

The best partner for you

# KEUMDUK PUMP INDUSTRIAL Co., Ltd.



공작기계, 디지털 및 초음파 유량계, 디지털 입력계, 가압식 밀폐탱크, 6m 길이의 수조 등 최고 수준의 장비와 엄격한 품질관리를 통해 신뢰할 수 있는 제품을 생산하고 있습니다.



# INTRODUCTION

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- Company Name : KEUMDUKPUMP INDUSTRIAL Co., Ltd
- CEO : Gil-Seon Lee
- Address : 24, Aegibong-ro 662 beon-gil, Tongjin-eup, Gimpo-si, Gyeonggi-do, Korea
- Established : August 1, 1998
- Employees : 38 people (01.2018)
- Credit Rating : BB+ (Korea company data)
- Capital : 250 million won
- Homepage : [www.keumduk.com](http://www.keumduk.com)
- Tel No. : +82-31-983-6881
- Fax No. : +82-31-983-6810



# HISTORY

- 1998. 08 : Founded (Banghwadong, Gangseo-gu, Seoul)
- 2000. 01 : Incorporated Keumduk Pump Industrial co.,Ltd
- 2007. 01 : Remove to Bucheon Si Wonmi-gu, Gyeonggi-Do
- 2009. 01 : Registered the Factory in Bucheon
- 2011. 05 : Completed GIMPO Factory
- 2011. 05 : Started centrifugal pump planning and production
- 2011. 10 : Acquired ISO9001 Quality System Certificate
- 2011. 10 : Acquired R & D Department Certificate
- 2012. 07 : KCCI Certified Clean Plant  
(Korea Chamber of Commerce & Industry)
- 2012. 09 : Participated in Korea Precision Machinery Exhibition
- 2012. 12 : The Korea Chamber of Commerce & Industry award
- 2013. 01 : Acquired GL Certificate (Germanischer Lloyd) (High-Ballast Pump)
- 2013. 05 : Acquired CE Certificate (Communaute Europeenne) [KDW, KVS]
- 2013. 11 : Registered SAUDI ELECTRICITY COMPANY
- 2014. 07 : Acquired CE Certificate (Communaute Europeenne) [KAP8x6-13]
- 2015. 05 : Enlarged Company
- 2015. 12 : Export tower of 5 million dollars Award
- 2015. 12 : Acquired OHSAS18001 Certificate
- 2015. 12 : Acquired ISO14001 Certificate
- 2016. 01 : Acquired CE Certificate(5 Models of Pump)
- 2016. 02 : Acquired Manufacturing certificate
- 2016. 10 : Gyeonggi-do Promising Small and Medium Enterprise Selection
- 2017. 06 : Acquired ATEX Explosion Proof Certificate(Submersible Pump)
- 2017. 08 : Signed Strategic Cooperation Agreement with SCHLUMBERGER
- 2017. 08 : Acquired KS Certificate(Double-suction Volute Pump)
- 2017. 12 : Acquired IECEX Explosion Proof Certificate(Submersible Mixer)
- 2018.02 : Acquired KGS Explosion Proof Certificate(Submersible Mixer)
- 2018.05 : Acquired KS Certificate(Submersible Pump)



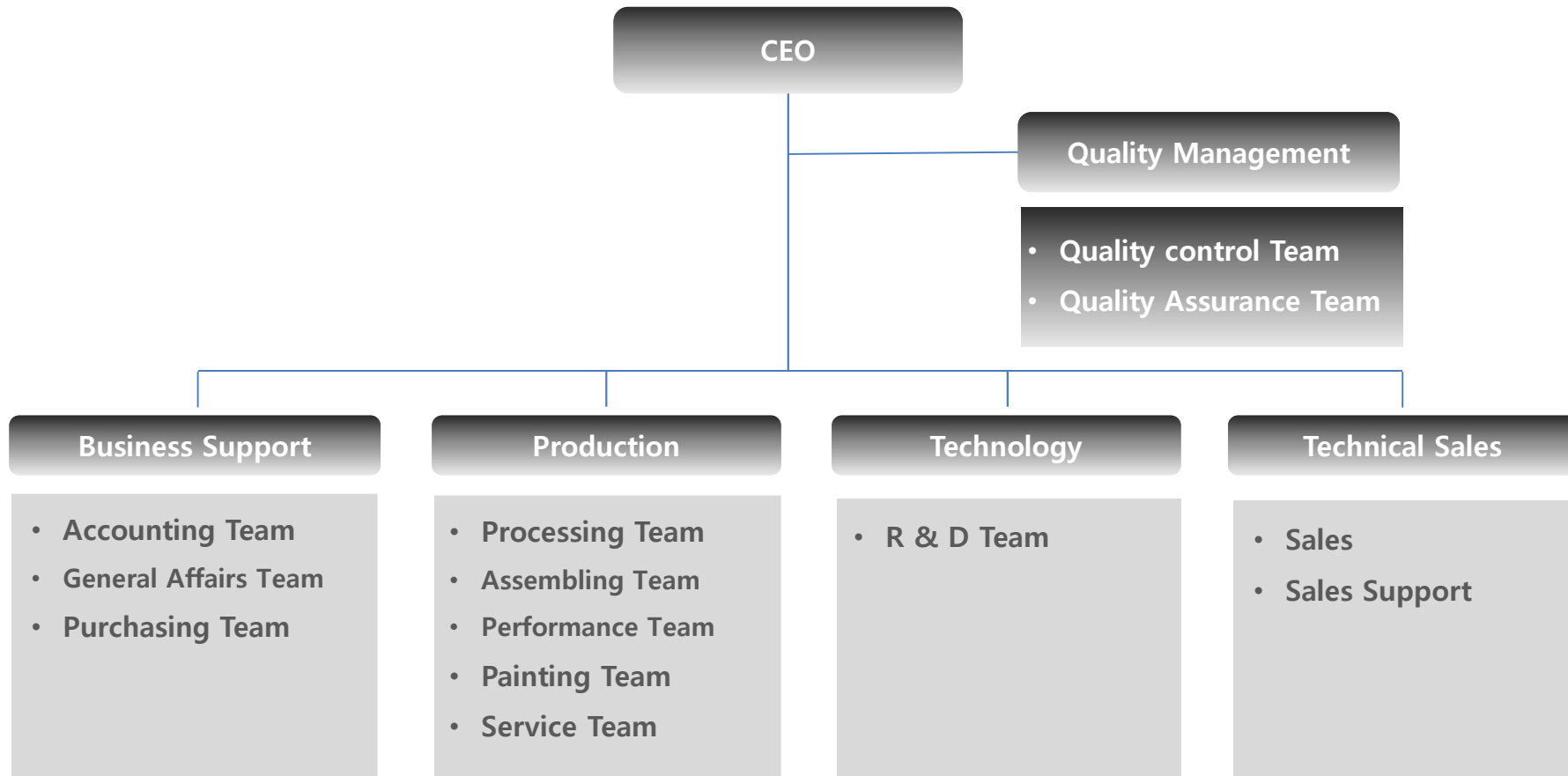
# HISTORY - REGISTERED

- 1998. 09 : Hyundai Mobis
- 1998. 09 : Hynix
- 1998. 09 : DaeWoo E&C
- 2000. 05 : Hyundai heavy
- 2007. 07 : Hyundai eng/ Hyundai E&C/ Hanhwa E&C
- 2008. 03 : SK E&C / GS E&C
- 2009. 06 : SK Energy
- 2012. 08 : HYUNDAI Heavy Industries.
- 2012. 11 : SK Innovation
- 2013. 01 : KOREA SOUTH-EAST POWER CO.
- 2013. 04 : KOREA SOUTHERN POWER CO.
- 2013. 04 : KOREA WESTERN POWER CO.
- 2013. 01 : SAMSUNG C&T corporation
- 2013. 11 : SAUDI ELECTRICITY COMPANY
- 2014. 04 : SAMSUNG ENG.
- 2014. 04 : POSCO ENG.
- 2015. 10 : POSCO
- 2016. 06 : DOOSAN Heavy Industries & Construction
- 2016. 11 : HANJIN HEAVY INDUSTRY
- 2016. 12 : POSCO E&C



# ORGANIZATION

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# ENLARGEMENT FOR COMPANY





# TECHNOLOGY

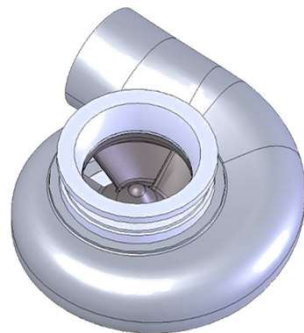
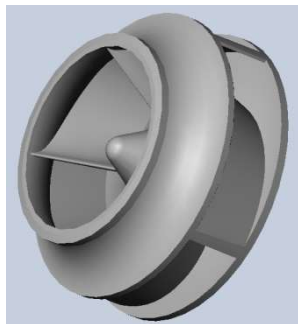
To realize the value of technology and nurture a talent KEUMDUK PUMP IND. improves the technology and quality of the pump through the R & D Department, sustainable R&D, development of new technologies has laid the groundwork.

Also, The only domestic ANSI, ISO, and API610 Of the submersible pump from the pump for land Directly , from design and production to the domestic Beyond being exported all over the world

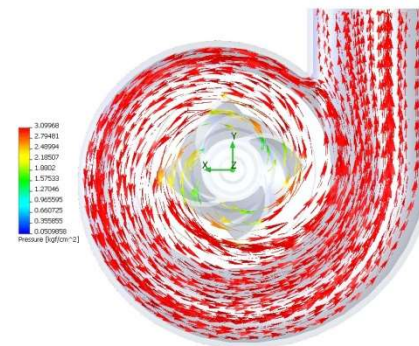
R & D Department Certificate



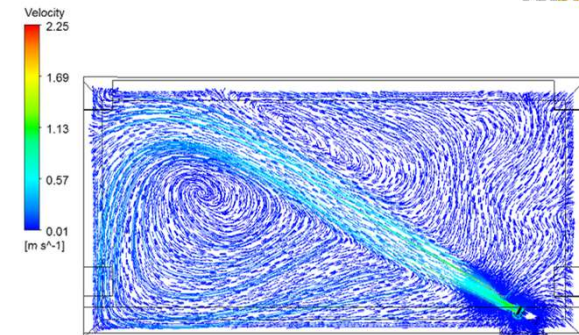
Casing & Impeller 3D Modeling Design



Centrifugal Pump floating analysis



Submersible Mixer floating analysis



# PRODUCTION DEPARTMENT

| FACILITIES EQUIPMENT           |
|--------------------------------|
| lathe                          |
| Radial drill press             |
| Planer                         |
| Hydraulic linkage              |
| Drill press                    |
| Hoist                          |
| Manual Nameplate writing       |
| Vacuum pump                    |
| Grinder                        |
| Compressor                     |
| Wet vibration pump             |
| Test facility                  |
| Test System (Circulation Tank) |
| Chain block                    |
| Pressure tester                |
| Cutting machine                |
| Fork lift                      |
| Air Compressor                 |
| Pipe Threading Machine         |
| Auto Nameplate writing         |
| Radial drill M/C               |

- Management of production
- Assembly team - Centrifugal Pump Part  
- Submersible Pump Part
- Painting, Welding team
- Maintenance team



공작기계, 디지털 및 초음파 유량계, 디지털 압력계, 가압식 밀폐탱크, 6m깊이의 수조 등 최고 수준의 장비와 엄격한 품질관리를 통해 신뢰할 수 있는 제품을 생산하고 있습니다



# QUALITY MANAGEMENT

| Test Equipment           |
|--------------------------|
| Pressure gauge           |
| Digital Pressure Gauge   |
| Tacho Meter              |
| Vibration Meter          |
| Coating Thickness Tester |
| Infrared Thermometer     |
| Puncture Tester          |
| Sound Level Meter        |
| Dial Vacuum Gauge        |
| Insulation Tester        |
| True RMS Clamp Meter     |
| Dial Vacuum Gauge        |
| Tachometer               |
| Magnetic flow meter      |
| Ultrasonic flowmeter     |
| Digital calipers         |
| Micro Meter              |
| Cylinder gauge           |

- High Voltage Inverter : 1,270kW x 6,600V
- Low Voltage Inverter : 220kW x 480V
- Pit Size : 15,000W x 10,000L x 7,000H
- NPSHre Test
  - Suction Tank : 40 ton
  - Vacuum Pump : 10HP
- Hydro Test : Max. 200bar
- **AUTO PROGRAM&DISPLAY SYSTEM**
- **PERFORMANCE & M.RUNNING TEST**



공작기계, 디지털 및 초음파 유량계, 디지털 압력계, 가압식 밀폐탱크, 6m깊이의 수조 등 최고 수준의 장비와 엄격한 품질관리를 통해 신뢰할 수 있는 제품을 생산하고 있습니다

# PRODUCTS

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**KAP** ANSI B73.1M Std.  
Horizontal Centrifugal



**KAPI** API610-OH2 Std.  
Center-Line Mount



**KLP** Vertical  
In-Line Pump



**KIP** ISO5199 Std.  
Horizontal Centrifugal



**KDR** API610-BB1 Std.  
Double Suction



**KVP** API610-VS4  
Vertical Pit Pump



**KSP** ANSI B73.1M Std.  
Self-Priming Centrifugal



**KMT** API610-BB4 Std.  
Multi-Stage Turbine



**KVMT** Vertical  
Multi-Stage Pump



# PRODUCTS

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**KFP** FRP Horizontal Centrifugal  
(Fiber -glass Resin Plastic)



**KWM** Non-Clog  
Abrasive Slurry Pump



**KVM** API610-VS1 & VS6  
Single & Double Casing



**KDW...** Semi-Open  
**KDW-Ex**  
... ATEX Explosion proof  
**KDS...** Non-Clog  
**KDV...** Vortex  
**KDG...** Grinder



Grinder



**KDH** Submersible Pump  
Hi-Pressure Pump



**KDM** Submersible Mixer





# CERTIFICATON

## CERTIFICATE

QUALITY MANAGEMENT SYSTEM

**Korean Foundation for Quality**

Registration Date 2016-02-24  
 Expiration Date 2017-09-10  
 Initial Registration Date 2016-02-24  
 Revision Date 2016-02-24  
 Certificate Number AC-06162 -( 00 )

**Keumduk Pump Industrial Co., Ltd.**  
 24, Aegibong-ro 662beon-gil, Tongjin-eup, Gimpo-si, Gyeonggi-do, Korea (Zip code : 10010)

*Korean Foundation for Quality certifies that The Quality Management System of the above organization has been audited and has complied with the requirements of the following standard*

Standard **ISO 9001:2008/KS Q ISO 9001:2009**

Scope of certification  
 DESIGN, DEVELOPMENT, MANUFACTURE AND MAINTENANCE OF PUMP AND MIXER

*Raehyun Nam*  
 President & CEO of Kfq

The use of Accreditation Mark indicates accreditation in respect of those activities covered by the KAB Accreditation Certificate Number KAB0001  
 www.kfq.or.kr  
 13F, Woolim Lion's Valley Bldg. B. 168, Gasan digital 1-ro, Guro-gu, Seoul, 152-786, Korea

## CERTIFICATE

ENVIRONMENTAL MANAGEMENT SYSTEM

**Korean Foundation for Quality**

Registration Date 2015-12-24  
 Expiration Date 2018-12-14  
 Initial Registration Date 2015-12-24  
 Revision Date 2015-12-24  
 Certificate Number EAC-06126 -( 00 )

**Keumduk Pump Industrial Co., LTD.**  
 24, Aegibong-ro 662beon-gil, Tongjin-eup, Gimpo-si, Gyeonggi-do, Korea (Zip code : 10010)

*Korean Foundation for Quality certifies that The Environmental Management System of the above organization has been audited and has complied with the requirements of the following standard*

Standard **ISO 14001:2004/KS I ISO 14001:2009**

Scope of certification  
 DESIGN, MANUFACTURE, SALES AND MAINTENANCE OF PUMP AND SUBMERSIBLE MIXER

*Raehyun Nam*  
 President & CEO of Kfq

The use of Accreditation Mark indicates accreditation in respect of those activities covered by the KAB Accreditation Certificate Number KAB0001  
 www.kfq.or.kr  
 13F, Woolim Lion's Valley Bldg. B. 168, Gasan digital 1-ro, Guro-gu, Seoul, 152-786, Korea

## CERTIFICATE

OCCUPATIONAL HEALTH AND SAFETY MANAGEMENT SYSTEM

**Korean Foundation for Quality**

Registration Date 2015-12-24  
 Expiration Date 2018-12-23  
 Initial Registration Date 2015-12-24  
 Revision Date 2015-12-24  
 Certificate Number SAC-06127 -( 00 )

**Keumduk Pump Industrial Co., LTD.**  
 24, Aegibong-ro 662beon-gil, Tongjin-eup, Gimpo-si, Gyeonggi-do, Korea (Zip code : 10010)

*Korean Foundation for Quality certifies that The Occupational Health and Safety Management System of the above organization has been audited and has complied with the requirements of the following standard*

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

Scope of certification  
 DESIGN, MANUFACTURE, SALES AND MAINTENANCE OF PUMP AND SUBMERSIBLE MIXER

*Raehyun Nam*  
 President & CEO of Kfq

The use of Accreditation Mark indicates accreditation in respect of those activities covered by the KAB Accreditation Certificate Number KAB0001  
 www.kfq.or.kr  
 13F, Woolim Lion's Valley Bldg. B. 168, Gasan digital 1-ro, Guro-gu, Seoul, 152-786, Korea

# CERTIFICATON

Generation Projects Engineering Department

Tel: 01-494-7040  
 Fax: 01-494-7101  
 Email: GEPENMG@se.com.sa



Date : 21/11/2013 Ref # 12015001 - 13

To : Keumduk Pump Industrial Co. Ltd.  
 Korea

Attn. : Mr. Lee Gil Sun  
 Fax : +82 31 983 6880  
 Phone : +82 31 945 9231  
 E-mail : [Keumduk@Keumduk.com](mailto:Keumduk@Keumduk.com)

CC: Vendors Affairs & Support Div. Mgr ([PRCVSDV@se.com.sa](mailto:PRCVSDV@se.com.sa))

**Subject : Keumduk Pump Industrial Prequalification Request**

Reference to the above mentioned subject, Saudi Electricity Company is pleased to inform you that, the prequalification request of **Keumduk Pump Industrial Co. Ltd. - Korea** as a manufacturer is technically acceptable to Saudi Electricity Company, Generation Engineering and Projects Sector for the following products:

| No. | Description      | Limitations   |
|-----|------------------|---|
| 1   | Submersible Pump | Maximum capacity 2000 m3/hr,<br>Discharge nozzle size 50mm to 500mm<br>Motor power 500kW max. |

Note: The financial and commercial qualification to be completed with Vendors Affairs & Support Division/ Materials Sector.

Best regards,



Abdulrahim N. AlHarbi  
 Acting Department Manager  
 Generation Projects Engineering

Form 7-6-e



Registration for SEC

# CERTIFICATON

Issue NO.F3F7-5306-42BB-888D-763B

## CERTIFICATION OF A QUALIFIED SUPPLIER

Registration Number : EASYU2016-02562  
 Company Name :  
 Factory Address : 24,Aegibong-ro 662 beon-gil, Tongjin-eup, Gimpo-si, Gyeonggi-do, Korea  
 Item : General Centrifugal Pump(400HP~ 1000HP)  
 Period of Validity : 2016-06-29 ~ 2019-06-28  
 Remarks :



This is to certify that the above-mentioned companies have been registered as the qualified supplier of KOSPO, KOWEPO, KOMIPO, EWP, KOSEP for the listed items according to the standard for integrated management of material & equipment supplier.

2016. 06. 30

 KOREA SOUTHERN POWER CO., LTD.  
 KOREA MIDLAND POWER CO., LTD.  
 KOEN KOREA SOUTH-EAST POWER CO.

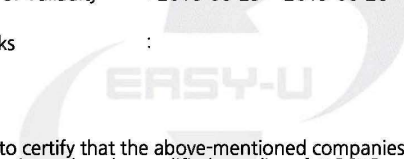
 KOREA EAST-WEST POWER CO., LTD.  
 KOREA WESTERN POWER CO., LTD.

\* This document is issued from website. you can verify this document [easyu.kospo.co.kr](http://easyu.kospo.co.kr) by the issue number.

Issue NO.4670-3857-48CE-9A9D-8444


## CERTIFICATION OF A QUALIFIED SUPPLIER



Registration Number : EASYU2016-02563  
 Company Name :  
 Factory Address : 24,Aegibong-ro 662 beon-gil, Tongjin-eup, Gimpo-si, Gyeonggi-do, Korea  
 Item : General Centrifugal Pump(~400HP)  
 Period of Validity : 2016-06-29 ~ 2019-06-28  
 Remarks :



This is to certify that the above-mentioned companies have been registered as the qualified supplier of KOSPO, KOWEPO, KOMIPO, EWP, KOSEP for the listed items according to the standard for integrated management of material & equipment supplier.

2016. 06. 30

 KOREA SOUTHERN POWER CO., LTD.  
 KOREA MIDLAND POWER CO., LTD.  
 KOEN KOREA SOUTH-EAST POWER CO.

 KOREA EAST-WEST POWER CO., LTD.  
 KOREA WESTERN POWER CO., LTD.

\* This document is issued from website. you can verify this document [easyu.kospo.co.kr](http://easyu.kospo.co.kr) by the issue number.



# CERTIFICATON

## Test Certificate for Pumps



Certificate No.: 10082 BUN  
Page 1 of 2

**General Data** Keumduk Pump Industrial Co., Ltd., Gimpo-si, Republic of Korea

Manufacturer: Gimpo  
Date of test: 2013-01-08

**Technical Data** 2 pc(s) Self priming pump

Quantity: 2  
Description: Self priming pump  
Service: Water  
Medium: Medium  
KSP2 x 2-10S  
12120935, 12120936  
Type: Serial no.  
3.7 kW - kW 1742 min<sup>-1</sup>  
Motor power Necessary power of pump Speed of rotation  
12 m<sup>3</sup>/h 15  
Capacity Delivery head/m

| Materials | Item | Material grade |
|-----------|------|----------------|
| Casing    |      | BC8            |
| Impeller  |      | BC8            |
| Shaft     |      | SUS304         |

**Workmanship** Satisfactory

**Tests** 2.5 bar

Hydr. pressure test

| Serial no. | Medium pumped | Necessary power of pump | Speed of rotation      | Capacity                | Delivery head/m |
|------------|---------------|-------------------------|------------------------|-------------------------|-----------------|
| 12120935   | Water         | 2.37 kW                 | 1741 min <sup>-1</sup> | 12.12 m <sup>3</sup> /h | 15.1            |
| 12120936   | Water         | 2.28 kW                 | 1742 min <sup>-1</sup> | 12.78 m <sup>3</sup> /h | 15.3            |

**Remarks**

Certificate No.: 10082 BUN  
Page 2 of 2

**Additional Statements**

Hyundai Heavy Industries Co., Ltd.

Intended for

Continue intended for

H0814H2615

Customer order no.

Manufacturer order no.

10082 BUN

TP 2.5 bar

01

13

Stamping

We hereby certify that the pump(s) described above was (were) tested under supervision of our surveyor.

Seoul, 2013-01-14

Place / Date



Gyeong Tae Seog

Signature of GL Surveyor

1987

### DECLARATION OF CONFORMITY

According to Directive 2006/42/EC-Annex II A

We, **KEUMDUK Pump Industrial Co., Ltd.**  
24, Anghong-ro, 662 beon-gil, Tongjin-eup, Gimpo-si, Gyeonggi-do, Korea

**declare under our sole responsibility that the product :**

**Product :** Liquid Pump and Liquid Pump Controller  
(Sump Pump and Sump Pump Controller)

**Model/Type :** 01-03GMB19/20AP001, 01-03GMB17/18AP001, 01-03GMB15/16AP001, 01-03GMB13/14AP001, 01-03GMB11/12AP001, 00GMB41AP001, 00GMB42AP001, 01-03GMB21/22AP001, 00GMB11/14AP001, 00GMB15/16AP001, 00GMB17/18AP001, 00GMB25/26AP001, 00GMB27/28AP001, 00GMB29/30AP001, 00GMB35/36AP001, 00GMB43/44AP001, 00GMB45/46AP001, 00GMB47/48AP001, 00GMB49/50AP001

**to which this declaration relates is in conformity with the following standards or other normative documents :**

- EN ISO 12100:2010
- Safety of machinery - General principles for design Risk assessment and risk reduction(ISO 12100:2010)
- EN 60204-1:2006/A1:2009
- Safety of machinery - Electrical equipment of machines Part 1: General requirements
- EN 899:1998+A1:2009
- Pumps and pump units for liquids. Common safety requirements
- EN 12162:2001+A1:2009
- Liquid pumps. Safety requirements. Procedure for hydrostatic testing

**following the provisions of Directives :**

2006/42/EC  
Directive 2006/42/EC of The European Parliament and of The Council of 17 May 2006 on Machinery

KEUMDUK PUMP IND. CO., LTD.  
*Gil Seon Lee*  
PRESIDENT Gilseon Lee  
signature

Gyeonggi-do, Korea May 28, 2013

... Year CE marking was first affixed to declared product in 2013...

# CERTIFICATON

www.mis.gov.kr 국세청

( 1 / 1 )

|   |  |  |                           |
|---|--|--|---------------------------|
| 발급번호<br>Issuance number                                 | 사업자등록증명<br>Certificate of Business Registration<br>(법인사업자)<br>(Corporate Taxpayer)   |  | 처리기간<br>Processing period |
| 5664-827-5181-676                                       |  |  | 즉시<br>Immediately         |
| 상호(법인명)<br>Name of company                              | 금덕펌프산업(주)<br>KEUMDUK PUMP IND.CO.LTD   |  |                           |
| 사업자등록번호<br>Business registration number                 | 109-81-61093   |  |                           |
| 성명(대표자)<br>Name of representative                       | 이길선<br>LEE GIL SUN   |  |                           |
| 주민(법인)등록번호<br>Resident(Corporation) registration number | 110111-1832214   |  |                           |
| 사업장소재지<br>Address                                       | 경기도 김포시 통진읍 귀전리 20-1 (애기봉로662번길 24)<br>Aegibong-Ro 662, 24, 20-1, Gwijeon-ri, Tongjin-eup, Gimpo-si, Gyeonggi-do           |  |                           |
| 영업일<br>Date of business commencement                    | 2000년(Year) 01월(Month) 01일(Day)  |  |                           |
| 사업자등록일<br>Date of business registration                 | 2000년(Year) 01월(Month) 03일(Day)  |  |                           |
| 업태<br>Business type                                     | -도매/제조<br>Wholesale and retail trade/Manufacturing   |  |                           |
| 종목<br>Business item                                     | 펌프, 수처리기계<br>Wholesale of Other Machinery and Equipment n.e.c. (Pump)<br>펌프, 수처리기계<br>Manufacture of Fluid Power Equipment |  |                           |
| 공동사업자<br>Joint business owner                           | 성명(법인명)<br>Name(Name of company)   | 주민(사업자)등록번호<br>Resident(Business) registration no. |                           |
|   | 해당사항 없습니다 (No Data)  |  |                           |
| 접수번호<br>Receipt No.                                     | 500425208651   | 위와 같이 증명합니다.<br>We hereby certify the above.       |                           |
| 담당부서<br>Department                                      | 민원봉사실<br>Taxpayer Service Center   | 2016년 6월 28일<br>Year Month Day                     |                           |
| 담당자<br>Staff in Charge                                  | 김정수<br>Kim Jeong Soo   | 김포세무서<br>Head of Gimpo District Tax Office         |                           |
| 연락처<br>Telephone No.                                    | 031-980-3502   |  |                           |



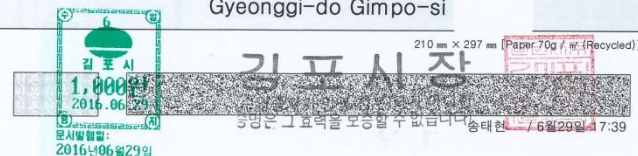
\* 본 증명은 국세청 홈택스(www.hometax.go.kr)에서 「민원증명 원본확인」 메뉴를 통해 문서발급번호로 위·변조 여부를 확인하거나, 문서 하단의 바코드로 확인해 주십시오. 다만 문서발급번호를 통한 확인은 발급일로부터 90일까지 가능합니다.  
\* 본 증명은 홈택스(www.hometax.go.kr)내민원 온라인 서비스를 통해 발급된 증명서입니다.

Form No. 8-2 Also available online: www.femis.go.kr

## Plant Registration Certification Form

|  |   |  |                           |                          |                          |
|--|---|--|---------------------------|--------------------------|--------------------------|
| Reference No.  | Date Received   | Processing Time                            | Immediate                 |                          |                          |
| Company Information  | Name of Company   | Tel.                                       |                           |                          |                          |
|  | KEUMDUK PUMP IND.CO.,LTD  | (Tel : ( 031 ) 983-6881)                   |                           |                          |                          |
|  | Name of Chairperson   | Date of Birth (Corporate Registration No.) |                           |                          |                          |
|  | LEE GIL SUN   | 110111-1832214                             |                           |                          |                          |
| Plant Information  | Address of Chairperson (Address of Company)                     |  |                           |                          |                          |
|  | 24, Aegibong-ro 662beon-gil, Tongjin-eup, Gimpo-si, Gyeonggi-do |  |                           |                          |                          |
|  | Address of Plant  | Land Category                              | Property Status           |                          |                          |
|  | 24, Aegibong-ro 662beon-gil, Tongjin-eup, Gimpo-si, Gyeonggi-do |  | Owned [✓] , Rented [ ]    |                          |                          |
|  | Plant Registration Date   | Start Date of Business                     | No. of Employees          |                          |                          |
|  | 2011-08-24  |  | Male: 28 Female: 6        |                          |                          |
| Business Line (Classification Code)  |   |  |                           |                          |                          |
| Manufacture of Pumps for Liquids   |   |  |                           |                          |                          |
| Area of Site   |   |  | Area of Manufacturing     | Area of Other Facilities |                          |
| 29131  |   |  | 10,819,000 m <sup>2</sup> | 1,800,000 m <sup>2</sup> | 1,347,460 m <sup>2</sup> |
| Registration Conditions  |   |  |                           |                          |                          |
| Changes (Including Dates)  |   |  |                           |                          |                          |
| I hereby apply for a Plant Registration Certificate in accordance with Article 12-3 of the Industrial Cluster Development and Factory Establishment Act. |   |  |                           |                          |                          |
| 2016 Year 6 Month 29 Day   |   |  |                           |                          |                          |
| Applicant KEUMDUK PUMP IND.CO.,LTD (Signature or Stamp)  |   |  |                           |                          |                          |
| To Gyeonggi-do Gimpo-si  |   |  |                           |                          |                          |

|  |              |                |        |
|--|--------------|----------------|--------|
| Required Documents   | Not Required | Service Charge | ₩ 1000 |
| I hereby certify that the above plant is registered in accordance with Article 16-1/16-2/16-3 of the Industrial Cluster Development and Factory Establishment Act. |              |                |        |
| 2016 Year 6 Month 29 Day   |              |                |        |
| Gyeonggi-do Gimpo-si   |              |                |        |



# CERTIFICATON

제2016-109호



## 경기도 유망중소기업 인증서

금덕펌프산업(주)

인증기간: 2016. 10. 4 ~ 2021. 10. 3

귀 업체를 2016년도 경기도 유망중소기업으로 선정하였기에 인증서를 교부합니다.

2016년 10월 4일

경기도지사



Certificate of promising small business of Gyeonggi-do

The Best Value

제 2011151371 호

### 연구개발전담부서인정서

- 전담부서명: 기술개발팀  
[소속기업명: 금덕펌프산업(주)]
- 소재지: 경기 김포시 통진읍 귀전리 20-1 1층
- 신고 연월일: 2011년 10월 14일

「기초연구진흥 및 기술개발지원에 관한 법률」 제14조 및 같은 법 시행령 제16조제2항과 제27조제1항의 규정에 의하여 위와 같이 기업의 연구개발전담부서로 인정합니다.

2011년 10월 19일

서단 한국산업기술진흥법

Certificate of R&D department

인정번호: 제 65908 호

## CLEAN 사업장 인정서

사업자명: 금덕펌프산업(주)  
대표자: 이길선  
소재지: 경기 김포시 통진읍 예기봉로662번길 24 금덕펌프산업(주)  
인정일자: 2016년 7월 18일 (유효기간: 인정일로부터 3년)

귀 사업장을 안전하고 쾌적한 'CLEAN 사업장'으로 인정합니다.

2016년 7월 18일

고용노동부장관

한국산업안전보건공단 이사장

발급사유: 재인정 최초인정일: 2012년 7월 11일

Certificate of Clean Place of Business



# CERTIFICATON

제2016 - 13호

## 인 증 서

회 사 명 : 금덕펌프산업(주)  
 소 재 지 : 김포시  
 대 표 자 : 이길선  
 인증기간 : 2016. 6.16. ~ 2018. 6.15.

귀 회사는 근로자 복지향상과 일자리 창출에 기여하였기에 2016년도 경기도 일자리우수 기업으로 선정합니다.

Certificate of Excellent Company for Jobs

[별지 제3호서식]

제 2016-0153-00001 호

### 직접생산확인증명서

○ 산 업 군 : 기계  
 ○ 제 품 명 : 로터펌프(발전용 및 LNG용 제외 단,농업용은 포함) (농업용은 포함)  
**\* 동 제품의 직접생산 가능범위 : 불임의 세부품명별 '필수특이사항'에 따름**  
 ○ 생 산 업 체 명 : 금덕펌프산업(주)  
 ○ 사 업 자 번 호 : 109-81-61093  
 ○ 대 표 자 성 명 : 이길선  
 ○ 소 제 지 (본 사) : 경기도 김포시 통진읍 예기봉로662번길 24  
 (공장1) : [109-81-61093] 경기도 김포시 통진읍 예기봉로662번길 24

○ 유효 기 간 : **\* 불임의 세부품명별 유효기간 참조**

「중소기업제품 구매촉진 및 판로지원에 관한 법률」 제9조제4항 본문 및 같은 법 시행규칙 제5조제3항에 따라 위와 같이 직접생산을 증명합니다.

출력일자 : 2016년 02월 11일

중소기업중앙회

- ★ 유의사항(행정조치)
- ① 화질생산제품, 환경중에 타사상표 부착제품, 대기질제품, 해외 수입환경품 납품금지 (위반시, 모든 중소기업제품 직접생산확인 취소 및 6개월간 재신청 금지)
- ② 생산선비의 임대, 배각 등으로 직접생산확인기준 미충족 시 증명서 발급 (이 반납시, 해당제품 직접생산확인 취소 및 6개월간 재신청 금지)
- ③ 직접생산확인받은 제품의 이전 시 30일 이내 증명서 반납
- ④ 이 증명서는 중소기업제품 구매촉진정보망(www.smpg.go.kr)을 통해 출력(2016-02-11 15:33)한 증명서로서 증명정보에서 전위여부를 확인하실 수 있습니다.

Direct Production Certification

No. 2016 - 13

## Certificate of Merit

Presented to

### KEUMDUK PUMP INDUSTRIAL CO.,LTD.

In recognition of valuable contributions to creating employment and a superior work environment, this certificate is hereby presented to the recipient named above.

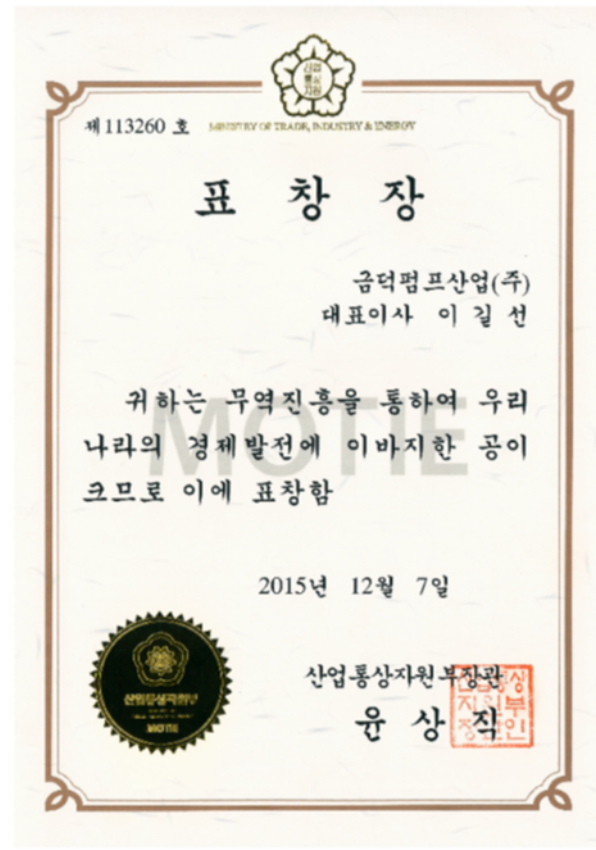
Expiration date: June 15, 2018

June 16, 2016  
  
 Nam Kyung-pil  
 Governor of Gyeonggi Province

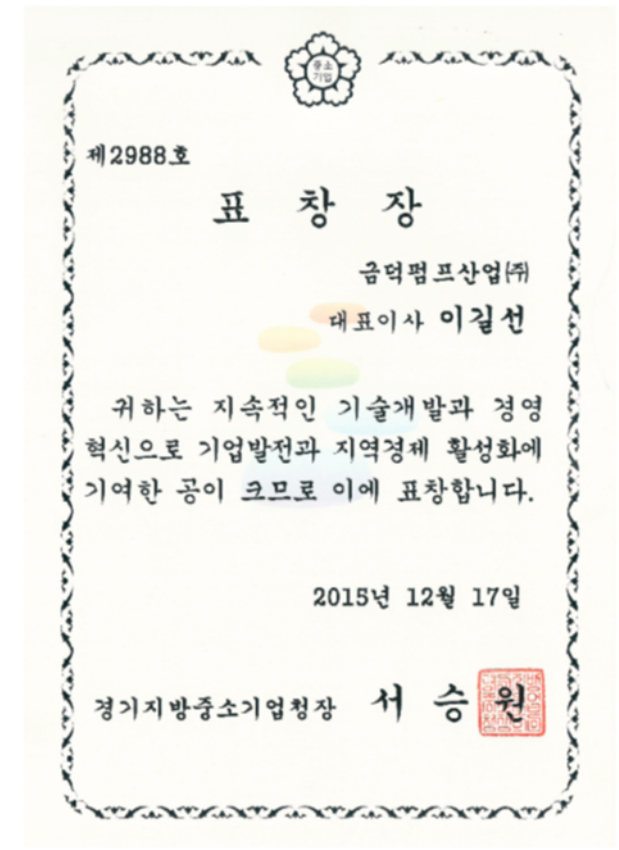
# CERTIFICATON



Grand Prize of Management Innovation



Citation by Minister of Industry and Commerce



Citation by President of Gyeonggi-do Small and Medium-sized Business Administration

# CERTIFICATON



인정번호 : 제 15-25-A-46 호

## 위험성평가 인정서

사업장명 : 금덕펌프산업(주)

대표자 : 이길선

소재지 : 경기 김포시 통진읍 애기봉로662번길 24

유효기간 : 2015.09.23 ~ 2018.09.22

귀 사업장에 대한 위험성평가 수준을 확인한 결과 위험성평가 인정 기준에 적합하므로 위험성평가 우수사업장으로 인정합니다.

2015 년 09 월 23 일



한국산업안전보건공단  
부천지사장



Citation by member of the National Assembly

# CERTIFICATON



Grand Prize of Gimpo-si Small and Medium-sized Business





# CERTIFICATON



Five Million Dollar Export Tower



# CERTIFICATON



제 2012-0462 호

## 표 창 장

금덕펌프산업(주)  
대표이사 이길선

귀하는 투철한 기업가 정신으로 탁월한 경영 성과를 거둬으로써 상공업의 발전과 지역경제 활성화에 기여하였기에 이에 표창합니다.

2012년 12월 3일



Citation by Chamber of Commerce President



제 2016-023 호

## 확 인 증

회 원 명 : 금덕펌프산업(주)  
대 표 자 : 이길선  
소 재 지 : 경기도 김포시 통진읍 애기봉로662번길 24  
사업자등록번호 : 109-81-61093  
유효기간 : 2016. 8. 5 ~ 2017. 8. 4

위 업체는 상공회의소법 제10조 및 14조에 의거 김포상공회의소의 회원임을 확인합니다.

2016. 8. 5

김 포 상 공 회 의 소 회 장

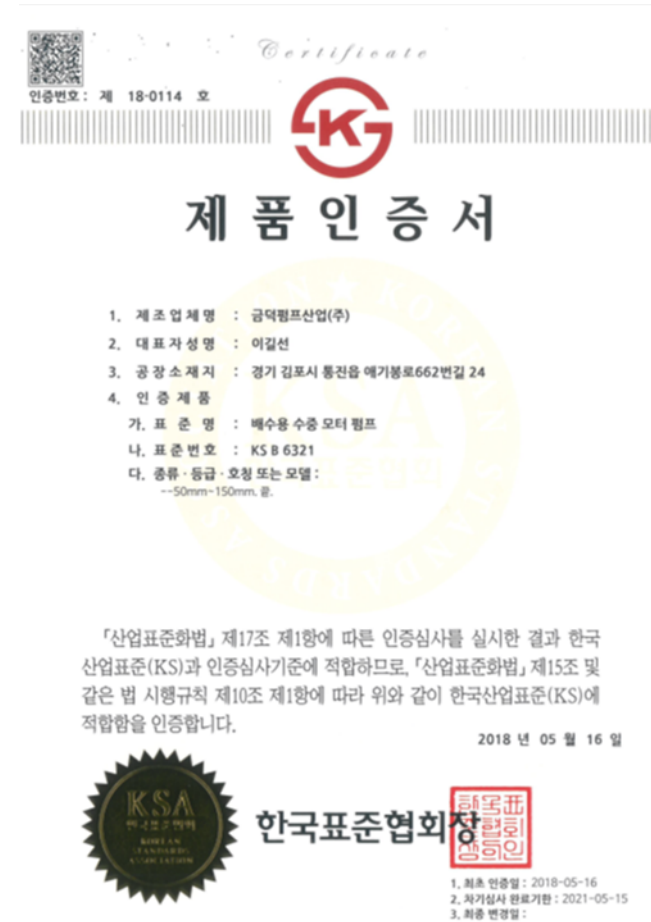


Confirmation by Gimpo Chamber of Commerce President

# CERTIFICATON



Certificate of KS B 6318 \_ Double Suction Pump




Certificate of KS B6321\_ Submersible Pump

# CERTIFICATON



## EU Type Examination Certificate CML 17ATEX1101X Issue 0

- 1 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU
- 2 Equipment **80KD\* 5.5(3.7) EX Submersible Pumps**
- 3 Manufacturer **Keumduk Pump Industrial Co. Ltd**
- 4 Address **Aegibong-ro 662 beon-gil 24  
Tongjin-eup  
Gyeonggi-do  
Kimpo-si  
Korea**
- 5 The equipment is specified in the description of this certificate and the documents to which it refers.
- 6 Certification Management Limited, Unit 1 Newport Business Park, New Port Road, Ellesmere Port CH85 4LZ, UK, Notified Body Number 2503, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 29 February 2014, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive.  
The examination and test results are recorded in the confidential reports listed in Section 12.
- 7 If an 'X' suffix appears after the certificate number, it indicates that the equipment is subject to conditions of safe use (affecting correct installation or safe use). These are specified in Section 14.
- 8 This EU Type Examination certificate relates only to the design and construction of the specified equipment or component. Further requirements of Directive 2014/34/EU Article 13 apply to the manufacture of the equipment or component and are separately certified.
- 9 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the confidential report, has been demonstrated through compliance with the following documents:  
EN 60079-0:2012+A11:2013                      EN 60079-1:2014
- 10 The equipment shall be marked with the following:  
 II 2 G  
Ex db IIC T4 Gb  
Ta = -20°C to +40°C

This certificate shall only be copied in its entirety and without change  
[www.CML-Ex.com](http://www.CML-Ex.com)

1 of 3

*A Snowden*  
A Snowden  
Certification Officer

Certificate of ATEX Explosion Proof

| IEC   |  | IECEX       |                      | IECEX Certificate of Conformity |  |
|---|--|-------------|----------------------|---------------------------------|--|
| INTERNATIONAL ELECTROTECHNICAL COMMISSION<br>IEC Certification Scheme for Explosive Atmospheres<br><small>for rules and details of the IECEx Scheme visit <a href="http://www.iecex.com">www.iecex.com</a></small>  |  |             |                      |                                 |  |
| Certificate No.:  | IECEX CML 17.0167X   | Issue No. 0 | Certificate History: | Issue No. 0 (2017-12-08)        |  |
| Status:   | Current  | Page 1 of 3 |                      |                                 |  |
| Date of Issue:  | 2017-12-08   |             |                      |                                 |  |
| Applicant:  | Keumduk Pump Industrial Co. Ltd<br>Aegibong-ro 662 beon-gil 24<br>Tongjin-eup<br>Gyeonggi-do<br>Kimpo-si<br>Korea, Republic of |             |                      |                                 |  |
| Equipment:  | KDM 5.5(7.5) EX Submersible Mixers   |             |                      |                                 |  |
| Optional accessory:   |  |             |                      |                                 |  |
| Type of Protection:   | Flameproof   |             |                      |                                 |  |
| Marking:  | Ex db IIC T4 Gb<br>Ta = -20°C to +40°C<br><small>* Annex I to the 'marked' design may be omitted from the marking.</small>     |             |                      |                                 |  |
| Approved for issue on behalf of the IECEx<br>Certification Body:  | A Snowden<br>Certification Officer   |             |                      |                                 |  |
| Signature:<br>(for printed version)   | <i>A Snowden</i>   |             |                      |                                 |  |
| Date:   | December 8, 2017   |             |                      |                                 |  |
| 1. This certificate and schedule may only be reproduced in full.<br>2. This certificate is not transferable and remains the property of the issuing body.<br>3. The Status and authenticity of this certificate may be verified by visiting the Official IECEx Website. |  |             |                      |                                 |  |
| Certificate issued by:<br>Certification Management Limited<br>Unit 1, Newport Business Park<br>New Port Road<br>Ellesmere Port, CH85 4LZ<br>United Kingdom  |  |             |                      |                                 |  |

Certificate of IECEx Explosion Proof



# CERTIFICATON



## Strategic Cooperation Agreement

This Agreement is entered into and effective on August 8th, 2017 by and between:

Schlumberger China S.A ("Schlumberger"), a company incorporated and existing under the laws of China, having its principal place of business at Zhaowei Huadeng Building, 14 Jiuxianqiao Road, Chaoyang district, Beijing; and

KEUMDUK PUMP INDUSTRIAL CO., LTD ("KeumDuk"), a company incorporated and existing under the laws of Korea, having its principal place of business at 24, Aegibong-Ro 662 beon-gil, Tongjin-eup, Gimpo-si, Gyeonggi-do, Korea.

The Parties agree that,

Schlumberger is willing to provide the proposal of Electrical Pump to be used for all Projects in Korea;

If KEUMDUK PUMP INDUSTRIAL CO., LTD is awarded relevant product sales contract by client in the future, Schlumberger will supply Electrical Pump in accordance with the contract between KeumDuk and Schlumberger.

Schlumberger recognizes KeumDuk as its only partner in the Electrical Pump sales in this specific project in Korea.

All the liabilities of Schlumberger regard to Electrical Pump shall limited to the liabilities regulated in the contract signed or to be signed between KeumDuk and Schlumberger.

KeumDuk shall always be regarded as an independent contract party. Any content of this agreement shall not be interpreted as any establishment of joint venture or employment relationship between Schlumberger and KeumDuk. Without prior written consent of Schlumberger, under no circumstance that KeumDuk shall represent Schlumberger or commit any obligation towards any party on behalf of Schlumberger, which have no binding effect to Schlumberger.

Within the validity and three years after the termination of the Agreement, neither party shall disclose the counterparty's confidential information it



Signed Strategic Cooperation Agreement with SCHLUMBERGER

## REFERENCE (OVERSEAS)

- KNPC (KUWAIT NATIONAL PETROLEUM COMPANY)**

|                        | Project Name                  | Pump Specification             |
|------------------------|-------------------------------|--------------------------------|
| KOLON e<br>ENGINEERING | KNPC CFP MAB-2 PROJECT        | Submersible Total 12 sets      |
|                        | * API610 OH2 TYPE             | Horizontal Total 10 sets       |
|                        |                               | Submersible Mixer Total 2 sets |
| SUEZ                   | KNPC ZOR Project – NPR        | Horizontal Total 10 sets       |
| KOLON e<br>ENGINEERING | KNPC Al-Zour Refinery Project | Horizontal Total 58 sets       |
|                        |                               | Submersible Total 2 sets       |

### Horizontal Pump

#### Pump Model

- KAPI : Horizontal Centrifugal Type API610 (OH2)

#### Application

- Petroleum refineries
- Petrochemical Industry
- Power Plant Condensate Pump
- Industrial Process

#### Specification

- Capacity : Max. 1600 m3/hr (KAPI)
- Total Head : Max. 250mH (KAPI)
- Nozzle Dia : Max. 300A (KPAI)



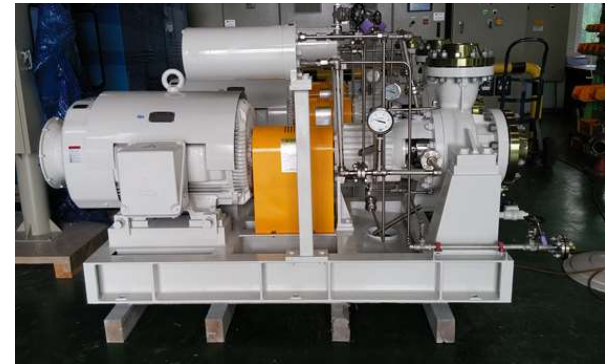
KAPI (OH2)



SUBMERSIBLE MIXER

## REFERENCE (OVERSEAS)

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# REFERENCE (OVERSEAS)

- SEC (SAUDI ELECTRICITY COMPANY)**

|                                  | Project Name                                 | Pump Specification         |
|----------------------------------|--|----------------------------|
| HHI                              | Shuwaikh Power Plant Project                 | Submersible Total 258 sets |
| HHI                              | Jeddah-South Power Plant Project             | Submersible Total 246 sets |
| SUMIKA SEALS<br>MIDDLE EAST(FZC) | Qassim II Combined Cycle Power Plant Project | Submersible Total 20 sets  |

### Submersible Pump (IP68)

#### Pump Model

- KDW : Semi-Open Type
- KDS : Non-Clog Type
- KDV : Vortex Type
- KDG : Grinder Type

#### Application

- Waste & Sewage Water Treatment Plant
- Power Plant Sump Pump

#### Specification

- Capacity : Max. 18000 m3/hr
- Total Head : Max. 100mH
- Nozzle Dia : Max. 400A



Grinder

### Certificate of SEC



### CE-mark





## REFERENCE (OVERSEAS)



## REFERENCE (OVERSEAS)

- SAUDI ARAMCO (ARABIAN OIL COMPANY)**

|                     | Project Name   | Pump Specification       |
|---------------------|--|--------------------------|
| SAMSUNG ENGINEERING | SAUDI ARAMCO THIRD PARTY COGENERATION PROJECT (PCPC) | Submersible Total 6 sets |
|                     |  | Vertical Total 23 sets   |

### Vertical Pump

#### Pump Model

- KVP : Vertical Semi-Open Type
- KVM : Vertical Multi-Stage Type
- KVMC : Canned Vertical Multi-Stage Type

#### Application

- Water Delivery & Irrigation
- Seawater Feed Pump
- Plant Condensate Pump
- Industrial Process

#### Specification

- Capacity : Max. 4000 m<sup>3</sup>/hr
- Total Head : Max. 400mH
- Nozzle Dia : Max. 1000A



KVP (VS4)

KVM (VS1)

KVMC (VS6)

## REFERENCE (OVERSEAS)

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## REFERENCE (OVERSEAS)

- SAUDI SWCC (SALINE WATER CONVERSION CORPORATION)**

|  | Project Name                                  | Pump Specification                     |
|--|---|--|
| SAMSUNG ENGINEERING                    | SAUDI SWCC YANBU POWER & DESALINATION PROJECT | Submersible 38 sets, Vertical 104 sets |
|  | * KMT – 444 m <sup>3</sup> /hr 700mH, 700kW   | Horizontal Total 24 sets               |
| DOOSAN HEAVY INDUSTRIES & CONSTRUCTION | RAS AL KHAIR PROJECT                          | Submersible Total 78 sets              |

### Horizontal Pump

#### Pump Model

- KMT : Horizontal Multi-Stage Type
- KAP : Horizontal Centrifugal Type (ANSI)

#### Application

- Petroleum refineries
- Petrochemical Industry
- Boiler Feed Water Pump
- High Pressure Process

#### Specification

- Capacity : Max. 500 m<sup>3</sup>/hr (KMT) / 1000 m<sup>3</sup>/hr (KAP)
- Total Head : Max. 1000mH (KMT) / 230 mH (KAP)
- Nozzle Dia : Max. 250A (KMT) / 250A (KAP)



KMT (BB4)



KAP (OH1)



## REFERENCE (OVERSEAS)

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## REFERENCE – KDR (Double Suction Type)

| Customer     | Country | Project Name            | Pump Specification  |
|--------------|---------|-------------------------|---|
| GIMCO        | FJI     | Nabou Biomass PP        | KDR4035-40 [1720 m <sup>3</sup> /hr x 37m x 250kW x 4p x 50Hz ]   |
| DEAWOO E&C   | Moroco  | SAFI SIPP Plant         | KDR6060-65 [4000 m <sup>3</sup> /hr x 61.7m x 630kW x 6p x 50Hz ] |
| Samsung eng. | Saudi   | Yanbu-3 P&D Plant       | KDR4035-40 [1500 m <sup>3</sup> /hr x 19.2m x 132kW x 4p x 60Hz ] |
| Hyundai E&C  | Algeria | Ain Arnat 1200MW CCPP   | KDR3530-40 [1020 m <sup>3</sup> /hr x 35m x 200kW x 4p x 50Hz ]   |
| Daewoo E&C   | Korea   | Government R & D center | KDR3025-30 [780 m <sup>3</sup> /hr x 35.53m x 110kW x 4p x 60Hz ] |

### Horizontal Pump

#### Pump Model

- KDR : Double Suction Type  
API610 (BB1)

#### Application

- Industrial Process
- Power Plant CCWP
- Water Delivery & Irrigation
- Seawater Feed Pump

#### Specification

- Capacity : Max. 10000 m<sup>3</sup>/hr
- Total Head : Max. 200mH
- Nozzle Dia : Max. 1000A



## REFERENCE (OVERSEAS)

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## REFERENCE – KAPI (API610, OH2)

| Customer     | Country       | Project Name              | Pump Specification  |
|--------------|---------------|---------------------------|---|
| SK E&C       | Chile         | PIEM Red Dregon           | KAPI4x3-10 [60 m3/hr x 16m x 5.5kW x 4p x 50Hz , 35°C]      |
| Kolon e eng. | Kuwait        | KNPC CFP                  | KAPI6x4-10 [160 m3/hr x 68m x 55kW x 2p x 50Hz , 85°C]      |
| Hyundai E&C  | Uruguay       | UTE Punta del Tigre CCPP  | KAPI8x6-13H [473 m3/hr x 77.8m x 150kW x 2p x 50Hz , 180°C] |
| KEPCO        | Cote d'Ivoire | CIPREL IV VOLET B Project | KAPI8x6-11 [312 m3/hr x 61.4m x 90kW x 2p x 50Hz , 170°C]   |
| Hyundai E&C  | Algeria       | Ain Amat 1200MW CCPP PJT  | KAPI8x6-13 [372 m3/hr x 89.3m x 132kW x 2p x 50Hz , 180°C]  |
| Hyundai E&C  | Ashuganj      | Ashuganj 255 MW CCPP PJT  | KAPI6x4-10 [249 m3/hr x 58m x 75kW x 2p x 50Hz , 93.2°C]    |
| Kolon e eng  | Kuwait        | KIPIC                     | KAPI8x6-12 [435 m3/hr x 110.7m x 225kW x 2p x 50Hz , 85°C]  |
| Suze         | Kuwait        | KIPIC                     | KAPI6x4-9 [160 m3/hr x 41.3m x 37kW x 2p x 50Hz , 85°C]     |
| Daekyeong    | Cote d'Ivoire | CIPREL                    | KAPI8x6-11 [312 m3/hr x 61.4m x 90kW x 2p x 60Hz , 85°C]    |

### Horizontal Pump

#### Pump Model

- KAPI : Horizontal Centrifugal Type API610 (OH2)

#### Application

- Petroleum refineries
- Petrochemical Industry
- Power Plant Condensate Pump
- Industrial Process

#### Specification

- Capacity : Max. 1600 m3/hr
- Total Head : Max. 250mH
- Nozzle Dia : Max. 300A





## REFERENCE – KMT (Horizontal Multi-Stage Type)

| Customer     | Country | Project Name             | Pump Specification  |
|--------------|---------|--------------------------|---|
| DEAWOO E&C   | Morocco | SAFI SIPP Plant          | KMT6X6-13 S4 [312 m <sup>3</sup> /hr x 400m x 560kW x 2p x 50Hz , 70°C] |
| DEAWOO E&C   | Pocheon | Booster Pump PJT         | KMT8X6-13 S3 [354 m <sup>3</sup> /hr x 150m x 250kW x 4p x 60Hz , 50°C] |
| Yeosu        | Yeosu   | Yeosu Waste treatment    | KMT5040-4S [26 m <sup>3</sup> /hr x 240m x 37kW x 2p x 60Hz , 140°C]    |
| Samsung eng. | Saudi   | Yanbu-3 P&D Plant        | KMT2520-7S [444 m <sup>3</sup> /hr x 320m x 700kW x 4p x 60Hz , 60°C]   |
| Hyundai E&C  | Algeria | Ain Arnat 1200MW CCPP    | KMT1512-3S [255 m <sup>3</sup> /hr x 217m x 300kW x 2p x 50Hz , 190°C]  |
| Hyundai E&C  | Algeria | Ain Arnat 1200MW CCPP    | KMT5040-5S [30 m <sup>3</sup> /hr x 210m x 45kW x 2p x 50Hz , 210°C]    |
| Hyundai E&C  | Uruguay | UTE Punta del Tigre CCPP | KMT1512-5S [150 m <sup>3</sup> /hr x 150m x 132kW x 4p x 50Hz , 60°C]   |
| POSCO        | Korea   | 1COKE high pressure PJT  | KMT8065-5S [65 m <sup>3</sup> /hr x 340m x 110kW x 2p x 60Hz , 80°C]    |
| Coway        | Vietnam | SONG HAU1                | KMT5x4-11-S6 [76.2 m <sup>3</sup> /hr x 100m x 45kW x 4p x 50Hz , 70°C] |

### Horizontal Pump

#### Pump Model

- KMT : Horizontal Multi-Stage Type
- API610 (BB4)

#### Application

- Petroleum refineries
- Petrochemical Industry
- Boiler Feed Water Pump
- High Pressure Process

#### Specification

- Capacity : Max. 500 m<sup>3</sup>/hr
- Total Head : Max. 1000mH
- Nozzle Dia : Max. 250A



## REFERENCE – KVP & KVM (Vertical Multi-Stage Type)

| Customer     | Country | Project Name      | Year     | Qty | Pump Specification  |
|--------------|---------|-------------------|----------|-----|---|
| DEAWOO E&C   | Morocco | SAFI SIPP Plant   | 2015. 04 | 8   | KVM2015-10S C.L 4m [120 m3/hr x 310m x 185kW x 4p x 50Hz , 126°C] |
| Samsung eng. | Saudi   | Yanbu-3 P&D Plant | 2015. 06 | 2   | KVM150-4S C.L 5m [126 m3/hr x 103m x 75kW x 4p x 60Hz , 110°C]    |
| Samsung eng. | Saudi   | Yanbu-3 P&D Plant | 2015. 06 | 2   | KVM150-5S C.L 5m [142 m3/hr x 134m x 110kW x 4p x 60Hz, 210°C]    |
| SK E&C       | Panama  | PACO Power Plant  | 2014. 11 | 2   | KVP80-2S C.L 6150mm [55 m3/hr x 43m x 18.5kW x 4p x 60Hz]         |

### Vertical Pump

#### Pump Model

- KVP : Vertical Semi-Open Type
- KVM : Vertical Multi-Stage Type
- KVMC : Canned Vertical Multi-Stage Type

#### Application

- Water Delivery & Irrigation
- Seawater Feed Pump
- Plant Condensate Pump
- Industrial Process

#### Specification

- Capacity : Max. 4000 m3/hr
- Total Head : Max. 400mH
- Nozzle Dia : Max. 1000A



## REFERENCE – KLP (Vertical Inline Type)

| Customer                 | Pump Specification [Seawater... Bronze(AIBC3)]             |
|--------------------------|--|
| Hyundai Heavy Industries | KLP5020 [12m <sup>3</sup> /hr x 55 m x 15kW x 2p x 60Hz]   |
| Hyundai Heavy Industries | KLP5033 [20m <sup>3</sup> /hr x 40 m x 7.5kW x 4p x 60Hz]  |
| Hyundai Heavy Industries | KLP8033 [60m <sup>3</sup> /hr x 50 m x 18.5kW x 4p x 60Hz] |
| Hyundai Heavy Industries | KLP8035 [60m <sup>3</sup> /hr x 60 m x 22kW x 4p x 60Hz]   |

### BWTS Hi-Ballast [ 3,615 sets]

#### Vertical Inline Pump

##### Pump Model

- KIL : API610 (OH4)

##### Application

- Water Feed Pump
- Line Booster Pump
- Aux. Fire Water Pump
- Industrial Process

##### Specification

- Capacity : Max. 500 m<sup>3</sup>/hr
- Total Head : Max. 100mH
- Nozzle Dia : Max. 200A



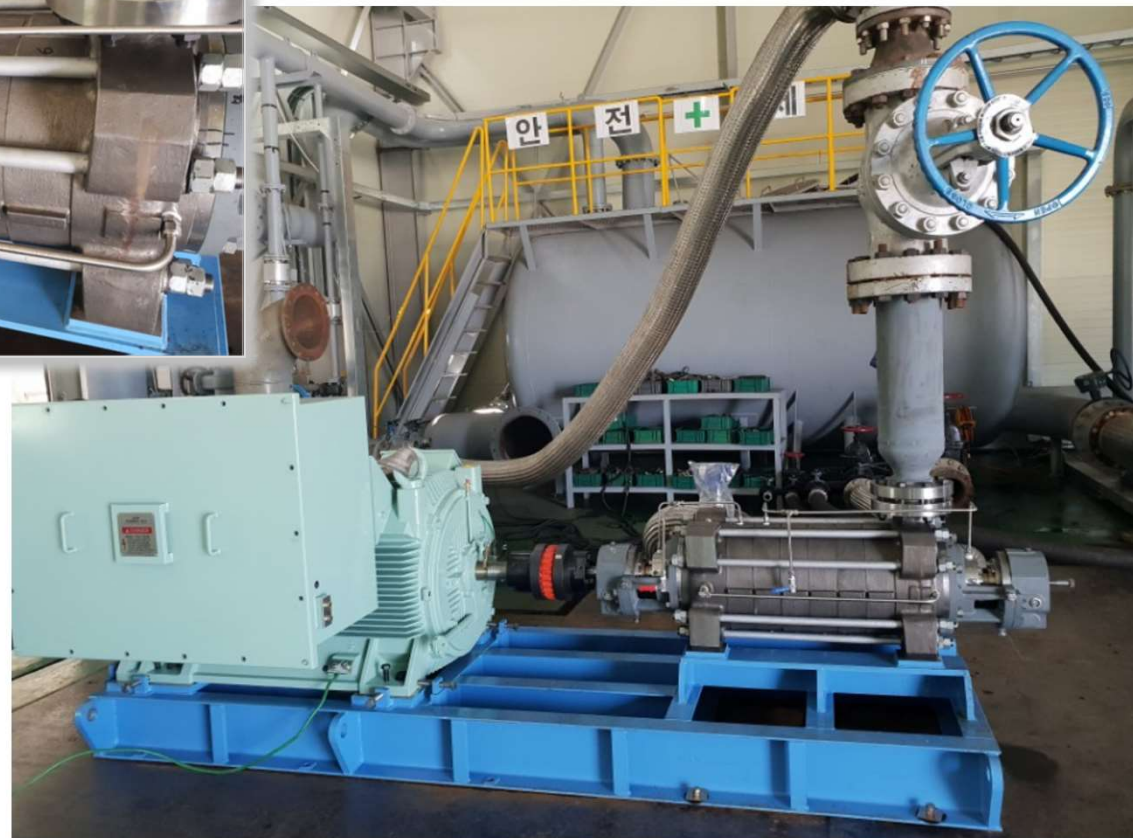
## REFERENCE ( RO PUMP)\_ Keumduk Pump

| ITEM No.   | Service Name                   | Q'ty | Pump Type    | Nozzle |       | Q       |          | H<br>(m) | Power |     | Material  |           |          | Date         |
|--|--------------------------------|------|--------------|--------|-------|---------|----------|----------|-------|-----|-----------|-----------|----------|--------------|
|  |                                |      |              | Suc.   | Dis.  | (m3/hr) | (m3/min) |          | (Kw)  | (P) | Casing    | Impeller  | Shaft    |              |
| <b>Huvis Water (Korea Hydro &amp; Nuclear power )_ KOREA</b> |                                |      |              |        |       |         |          |          |       |     |           |           |          | 2018.07      |
| 0-580-M-PP16/17/18/19  | High Pressure for SWRO         | 4    | KMT5x4-11 7S | 125    | 100   | 156     | 2.60     | 665      | 500   | 2   | A890 5A   | A890 5A   | A182-53  |              |
| 0-580-M-PP24/25/26/27  | High Pressure for SWRO         | 4    | KMT5x4-11 2S | 125    | 100   | 154.3   | 2.57     | 135      | 132   | 2   | A890 5A   | A890 5A   | A182-53  |              |
| 0-580-M-PP49/52  | High Pressure Circulation Pump | 4    | KIPH 5x4-13  | 125    | 100   | 153     | 2.55     | 40       | 30    | 4   | A890 5A   | A890 5A   | A182-53  | Suc PRS 650m |
| <b>Huvis Water (SAFI IPP)_ Morocco</b>                       |                                |      |              |        |       |         |          |          |       |     |           |           |          | 2016.04      |
| 00GBF61/62/63 AP001  | SWRO High Pressure Pump A/B/C  | 3    | KMT6x6-13 S4 | 150    | 150   | 328     | 5.47     | 400      | 560   | 2   | A890 5A   | A890 5A   | A182-53  |              |
| 00GCF61/62/63 AP001  | BWRO High Pressure Pump A/B/C  | 3    | KMT5x4-13 S3 | 125    | 100   | 131     | 2.18     | 180      | 132   | 2   | A743-CF8M | A743-CF8M | A276-316 |              |
| <b>Coway EnTech (Song Hau 1) _ Vietnam</b>                   |                                |      |              |        |       |         |          |          |       |     |           |           |          | 2017.11      |
| P0GCF27 AP001, P0GCF28 AP001                                 | RO High Pressure Pump          | 2    | KMT5x4-11 S6 | 125    | 100   | 76      | 1.27     | 100      | 45    | 4   | A351-CF8M | A351-CF8M | A479-316 |              |
| <b>Huvis Water (UTE Punta Del tigre CCPP) _ Uruguay</b>      |                                |      |              |        |       |         |          |          |       |     |           |           |          | 2014.02      |
| 10GCF71/72AP001  | 2ND RO High Pressure Pump      | 2    | KMT1512-5S   | 150    | 125   | 150     | 2.50     | 150      | 132   | 4   | A743-CF8M | A743-CF8M | A276-316 |              |
| <b>KOLON e ENGINEERING (KIPIC ZOR)_ Kuwait</b>               |                                |      |              |        |       |         |          |          |       |     |           |           |          | 2018.05      |
| 76-P-1906A/B/C   | RO Feed Pump                   | 3    | KAPI8x6-12   | 200    | 150   | 437     | 7.28     | 109.4    | 225   | 2   | A743-CA15 | A743-CA15 | A479-410 |              |
| 76-P-1908A/B/C   | RO High Pressure Pump          | 3    | KAPI8x6-12   | 200    | 150   | 437     | 7.28     | 76       | 132   | 2   | A743-CA15 | A743-CA15 | A479-410 |              |
| <b>Biryong (TVEP PJT)_ Philippines</b>                       |                                |      |              |        |       |         |          |          |       |     |           |           |          | 2016.06      |
| 00GCF21/22/23 AP001  | SWRO High Pressure Pump        | 3    | KMT4x3-8 S6  | DN 100 | DN 80 | 83      | 1.38     | 385      | 160   | 2   | A890-1B   | A890-1B   | A182-F51 |              |



## REFERENCE (RO PUMP)

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## REFERENCE

| Customer                | Country      | Power (kW) | Project Name                            | Application | Year     | Q'ty |
|-------------------------|--------------|------------|---|-------------|----------|------|
| HDGSK JV                | Karbala      | 7.5KW      | Karbala PJT                             | Power Plant | 2018. 05 | 9    |
| KOLON e ENGINEERING     | Kuwait       | 5.5 KW     | KLNG PJT                                | Power Plant | 2018. 05 | 16   |
| KOLON e ENGINEERING     | Kuwait       | 90KW       | KNPC ZOR PJT_API & Submersible          | Power Plant | 2018. 05 | 19   |
| KOLON e ENGINEERING     | Kuwait       | 225KW      | KNPC ZOR PJT_NON API                    | Power Plant | 2018. 05 | 18   |
| KOLON e ENGINEERING     | Kuwait       | 90KW       | KNPC ZOR PJT_Vertical-2                 | Power Plant | 2018. 05 | 10   |
| MOREX                   | Saudi Arabia | 15KW       | Hail 2 Combined Cycle Power Plant       | Power Plant | 2018. 05 | 2    |
| HYORIM                  | KANDYM       | 1.7KW      | KANDYM PJT_Submersible pump             | Power Plant | 2018. 05 | 2    |
| SUZE                    | Kuwait       | 37KW       | KNPC AL ZOUR PJT                        | Power Plant | 2018. 03 | 20   |
| KOLON e ENGINEERING     | Kuwait       | 15KW       | KIPIC ZOR PJT_NON-API(Seal water pumps) | Power Plant | 2018. 02 | 2    |
| Mirae Engineering       | RAJAMANDALA  | 0.75KW     | RAJAMANDALA PJT                         | Power Plant | 2018. 02 | 2    |
| Samsung E&C             | Saudi Arabia | 1.5KW      | 라빅2_Portable type sump pump             | Power Plant | 2018. 02 | 1    |
| Hyundai E&C             | SARULLA      | 1.5KW      | SARULLA PJT_Sewage Sump Pump            | Power Plant | 2018. 01 | 1    |
| Doosan Heavy Industries | Kazakhstan   | 55kW etc.  | Karabatan Project                       | Power Plant | 2017. 08 | 21   |
| Samsung E&C             | Algeria      | 11kW etc.  | Algeria Mega Deal Project               | Power Plant | 2017. 05 | 22   |
| SK E&C                  | Chile        | 45kW etc.  | RED DRAGON / PIEM Project               | Power Plant | 2016. 12 | 4    |
| KOLON e ENGINEERING     | Kuwait       | 55kW etc.  | KNPC CFP Project                        | Power Plant | 2016. 10 | 24   |
| Daewoo E&C              | Morocco      | 630kW etc. | SAFI IPP Project                        | Power Plant | 2016. 05 | 119  |

## REFERENCE

| Customer            | Country           | Power (kW) | Project Name   | Application         | Year     | Q'ty |
|---------------------|-------------------|------------|--|---------------------|----------|------|
| Samsung E&C         | Turkey            | 11kW etc.  | KIRIKKALE IPP  | Power Plant         | 2016. 01 | 59   |
| Samsung Engineering | Saudi-Arabia      | 700kW etc. | Yanbu Power & Desalination Plant _Centrifugal, Vertical, Submersible pump        | Power Plant         | 2015. 03 | 176  |
| Samsung Engineering | Chile             | 7.5kW etc. | Chile Kelar Project  | Power Plant         | 2015. 02 | 17   |
| Samsung Engineering | Saudi-Arabia      | 75kW etc.  | Saudi ARAMCO Third party Cogeneration Project                                    | Power Plant         | 2015. 03 | 33   |
| HHI                 | Saudi-Arabia      | 37kW etc.  | Shuwaikh Power Plant Project   | Power Plant         | 2014. 11 | 258  |
| Hyundai E&C         | Uruguay           | 150kW etc. | UTE Punta del Tigre CPHP (CPH PUMP)  | Power Plant         | 2014. 10 | 4    |
| KEPCO               | Cote d'Ivoire     | 90kW etc.  | CIPREL IV VOLET B Project (CPH PUMP)   | Power Plant         | 2014. 07 | 8    |
| SK E&C              | PANAMA            | 45kW etc.  | PACO Power Plant Project : GSP & SUMP PUMP                                       | Power Plant         | 2014. 11 | 25   |
| Hyundai E&C         | Algeria           | 300kW etc. | Ain Amat 1200MW Combined cycle power plant                                       | Thermal Power Plant | 2014. 05 | 51   |
| Hyundai E&C         | Algeria           | 132kW etc. | Ain Amat 1200MW Combined cycle power plant (CPH PUMP)                            | Thermal Power Plant | 2014. 05 | 6    |
| Daewoo E&C          | Algeria           | 132kW etc. | Ras-Djinet 1,131.1MW Coombined Cycle Power Plant                                 | Thermal Power Plant | 2014. 05 | 95   |
| HHI                 | Saudi-Arabia      | 37kW etc.  | JEDDAH-SOUTH Power Plant Project   | Power Plant         | 2014. 04 | 246  |
| Hyundai Engineering | Libya             | 30kW etc.  | TRIPOLI WEST 4X350w POWER PLANT  | POWER PLANT         | 2013. 07 | 6    |
| Hyundai Engineering | EQUATORIAL GUINES | 11kW etc.  | Nsoc Nsomo City Water Supply & Sewerage System Project                           | Water Supply        | 2013. 07 | 30   |
| SK E&C              | TURKEY            | 11kW etc.  | Tufanbeyli Thermal Power Plant Project [ENERJISA ENERJİ ÜRETİM A.Ş.]             | Power Plant         | 2013. 07 | 62   |
| HHI                 | Saudi-Arabia      | 2.2kW etc. | TIHAMA COGENERATION EXPANSION PROJECT STAGE II [TIHAMA POWER GENERATION CO, LTD] | Power Plant         | 2013. 07 | 9    |
| DHI                 | Saudi-Arabia      | 75kW etc.  | Ras Al Khair Project [Saline Water Conversion Corporation (SWCC)]                | Desalination        | 2012. 11 | 78   |
| Hyundai Engineering | Costa Rica        | 7.5kW etc. | Sanjose City & Outside area of Evinayong City Water Supply & Sewage Project      | Waste Water         | 2012. 08 | 38   |

## REFERENCE

| Customer            | Country      | Power (kW) | Project Name   | Application    | Year     | Q'ty |
|---------------------|--------------|------------|--|----------------|----------|------|
| Biryong             | IRAQ         | 19kW etc.  | Hyundai Engineering/RUMAILA GAS TPP [Ministry of Electricity, IRAQ]                            | LNG            | 2012. 08 | 31   |
| Biryong             | IRAQ         | 5.5kW etc. | Hyundai Engineering/TAZA GAS TPP [Ministry of Electricity, IRAQ]                               | LNG            | 2012. 08 | 27   |
| Hyundai Engineering | Tunisia      | 4kW        | TTSP PJT_Sanitary Pump   | Power Plant    | 2012. 08 | 2    |
| Daewoo E&C          | OMAN         | 30kW etc.  | OMAN SUR IPP PROJECT [Oman Power & Water Procurement Company (OPWP)]                           | Power Plant    | 2012. 08 | 105  |
| Daewoo E&C          | UAE          | 7.5kW etc. | UAE Shuweihat S3 IPP Sump Pumps<br>[Abu Dhabi Water & Electricity Authority (ADWEA) ]          | Power Plant    | 2012. 07 | 68   |
| DHI                 | Saudi-Arabia | 0.75kW     | Jeddah SWRO-III PJT [Saline Water Conversion Corporation (SWCC)]                               | Desalination   | 2012. 05 | 6    |
| SK E&C              | Korea        | 5.5kW etc. | SK GAS TANK TERMINAL PROJECT   | Power Plant    | 2011, 08 | 4    |
| Hyundai Engineering | Iraq         | 37kW etc.  | Qudus power plant [Ministry of Electricity, IRAQ]  | Power Plant    | 2011. 07 | 36   |
| STX Heavy           | Saudi-Arabia | 19kW etc.  | South Steel Plant PJT  | Steel Plant    | 2010, 10 | 16   |
| Hyundai Engineering | Algerie      | 7.5kW etc. | Arzew Refinery Project_Algeria   | Petrochemistry | 2010, 10 | 10   |
| DHI                 | UAE          | 90kW etc.  | Shuweihat S2 IWPP  | Desalination   | 2010, 09 | 18   |
| DHI                 | UAE          | 90kW etc.  | Shuweihat S2 IWPP  | Desalination   | 2010, 09 | 18   |
| SK E&C              | Korea        | 30kW etc.  | USAG-Humphreys Land Development - Lift Station Pump  | Waste Water    | 2010, 03 | 42   |
| Daewoo E&C          | Qatar        | 5.5kW etc. | Construction of Marine Works for NAKILAT Ship Repair Yard Port of Ras Laffan (Condensate Pump) | Waste Water    | 2010, 03 | 28   |
| Daewoo E&C          | Qatar        | 2.2kW etc. | Construction of Marine Works for NAKILAT Ship Repair Yard Port of Ras Laffan (Bilge Pump)      | Waste Water    | 2010, 02 | 8    |
| KC Samyang          | Qatar        | 30kW etc.  | Construction of Marine Works for NAKILAT Ship Repair Yard Port of Ras Laffan                   | Waste Water    | 2010, 01 | 7    |
| KC Samyang          | Qatar        | 30kW etc.  | Construction of Marine Works for NAKILAT Ship Repair Yard Port of Ras Laffan                   | Waste Water    | 2010, 01 | 7    |



## REFERENCE

| Customer            | Country           | Power (kW)   | Project Name   | Application  | Year     | Q'ty |
|---------------------|-------------------|--------------|--|--------------|----------|------|
| HHI                 | Bahrain           | 19kW etc.    | AL-DUR IWPP  | Power Plant  | 2009. 08 |      |
| HYORIM              | Bahrain           | 0.75kW       | Al Dur Independent Water & Power                     | Power Plant  | 2009. 08 |      |
| HHI                 | Bahrain           | 19kW etc.    | AL-DUR IWPP  | Power Plant  | 2009. 08 |      |
| HYORIM              | Bahrain           | 0.75kW       | Al Dur Independent Water & Power                     | Power Plant  | 2009. 08 |      |
| KC Samyang          | Philippines       | 18.5kW, etc. | CEBU Power Plant                                     | Power Plant  | 2009. 07 |      |
| DHI                 | Kuwait            | 37kW etc.    | Shuwaikh RO  | Desalination | 2009, 07 |      |
| GS E&C              | Thailand          | 1.5kW etc.   | Jetty Development and LNG Receiving Terminal Project | LNG          | 2009, 07 | 7    |
| DHI                 | Kuwait            | 37kW etc.    | Shuwaikh RO  | Desalination | 2009, 07 | 8    |
| GS E&C              | Thailand          | 1.5kW etc.   | Jetty Development and LNG Receiving Terminal Project | LNG          | 2009, 07 | 7    |
| Hyundai Engineering | Equatorial Guinea | 15kW etc.    | The Sewerage Sytem Project in the City of Mongomo    | Waste Water  | 2009, 06 | 57   |
| Hyundai Engineering | Equatorial Guinea | 15kW etc.    | The City Water Supply & Sewerage Project Eviveyin    | Waste Water  | 2009, 06 | 54   |
| Hyundai Engineering | Equatorial Guinea | 15kW etc.    | The City Water Supply & Sewerage Project Evinayong   | Waste Water  | 2009, 06 | 38   |
| Hyundai Engineering | Equatorial Guinea | 15kW etc.    | The Sewerage Sytem Project in the City of Mongomo    | Waste Water  | 2009, 06 | 57   |
| Hyundai Engineering | Equatorial Guinea | 15kW etc.    | The City Water Supply & Sewerage Project Eviveyin    | Waste Water  | 2009, 06 | 54   |
| Hyundai Engineering | Equatorial Guinea | 15kW etc.    | The City Water Supply & Sewerage Project Evinayong   | Waste Water  | 2009, 06 | 38   |
| DHI                 | Philippines       | 22kW etc.    | Cebu Power Plant (WWTS), Philippines                 | Power Plant  | 2009, 04 | 43   |

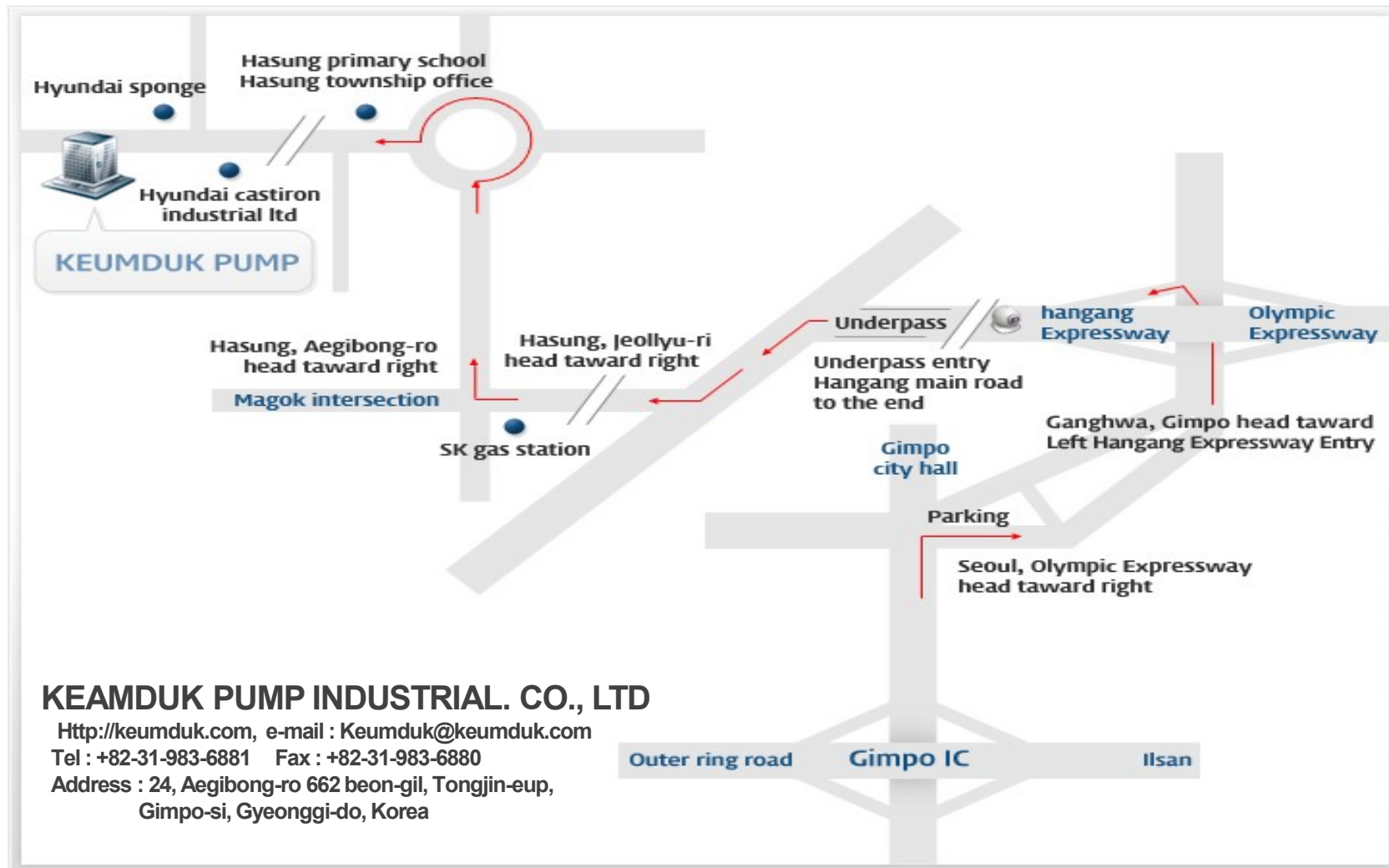
## REFERENCE

| Customer                 | Country      | Power (kW) | Project Name   | Application               | Year     | Q'ty |
|--------------------------|--------------|------------|--|---------------------------|----------|------|
| Hyundai Engineering      | Thailand     | 37kW etc.  | SIPCO 160MW Combined Cycle Co-Generation Project, Thailand                           | Power Plant               | 2009, 04 | 32   |
| DHI                      | Philippines  | 22kW etc.  | Cebu Power Plant (WWTS), Philippines   | Power Plant               | 2009, 04 | 43   |
| Hyundai Engineering      | Thailand     | 37kW etc.  | SIPCO 160MW Combined Cycle Co-Generation Project, Thailand                           | Power Plant               | 2009, 04 | 32   |
| Daewoo E&Cn              | Libyan       | 7.5kW etc. | Misurata / Benghazi Combined Cycle Project, Libyan                                   | Power Plant               | 2009, 02 | 50   |
| Daewoo E&Cn              | Libyan       | 7.5kW etc. | Misurata / Benghazi Combined Cycle Project, Libyan                                   | Power Plant               | 2009, 02 | 50   |
| Hyundai Heavy Industries | Qatar        | 11kW etc.  | Ras Laffan IWPP, Qatar(2600MW)   | Power Plant /Desalination | 2009, 01 | 9    |
| Hyundai Heavy Industries | Qatar        | 11kW etc.  | Ras Laffan IWPP, Qatar(2600MW)   | Power Plant /Desalination | 2009, 01 | 9    |
| Hyundai Engineering      | Saudi-Arabia | 22kW etc.  | AAC Ethlene Amines Project, Saudi-Arabia   | Petrochemistry            | 2008, 12 | 10   |
| Hyundai Engineering      | Saudi-Arabia | 22kW etc.  | AAC Ethlene Amines Project, Saudi-Arabia   | Petrochemistry            | 2008, 12 | 10   |
| DHI                      | Saudi-Arabia | 1.5kW etc. | Shuaibah IWPP Project, Saudi-Arabia  | Power Plant /Desalination | 2008, 11 | 12   |
| DHI                      | Saudi-Arabia | 1.5kW etc. | Shuaibah IWPP Project, Saudi-Arabia  | Power Plant /Desalination | 2008, 11 | 12   |
| DHI                      | Saudi-Arabia | 30kW etc.  | Shuwaikh RO, Saudi-Arabia  | Desalination              | 2008, 10 | 2    |
| DHI                      | Saudi-Arabia | 30kW etc.  | Marafiq IWPP PJT / WWTS, Saudi-Arabia  | Power Plant /Desalination | 2008, 10 | 3    |
| DHI                      | Saudi-Arabia | 30kW etc.  | Shuwaikh RO, Saudi-Arabia  | Desalination              | 2008, 10 | 2    |
| DHI                      | Saudi-Arabia | 30kW etc.  | Marafiq IWPP PJT / WWTS, Saudi-Arabia  | Power Plant /Desalination | 2008, 10 | 3    |
| DHI                      | Saudi-Arabia | 11kW etc.  | Shuaibh IWPP Expansion Project, [Ministry of Water & Energy KINGDOM of SAUDI ARABIA] | Power Plant /Desalination | 2008, 07 | 10   |
| DHI                      | UAE          | 15kW etc.  | Al-Taweela A10 PRJ(Sump pump), [Abu Dhabi National Oil Company]                      | Power Plant /Desalination | 2008, 07 | 5    |
| DHI                      | Saudi-Arabia | 11kW etc.  | Shuaibh IWPP Expansion Project, Saudi-Arabia   | Power Plant /Desalination | 2008, 07 | 10   |
| DHI                      | UAE          | 15kW etc.  | Al-Taweela A10 PRJ(Sump pump), UAE   | Power Plant /Desalination | 2008, 07 | 5    |
| Samsung Eng.             | Saudi-Arabia | 0.75kW     | Ibn Zarh PP-III PJT  | Petrochemistry            | 2008, 06 | 2    |

## REFERENCE

| Customer       | Country      | Power (kW) | Project Name                     | Application      | Year     | Q'ty |
|----------------|--------------|------------|----------------------------------|------------------|----------|------|
| Samsung Eng.   | Saudi-Arabia | 0.75kW     | Ibn Zarh PP-III PJT              | Petrochemistry   | 2008, 06 | 2    |
| DHI            | Nigeria      | 15kW etc.  | AFAM VI POWER STATION, Nigeria   | Power Plant /LNG | 2008, 03 | 2    |
| DHI            | Nigeria      | 15kW etc.  | AFAM VI POWER STATION, Nigeria   | Power Plant /LNG | 2008, 03 | 2    |
| SK E&C         | Indonesia    | 15kW etc.  | L-PJT, Indonesia                 | Petrochemistry   | 2008, 02 | 2    |
| SK E&C         | Indonesia    | 15kW etc.  | L-PJT, Indonesia                 | Petrochemistry   | 2008, 02 | 2    |
| Hynix China    | China        | 5.5kW etc. | Hynix China, WWT China           | Waste Water      | 2007, 11 | 1    |
| Hynix China    | China        | 5.5kW etc. | Hynix China, WWT China           | Waste Water      | 2007, 11 | 1    |
| Hansu Chemical | Saudi-Arabia | 30kW etc.  | MARAFIQ IWPP P.R.J, Saudi-Arabia | Petrochemistry   | 2007, 07 | 3    |
| DHI            | Nigeria      | 0.75kW     | AFAM/(50KWO0.75T4), Nigeria      | Power Plant      | 2007, 07 | 2    |
| Hansu Chemical | Saudi-Arabia | 30kW etc.  | MARAFIQ IWPP P.R.J, Saudi-Arabia | Petrochemistry   | 2007, 07 | 3    |
| DHI            | Nigeria      | 0.75kW     | AFAM/(50KWO0.75T4), Nigeria      | Power Plant      | 2007, 07 | 2    |
| Bansuk Tech    | Vietnam      | 30kW etc.  | 200KSE30 T3, Vietnam             | Power Plant /LNG | 2007, 03 | 2    |
| Bansuk Tech    | Vietnam      | 2.2kW      | Rhodia Polyamide.Co.LTD          | Power Plant /LNG | 2007, 03 | 1    |
| Bansuk Tech    | Vietnam      | 30kW etc.  | 200KSE30 T3, Vietnam             | Power Plant /LNG | 2007, 03 | 2    |
| Bansuk Tech    | Vietnam      | 2.2kW      | Rhodia Polyamide.Co.LTD          | Power Plant /LNG | 2007, 03 | 1    |
| DHI            | Libyan       | 5.5kW etc. | ZAWIA CCPP - 2nd, Libyan         | Power Plant /LNG | 2006, 06 | 4    |
| DHI            | Libyan       | 5.5kW etc. | ZAWIA CCPP - 2nd, Libyan         | Power Plant /LNG | 2006, 06 | 4    |

# LOCATION



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