ELIPS

EMPOWER LOGSTOR Insulated Pipe Systems

SECOND EDITION

PRE - INSULATED PIPE TECHNOLOGY

www.elips.ae

2020 Edition

“Our achievements are driven by a positive energy and spirit that is felt by everyone who lives in our emirate, inspiring creativity and harmony and uniting more than 200 nationalities. In the fabric of Dubai there are more than 2.1 million stories – the individual lives and experiences of all those who call Dubai home.

A city’s story is created by its people and as we look towards a prosperous future, it’s time to join together and show the world how 2.1 million people can create one remarkable story. Together we will create the world’s first autobiography of a city.”

HIS HIGHNESS SHEIKH MOHAMMED BIN RASHID AL MAKTOUM
RULER OF DUBAI,
VICE PRESIDENT & PRIME MINISTER OF THE UAE

HIS HIGHNESS SHEIKH HAMDAN BIN MOHAMMED BIN RASHID AL MAKTOUM

CROWN PRINCE OF DUBAI

“As citizens and residents of the UAE, we are committed to the great vision of our leaders who took us to the forefront of modern world through development, technology, and innovation. Businesses and industries in the UAE generally and in Dubai specifically are tailor-made to meet highest standards of quality and technical perfection. We are nurtured in a culture of innovation and continuous improvement in everything we do, and we understand that success is a natural outcome of passion, commitment, innovation and seizing the right opportunity.”

Chairman’s Message

ELIPS has completed 10 years in its operations with a successful record of accomplishment in manufacturing high quality pre-insulated pipes and providing innovative solutions in fittings. ELIPS has become a leading player in the pre-insulated pipe manufacturing industry across the GCC countries and Egypt through more than 150 projects completed in various industrial domains, especially the district cooling sector.

The pre-insulated pipe industry has witnessed a significant growth over the past few years and is projected to grow in the coming years, despite challenging market conditions. District Cooling sector, one of the fast growing sectors worldwide, generates a massive demand for pre-insulated pipes amongst other sectors, such as oil, gas, solar and marine sectors. Being a pioneer in the district cooling sector, Empower (the parent company of ELIPS) invested in this backward integration opportunity and collaborated with Denmark’s Logstor, to establish a UAE-Danish joint venture in the name of ELIPS.

ELIPS’ manufacturing plant in Dubai is the UAE's largest plant that leverages the latest robotics-driven manufacturing technologies in the production of thermal insulation materials that meet the highest energy efficiency standards (European Standards (EN)). The company is equipped with manufacturing facilities of pre-insulated pipes, fittings, field-joints & valves that range from DN 25mm up to DN 2000mm. Over the past 10 years, ELIPS has manufactured and supplied approximately 500 kms of pre-insulated piping systems to various prestigious projects, to name a few are: Bluewaters Island (UAE), Business Bay (UAE), Nshama Town Square (UAE), Dubai Parks (UAE), Saraya Island (UAE), Saadiyat Island (UAE), Public Pension Agency Development (KSA), Head Quarters of the Royal Guard (Oman), Rayheen (Oman), Kuwait University (Kuwait), Smart Village (Egypt), Hurghada International Airport (Egypt) and many others.

ELIPS is commencing the second decade of its operations with bigger ambitions and goals that are more valuable. All these could not have been achieved without the active support of all of our stakeholders. I express my deepest gratitude to all of you for your guidance, cooperation and dedication extended towards achieving the significant milestones in ELIPS’ journey over the past 10 years. With your continuous support, we are determined to become the largest supplier of pre-insulated pipes and fittings to the region's key industrial sectors.

Ahmad Bin Shafar
Chairman - ELIPS

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ABOUT ELIPS

Empower Logstor Insulated Pipe Systems (ELIPS) is a joint venture between Emirates Central Cooling Systems Corporation (Empower), the world's largest district cooling services provider, and Logstor Denmark, a pioneer in the field of pre-insulated pipe systems with more than 50 years of experience in the sector. ELIPS was established in 2010 in Dubai, UAE and has since then become a leading manufacturer of pre-insulated pipes and provider of innovative solutions in fittings, in the industry across the GCC countries and the North Africa region.

Catering to the demand for pre-insulated pipes and fittings from various industrial domains, such as District Cooling, Oil, Gas, Solar, Marine and other industrial sectors, ELIPS has completed serving more than 150 prestigious projects in the period of last 10 years of its operation. District Cooling systems are very efficient to provide cooling to residential and commercial facilities. Chilled water is the medium used in these systems to transfer energy from the district cooling plant to its end consumers and pre-insulated piping systems are the key to efficiently bring energy where it is needed.

Headquartered in the Jebel Ali industrial area, Dubai, on an area spanning over 100 million square feet, ELIPS has the UAE's largest plant that leverages the latest robotics-driven manufacturing technologies in the production of thermal insulation materials that meets the highest energy efficiency standards. The manufacturing plant of ELIPS is a state-of-art facility having capacity for producing pre-insulated pipes, fittings, field-joints & valves that range from DN 25mm up to DN 2000mm. Based on recognized European Standards (EN), ELIPS has achieved Zero Defects Plan in its operations since inception.

ELIPS has shown a very robust operational and financial performance in the past years with production and supply of approximately 500 kilometers of pre-insulated piping systems for various projects in the United Arab Emirates, Oman, Kuwait, Kingdom of Saudi Arabia, and other Gulf countries, and Egypt with total sales of over AED 800 million.

ELIPS is administered by a set of corporate philosophies, objectives and KPIs, quality policies and procedures, and effective Corporate Governance. The company is known for its quality products and high standards in production in the industry. ELIPS' quality management systems are certified to the standards of the European International Network for District Cooling, and has achieved international certifications such as EURO HEAT, ISO 9001, ISO 14001, and ISO 45001.

ELIPS' products are widely accepted in the industry that contribute to environmental protection, as ELIPS is the only pre-insulated pipe manufacturer in the region that uses CFC free blowing agent which contributes to the reduction of CO2 emissions and improve energy efficiency.

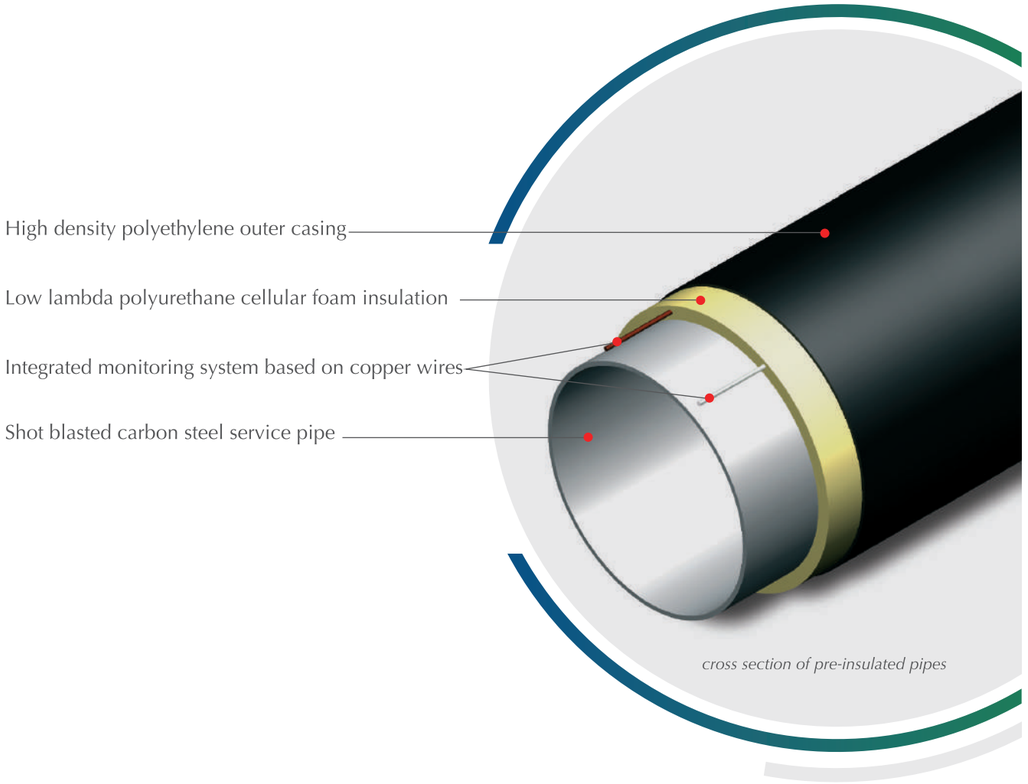
VISION & MISSION

OUR VISION

Our vision is to be a leading global Thermal Insulation provider, capable of producing world-class pre-insulated pipes solutions to our customers.

OUR MISSION

At ELIPS, we believe that progress must be achieved in harmony with the environment. A commitment to community welfare and environmental protection are integral part of the ELIPS manufacturing processes. We aim to develop and adopt new technologies which reduce CO2 emissions and efficient energy transfer.



cross section of pre-insulated pipes

WHY ELIPS

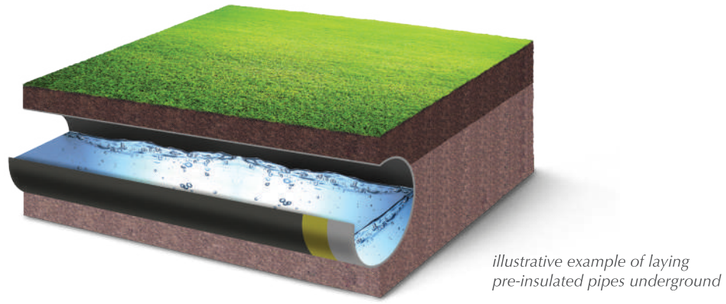
- Based on 50 years' experience
- Investment & Operation Cost saving
- International test certificates
- Last more than 30 years

THE ELIPS ADVANTAGES

ELIPS has the full product line offering a comprehensive solutions engineered to meet the specific requirements of district cooling industry specifically and for other sectors including Oil, Gas, Solar and Marine sectors. Specifying pre-insulated pipes manufactured at ELIPS for transportation of liquids provides energy-efficiency and also helps you to reap multiple advantages, with significant bottom-line benefits.

- Extremely versatile – can be laid underground, on the surface or across rooftops, for lowest possible installation costs.
- Exceptional dependability and long service life, with unusually low inspection, maintenance and repair costs.
- Build on existing know-how and technology familiarity with expertise of more than 50 years, reducing engineering costs.
- International certifications include ISO, Euroheat & QHSA, assures product quality and standards.
- Easily budgetable operating costs, with no unforeseen surprises.
- No need for painting, coating or any other corrosion protection for the service pipe, saving on project costs.
- No need to install a cathodic protection system to prevent corrosion from the outside, saving on project costs.
- Easy, relatively inexpensive installation of leak detection systems.
  The insulation stays completely dry even when the pipe is installed in water. Avoids thermal bridges due to pipe supports, because the piping is supported on the outside of the casing.
- No condensation on the outside of the pipe when mounted indoors.

Impervious to surroundings. The insulation can withstand even roughest treatment and effects of the most dramatic weather fluctuations



illustrative example of laying pre-insulated pipes underground

ELIPS
DISTRICT COOLING SYSTEM GUIDE SPECIFICATION

1. GENERAL

1.1 All chilled water piping shall be supplied as pre-insulated bonded carbon steel service pipe with rigid closed cell polyurethane foam insulation (PUR) and with high-density polyethylene (HDPE) outer casing manufactured by ELIPS.

1.2 Works, pipes and components shall meet the technical and environmental requirements of the applicable directives and harmonised standards. Health and safety requirements and the function of safety related systems must be fulfilled.

1.3 The pre-insulated bonded piping supplied shall be designed, manufactured and installed in accordance with the following codes.

Pre-insulated pipes	EN 253
Fitting assemblies	EN 448
Steel valve assembly	EN 488
Joint assembly	EN 489
Surveillance system	EN 14419
Design and installation	EN 13941

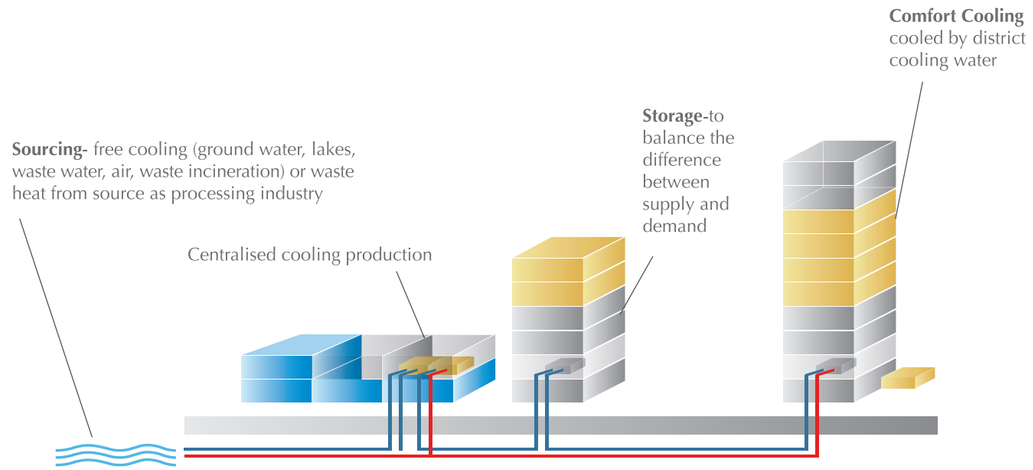
1.4 The piping system shall be designed for a calculated lifetime of minimum 30 years with the following basic design criteria:

- Design pressure 1600 kPa (Max. operating pressure: 2500 kPa).
- Operating temperature range 2 - 20°C (Max. cont. operating temperature: 140°C).
- Soil temperature 10 - 50°C (Max. short peak temperature: 150°C).
- Max. ambient temperature 50°C (During Installation).

1.5 The circulated water intended for the DC-system shall be treated and have a quality (pH-value, conductivity, contents of oxygen, chlorides etc) in accordance with the Operating Company's requirements in order to not jeopardize the structural design and endurance of the system.

1.6 Handling, design, installation and inspection of pre-insulated piping shall be in accordance with the manufacturer's written instructions.

1.7 The manufacturer shall provide technical assistance and supervision during critical phases of installation.



2. QUALITY ASSURANCE

2.1 The processing and manufacturing of products shall be in accordance with a Quality and Environment Management System certified in accordance with ISO 9001:2015 and ISO 14001:2015

2.2 All production methods shall be certified according to Euro Heat & Power Certification Guidelines for Quality Assessment that prove conformity to requirements of applicable European standards.

3. SERVICE PIPE MATERIAL

3.1 Service pipe material shall be longitudinal or spiral welded according to ASTM A 53 /API 5L GrB.

3.2 Elbows, T-pieces, reducers and other butt-welding pipefitting shall fulfill requirements in accordance with ASME B16.9 / ASTM A234.

3.3 Straight lengths shall be supplied in SRL or DRL.

3.4 Tolerances for diameter, wall thickness and straightness shall be in accordance to ASTM A 53 / API 5L GrB.

3.5 Prior to insulation all steel pipes and components shall be cleaned and shot blasted with steel shots for optimal bonding between service pipe and insulation.

3.6 All steel pipes and components used for fabrication of pipe assemblies shall, on request be delivered with inspection mill certificate as per ASME 31.1.

4. THERMAL INSULATION

4.1 All pipes and fittings shall be delivered pre-insulated with CFC-free rigid closed cell polyurethane foam applied at factory in accordance with EN 253.

4.2 The polyurethane foam shall be applied by either spraying or moulding onto the service pipe in a continuous process after which the casing is extruded on top of the insulation or by injection of polyurethane foam into the annulus between the service pipe and the pre-extruded PE-HD casing.

Property	Value	Test Standard
Density spray technology	≥ 55 kg/m3	EN 253
Density injection technology	≥ 55 kg/m	EN 253
Thermal conductivity	≤ 0.023 W/m K (at 10°C)	EN 253
Voids and bubbles	≤ 5% of cross sectional area	EN 253
Compressive strength	≥ 0,3 MPa	ISO 844
Closed cell content	≥ 88%	EN 253
Cell size	≤ 0.3 mm	EN 253
Water absorption	≤ 10%	EN 253

4.3 Cyclopenthane shall be used as blowing agent. CO2, CFC or HCFC foam shall not be allowed.

4.4 Open cell insulation or non-bonded insulation shall not be allowed.

5. OUTER CASING JACKET PIPE

5.1 The outer casing jacket pipe shall be seam-less and extruded from UV-stabilized bimodal high-density polyethylene of minimum PE80 in accordance with ISO 12162.

5.2 Material properties in accordance with EN 253 listed below:

Property	Value	Test Standard
Density	944 kg/m3	EN 253
Carbon black content	2.5 % +/- 0.5 %	EN 253
MRF-variation	0.2 - 0.7g/10 min	EN/ISO 1133 (5kg, 190°C)
Oxygen Induction Time	> 30 minutes at 210°C (EN 728)	EN 728
Elongation at break	350 %	IEN 253
Heat reversion	< 3%	EN/ISO 2505
NCL T	> 300 h	EN 253
Rapid Crack Propagation	> 5 bar	ISO 13377

5.3 The following outer casing wall thickness shall apply for extrusion of PE-HD on top of the insulation using the spray process technology:

Nominal Outside Diameter (mm)	Minimum Wall Thickness (mm)
400 OD < 800	4
800 OD < 1200	8
1200 OD < 1600	11
1600	12.5

5.4 The following casing dimension shall be used for injection:

Nominal Outside Diameter (mm)	Minimum Wall Thickness (mm)
90	3.0
110	3.0
125	3.0
140	3.0
160	3.0
180	3.0
200	3.2
225	3.4
250	3.6
280	4.0
315	4.1
355	4.5
400	4.8
450	5.2
500	5.6
560	6.0

5.5 The outer casing jacket pipe must be internally corona-treated prior to injection of foam into the annulus between the steel service pipe and the outer casing to ensure optimal bonding between outer casing and insulation.

6. PRE-INSULATED PIPE ASSEMBLY

6.1 Thickness of insulation shall be minimum 25 mm depending of pipe dimension and insulation series chosen.

6.2 Pipe ends of straight pipes and fittings shall be delivered free from insulation with a length of 150 ± 10 mm for welding in the field.

6.3 All steel pipe ends shall be delivered with a plastic cover for transportation and storage protection.

6.4 The following maximum centre line deviation shall apply.

Nominal Outside Diameter casing pipe (mm)	Minimum centre line deviation (mm)
90 – 160	3.0
180 – 400	5.0
450 – 630	8.0
710 – 800	10.0
900 –1400	14.0
1400	18.0

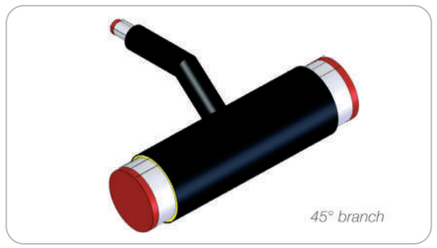
6.5 The manufacturer shall prove that there is bonding between the service pipe and polyurethane insulation and between the insulation and the outer casing pipe which fulfil the requirements according to EN 253 by presenting a test certificate from a third party technical test institute.

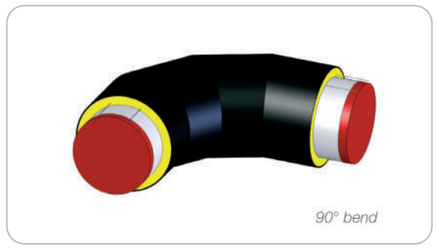
6.6 The following properties shall apply:

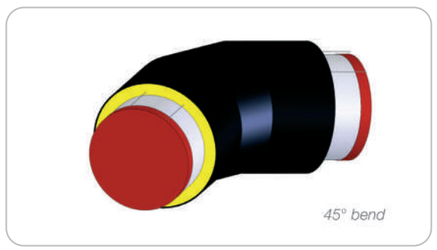
Property	Value	Condition	Test Standard
Axial shear strength	> 0.12 MPa	23°C; new and aged	EN 253
Axial shear strength	> 0.08 MPa	140°C; new and aged	EN 253
Tangential shear strength	> 0.20 MPa	23°C; new and aged	EN 253

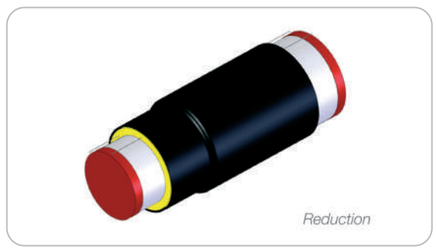
7. FITTINGS

- All fittings will be pre-fabricated thermally insulated fittings comprising a steel fitting, rigid polyurethane foam insulation and an outer casing of high-density polyethylene with the same material properties as for straight pipes.
- All pre-insulated fittings will have embedded copper wires for surveillance.
- Service pipe material will be according to ASTM A 53 /API 5L GrB.
- Butt-welding pipe fittings will be in accordance with ASME B16.9 / ASTM A234.
- The insulation will be CFC-free rigid closed cell polyurethane foam in accordance with EN 253.
- The casing will be bimodal high-density polyethylene (HDPE) of minimum PE 80 according to ISO 12162.
- PVC or GRP material for casings will not be allowed.
- Hot air welding, adhesive sealing or tape material will not be allowed.
- Pipe ends of straight pipes and fittings will be delivered free from insulation with a length of 150 ± 10 mm for welding in the field.


45° branch


90° bend


45° bend


Reduction

7.1 Bends

- Pre-fabricated bends shall be in accordance with EN 448.
- Steel bends shall be welded 1.5D minimum centre line radius or bent to a 2.5D centre line radius.

7.2 Branches

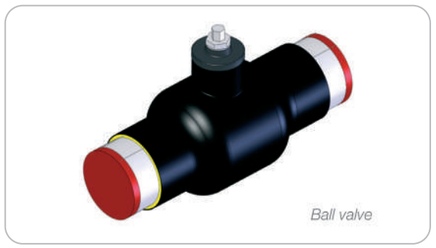
- Pre-fabricated branches shall be in accordance with EN 448.
- Full and reducing branch Tees shall be welded, or integrally reinforced branch outlet fittings in accordance with ASME 16.9.
- Weld-o-lets can be used for reducing Tees in field applications.

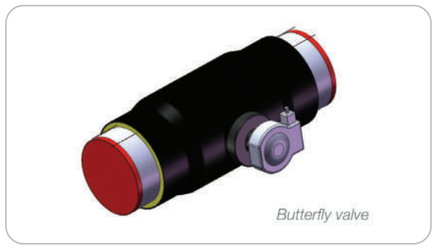
7.3 Reducers

- Pre-fabricated reducers shall be in accordance with EN 448.

7.4 Isolation valves

- Isolation valves shall be in accordance with EN 488.
- The valve body shall be fully welded. No flanges or screwed connections shall be allowed.
- All valves shall have tightness class acc. to EN12266-1, Rate B.
- The valves shall withstand an axial stress of 300 MPa (N/mm2).
- Spindles and uncovered parts shall either be of stainless steel or corrosion protected.
- Ball valves shall have an all-welded steel body and polished stainless steel ball, fitted with spring loaded teflon seat. Operation of ball valves shall be by gear or actuator for dim ≥ ø 219.1 mm, Butterfly valves shall have an all-welded steel body and polished stainless steel disc, fitted with metal seat. Operation of butterfly valves shall always be by gear or actuator.


Ball valve


Butterfly valve

8. FIELD JOINTS

8.1 Field joints shall be designed to withstand severe working conditions and shall remain sealed during the pipe systems lifetime.

8.2 All field joints shall comply with requirements in EN 489 as minimum and all materials belonging to field joints and the installation shall be furnished by the pre-insulated pipe manufacturer.

8.3 Shrink joint shall be made of cross-linked polyethylene (PEX) with integrated mastic. Shrink joint shall be installed by means of a soft gas flame.

8.4 The field joint kit to include heat shrinkable sleeves, Aluminium sheet to form mould, polyurethane chemicals.

8.5 The joint insulation foam shall be CFC-free rigid closed cell polyurethane foam with the same properties as for insulation in pipes and fittings.

8.6 Prior to joint installation the steel service pipe shall be hydrostatically pressure tested at minimum of 1.5 times the design pressure in accordance with EN 13941.

8.7 Prior to insulation the joints shall be pressure tested according to the manufacturer's instructions.

FIELD JOINTS

Shrinkable joint

9. SURVEILLANCE SYSTEM

9.1 All pre-insulated straight pipes and fittings shall as minimum have two embedded sensor wires in the insulation at a fixed distance from the steel pipe for surveillance.

Sensor wires	1.5 mm2 copper wire
Wire resistance	1.2 - 1.5/100m wire
Distance to steel service pipe	15 mm
Position	± 30 - 200 mm from 12 o'clock position

9.2 The surveillance system shall comply with EN 14419.

9.3 The function of the surveillance system shall be based on the electric properties of the insulation changing with the moisture content.

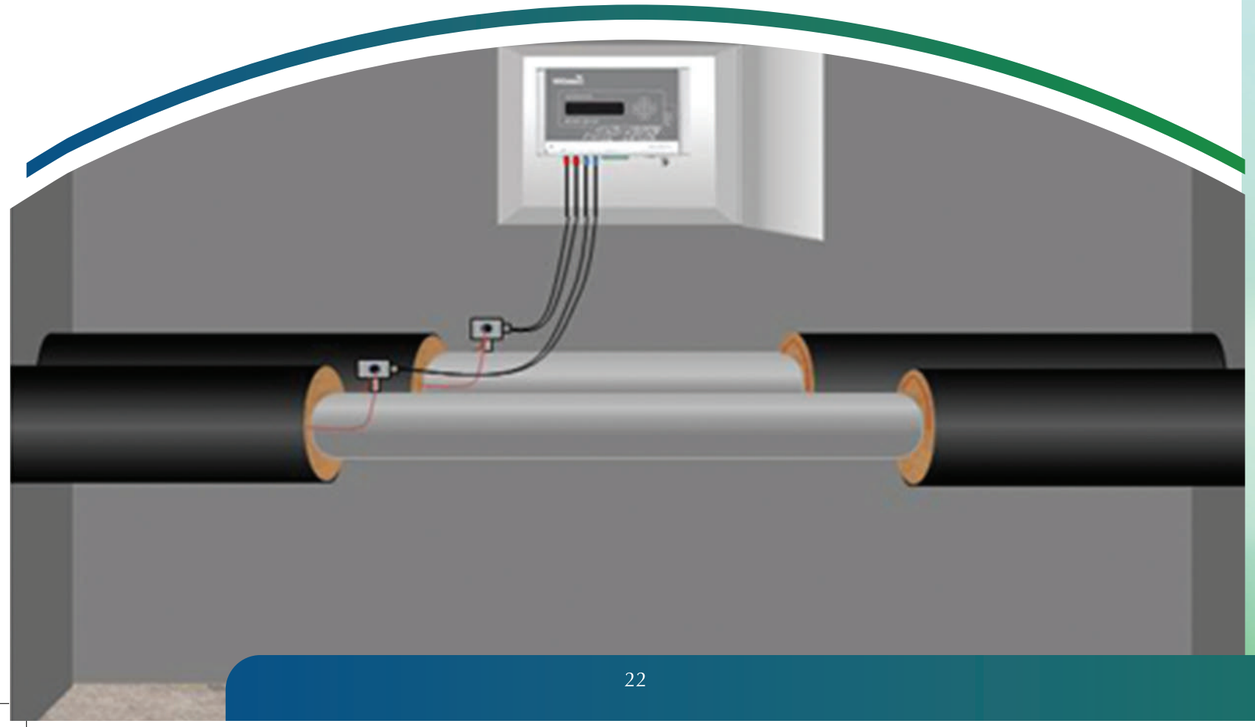
9.4 The monitoring system shall be able to survey the entire system including straight pipes, bends, branches and other fittings and be capable of detecting more than one leak after acknowledgement of previous or current leak.

9.5 The monitoring system shall comprise a microprocessor unit that does fast and easy detection and localizes any fault by using a built-in pulse echometer (TDR) also called Cable Radar. The unit shall have an integrated function to ensure that the surveillance system is intact at all times.

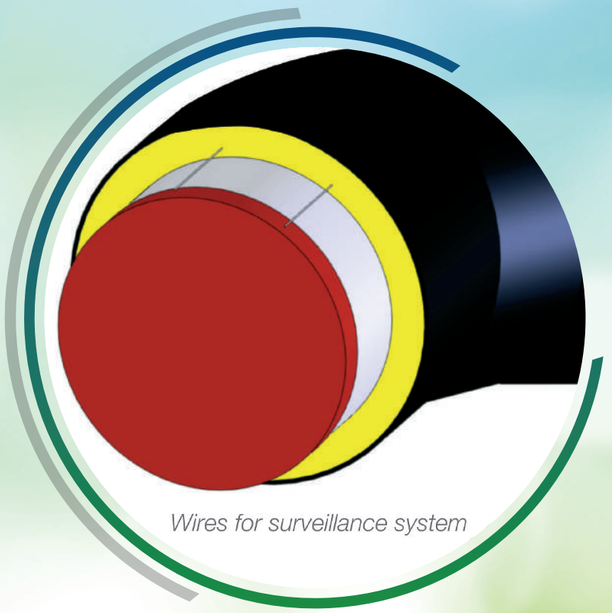
9.6 The surveillance system shall work as a fully documented system taking measurements of each increment of the entire sensor wires and storing the received data in a data base memory, with the measurement after one month of operation with operating temperature as start-up data. In monitoring mode actual data and start-up data shall be compared in order to detect deviations.

9.7 The signal range shall be minimum 3000m of pipeline with accuracy of less than 1m.

9.8 The unit shall easily be connected to a computer by means of signal cable, Internet or GSM (TCP/IP protocol).



LDS



Wires for surveillance system

10. INSTALLATION

10.1 Handling and installation of the pre-insulated District Cooling System shall be done;

- in accordance with the installation plan and the system manufacturers' instructions.
- in accordance with the design documentation so to ensure adequate safety of fitters and other personnel on site as well as any third person.
- so that installation and operation do not harm to other structures or installations conversely those structures and installations shall not be able to cause damage to the pipe system.

10.2 Whenever pipes and components are handled, precautions shall be taken to avoid damaging the PE casing.

10.3 If pipes are to be cut, this shall be done perpendicular to the pipe axis. Pre-insulated fitting shall not be shortened.

10.4 Welders shall be qualified and have a valid certificate in accordance with EN 287-1 for the techniques, material groups, dimension range and welding position concerned.

10.5 Joint edge preparation and adaption of possible misalignment and difference in wall thickness shall be done in accordance with EN 13941.

10.6 Inspection, examination and NDT of steel welds shall be performed by qualified and capable personnel and by well-proved and documented methods. NDT is generally done by radiography and can be supplemented or replaced by ultrasonic examination after agreement.

10.7 Field joint installation shall be done in accordance with pre-insulated pipe manufacturer's instructions by trained and experienced personnel (fitters). The manufacturer shall provide necessary education, training and supervision on request.

11. FIELD SERVICE

11.1 The pre-insulated pipe manufacturer shall, on request, provide training, assistance and/or supervision during critical periods of the project such as;

- Product/system training
- Unloading/handling
- Installation training
- Field joint installation
- Testing

11.2 Fitters shall be educated and trained by factory-trained technicians with high competence and experience from using the manufacturers field joints.

CERTIFICATIONS

EUROHEAT & POWER

CERTIFICATE NUMBER 01/25

PRODUCT "ELIPS" semi-continuous pre-insulated district heating pipes, single system, with service pipes DN 200 – 1200 and casing pipes 315 – 1400 mm

LICENSEE ELIPS, Empower Logstor L.L.C, P.O. Box 390133, Dubai, United Arab Emirates

PRODUCTION PLANT ELIPS, Empower Logstore L.L.C, Jebel Ali Industrial Area, Dubai, United Arab Emirates

EUROHEAT & POWER

GUIDELINES: EHP/001
CERTIFICATE: 01/25

VALID UNTIL 17.03.2025

This certificate is granted in accordance with the Euroheat & Power Certification Guidelines for Quality Assessment of District Heating Pipes [001]

Name, Signature: Johan Åkesson

Date, Place: 18.03.2019, Borås

RI. SE

RISE Research Institutes of Sweden
Box 857
SE-50115 Borås
Sweden
www.ri.se

The production complies with EN 253, EN 448 and EHP Certification Guidelines [001].

The licensee may use the Euroheat & Power Certification Board quality mark.

The certificate is valid only for the production plant mentioned in the certificate.

The materials used are contained in the confidential Annex to this certificate.

The certificate is valid for 6 years subject to periodic surveillance.

Refer to the Euroheat & Power Certification Guidelines [001] for full requirements and conditions

certificate

CERTIFICATIONS

EUROHEAT & POWER

CERTIFICATE NUMBER 01/38

PRODUCT	"ELIPS" traditional pre-insulated district heating pipes and fittings, single system, with service pipes DN 25 – 400 and casing pipes 90 – 500 mm
LICENSEE	ELIPS, Empower Logstor L.L.C, P.O. Box 390133, Dubai, United Arab Emirates
PRODUCTION PLANT	ELIPS, Empower Logstore L.L.C, Jebel Ali Industrial Area, Dubai, United Arab Emirates

EUROHEAT & POWER

GUIDELINES: EHP/001
CERTIFICATE: 01/38

VALID UNTIL 08.12.2025

This certificate is granted in accordance with the Euroheat & Power Certification Guidelines for Quality Assessment of District Heating Pipes [001]

Name, Signature	Date, Place
Dag Sjöholm	09.12.2019, Borås

RI. SE

RISE Research Institutes of Sweden
PO Box 857
SE-50115 Borås
Sweden
www.ri.se

The production complies with EN 253, EN 448 and EHP Certification Guidelines [001].

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certificate

CERTIFICATIONS

BUREAU VERITAS Certification

EMPOWER LOGSTOR (L.L.C)

**PLOT NO. 599/1149, JEBEL ALI INDUSTRIAL AREA NO. 1, DUBAI,
UNITED ARAB EMIRATES**

Bureau Veritas Certification Holding SAS – UK Branch certifies that the Management System of the above organisation has been audited and found to be in accordance with the requirements of the management system standards detailed below

ISO 9001:2015

Scope of Certification

SALES AND PRODUCTION OF PRE-INSULATED PIPES AND FITTINGS

Original cycle start date: **22nd JUNE 2020**
Expiry date of previous cycle: **NA**
Certification Audit date: **5th MARCH 2020**
Certification cycle start date: **22nd JUNE 2020**
Subject to the continued satisfactory operation of the organization's Management System, this certificate expires on: **19th DECEMBER 2021**
Certificate No. **MER20.545/UQ 16-16** Version No. **1**, Revision date: **22/06/2020**

Signed on behalf of BVCH SAS UK Branch

UKAS MANAGEMENT SYSTEMS 0008

Certification body address: 5th Floor, 66 Prescot Street, London E1 8HG, United Kingdom
Local office: Bureau Veritas – Dubai Br., 2nd Floor, Block C, Al Hudaiba Awards Building, Jumeirah Road with 2nd December Interchange, Dubai, U.A.E.

Further clarifications regarding the scope of this certificate and the applicability of the management system requirements may be obtained by consulting the organisation.
The validity of this certificate depends on the validity of the main certificate.
To check this certificate validity please call: 00971 4 3074400

CERTIFICATIONS

BUREAU VERITAS
Certification

EMPOWER LOGSTOR (L.L.C)
PLOT NO. 599/1149, JEBEL ALI INDUSTRIAL AREA NO. 1,
DUBAI,
UNITED ARAB EMIRATES

Bureau Veritas Certification Holding SAS – UK Branch certifies that the Management System of the above organisation has been audited and found to be in accordance with the requirements of the management system standards detailed below

ISO 14001:2015

Scope of Certification

SALES AND PRODUCTION OF
PRE-INSULATED PIPES AND FITTINGS

Original cycle start date: **22nd JUNE 2020**
Expiry date of previous cycle: **NA**
Certification Audit date: **5th MARCH 2020**
Certification cycle start date: **22nd JUNE 2020**
Subject to the continued satisfactory operation of the organization's Management System, this certificate expires on: **19th DECEMBER 2021**
Certificate No. **MER20.545/UE 16-16** Version No. **1**, Revision date: **22/06/2020**

Signed on behalf of BVCH SAS UK Branch

Certification body address: 5th Floor, 66 Prescot Street, London E1 8HG, United Kingdom
Local office: Bureau Veritas – Dubai Br., 2nd Floor, Block C, Al Hudaiba Awards Building, Jumeirah Road with 2nd December Interchange, Dubai, U.A.E.

Further clarifications regarding the scope of this certificate and the applicability of the management system requirements may be obtained by consulting the organisation.
The validity of this certificate depends on the validity of the main certificate.
To check this certificate validity please call: 00971 4 3074400

CERTIFICATIONS

BUREAU VERITAS
Certification

EMPOWER LOGSTOR (L.L.C)
PLOT NO. 599/1149, JEBEL ALI INDUSTRIAL AREA NO. 1,
DUBAI,
UNITED ARAB EMIRATES

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ISO 45001:2018

Scope of Certification

SALES AND PRODUCTION OF
PRE-INSULATED PIPES AND FITTINGS

Original cycle start date: **9th MARCH 2021**
Expiry date of previous cycle: **NA**
Certification Audit date: **30th DECEMBER 2020**
Certification cycle start date: **9th MARCH 2021**
Subject to the continued satisfactory operation of the organization's Management System, this certificate expires on: **19th DECEMBER 2021**
Certificate No. **MER20.545/UOH 16-16** Version No. **3**, Revision date: **09/03/2021**
Previous Certificate No. **NA**

Signed on behalf of BVCH SAS UK Branch

Certification body address: 5th Floor, 66 Prescot Street, London E1 8HG, United Kingdom
Local office: Bureau Veritas – Dubai Br., 2nd Floor, Block C, Al Hudaiba Awards Building, Jumeirah Road with 2nd December Interchange, Dubai, U.A.E.

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ELIPS PROJECTS

PROJECT NAME	COUNTRY	CLIENT	CONSULTANT	CONTRACTOR	YEAR
Yas Island Development-Water Edge Project	U.A.E	Aldar Properties	EllisDon	Trojan General Contracting	2020
Business Bay and DHCC II Networks	U.A.E	Empower	Empower	Bin Lahej Electromechanical LLC	2020
Katara Hospitality DC Project	Qatar	Qatari Diar Real Estate Investment Company	Marafeq Facilities Management LLC	Al-Balagh Trading & Contracting Co. WLL	2020
Dubai Investment Park -Plot No598-105	U.A.E	Emicool	Emicool	Al Qaro Roads Contracting LLC	2020
Dubai Investment Park -Maintenance	U.A.E	Emicool	Emicool	Advance Alpha Electromechanical Works LLC	2020
JBR District Cooling Plant	U.A.E	Empower	Empower	Voltas limited	2020
Marsa Al Arab -Madinat Jumeirah	U.A.E	Empower	Empower	Steel Construction Engineering Co. LLC	2020
Al Kifaf Development	U.A.E	Empower	CDM Smith	Hills & Fort Construction LLC	2020
Dubai Production City District Cooling Plant	U.A.E	Empower	Dar Al-Handasah Consultants	AG Engineering LLC	2020
Shams Development District Cooling Plant	U.A.E	PAL Cooling Holding	DC Pro Engineering	ADC Energy Systems LLC	2020
Al Shindagha Corridor Phase 2D	U.A.E	Road & Transport Authority	Parson Overseas Limited	Island Tower Electromechanical Works LLC	2020
Palm Hotel (B+G+10TYP+Roof)	U.A.E	Aqua Properties	NAGA Architects Designers & Planners	Atcon Construction LLC	2020
Dubai International Academic City	U.A.E	Empower	Italconsult	Island Tower Electromechanical Works LLC	2020
Dubai Land Residential Complex Phase 05	U.A.E	Empower	Empower	Wade Adams Contracting LLC	2020
Dubai International Financial Centre	U.A.E	Empower	Empower	Island Tower Electromechanical Works LLC	2020
Dubai Science Park	U.A.E	Empower	Empower	Island Tower Electromechanical Works LLC	2020

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Deira Water Front-Plot 4	U.A.E	Deira Water Front	AE7 Consultant	Al-Futtaim Engineering Company LLC	2019
Deira Water Front-Plot 7	U.A.E	Deira Water Front	AE7 Consultant	Beaver Gulf Contracting LLC	2019
Jizan Hospital	Saudi Arabia	Ministry Of Health	Hill International	Al Fouzan Trading & General Construction Co.	2019
Danet Abu Dhabi Development	U.A.E	PAL Cooling Holding	Khatib and Alami	Abu Dhabi Land General Contracting LLC	2019
Mirdif District Cooling Plant	U.A.E	Empower	Empower	Steel Construction Engineering Co. LLC	2019
Dubai Studio City - Phase 3	U.A.E	Empower	Jouzy & Partners Consulting Engineers	Wade Adams Contracting LLC	2019
Deira Water Front Plot 3	U.A.E	Deira Water Front	AE7 Consultant	Shinryo Corporation ME	2019
Deira Water Front Plot 11	U.A.E	Deira Water Front	AE7 Consultant	Dubai Civil Engineering LLC	2019
Deira Water Front Plot 13	U.A.E	Deira Water Front	AE7 Consultant	Dubai Civil Engineering LLC	2019
Dubai Downtown Development - Opera District	U.A.E	EMAAR Properties	Allied Consultants Ltd	Steel Construction Engineering Co. LLC	2019
Yotel Hotel	U.A.E	Empower	Jouzy & Partners Consulting Engineers	Bin Lahej Electromechanical LLC	2019
Al Wasl Tower	U.A.E	Empower	Jouzy & Partners Consulting Engineers	Bin Lahej Electromechanical LLC	2019
Deira Water Front, Plot 01+ Plot 02	U.A.E	Deira Water Front	IBA Consultants	China State Construction Engineering Corporation (Middle East) LLC	2019
Dubiotech-Phase II	U.A.E	Empower	Empower	Bin Lahej Electromechanical LLC	2019
Emirates Flight Academy Kitchen	U.A.E	Dubai South	Italconsult	Fala Road Contracting LLC	2019
Signature Residence - JVT	U.A.E	Empower	Italconsult	Island Tower Electromechanical Works LLC	2019

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Siddiq Al Ajmani Building, Al Jaddaf	U.A.E	Empower	Italconsult	Overseas AST Company LLC	2019
Dubai Sports Council Building	U.A.E	Empower	Italconsult	Overseas AST Company LLC	2019
Bin Shafar Building, DHCC	U.A.E	Empower	Italconsult	Overseas AST Company LLC	2019
Business Bay Section 05	U.A.E	Empower	Jouzy & Partners Consulting Engineers	Overseas AST Company LLC	2019
Deira Water Front Network	U.A.E	Empower	Italconsult	Bin Lahej Electromechanical LLC	2019
Dubai Land Residential Complex Phase 03	U.A.E	Empower	Italconsult	Wade Adams Contracting LLC	2019
Dubai Production City, Road M021	U.A.E	Empower	Italconsult	Wade Adams Contracting LLC	2019
Banyan Tree Residences-JVT	U.A.E	Empower	Empower	Wade Adams Contracting LLC	2019
Marriot Hotel, DHCC	U.A.E	Empower	Empower	Overseas AST Company LLC	2019
Dubai Production City - Phase 04	U.A.E	Empower	Italconsult	Wade Adams Contracting LLC	2019
Jumeriah Village Circle District Cooling Plant	U.A.E	Empower	Dar Al-Handasah Consultants	ADC Energy Systems LLC	2019
TECOM District Cooling Plant	U.A.E	Empower	DC Pro Engineering	Voltas limited	2019
Expo 2020 Road Network	U.A.E	Emicool	DC Pro Engineering	Wade Adams Contracting LLC	2019
Jumeirah Village Triangle - Phase III	U.A.E	Empower	Dar Al-Handasah Consultants	Hills & Fort Construction LLC	2019
Jumeirah Village Circle - Phase III	U.A.E	Empower	Dar Al-Handasah Consultants	Hills & Fort Construction LLC	2019
Dubai Outsource Zone - Phase II	U.A.E	Empower	Italconsult	Wade Adams Contracting LLC	2019

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Dubai Studio City - Phase II	U.A.E	Empower	Jouzy & Partners Consulting Engineers	Wade Adams Contracting LLC	2019
The Royal Atlantis Resort & Residences	U.A.E	Empower	WBS Consultant Engineers	Hills & Fort Construction LLC	2018
Dubai Health Care City 2 (DHCC2)	U.A.E	Empower	Italconsult	Overseas AST Company LLC	2018
Dubai Production City - Phase 03	U.A.E	Empower	Italconsult	Wade Adams Contracting LLC	2018
American University of Sharjah	U.A.E	American University of Sharjah	Khatib & Alami	Ginco Contracting LLC	2018
MAG Creek Wellbeing Resort	U.A.E	MAG Property Development	VX Studio Consultancy	Dar Alwd Construction LLC	2018
Empower Central Store ETS Room	U.A.E	Empower	Empower	Empower	2018
Kuwait University-Khalidiya Campus	Kuwait	Kuwait University	Gulf Engineering & Consultants	Gulf Engineering LLC	2018
Jumeirah Village Circle - Phase II	U.A.E	Empower	Empower	Steel Construction Engineering Co. LLC	2018
Jumeirah Village Triangle - Phase II	U.A.E	Empower	Empower	Steel Construction Engineering Co. LLC	2018
Emirates Flight Training Academy	U.A.E	Dubai South	Dar Al-Handasah Consultants	Flora Boring Excavating Cont LLC	2018
Dubai Creek Harbour (The Lagoons)	U.A.E	EMAAR Properties	Allied Consultants Ltd	Steel Construction Engineering Co. LLC	2018
Innovation Hub	U.A.E	Empower	WSP Consultants	Bin Lahej Electromechanical LLC	2018
Mai Dubai	U.A.E	Mai Dubai	VIP FZE	VIP FZE	2018
ETS Rooms - DIFC	U.A.E	Empower	Empower	Wade Adams Contracting LLC	2018
Cityland Mall	U.A.E	Empower	Empower	Bin Lahej Electromechanical LLC	2018

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Dubai Science Park Network - Phase II	U.A.E	Empower	Empower	Overseas AST Company LLC	2018
Coca Cola Arena, Dubai	U.A.E	Empower	Jouzy & Partners Consulting Engineers	Steel Construction Engineering Co. LLC	2018
Al Batha Tower	U.A.E	Empower	Jouzy & Partners Consulting Engineers	Steel Construction Engineering Co. LLC	2018
GEMS School	U.A.E	Empower	Jouzy & Partners Consulting Engineers	Steel Construction Engineering Co. LLC	2018
Luxury Tower	U.A.E	EMAAR Properties	Allied Consultants Ltd	ABC Company	2017
Dubai Creek Plant	U.A.E	EMAAR Properties	Allied Consultants Ltd	ADC Energy Systems LLC	2017
Al Khail Avenue Mall	U.A.E	Nakheel Properties	Dar Al-Handasah Consultants	Amana Pipeline Construction LLC	2017
Galadari Labor Camp - DUBAI Investment Park 02	U.A.E	Emicool	Emicool	Liwa Engineering Services LLC	2017
Sky Court & Al Khail Gate	U.A.E	Empower	Empower	Wade Adams Contracting LLC	2017
Al Khaliji Tower	Qatar	Al Khaliji Bank	Arab Engineering Bureau (AEB)	TRAGS Engineering Company	2017
Palm Jumairah Cresent-Dubai	U.A.E	Empower	Empower	ABC Company	2017
JVT Network	U.A.E	Empower	Empower	Steel Construction Engineering Co. LLC	2017
MASDAR Project P-515	U.A.E	Masdar Developments	KEO International Consultants	Contracting & Trading Co. (CAT Group)	2017
Ibn Battuta Mall Expansion	U.A.E	Nakheel Properties	Dar Al-Handasah Consultants	National Gulf Constructions LLC	2017
Jumeirah Village Circle	U.A.E	Empower	Empower	Steel Construction Engineering Co. LLC	2017
Dubai Health Care City	U.A.E	Empower	Empower	Overseas AST Company LLC	2016

PROJECT NAME	COUNTRY	CLIENT	CONSULTANT	CONTRACTOR	YEAR
Yacht Club	Qatar	Qatari Diar Real Estate Investment Company	Marafeq Facilities Management	Mercury MENA Electromechanical Company	2016
Lussail C1,C2,C3	Qatar	Qatari Diar Real Estate Investment Company	Marafeq Facilities Management	Mercury MENA Electromechanical Company	2016
Dubai Sports City	U.A.E	Emirates District Cooling (Emicool)	Emirates District Cooling (Emicool)	Drake & Scull International PJSC	2016
Bluewaters Island	U.A.E	Empower	Empower	Overseas AST Company LLC	2016
Dubai Outsource Zone	U.A.E	Empower	Empower	Wade Adams Contracting LLC	2016
Business Bay - Upper Network	U.A.E	Empower	Jouzy & Partners Consulting Engineers	Wade Adams Contracting LLC	2016
Business Bay - Lower Network	U.A.E	Empower	Jouzy & Partners Consulting Engineers	Wade Adams Contracting LLC	2016
DAMAC Paramount Hotel	U.A.E	Empower	Jouzy & Partners Consulting Engineers	Wade Adams Contracting LLC	2016
Juma Al Majid Towers	U.A.E	Empower	Jouzy & Partners Consulting Engineers	Wade Adams Contracting LLC	2016
Lussail CP-10 B	Qatar	Qatari Diar Real Estate Investment Company	Marafeq Facilities Management	Oryx Contracting LLC	2016
Lussail CP-4 B	Qatar	Qatari Diar Real Estate Investment Company	Marafeq Facilities Management	Al Balagh Dynaspex WLL	2016
Prospect Heights	U.A.E	Empower	Empower	Wade Adams Contracting LLC	2015
Lussail Rail Transmission (LRT)	Qatar	Qatari Diar Real Estate Investment Company	Marafeq Facilities Management	Qatari Diar Vinci Construction (QDVC)	2016
EMAAR DCP2 to rill & loop to LOT 44	U.A.E	EMAAR Properties	Allied Consultants Ltd	Steel Construction Engineering Co LLC	2016
TECOM B	U.A.E	Empower	Jouzy & Partners Consulting Engineers	Wade Adams Contracting LLC	2016
Al Andalus School	U.A.E	Al Andalus School	Dimensions Engineering Consultants	Hamton International WLL	2016

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NshamaTown Square Development	U.A.E	EMAAR Properties	Allied Consultants Ltd	Steel Construction Engineering Co LLC	2016
Rotana ETS room	U.A.E	Saadiyat Cooling LLC	Veolia Middle East Consultants	ADC Energy Systems LLC	2016
Al Thuraya Astronomy Center	U.A.E	Dubai Municipality	Dynamic Engineering Consultants	Donrite Electromechanical Works LLC	2015
Executive Jets Terminal	U.A.E	Dubai Civil Aviation	Dar Al-Handasah Consultants	Overseas AST Company LLC	2015
Ikea Distribution Centre, DWC	U.A.E	Ikea	DEENS	Jumbo Contracting LLC	2015
Burj Marina Tower	Qatar	Qatari Diar Real Estate Investment Company	Marafeq Facilities Management	Redco International W.L.	2015
Lussail CP-5	Qatar	Qatari Diar Real Estate Investment Company	Marafeq Facilities Management	Mace Group Ltd	2015
CMW –Maleeha	U.A.E	Command of Military Works	Command of Military Works	Steel Construction Engineering Co LLC	2015
Government Agencies Compound	Saudi Arabia	Ministry Of Finance, K.S.A	Dar Al-Handasah Consultants	Al Fouzan Trading & General Construction Co	2015
Lussail CP - 7 A - 1 A	Qatar	Qatari Diar Real Estate Investment Company	Marafeq Facilities Management	HBK Contracting Co. W.L.L	2015
City Of Arabia Theme Park &Wadi Tower	U.A.E	Empower	Allied Consultants Ltd	Electromechanical Contracting LLC	2015
Dubai Trade Centre District	U.A.E	Empower	Allied Consultants Ltd	Bin Lahej Electromechanical LLC	2015
Tecom A Phase 1&2	U.A.E	Empower	Allied Consultants Ltd	Overseas AST Company LLC	2015
Madinat Jumeirah 4	U.A.E	Empower	Allied Consultants Ltd	Overseas AST Company LLC	2015
Dubai Park - Meraas, Legoland	U.A.E	Meraas Holding	Kling Consult GmbH	ADC Energy Systems LLC	2015
Dubai Park - Meraas, Motion Gate	U.A.E	Meraas Holding	WME Consultants	ADC Energy Systems LLC	2015

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Burj Khalifa Development	U.A.E	EMAAR Properties	Allied Consultants Ltd	Steel Construction Engineering Co LLC	2015
Lussail - Marina ph1	Qatar	Qatari Diar Real Estate Investment Company	Marafeq Facilities Management	ADC Energy Systems LLC	2014
Jumeirah Towers	U.A.E	Jumeirah Group	Clarke Camadhim	Zener Steward Electromechanical LLC	2014
Saraya Abu Dhabi	U.A.E	PAL Technology	Architects Crang & Boake International (ACBI)	ADC Energy Systems LLC	2014
Al Habtoor Towers	U.A.E	Empower	Empower	Wade Adams Contracting LLC	2014
International Media Production Zone (IMPZ)	U.A.E	Empower	Empower	Wade Adams Contracting LLC	2014
Panorama Project	Oman	SHEIKH FIYADI	Design Unit Engineering	Al Shamel International Holding Co.	2014
Lussail CP-7 A-1 B	Qatar	Qatari Diar Real Estate Investment Company	Marafeq Facilities Management	AL Jaber & Partners for Construction & Energy Projects	2014
Dubai Design District	U.A.E	Empower	Empower	Wade Adams Contracting LLC	2014
Sweihan Air Base	U.A.E	Command Of Military Works	Command Of Military Works	Steel Construction Engineering Co LLC	2014
106 Villa Complex (ITCC) - Phase 2	Saudi Arabia	Public Pension Agency (PPA)	Zuhair Fayez Partnership Consultants	Azmeel Construction & Contracting Corporation + IMCO	2014
SRL Camp	Oman	SRL	SRL	Airmech WLL	2014
REA Office	Oman	REA	REA	Al Shamel International Holding Co.	2014
Abu Dhabi Airport	U.A.E	Abu Dhabi Airports Company	AECOM Consultants	Amana Pipeline Construction LLC	2014
Ossaimi Apartments	U.A.E	Al Osaimi Group	Khatib and Alami	General Enterprises Company (GECO)	2014
Lussail - Energy City	Qatar	Qatari Diar Real Estate Investment Company	Marafeq Facilities Management	Qatar Building Company (QBC)	2014

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Al Ain Bus Station	U.A.E	Department Of Muncipal Affairs and Transport	Atkins Engineering and design company	Zener Steward Electromechanical LLC	2013
Dragon Mart Expansion	U.A.E	Nakheel Properties	Dar Al-Handasah Consultants	Belhasa Projects LLC	2013
DEWA Garage	U.A.E	Dubai Electricity & Water Authority	ARENCO Consultants	Jumbo Contracting LLC	2013
Al Sadd Multi purpose Hall	Qatar	Qatar Olympic	ASTAD Project Management	Aktor SA	2013
Dubiotech	U.A.E	Empower	Empower	Bin Lahej Electromechanical LLC	2013
Dubai Studio City	U.A.E	Empower	Empower	Bin Lahej Electromechanical LLC	2013
Emicool	U.A.E	Emicool	Emirates District Cooling (Emicool)	Bin Darwish General Contracting & Maintenance Est	2013
Dubai World Central	U.A.E	Dubai Civil Aviation Authority	Dar Al-Handasah Consultants	Overseas AST Company LLC	2013
ADNEC	U.A.E	Abu Dhabi National Exhibitions Company	PAC Group	ADC Energy Systems LLC	2013
Abu Dhabi Defense	U.A.E	Abu Dhabi Civil Defense	Abu Dhabi Defense	Steel Construction Engineering Co LLC	2013
Shaza Hotel	Oman	Oman Tourism Development Company	Ibn Khaldun Almadaen Engineering Consultants	Al Shamel International Holding Co.	2013
New York University	U.A.E	Mubadala Infrastructure Partners Limited	Architects Crang & Boake International	ADC Energy Systems LLC	2013
Lussail CP-5	Qatar	Qatari Diar Real Estate Investment Company	Marafeq Facilities Management	Samsung Engineering	2013
Lussail CP-4	Qatar	Qatari Diar Real Estate Investment Company	Marafeq Facilities Management	Al Balagh Dynaspex WLL	2013
Badra Manara	U.A.E	Nakheel Properties	Allied Consultants Ltd	Conversion Electromech Co. LLC	2013

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Le- Meridien	U.A.E	Dubai Airport	Parsons Corporation	Steel Construction Engineering Co LLC	2013
Dubai International Airport	U.A.E	Dubai Airport	Dar Al-Handasah Consultants	ALEC Engineering and Contracting LLC	2013
Radisson Blu Hotel, Sohar	Oman	Radisson Blu Hotel	Engineering Innovation Design & Consulting LLC	Al Shamel International Holding Co.	2013
Military Technology	Oman	Ministry of Information	DC Pro Engineering	Airmech WLL	2012
Jumeirah Beach Residence	U.A.E	Meraas Development LLC	Benoy Architects	ETA Star Group	2012
Dubai waterfront	U.A.E	Nakheel Properties	Allied Consultants Ltd	Conversion Electromech Co. LLC	2012
Royal Guard Headquarters	Oman	Royal Court of Oman	Royal Court of Oman	Al Shamel International Holding Co.	2012
Lussail - Marina	Qatar	Qatari Diar Real Estate Investment Company	Marafeq Facilities Management	AL Jaber & Partners for Construction & Energy Projects	2011
Lussail Fox Hills	Qatar	Qatari Diar Real Estate Investment Company	Marafeq Facilities Management	Sinohydro Construction Company.	2011
Business Bay	U.A.E	Empower	Empower	Wade Adams Contracting LLC	2010
Lussail Energy City	Qatar	Qatari Diar Real Estate	Marafeq Facilities Management	Qatar Building Company (QBC)	2010
Smart Village	Egypt	Smart Village	Engineering Consultants Group (ECG)	Orascom Construction Company Limited	2010
Rayheen	Oman	Royal Court of Oman	Royal Court of Oman	Al Shamel International Holding Co.	2009
Hurghada Airport	Egypt	Egyptian Airports Company	Dar Al-Handasah Consultants	Al Marasem International For Development Company	2009

ADDRESS & LOCATION MAP

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