

PRE-QUALIFICATION

- ✓ WATER TREATMENT PLANT
- ✓ COOLING TOWER
- ✓ PRESSURE VESSEL

We are pleased to submit the pre-qualification documents of vendor approval for your Water Treatment Plant, Cooling Tower & Pressure Vessel requirements. With experiences and technology of 60 years, DHR covers Basic Design, Detail Engineering, Manufacturing, Erection, Supervising, Commissioning and Maintenance

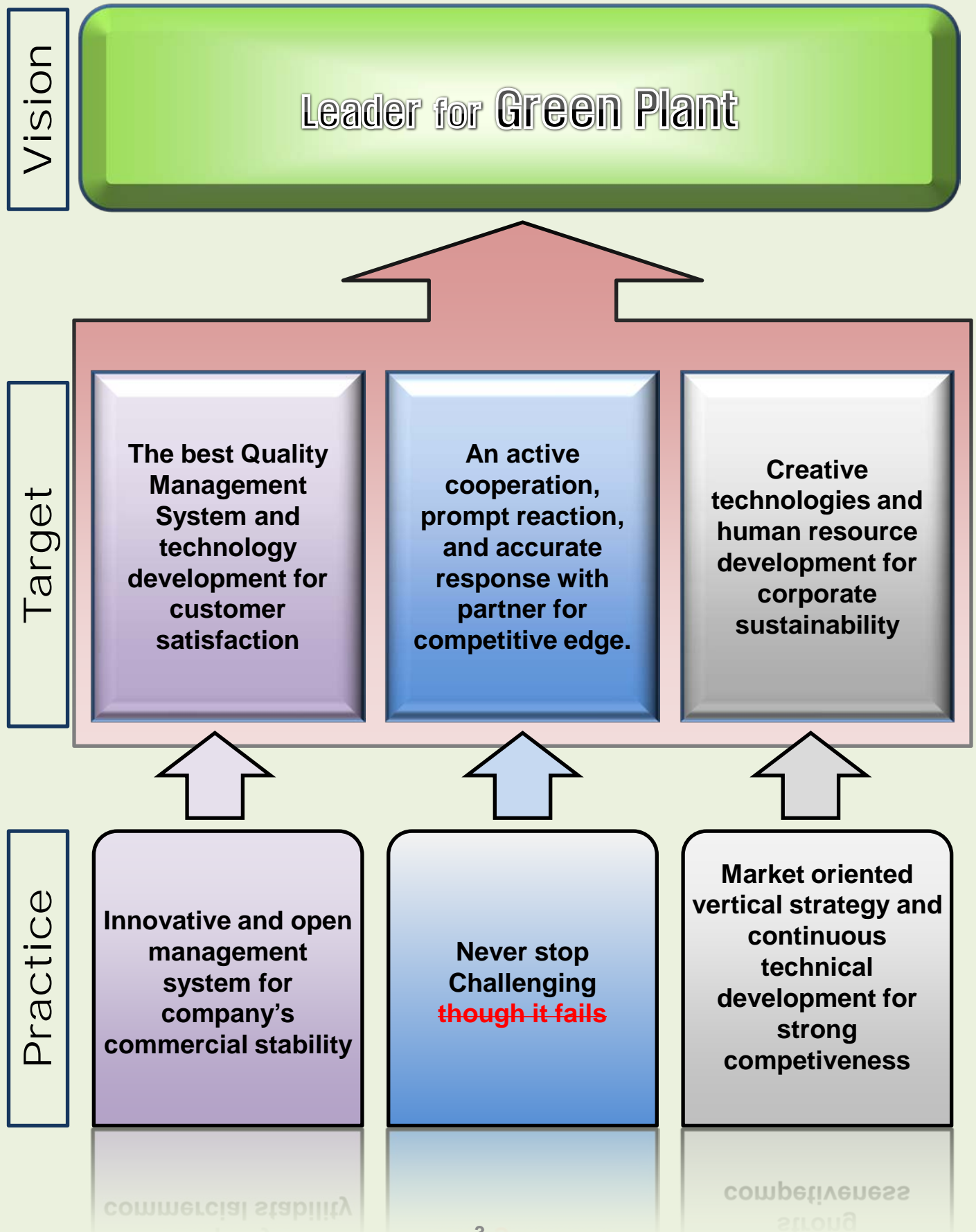


동 해 공 업 주 식 회 사
DONGHAE INDUSTRIAL CO.,LTD.

Contents

1. Vision
2. Company Over view
 - 1) General Information
 - 2) Chronicle & Growth
 - 3) Organization
 - 4) Factory View
 - 5) Business Network
 - 6) Project Organization
 - 7) Fabrication & Test Facilities
2. Business Category
 - 1) Scope of Services
 - 2) Water treatment Plant & Cooling System
 - 3) Pressure Vessel
 - 4) Cooling Tower
3. Certificates
4. Supply Records
 - 1) Major Client
 - 2) Supply Records

VISION



Contents

- 1) Chronicle & Growth
- 2) Organization
- 3) Factory View
- 4) Business Network
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- 6) Fabrication & Test Facilities



1) Chronicle & Growth

2010 ~

2012. 11 Patented - Plume Abatement System Cooling Tower

~~2012. 04 Registered as a preferable vendor to AL-RAJIH GROUP, Saudi Arabia~~

**2012. 02 Moved to Samrangjin with new company name of
DONGHAE IND. CO. LTD. Industrial Co., Ltd.**

**2011. 10 Registered as a Sea Water Cooling Tower vendor for MAA'DEN Aluminum
Rolling Mill Project.**

2011. 09 Registered as a preferable vendor to DANIELI, Italy.(Code : 136787)

2010. 07 Established Erection & Maintenance Facility in Dammam, Saudi Arabia

2000 ~ 2009

2009. 12 Established Company Laboratory

2008. 12 ASME "U" & "S" Stamp accredited by ASME

2008. 12 Commissioning cooling towers for Pakistani steel mill plant

**2008. 10 Provide design & engineering service of water treatment system for a
Saudi Arabian steel mill plant**

**2008. 06 Provide efficiency survey service of water treatment system on a steel mill
plant in UK**

2006. 07 Commissioning cooling tower in Saudi Arabian steel mill plant

2006. 04 Registration of Utility Model (No. 0381483) –Connectable type

**2004. 06 Registration of Utility Model (No. 0381483) –Low Noise Counter Flow
type2006**

2003. 12 GQ (Qualification of Government)

**2003. 11 Established DNS Engineering for business extension to Water Treatment
Plant**

2003. 02 ISO 9001:2000

2002. 12 Established QINGTAO factory in China for Chinese market

1953 ~ 1999

1999. 12 ISO 9001 accredited by Bureau Veritas

1996. 10 CTI Member – DongHae Industry (DHR)

1992. 06 President Mr. Jeonghan Song

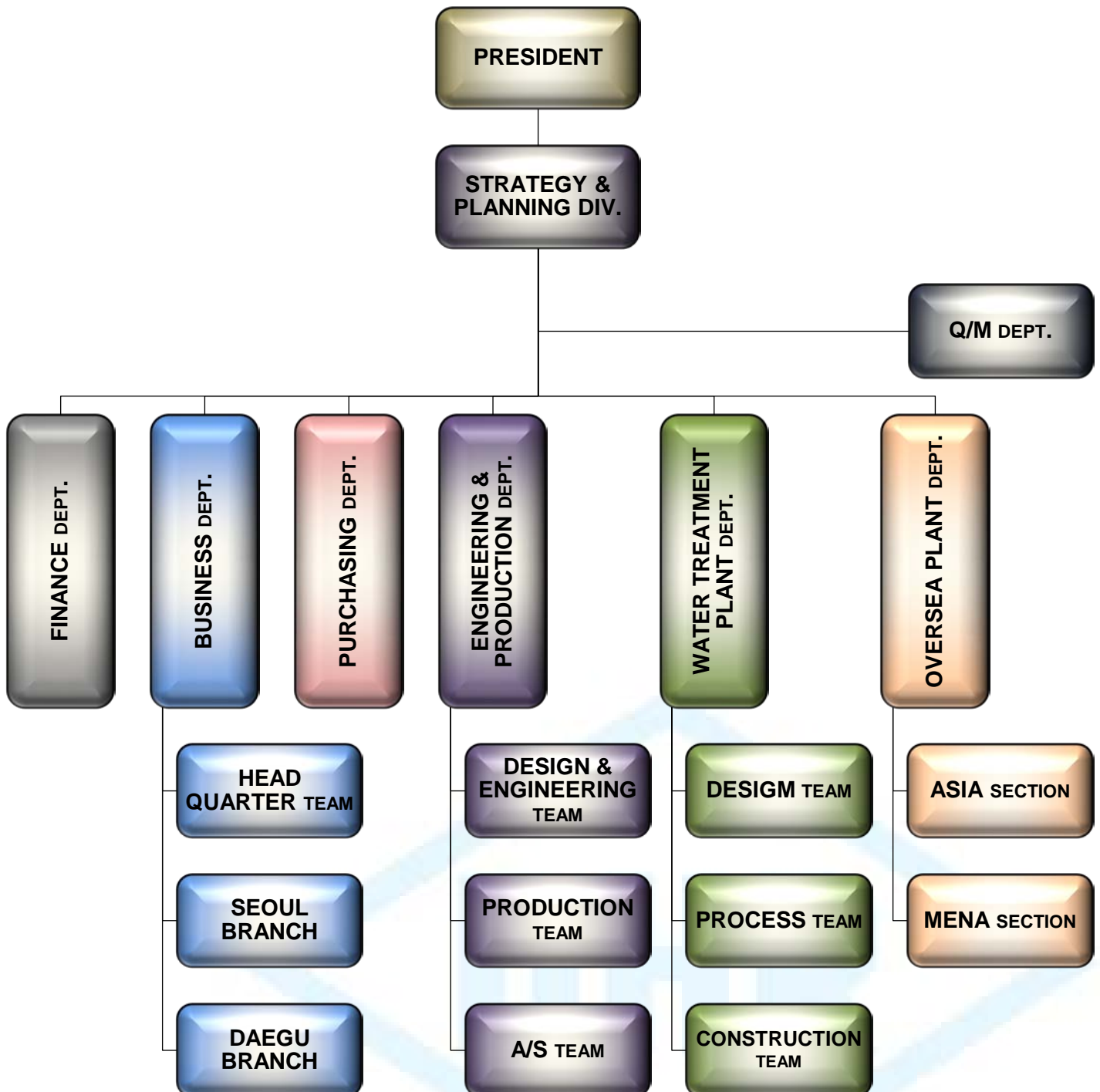
1991. 06 Moved to a new factory –Shinpyeong Industrial complex

**1985. 04 MALAYSIA, INDONESIA, KUWAIT, BANGLADESH via Korean Engineering
Companies.**

1972. 10 Design and Manufacture Round Type Cooling Tower(1st in Korea)

1953. 03 Established

2) Organization



1. Company overview

3) Factory View

HEAD QUARTER



Basic Design, Detail Design, Engineering, Fabrication, Equipment Supply, Installation & Construction, Supervising & Commissioning, Maintenance

SEOUL BRANCH



Engineering, Installation, Supervising & Commissioning, Maintenance

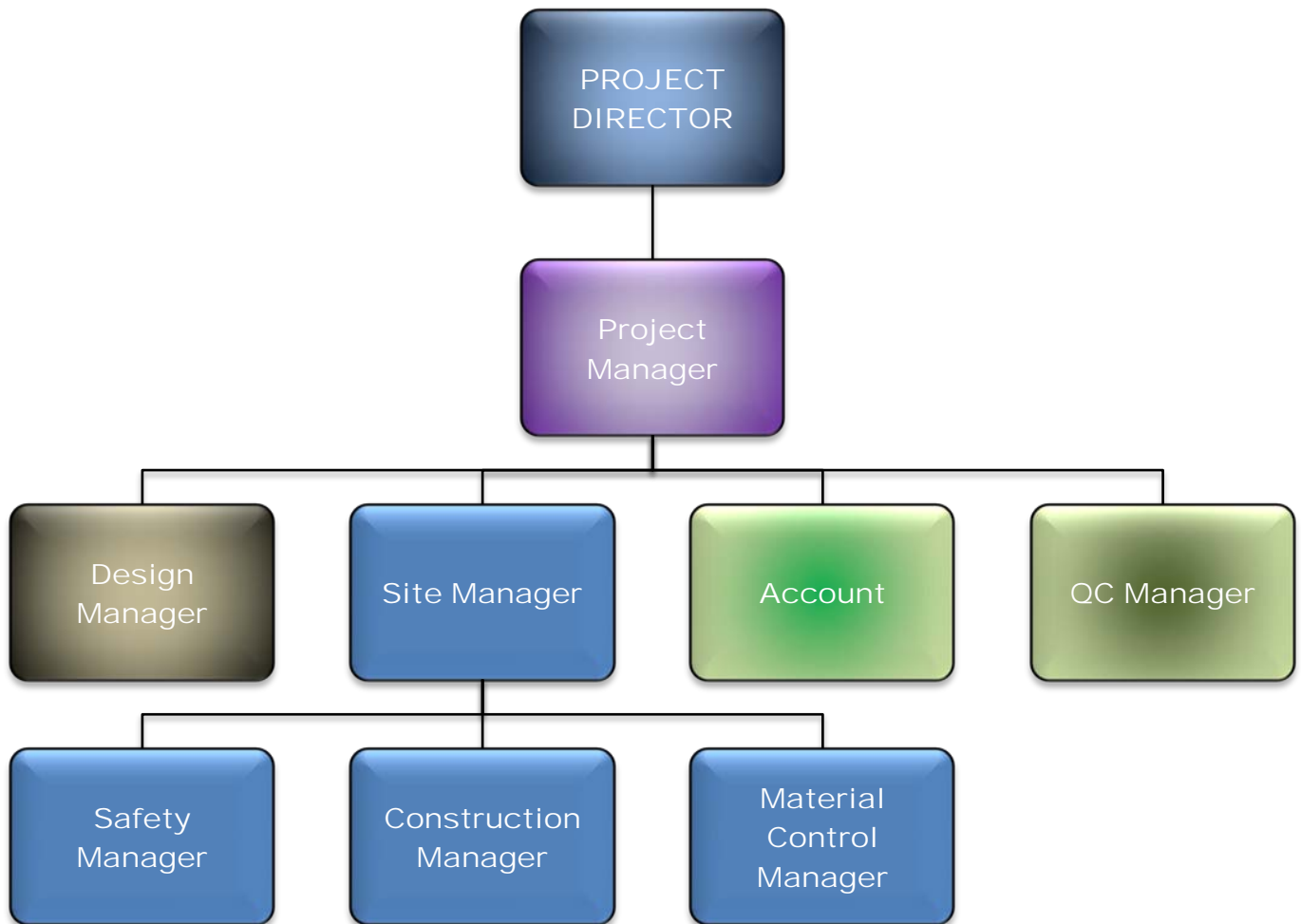
CHINA FACTORY



QINGDAO DONGAHE REFRIGERATION EQUIPMENT CO., LTD.

Engineering, Fabrication, Equipment Supply, Installation, Supervising & Commissioning, Maintenance

4) Project Organization



5) Fabrication & Test Facilities

■ Fabrication Facilities

No.	Equipment	Capacity	Remark
1	Air Compressor		3 SET
2	Hydraulic Bending M/C	Above Φ 600	1 SET
3	FAN Balancing Machine		STATIC
4	Radial Drilling Machine	1300 mm	2 SET
5	Fork Lift	2.5 TON / 7.5 TON	2 SET
6	High Speed Lathe	Φ 720	6 SET
7	Co2 Welding Machine	500A	9 SET
8	ARC Welding Machine		2 SET
9	Argon Welding Machine		2 SET
10	Ultrasonic Weld machine		2 SET
11	Sawing Machine	WBS-RC550AN	1 SET
12	Slot Machine (Slotter)		1 SET
13	Ceiling Crane	1 TON / 5 TON	4 SET
14	Hydraulic Punching M/C		2 SET
15	Multi Milling Machine		1 SET
16	Drilling & Tapping Machine		6 SET
17	Plasma Cutter		4 SET

■ Test Facilities

No.	Equipment	Capacity	Remark
1	Fan Performance Test Facility	Φ 2000, Φ 2400 / 22KW	
2	Wind Gauge(Thermometer)	TESTO 451	
3	Anemometer (Wind Gauge)	TESTOVENT 430	
4	Sound-Level Meter	CEL 254	
5	Vibration meter	3148	
6	Rpm Gauge	DT 223	
7	Thermometer	TECHNOTERN 9300	
8	Thermometer	CT 250	
9	Pressure Gauge		
10	Height Gauge	0 ~ 300 mm	
11	Dial Gauge	0.01 ~ 10 mm	
12	Out Side Micrometer	125 ~ 150 mm	
13	Cylinder Gauge	50 ~ 150 mm	
14	Flow meter	50A ~ 1000A	
15	Wind Gauge(Thermometer)	TESTO 451	

Contents

1) Scope of Services

2) Water Treatment Plant

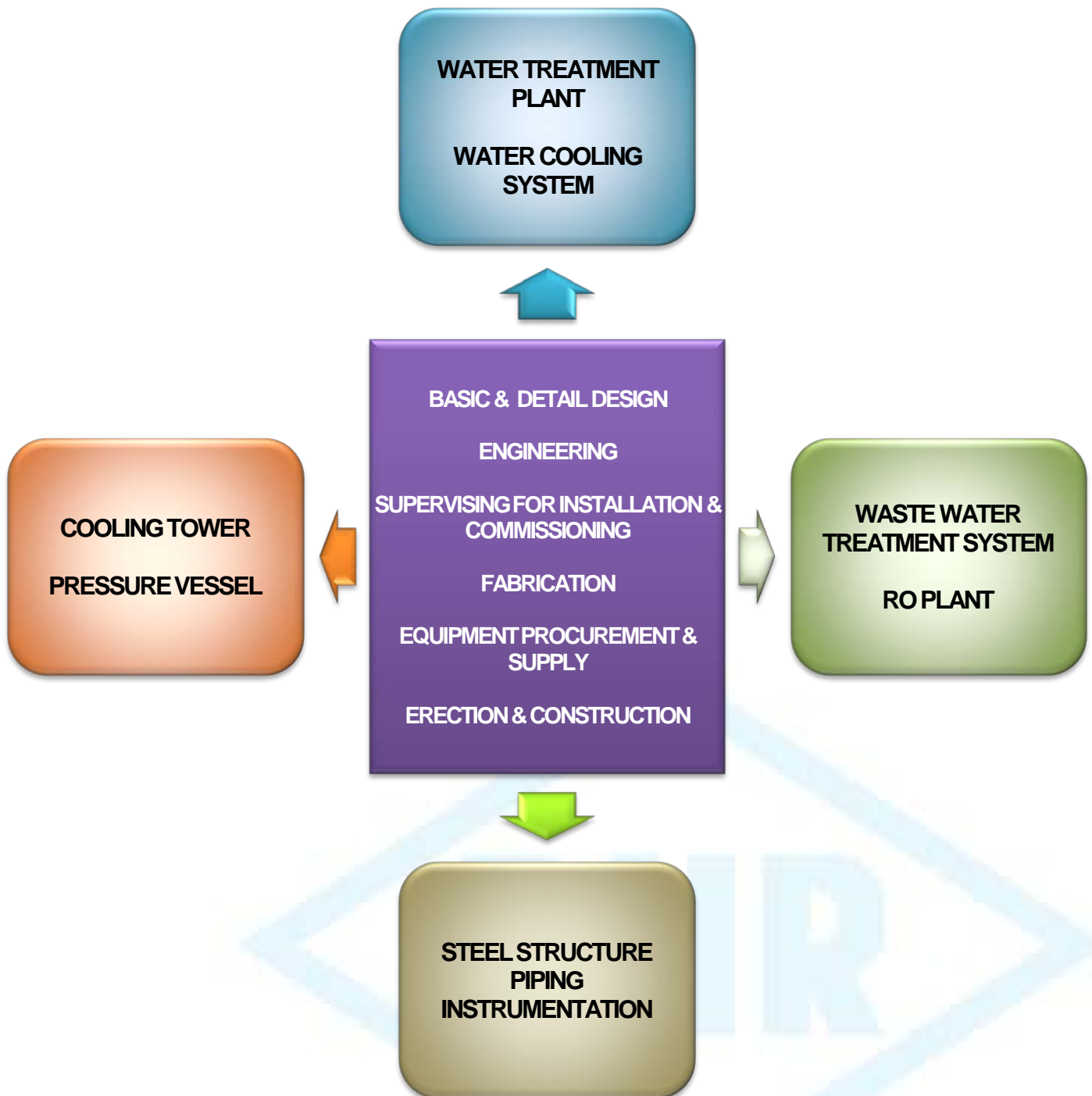
- Sludge Thickener
- Pump, Piping, Instrument & Valve
- Heater Exchanger System
- Chemical Dosing System
- Control Panel, Cable Tray & Wiring
- Softener System
- Demineralized Water System
- Auto Strainer & Gravel Filter
- Chemical Polymer Auto Feed System
- RO Plant
- Pipe Rack & Piping Work
- Installation

3)) Pressure Vessel

4)Cooling Tower

- Induced draft COUNTER flow type Cooling Tower
- Induced draft CROSS flow type Cooling Tower
- Induced draft Counter CLOSED CIRCUIT type Cooling Tower
- Forced draft Open CIRCUIT type Cooling Tower
- Plume Abatement System Cooling Tower
- Standardized Package Cooling Tower (TG, XT)

1) Scope of Services



2) Water Treatment Plant & Cooling System



Clarifier



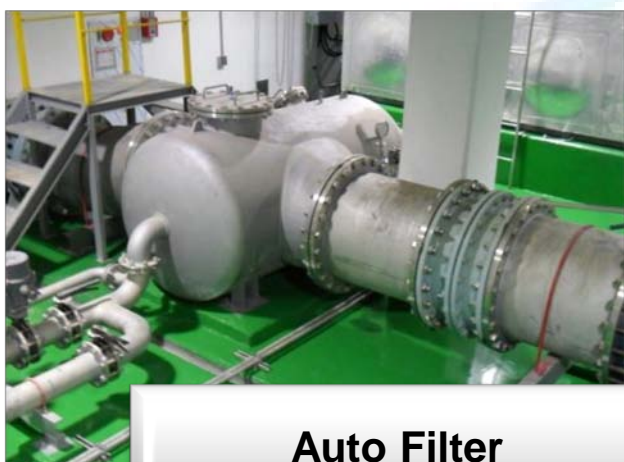
Cooling Tower & Water Cooling System



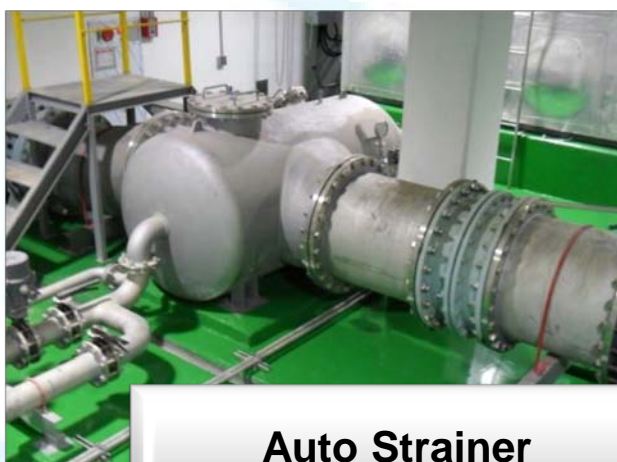
Chemical Dosing System



Heat Exchanger



Auto Filter



Auto Strainer

2) Water Treatment Plant & Cooling System



RO System



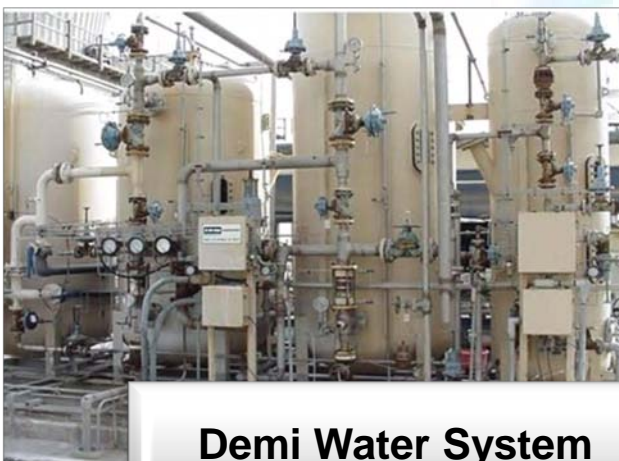
Gravel Filter



**Chemical Polymer Auto
Feed System**



Softener



Demi Water System



Belt Press

2. Business Category

2) Water Treatment Plant & Cooling System

3) Pressure Vessel



MCC, Control Center



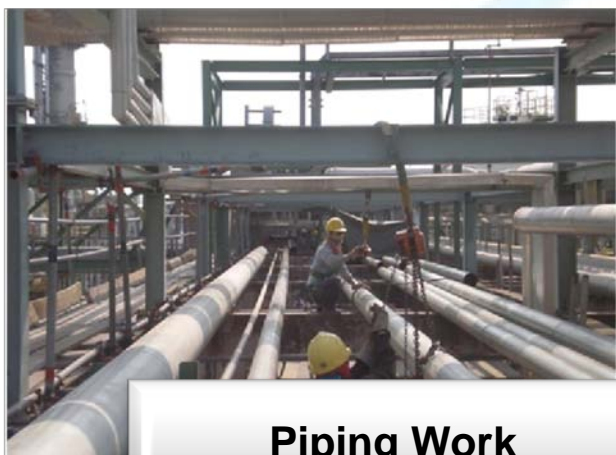
Local Panel



Cable Tray & Wiring



**Steel Structure &
Pipe Rack**



Piping Work



Pressure Vessel

4) Cooling Tower

**Basic Design, Detail Design, Engineering, Fabrication,
Equipment Supply, Installation & Construction, Supervising &
Commissioning, Maintenance**

**For Chemical Plant, Steel Mill Plant, Electronic Plant,
Power Plant, Commercial Building, . . .**

**Structure Material : HDG Steel, RF Concrete,
Fire-Retardant FRP, Wood(#CCA2), FRP**



**Counter flow type
Cooling Tower - RCC**



**Counter flow type
Cooling Tower - FRP**



**Counter flow type
Cooling Tower - HDGS**



**Cross flow type
Cooling Tower**

4) Cooling Tower



**Plume Abatement System
Cooling Tower**



**Closed Circuit Type
Cooling Tower**



**Forced Draft Open type
Cooling Tower**



**Standardized Package
(XT) type
Cooling Tower**



**Standardized Package
(TG) type
Cooling Tower**



**Fire Fighting System for
Cooling tower**

Contents

- 1) Business Registration
- 2) ISO 9001:2008 Certificate
- 3) Certificate for Water Treatment & Cooling System Engineering and Construction
- 4) Factory Registration Certificate
- 5) Certificate of Company Laboratory
- 6) Technological Innovation Association for S/M Business
- 7) Certificate of a patent - Plume Abatement System Cooling Tower
- 8) Certificate of a patent - Plume Abatement System Cooling Tower

3. Certificates

사업자등록증
(법인사업자)
등록번호 : 615-81-52600

법인명(단체명) : 동해공업(주)
대표자 : 송정환
개업년월일 : 2006년 12월 14일 법인등록번호 : 191311-0012501
사업장소재지 : 경상남도 밀양시 삼랑진읍 미전리 639-6
본점소재지 : 경상남도 밀양시 삼랑진읍 미전리 639-6

사업의종류 : ☒ 제조업 ☒ 건설업 ☒ 서비스업
☒ 농림업 ☒ 임업 ☒ 어업 ☒ 축산업 ☒ 광업
☒ 전기업 ☒ 가스업 ☒ 수도업 ☒ 운수업
☒ 숙박업 ☒ 음식점업 ☒ 도소매업 ☒ 기타서비스업
☒ 기타제조업 ☒ 기타건설업 ☒ 기타서비스업

국세청

사업자단위과세 적용사업자 여부 : 여() 부(☒)
전자세금계산서 전용매일주소 :
2013년 05월 03일
김해 세무서장

Business Registration

ABS Quality Evaluations
Certificate Of Conformance

This is to certify that the Quality Management System of
DONGHAE INDUSTRIAL CO., LTD.
#639-6 Miljeon-eil, Samyangjin-eup
Miryang-si
Gyeongsangnam-do
Korea

has been assessed by ABS Quality Evaluations, Inc. and found to be in conformance with the requirements set forth by
ISO 9001:2008
The Quality Management System is applicable to:
DESIGN/DEVELOPMENT, PRODUCTION, INSTALLATION AND SERVICING OF COOLING TOWER.

Alex Weissberg, President

Certificate No: 45609
Issue Date: 28 November 2010
Effective Date: 21 October 2011
Expiration Date: 20 October 2014
Issue Date: 21 October 2011

● ISO 9001:2008 Certificate

공장등록증명(신청서)

접수번호 접수일자 처리기간 즉시

신청인
회사명 동해공업(주) 전화번호 055-354-6977
대표자 성명 송정환 생년월일(법인등록번호) 191311-0012501
대표자주소(법인소재지) 경상남도 밀양시 삼랑진읍 미전리 639-6번지

등록내용
공장소재지 경상남도 밀양시 삼랑진읍 미전리 63-6번지 지목 공장용지 보유구분 자가 [☒], 임대 []
공장등록일 2012-01-03 사업시작일 종업원 수 남 : 49 여 : 3
공장의 업종(분류번호) 산업용 냉동 및 냉동 장비 제조업 외 1종(29171.29172)
공장부지면적 11,839.00㎡ 제조시설면적 2,248.25㎡ 부대시설면적 635.87㎡

등록조건
등록변경·증정등 기재사항 변경내용(변경 날짜 및 내용)
2012-01-06
「산업집적활성화 및 공장설립에 관한 법률 시행규칙」 제12조의3에 따라 위와 같이 공장등록증명서를 신청합니다.
2012년 01월 31일
신청인 한정훈
귀하

구비서류 없음 수수료 1000원

「산업집적활성화 및 공장설립에 관한 법률」 제16조() 제1항·() 제2항·(1) 제3항에 따라 위와 같이 등록된 공장임을 증명합니다.
2012년 01월 31일
밀양시장

Factory Registration Certificate

등록번호 제 2013-1 호

[] 대기
[☒] 수질
[] 소음·진동

환경전문공사업 등록증

1. 업체명: 동해공업(주)
2. 대표자의 성명: 송정환
3. 대표자의 생년월일: '72. 03. 17.
4. 환경전문공사업의 종류: 수질 환경전문공사업
5. 영업소 소재지: 경남 밀양시 삼랑진읍 미전리 639-6번지 (삼랑진읍 삼랑진로 465-32)
(전화번호: 055-354-6977)
6. 등록조건: 관련법 준수

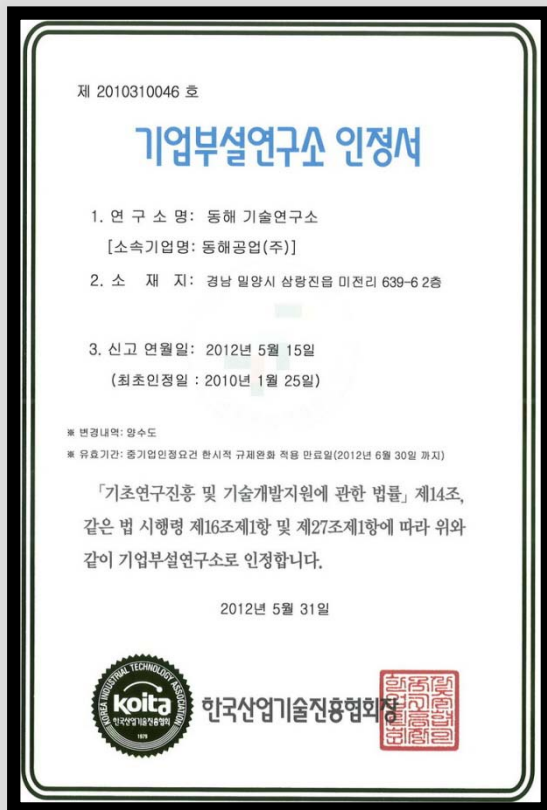
「환경기술 및 환경산업 지원법」 제15조, 같은 법 시행령 제22조의4 및 같은 법 시행규칙 제30조제4항에 따라 방지사설업의 등록을 하였음을 증명합니다.

2013년 5월 1일

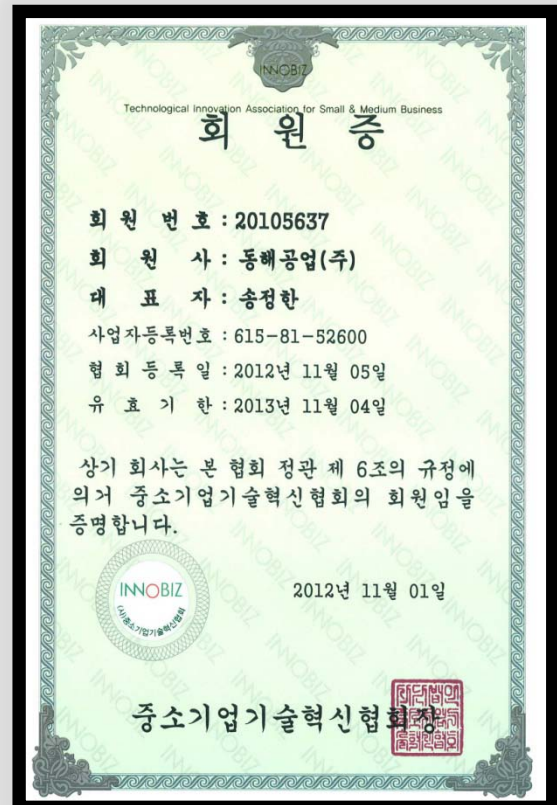
밀양시

Certificate for WTP ENG. & Construction

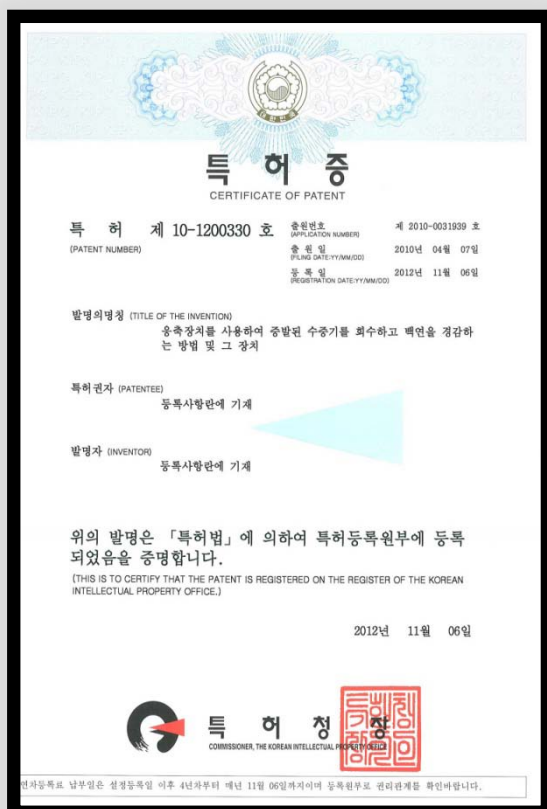
3. Certificates



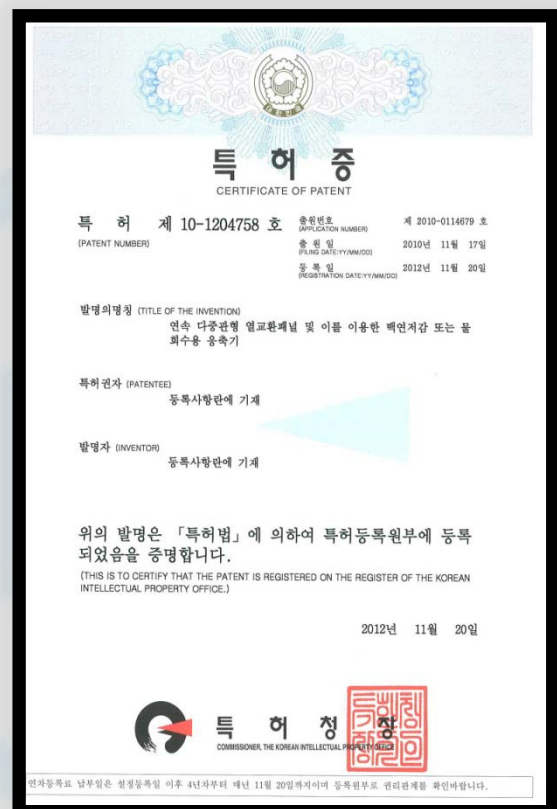
Certificate of Company Laboratory



Technological Innovation Association for S/M Business



Certificate of a patent- Plume Abatement System Cooling Tower



Certificate of a patent- Plume Abatement System Cooling Tower

Contents

- 1) Country of Supplied
- 2) Major Clients



1) Country of Supplied

As the 1st Cooling Tower Maker in Korea with 60 years experience, DONGAHE INDUSTRIAL CO. LTD's Cooling Towers & Water Treatment Systems have been operating throughout the country from the southernmost island to the North Korea.



America	USA, Brazil, Mexico, Venezuela, El Salvador
Asia	China, Indonesia, Malaysia, Philippine, Myanmar, Vietnam, Cambodia, Thailand , Japan
Middle East & Africa	Saudi Arabia, Bahrain, UAE, Oman, Yemen, Egypt Sudan, Algeria, Madagascar India, Pakistan, Iran, Uganda, Iraq,
Europe	Russia, Poland, Germany

4. Supply Reference

2) Major Clients

