING** 



AFTER CLEANING



**BEFORE CLEANING** 

AFTER CLEANING

## **FABRICATION & ERACTION**



MUSH ROOM

REACTOR



FLARE STACK



TANK ERACTION



TOWER ERACTION

AIR PREHEATER ERACTION

•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•												
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