



**ADVANCED UTILITY
CONSTRUCTION &
CONTRACTING**





INTRODUCTION

COMPANY ESTABLISHMENT

History of team AUCC (Association of HBK and PORR) started in 2012 when they had executed Qatar Integrated Rail Project (QIRP) Enabling Works in association with Saudi bin laden as HSP JV for the entire Doha Metro Phase 1 project.

HBK and PORR join hand focusing huge market demand for Utility Diversion, Advanced Utility Construction & Contracting w.l.l. (AUCC) was established in 2015 as a Share Holding Company. Since its incorporation as a commercial entity in 2015, AUCC has executed a multitude of different construction projects, from small to large, of varying technical and financial demands, and of vastly different natures. After having been assigned to execute AUCC's main project with Ashghal "Musaimeer Pumping Station and Outfall Tunnel" AUCC prequalified for the in-house manufacturing of tunnel segments for 10 km long TBM driven outfall tunnel in a newly set-up factory. The ground for "AUCC PRECAST FACTORY W.L.L" was established.

AUCC's success over the past few years is due to the professional technical expertise from PORR and vast local experience of HBK. **This background provides dedication to excellent works, greater customer relation, LTI free working hours and all those were beyond the expectations.** Open interactions within the side empowered our team to produce their limitless forte.

BOARD OF DIRECTORS



THORSTEN HAERTEL

(PORR Qatar Construction W.L.L –PORR Ag)



SHEIKH ALI BIN HAMAD AL THANI

(HBK Contracting Company W.L.L)



CHAIRMAN MESSAGE

WELCOME TO AUCC PRECAST FACTORY

On behalf of the ownership, management, and all our associates, I want to welcome you to AUCC Precast Factory. As we continue to build on our proud heritage and expand our involvement in the communities in which we live and serve, we are setting the strategy and high standards for each of our independent operating units to ensure that our client-partners continue to receive the world-class products and services that has led to productive experiences.

AUCC Precast Factory provides infrastructure projects throughout the region with concrete pipes, manhole system, tunnel segments and other precast elements that meet the highest international standards. The quality and long-term cost-benefits of the materials and processes we offer will improve your bottom line through improved installation speed and minimized need for repairs. It is our goal to provide competitive products and services, both in quality and price. This permits our organization to operate at its highest level of effectiveness and efficiency over the past few years. And also, have allowed us to be entrusted with many leading public and private sector infrastructure projects for roads, bridges, tunnels, and utilities.

As a property developer, we will build upon our core skill sets to develop communities in Qatar. This is an exciting time for all of us at AUCC and we look forward to continuing to serve your needs and reach our vision.

SHEIKH ALI BIN HAMAD AL THANI
CHAIRMAN

APPROACH AND OBJECTIVE

AUCC Precast Factory was added to complement Advanced Utilities Construction and Contracting operation in large and medium scale construction projects which added a novel stream to what has by now grown to a small group of companies.

HBK and PORR Qatar's objective for AUCC Precast Factory is to establish a full-service provider in the precast market, covering all stages from Tendering and Acquisition over Design, Value Engineering and Production to After-Sales Services.

This approach ensures that AUCC Precast Factory lives up to the expectations imposed upon itself:

- *High flexibility and quick response times when it comes to securing new business opportunities.*
- *Keeping all production schedules and deadlines.*
- *Using the technical know-how and support network of two highly capable construction companies.*
- *Adding value to its clients, e.g. by improved design, efficient processes, shortened production times, and applying a customer-oriented approach.*
- *Fast acting and adapting to the customer's requirements.*



A highly motivated and skilled manufacturing team has been sourced from the partners and the local labor market. This team promise to serve the civil infrastructure sector on Qatari market and to set its importance in Qatar's long term 2030 vision.

One of AUCC's key venture in Qatar was its reinforced concrete pipe plant, combining advanced manufacturing technology without standing service. Internationally sourced technology and equipment from leading manufacturers and strict comprehensive quality control and efficiency system promises outstanding end-product. AUCC Precast Factory's excellence in this field and **Total commitment to quality, health & safety and environment** has been recognized by Lloyd's Register and by Qatar National Ready Mixed Concrete Association (NRMCA).



OUR PRODUCTS

REINFORCED CONCRETE PIPES

BRIDGE SEGMENTS

REINFORCED CONCRETE BEAMS

TUNNEL SEGMENTS

REINFORCED STAIR CASE

MANHOLES AND ROAD GULLIES

BOUNDARY WALL PANELS

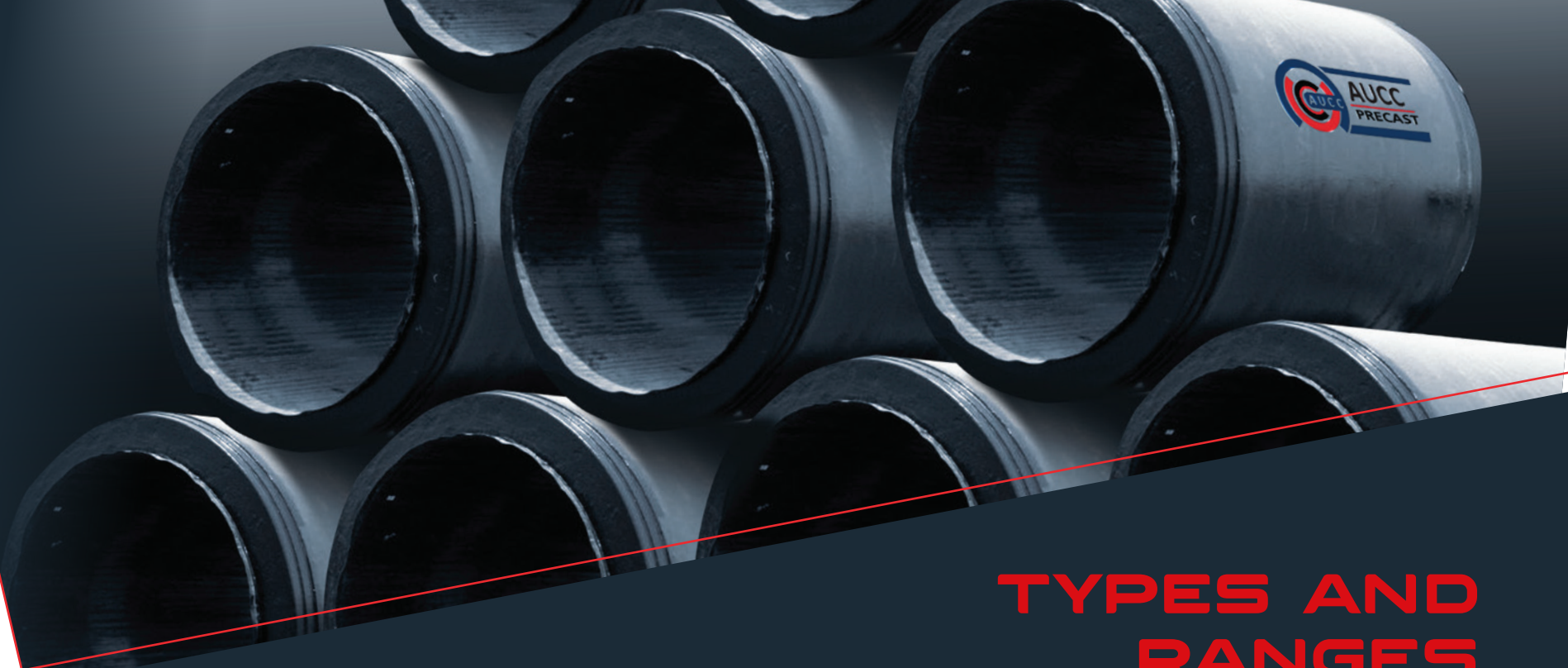


PIPES RANGE

AUCC Precast Factory has the capacity to cast any type of precast within 30 tons per segment and is capable to manufacture full-length Pipes and short pipes of any specifications by cutting and milling long pipes or using rocker pipe molds. Reinforced Concrete pipe (Jacking and Open trench STD) production ranging from 300 mm to 3000 mm diameter as per the below details.

NO.	PIPE ID ID mm	OPEN TRENCH STD OD mm	JACKING OD 1 mm	JACKING OD 2 mm	NO.	PIPE ID ID mm	OPEN TRENCH STD OD mm	JACKING OD 1 mm	JACKING OD 2 mm
01.	300	400	765	965	10.	1200	1552	1490	
02.	400	520	765	965	11.	1400	1738	1720	
03.	500	640	765	965	12.	1500	1860	1840	
04.	600	788	765	965	13.	1600	1956	2000	1900
05.	700	906	965		14.	1800	2200	2200	
06.	800	1022	965	1080	15.	2000	2422	2400	
07.	900	1140	1280		16.	2200	2656	2560	2656
08.	1000	1256	1280		17.	2400	2888	2888	3000
09.	1100	1372			18.	3000	3600	3600	

All types of pipe can be produces with any required joints details to be plain pipes, with GRP lining or with HDPE lining.



TYPES AND RANGES

Reinforced Concrete Pipes are manufactured for many applications. They are rugged and easy to install, trouble-free performance with a joint sealed using confined rubber ring.

With some modifications of its steel reinforcement at the design stage, reinforced concrete pipe can be used for jacking operations. Its smooth exterior wall and material strength provide additional jacking advantages. Incorporating accurately placed steel reinforcement in its densely compacted concrete wall; reinforced concrete pipe is designed to withstand substantial live and dead loads. It won't crush, buckle, split, or deflect in service whatever the conditions.

The concrete joint when sealed using a confined rubber seal for pipe sections provides a flexible watertight joint to eliminate infiltration from ground water and tolerates slight movements due to expansion, contraction, settlement or lateral displacement.

STORM DRAIN PIPES

Unlined concrete pipe with a joint sealed using confined rubber rings are suitable for storm drainage system to transport run-off from the roadway and other inlets to outfalls. They are used in the residential and commercial industrial areas, and to reduce the high water table level where infiltration is continuous aggravating problem.

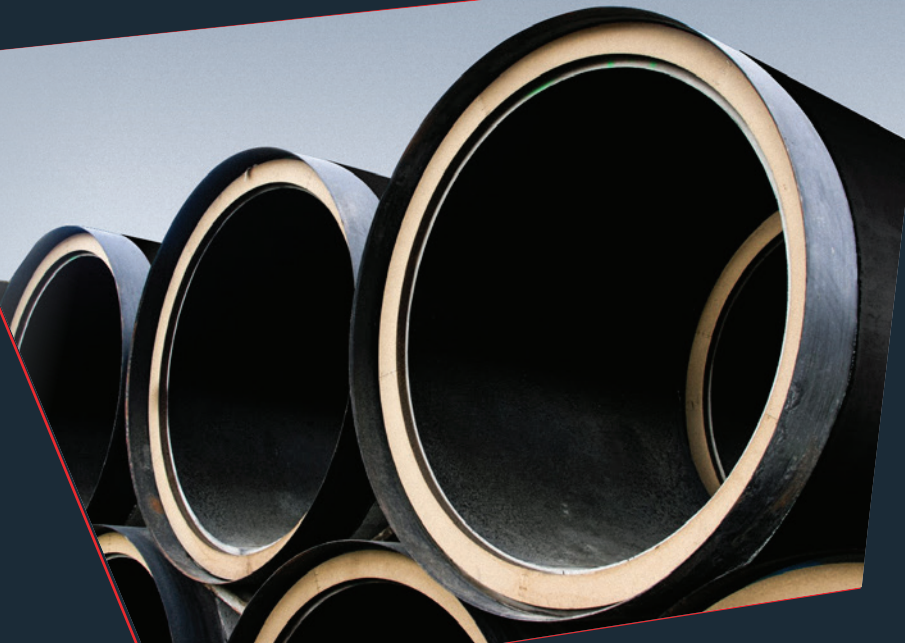
Economical and easy to install its positive and flexible seals require no grouting or pointing to allow the backfilling process to proceed immediately. The pipes are manufactured in diameter from 300mm to 3000mm. The pipe can be specially designed for high live and dead loads. Pipe joint shall be either with flair at the Bell end for diameters from 300mm up to 1100mm or flush for larger diameters.



PVC/HDPE LINING

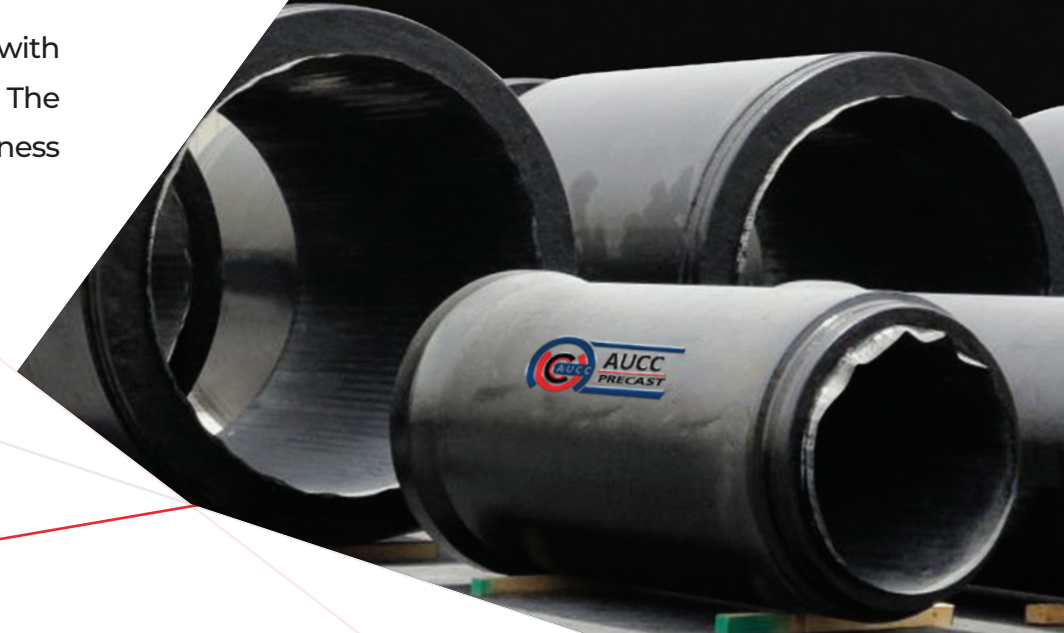
The HDPE/PVC T-shape profile mechanically locks into the concrete's pipe interior surface, forming a continuous smooth internal surface with lower friction coefficient than concrete and offers no haven to fungus and bacterial slimes. The dense glossy surface of HDPE/PVC, neither absorb nor retain precipitated materials. Lining continuity is guaranteed by heat welding each individual pipe liner with the next one.

This method of lining is permanently flexible, resistant to acid solutions, diluted solvents, and petroleum products, exposure to vegetable and animal oils, alkali chemicals and bacteria. Our RCP Pipes with HOPE/PVC liner can be manufactured in diameter range from 600mm to 3000 mm



GRP LINING

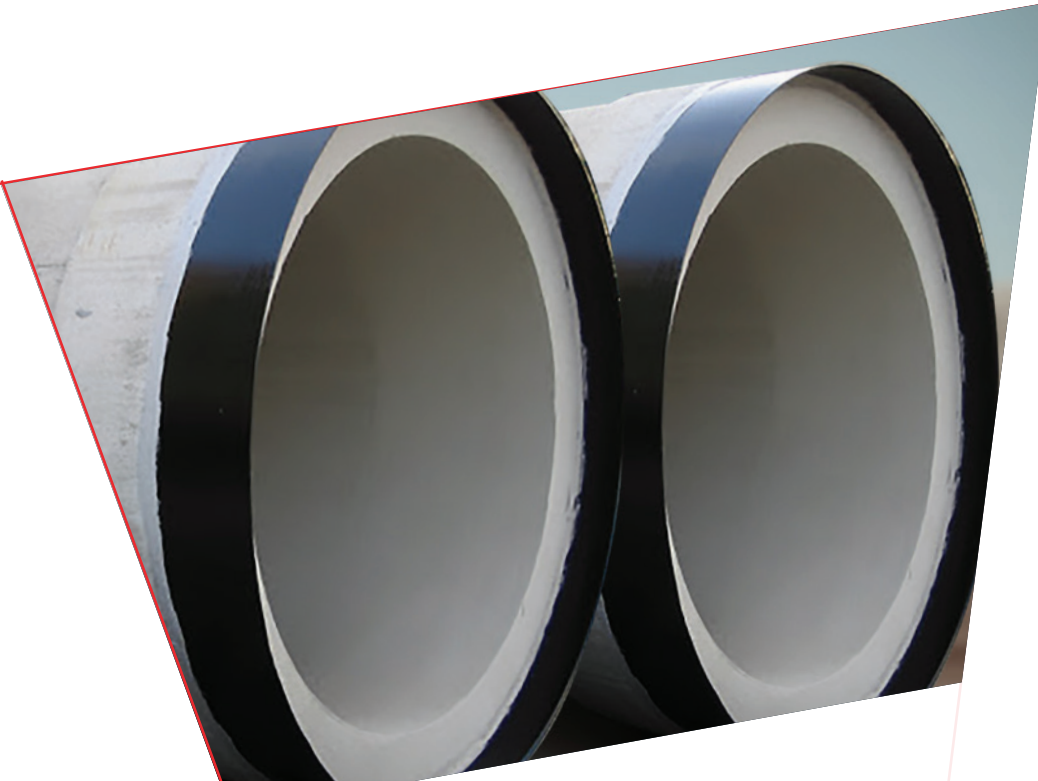
Manufactured and designed as per customer's specification. Our RCP Pipes with GRP liner can be manufactured in diameters range from 300mm to 3000mm. The embedded liner is the interior of the reinforced concrete pipe, where its thickness ranges from 6 mm to the required thickness of the project specification.



JACKING PIPES

Concrete jacking pipe is a method of installing pipelines without disrupting existing surface facilities or activities. Diameter range from 300mm to 3000mm.

- A. Minimizes disruption to residents and traffic, requiring only a jacking and reception shafts.
- B. Reduces the risk of damage to adjacent properties.
- C. Minimizing de-watering, ground stabilization and relevant activities.
- D. Final installed pipes are stronger than standard open cut trench pipes.
- E. Requires less road surface reinstatement



BRIDGE SEGMENT



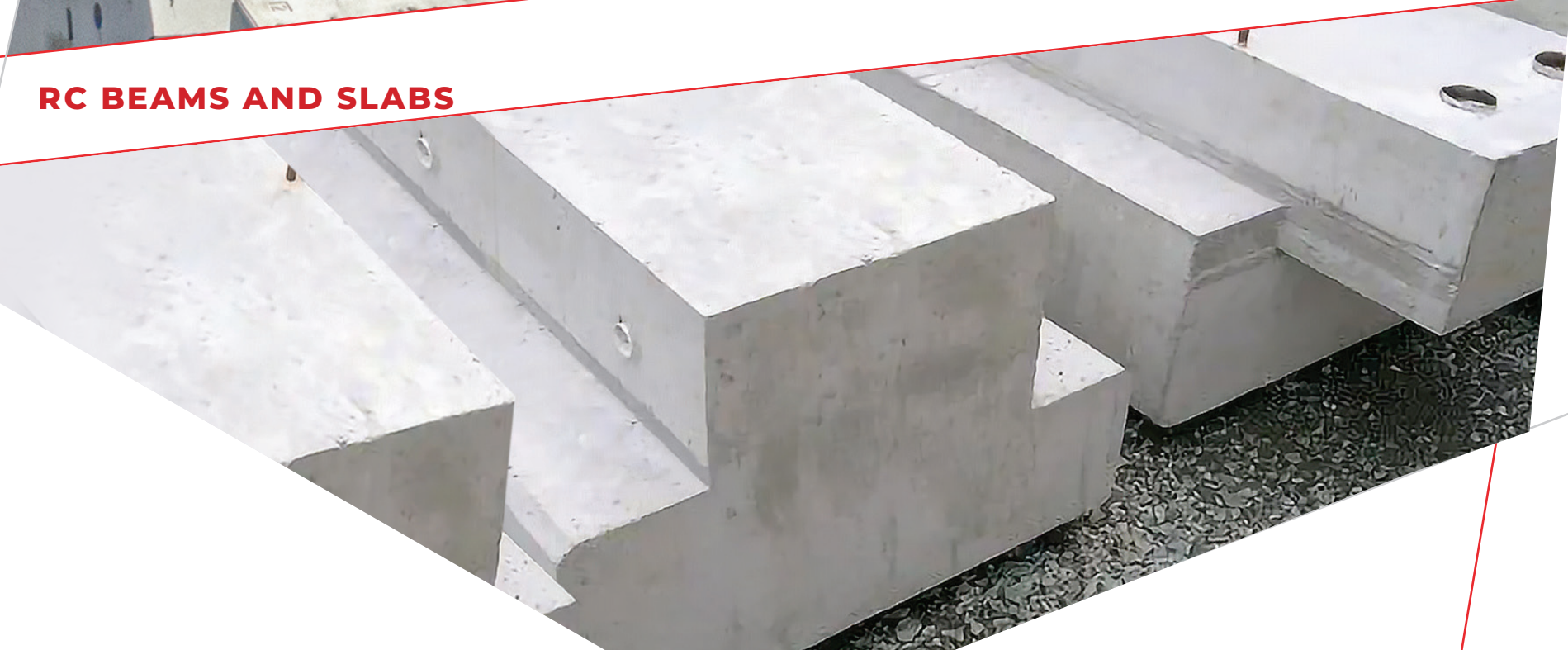
BOUNDARY WALL PANELS





TUNNEL SEGMENTS

RC BEAMS AND SLABS





MANHOLES AND ROAD GULLIES



RC STAIRCASE

OUR SERVICES

- Project Management & QA/QC Documentations as per ISO 9001 and accredited by BSI.
- Shop Inspection and Testing for raw materials, and finished product.
- Project Quality, HSE Plans and Quality Procedures.
- In house short, medium & long-term qualification testing.
- Propose innovative solutions for critical cases.
- Marking, packing, Loading and Transportation to Job Site.
- Engineering Documentation:
 - Design Calculations.
 - Shop drawings
 - Inspection & Test Plan and Procedures.
 - Tracking & Documentation by using OGS System
 - Method Statements & work instruction procedure
- Training of customer Personnel on Jointing, Testing and Installation works .
- Site Supervision and Assistance throughout project execution, hydro-testing & commissioning phases.

CORE VALUES AND COMPETENCY

AUCC Precast Factory ensures to comply with SQSCW strategy always, by focusing on five basic principles at any time:

SAFETY

01



Zero harm aim.

QUALITY

02



Best in quality through Advance Quality Management System.

SCHEDULE

03



Personal responsibility system for schedule keeping.

COST

04



Cost control system and personal responsibility.

WELFARE

05



Staff and labor welfare target to be the best in the industry.

CONCRETE TECHNOLOGY

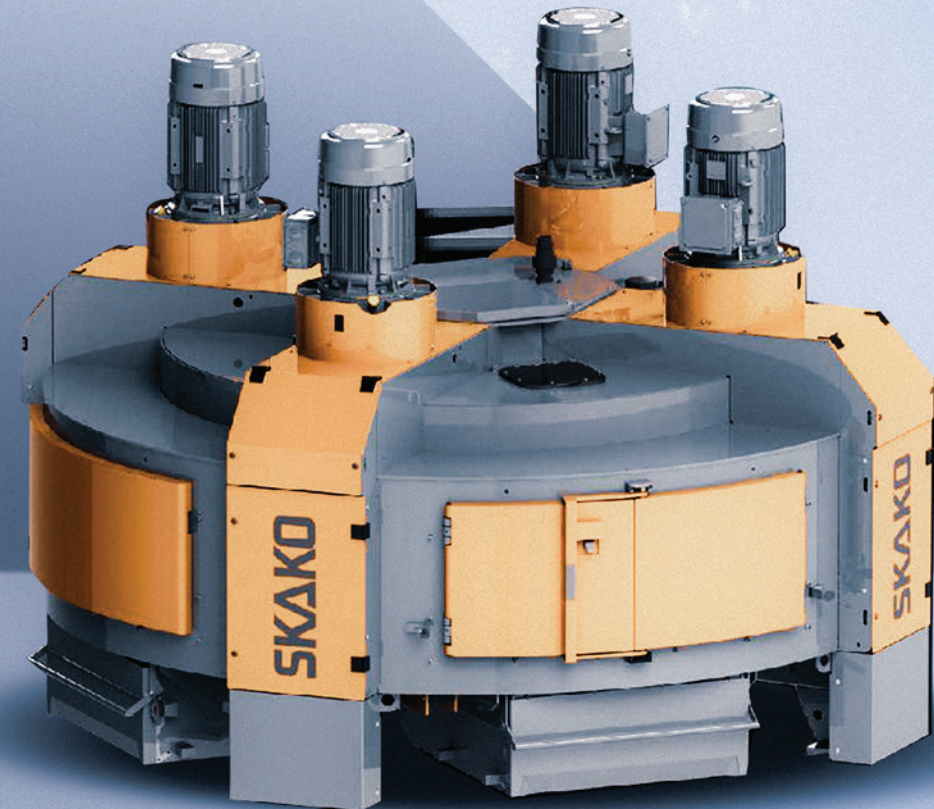
SKAKO BATCHING PLANT

HIGHLY EFFICIENT

SKAKO - DENMARK

1.5 M³ MIXER CAPACITY

ADVANCED MIXER: 30 M³/HR.



SKAKO

CASTING TECHNOLOGY

DRY CAST

CONCRETE PIPE CASTING

PIPE MULTICAST SYSTEM
PEDERSHAAB-DENMARK
UP TO 3M PIPE OD
TECHNICAL ADVANTAGES OF CONTROLLED CONDITIONS



CASTING TECHNOLOGY

WET CAST



CASTING TECHNOLOGY

ELEMENTS MOLD

- BARRIER MOLDS
- MANHOLE BASE MOLDS
- PRECAST TABLES
- STAIRCASE MOLDS
- SEGMENT MOLDS
- PIPE MOLDS
- ROAD BARRIER MOLDS



REINFORCING TECHNOLOGY

PIPE AND SEGMENT REINFORCEMENT TECHNOLOGY



**STEEL FIBRE
DOSING UNIT**



**STEEL CAGE
MACHINE**

BSM 360

CRANE CAPACITIES

OH AND GANTRY CRANES

GANTRY CRANES

1 X 35T | 4 X 20T

OH CRANES

2 X 30T | 2 X 12.5T



SUPPORTING MACHINES

PIPE AND SEGMENT REINFORCEMENT TECHNOLOGY



PIPE HYDROSTATIC TESTING MACHINE



SEGMENT TILTING MACHINE



PIPE CUTTING & MILLING MACHINE



PIPE D-LOADING MACHINE



SEGMENT VACUUM LIFTER



AUTOMATIC COATING MACHINE



PIPE TILTING MACHINE

IN-HOUSE LABORATORY

IN-HOUSE LABORATORY COMPLYING QCS,
BS AND ASTM REQUIREMENTS

AGGREGATE TESTING
CONCRETE TESTING
PRODUCT TESTING



OGS SYSTEM SPECIFICATION

(PRODUCTION, QUALITY, TRACKING, DOCUMENTATION & LOGISTIC – SYSTEM APPLICATION)

DESCRIPTION OF FUNCTION

The OGS / SQL Tracking System, called DRS (Data Recording System), is a database-driven system for recording and documenting the production of segments in Precast construction. It is built in a client / server structure to ensure a comfortable research in the office, but also a simple collection of data via mobile scanners in production and on the warehouse / stack yard.

The database itself is a SQL database called , Pervasive 'it is a database with a high performance. That make the query of information for segments and storage information comfortable.

THE ADVANTAGES

- No paper
- The fastest possible transfer of information to those responsible
- Data security
- Fast finding and providing of data in case of examination
- Easy handling of the devices in production
- Industry standard mobile devices

COMPANY POLICY AND CERTIFICATIONS



INTEGRATED MANAGEMENT SYSTEM POLICY

AUCC Precast Factory manufactures and supplies reinforced concrete pipes, precast manhole system and tunnel precast concrete segments. AUCC Precast Factory is committed to providing its customers quality products and service while maintaining required HSE standards in its operations. This will be achieved by:

- Meeting customers' requirements & expectations and enhancing customer satisfaction;
- Implementing QHSE Management Systems in its operations, and meeting requirements of ISO 9001:2015, ISO 14001:2015 and ISO 45001:2018 standards;
- Adoption of cost-effective and best available technologies and practices for improving productivity, profitability, quality, health & safety and for prevention of pollution;
- Ensuring products' quality through internal quality assurance processes and practices;
- Preventing workplace injury and ill-health by effectively controlling the hazards and risks posed by the company's activities & operations;
- Achieving Zero harm to all employees, contractors, suppliers and visitors;
- Consultation and participation of workers in its OHSMS;
- Prevention of environmental pollution by reviewing and monitoring our programs and actions;
- Minimizing waste generation and promoting reduce, reuse culture while optimizing natural resources;
- Having mutually beneficial stakeholders' relationship;
- Compliance with all applicable legislation and statutory requirements;
- Training our employees to equip them with necessary skills, competence and tools to perform their tasks safely, efficiently up to required quality standards and in a competent manner; and
- Continual improvement in the effectiveness of QHSE management systems by enhancing its processes, systems and employee competence.

For the satisfaction of stakeholders in all areas of its activities, AUCC Precast Factory shall endeavor to continually improve its QHSE management system, processes and practices.

The IMS policy shall be communicated to all persons working for us or on behalf of AUCC Precast Factory. Also, the policy shall be made available to all interested parties by displaying on the main entrance, in process areas of the company, through AUCC PP's website and other communication means.

The management of AUCC Precast Factory shall periodically review the suitability of this policy and improve it to meet the strategic vision of the company.

Mohamad Ali Zantout
General Manager



Mathivanan Balasubramaniam
Project Director

Office No.26, 6th Floor, HBK Tower, Building No.9, Street No.940, PO Box 1362, Doha, State of Qatar
Phone: +974 44 37 4328; E-mail: office@auccqatar.com

Doc. No. AUCCPF-PQ-01, R.01
2nd May, 2020



Certificate of Approval

This is to certify that the Management System of:
AUCC Precast Factory W.L.L

Office No.26 6th Floor HBK Tower/Building No.9 Street No. 940P.O. Box 1362, Building No.9 Street No. 940, P.O. Box 1362, Doha, 11111, Qatar

Has been approved by Lloyd's Register to the following standards:

ISO 9001:2015

Approval number(s): ISO 9001 - 0061419

The scope of this approval is applicable to:

- Manufacturing and Supply of the following reinforced and non-reinforced precast items:
- Precast Concrete Tunnel Segments
 - Concrete Jacking Pipe and Jacking Intermediate Station as per QCS, BS EN 911 & ASTM C78
 - Concrete Open Trench Pipe, and Box/Pipe as per QCS, BS EN 911 & ASTM C78
 - Precast Manhole System as per QCS and customer requirements
 - Precast Elements such as: Slatwalks, Bridge Segments, Road Barriers, Wall Panels Slabs, etc.,

Luis Cunha
Area Operations Manager - SAMEA
Issued by Lloyd's Register SAMEA
for and on behalf of Lloyd's Register Quality Assurance Limited



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Certificate of Approval

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AUCC Precast Factory W.L.L

Office No.26 6th Floor HBK Tower/Building No.9 Street No. 940P.O. Box 1362, Building No.9 Street No. 940, P.O. Box 1362, Doha, 11111, Qatar

Has been approved by Lloyd's Register to the following standards:

ISO 14001:2015

Approval number(s): ISO 14001 - 0061420

The scope of this approval is applicable to:

- Manufacturing and Supply of the following reinforced and non-reinforced precast items:
- Precast Concrete Tunnel Segments
 - Concrete Jacking Pipe and Jacking Intermediate Station as per QCS, BS EN 911 & ASTM C78
 - Concrete Open Trench Pipe, and Box/Pipe as per QCS, BS EN 911 & ASTM C78
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Issued by Lloyd's Register SAMEA
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Has been approved by Lloyd's Register to the following standards:

ISO 45001:2018

Approval number(s): ISO 45001 - 0061421

The scope of this approval is applicable to:

- Manufacturing and Supply of the following reinforced and non-reinforced precast items:
- Precast Concrete Tunnel Segments
 - Concrete Jacking Pipe and Jacking Intermediate Station as per QCS, BS EN 911 & ASTM C78
 - Concrete Open Trench Pipe, and Box/Pipe as per QCS, BS EN 911 & ASTM C78
 - Precast Manhole System as per QCS and customer requirements
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Luis Cunha
Area Operations Manager - SAMEA
Issued by Lloyd's Register SAMEA
for and on behalf of Lloyd's Register Quality Assurance Limited



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By Royal Charter

Certificate of BSI Membership

This is to certify that

AUCC Precast Factory W.L.L.
Membership Number

47758994
is a BSI Subscribing Member

Start date: 1 January 2021 End date: 31 December 2021

For and on behalf of BSI:

Dr Sean Conroy BSI Policy Director of Standards, BS

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making excellence a habit™



COMPANY DETAILS

Building No. 15 (HBK Tower), 6th Floor - Office 26, Fareej Abdul Aziz, Zone 14 (St. 339)
P.O.Box 1362, Doha – State of Qatar
Phone +974 44 329 9650

MOHAMAD ALI ZANTOUT

Mobile: +974 5587 8209
Email: m.zantout@auccqatar.com

MATHIVANNAN BALASUBRAMANIAM

Mobile: +974 5587 4444
Email: mathi.bala@auccqatar.com

