



A BKG Holding Company

## QEL-BAHRAIN BRANCH

# PRE-QUALIFICATION DOCUMENT



COMMERCIAL REGISTRATION NO. BAHRAIN- 76096 & QATAR-38301  
CRPEP LICENCE NO. EPP/GC/21 - D  
APPROVED *by* MINISTRY OF WORKS *and* MINISTRY OF HOUSING



**QATAR ENGINEERING LABORATORIES W.L.L**  
P.O. Box 40278, Industrial Area, Doha,  
State of Qatar  
Laboratory Location: Street 50, Gate 26.  
Doha Industrial Area, Qatar  
Tel. 974 4451 5401/44515320/4451 5326 Fax: 974 4451 5317  
E-mail : qel@qel.com.qa

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**QATAR ENGINEERING LABORATORIES - BAHRAIN BRANCH**  
P.O. Box 50191, Hidd,  
Kingdom of Bahrain  
Laboratory Location: Shed- 9, Building 2189, Road 1529,  
Block 115, Hidd, Kingdom of Bahrain  
Tel. 973 17250333 Fax: 973 17243562  
E-mail : bkgh@batelco.com.bh

[www.qelonweb.com](http://www.qelonweb.com)



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		Quality Certificate	<ul style="list-style-type: none"><li>ISO/IEC-17025-2005<ul style="list-style-type: none"><li>Bahrain –IAS-TL-454</li></ul></li></ul>
		Clients Approvals	<ul style="list-style-type: none"><li>ALBA registration as an approved vendor –(Code-7353)</li><li>Bahrain National Gas Company (B.S.C.)-BANAGAS</li><li>US ARMY CORPS OF ENGINEERS</li></ul>
		Government Approvals	<ul style="list-style-type: none"><li>Commercial Registration -Qatar CR.No. 38301</li><li>ASHGHAL</li><li>Ministry of Environment-Qatar – SI-90 &amp; ML-359</li><li>Ministry of Business &amp; Trade -Qatar</li><li>Qatar Chamber of Commerce &amp; Industry</li></ul>
		Quality Certificate	<ul style="list-style-type: none"><li>ISO/IEC-17025-2005<ul style="list-style-type: none"><li>Qatar – IAS-TL-424</li></ul></li><li>ISO 9001 : 2008-BV- IND 91565</li></ul>
		Clients Approvals	<ul style="list-style-type: none"><li>MIC</li><li>Qatar General Electricity &amp; Water corporation - KAHRA MAA</li><li>QATARGAS</li><li>Qatar Petroleum</li><li>ASHGHAI –Tekfen</li><li>SNC-LAVALIN International</li><li>DOOSAN Heavy Industries &amp; Construction</li><li>QDVC</li><li>MEDCO-(Middle East Dredging Co.Q.S.C.)</li><li>USACE-US ARMY CORPS OF ENGINEERS AL UDEID AIR BASE-QATAR</li></ul>
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**QATAR ENGINEERING LABORATORIES (QEL)**

*PRE-QUALIFICATION DOC.*

# Introduction

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## **INTRODUCTION**

**QEL**– Bahrain is registered with **CRPEP** in Bahrain to practice Geotechnical and Material testing under License No. EPP/GC/21, class D, as a Branch of “Qatar Engineering Laboratories W.L.L” and is approved by **MINISTRY OF WORKS, MATERIAL ENGINEERING DEPARTMENT (MED)**. The aim is to offer our expertise combined with our experience by providing Independent Technical services to the construction and other industries related to quality, performance and other aspects of Materials in a professional manner. Our field of activities includes (1) Operating a Building Material Testing Laboratory (2) Soil Testing (3) Structural and Building testing (4) Welding and X-ray Testing (5) Water Testing (6) Chemical Analysis (7) Calibration and Metrology 8. Geotechnical and Offshore Investigation.

We are operating an accredited Management system to ISO 9001 – 2008 audited and certified by Bureau Veritas, Certificate no. IND91565 and is accredited to **ANS/ISO/IEC 17025-2005** General Criteria for the competence of testing and calibration laboratories by International Accreditation Services U.S.A, Certificate no. TL- 454.

QEL is operating in Qatar since 2006, as an associate of BKG Holding SPC Bahrain, performing the above activities and is approved by different Government and Private agencies like Ministry of Environment, Public Works Authority (ASHGHAL as a First Category lab), Mesaieed Industrial City (MIC), Qatar Petroleum (QP), KAHRAMA (Qatar General Electricity and Water Corporation), QATALUM, QATARGAS etc.

-QEL-BAHRAIN BRANCH





**QATAR ENGINEERING LABORATORIES (QEL)**

*PRE-QUALIFICATION DOC.*

## **Contact and Location**

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## CONTACT LIST



<b>BAHRAIN</b> Head Office	<b>BKG Holding SPC (Head Office)</b> P.O. Box 75831, Juffair, Bahrain  ☎ : + 973 17250333 📠 : + 973 17243562 E-Mail : <a href="mailto:bkgh@batelco.com.bh">bkgh@batelco.com.bh</a>  <i>Contact Person</i>  (i) Babu Rajan K G, Mob: +973 39657006 (ii) Sreekala Prabhashankar Tel : +973 17250333
<b>QATAR</b> (Main Lab)	<b>Qatar Engineering Laboratories WLL</b> P. O. Box 40278 Doha, State of Qatar ☎ : 0097 44515401 📠 : 0097 44515317 E-mail : <a href="mailto:qel@qel.com.qa">qel@qel.com.qa</a>  <i>Contact Person:</i>  (i) N. Sabu : Mob : + 974 33096029 (ii) Rajath Baburaj : Mob : + 974 66499711 (iii) Mandy Vicente : Mob : + 974 66828002
<b>BAHRAIN</b> (Lab)	<b>Qatar Engineering Laboratories-Foreign Branch</b> P.O. Box 50191, Hidd Kingdom of Bahrain ☎ : + 973 17250333,69990033 📠 E-Mail : <a href="mailto:bkgh@batelco.com.bh">bkgh@batelco.com.bh</a>  <i>Contact Person</i>  (i) V. Sivanantham Mob : + 973-38499491 (ii) Asad Ullah Khan Mob : + 973-38418843





**QATAR ENGINEERING LABORATORIES (QEL)**

*PRE-QUALIFICATION DOC.*

# **Certificates and Approvals**

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**KINGDOM OF BAHRAIN**

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Commercial Registration Certificate



تشهد إدارة التسجيل بوزارة الصناعة والتجارة والسياحة بأنه قد تم تسجيل القيد المبينة تفاصيله أدناه وفقاً  
للمرسوم بقانون

Mentioned entry in accordance with Decree Law (27) for the year 2015  
of the Commercial Registration

رقم (27) لسنة 2015 بشأن السجل التجاري.

Due Date	08/09/2017	تاريخ الاستحقاق	Registration Date	08/09/2010	تاريخ القيد	Registration No.	76096 - 1	رقم القيد
Commercial Name	QATAR ENGINEERING LABORATORIES - FOREIGN BRANCH				قطر للمختبرات الهندسية - فرع لشركة اجنبية			الاسم التجاري
Registration Type	Branch of a Foreign Company				فرع لشركة أجنبية			نوع القيد
CR Status	ACTIVE				نشطة			حالة القيد
Commercial Address	P.O.BOX ص.ب	Area المنطقة	Block مجمع	Road طريق	Building مبنى	Flat/Shop محل/شقة		العنوان التجاري
	75831	HIDD / الحد	115	1529	2189	9		

Activities	الأنشطة
Sale/Trade in other machinery and equipment and parts	تجارة/بيع الآلات والمعدات الأخرى
Architectural and engineering activities and related technical consultancy	الأنشطة المعمارية الهندسية والخدمات الاستشارية الفنية المتصلة بها
Other Testing and analysis activities	مكاتب استشارات واختبارات والتحليل التقني أخرى

\* هذا القيد لا يجيز لصاحبه بمزاولة نشاط استثمار أموال الغير

Commercial registration does not permit its holder to practice investment activities on behalf of others



Directorate of Registration

Printing date: 05/06/2016

Page 1 of 1



## Business Activity Information

### Business Activity

<b>ISIC4 Code</b>	711
<b>Business Activity Name</b>	Architectural and engineering activities and related technical consultancy
<b>Description</b>	<p>This activity includes the provision of architectural services, engineering services, drafting services, building inspection services and surveying and mapping services and the like.</p> <p>This activity includes:</p> <ul style="list-style-type: none"><li>- Architectural consulting activities:<ul style="list-style-type: none"><li>• Building design and drafting</li><li>• Town and city planning and landscape architecture</li></ul></li><li>- Engineering design (i.e. applying physical laws and principles of engineering in the design of machines, materials, instruments, structures, processes and systems) and consulting activities for:<ul style="list-style-type: none"><li>• Machinery, industrial processes and industrial plant</li><li>• Projects involving civil engineering, hydraulic engineering, traffic engineering</li><li>• Water management projects</li><li>• Projects elaboration and realization relative to electrical and electronic engineering, mining engineering, chemical engineering, mechanical, industrial and systems engineering, safety engineering</li><li>• Project management activities related to construction</li></ul></li><li>- Elaboration of projects using air conditioning, refrigeration, sanitary and pollution control engineering, acoustical engineering etc.</li><li>- Geophysical, geologic and seismic surveying</li><li>- Geodetic surveying activities:<ul style="list-style-type: none"><li>• Land and boundary surveying activities</li><li>• Hydrologic surveying activities</li><li>• Subsurface surveying activities</li><li>• Cartographic and spatial information activities</li></ul></li></ul> <p>This class excludes:</p> <ul style="list-style-type: none"><li>- Test drilling in connection with mining operations</li><li>- Development or publishing of associated software</li><li>- Activities of computer consultants</li><li>- Technical testing</li><li>- Research and development activities related to engineering</li><li>- Industrial design</li><li>- Interior decorating</li><li>- Aerial photography</li></ul>
<b>Activity Status</b>	Not Restricted

### Business Fee

Ministry / Directorate	License Fee
Committee For Organizing Engineering Professional Practice	50
Municipality Affairs	10

## Business Activity Information

### Business Activity

ISIC4 Code	71209
Business Activity Name	Other Testing and analysis activities
Description	<p>This activity includes:</p> <p>Statistical data analysis services using SPSS software or any other similar software. This service includes sorting, coding, entering of raw data into the computer, conducting statistical analysis and presenting results.</p> <p>Specialized offices which inspect goods and products to determine their validity.</p> <p>Includes establishments specialized in providing services related to determining the validity period of products.</p> <p>Includes firms which undertake underwater examinations of pipelines, concrete or other scientific or practical applications. The activity of any such firm must be limited, and not take part in other major operations in the fields of offshore oil fields or marine contracting work.</p>
Activity Status	Not Restricted

### Business Fee

Ministry / Directorate	License Fee
Municipality Affairs	10

### Business Requirements

Conditions
<p>Age : 18 and above</p> <p>Temporary Address : Allowed</p> <p>American Nationals ownership : Allowed up to 100%</p> <p>Foreign ownership : Allowed up to 100%</p> <p>Bahraini Ownership : Allowed up to 100%</p> <p>GCC Nationals Ownership : Allowed up to 100%</p> <p>Allowed for Individual Commercial Registration (ICR) : Yes</p> <p>Allowed for Company Commercial Registration (CCR) : Yes</p>

### Required Step of Licenses and Approvals

Ministry / Directorate	License / Approval Requirements	Approval Type
Municipality Affairs	<a href="#">Municipality Site Approval</a>	Post

مجلس تنظيم مزاولة المهن الهندسية  
The Council for Regulating the  
Practice of Engineering Professions

**Licence**

**for the Practice of Engineering Professions**

By virtue of Law (51) for 2014 with respect to regulating the practice of engineering professions and in accordance with the current regulations in the Kingdom of Bahrain and after validating and verifying all of the requirements, the Council for Regulating the Practice of Engineering Professions resolved to grant this licence with the following details:

Licence No. **GC/21**

Licence Category **F**

Persuant to Resolution No. **2525/01/10 (671 B) of 11.02.2010**

Commercial Name **Qatar Engineering Laboratories - Foreign Branch**

Commercial Registration No. **07609601**

Discipline(s)/Branches

**Geotechnical and Material Land Surveying Testing**

Valid until: 31<sup>st</sup> December **2017**



كبير  
الرئيس  
Chairman

**ترخيص**

**بمزاولة المهن الهندسية**

استناداً إلى القانون رقم (٥١) لسنة ٢٠١٤ في شأن تنظيم مزاولة المهن الهندسية وبناءً على الأنظمة المعمول بها في مملكة البحرين وبعد التحقق من استيفاء جميع الشروط الواجب توافرها، قرر مجلس تنظيم مزاولة المهن الهندسية منح هذا الترخيص حسب التفاصيل التالية:

رخصه رقم **م ت/ 21**

الفئة **و**

تنفيذاً للقرار رقم **2525/01/10 (B 671) الصادر في 11.02.2010**

الاسم التجاري **قطر للمختبرات الهندسية**

رقم السجل التجاري **07609601**

شعبة / فرع:

**جيوتكنك وهندسة فحص المواد**

صالحة لغاية: ٣١ ديسمبر **2017**



مجلس تنظيم مزاولة المهن الهندسية  
The Council for Regulating the  
Practice of Engineering Professions



**Registration No.:** EPP/GC/21/CE/01-A

**Name:** K G BABURAJAN

**Comp/Est.:** QATAR ENGINEERING

**Discipline:** CIVIL ENGINEERING

**Category :** (CAT.A.)

**Nationality:** INDIAN

**Issue Date:** 01.01.2017 **Valid Until:** 31.12.2017

The holder is allowed to practice engineering for this company and as categorized

مجلس تنظيم مزاولة المهن الهندسية  
The Council for Regulating the  
Practice of Engineering Professions



**Registration No.:** EPP/GC/21/CE/02-A

**Name:** ANDREAS KYRIACOU

**Comp/Est.:** QATAR ENGINEERING

**Discipline:** CIVIL ENGINEERING

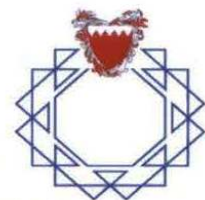
**Category :** (CAT.A.)

**Nationality:** CYPRIOT

**Issue Date:** 01.01.2017 **Valid Until:** 31.12.2017

The holder is allowed to practice engineering for this company and as categorized

مجلس تنظيم مزاولة المهن الهندسية  
The Council for Regulating the  
Practice of Engineering Professions



**Registration No.:** EPP/GC/21/CE/04-A

**Name:** BENNY A VARUGHESE

**Comp/Est.:** QATAR ENGINEERING  
LABORATORIES WLL

**Discipline:** CIVIL ENGINEERING

**Category :** (CAT.A.)

**Nationality:** INDIAN

**Issue Date:** 01.01.2017 **Valid Until:** 31.12.2017

The holder is allowed to practice engineering for this company and as categorized

Kingdom of Bahrain  
Ministry of Housing

Housing Projects Construction & Maintenance Directorate



مملكة البحرين  
وزارة الإسكان  
إدارة إنشاء وصيانة والمشاريع الإسكانية

HPCMD/QM/L-03/2012  
28<sup>th</sup> March 2012

To,

Qatar Engineering Laboratories  
(Bahrain Branch)  
P.O.Box-50191, Hidd  
Kingdom of Bahrain

Fax- 17243562

Attn: Mr. Baburajan K.G  
Managing Director

Dear Sir,

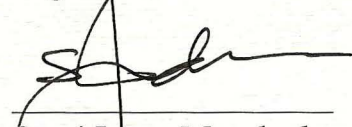
**Sub: Request to Approval of QEL, Bahrain Branch for Independent Materials Testing Laboratories**

**Ref : Your Letter QEL/BH/BKG/LT/252/2012 dated 5<sup>th</sup> March 2012**

With reference to the above subject the Laboratory set up was inspected by our Quality Management Senior Engineers and found in order. Your Bahrain Branch is therefore approved for carrying out Independent Material Testing and Geotechnical Services for Ministry of Housing's various projects. Please note that the approval is limited for Kingdom of Bahrain only.

Thank You,

Regards,

  
**Sami Juma Mandeel**  
Director- Housing Projects Construction & Maintenance Directorate

CC: CMS/QM/QS/EMS



### Consultancy & Research Section

## Technical Compliance Report (TCR) 452/16 (For Ministry of Works' Projects)

<b>Material Detail:</b>	Material Test Laboratory - Testing Services
<b>Provider:</b>	Qatar Engineering Laboratories (Bahrain)
<b>Applicant:</b>	Qatar Engineering Laboratories W.L.L. – Bahrain Branch Shed 9, Building 2189, Road 1529 Block 115, Hidd P.O. Box 50191, Kingdom of Bahrain

Following MED standard procedures for assessment and technical evaluations of the above Provider as to compliance with ISO/IEC 17025 Standard and Ministry of Works' requirements, we advise as per the following details:

#### i. Compliance with Relevant Standards & Specifications

√	Acceptable
	Not Acceptable

#### ii. Adequacy for use in Ministry of Works projects

√	Adequate. The Provider is suitable for use in the Ministry of Works projects.
	Suitable for use with conditions. Please refer to comments below.
	Put on-hold for follow-up. Please refer to comments below.
	Not suitable

#### iii. Comments

- The approved test methods as per the scope of accredited tests mentioned in the ISO 17025 Accreditation Certificate – International Laboratory Services W.L.L. (Bahrain) TL-454 issued by International Accreditation Services (IAS) commencing 16 April 2015, in areas for:
  - Cement, Concrete, Masonry and Aggregates (BS, BS EN and ASTM)
  - Soil (ASTM and BS)
  - Chemistry – Cement, Concrete, masonry, Aggregates and Soil (BS, BS EN and ASTM)
  - Environmental Chemistry - Water and Wastewater (In-house Test Method based on BS EN, APHA/AWWA, HACH)
  - Physical Testing – Manhole Cover, Glass Reinforced Pipes, Paint and Wood (BS EN, ASTM and IWPT)
  - Non Destructive Test – Pile Integrity Test (ASTM)
  - Bitumen - ASTM

**Note:**

This Report is valid for maximum of 2 year(s) from the date of this Report **unless otherwise stated** or there is a change / revision in the material technical specifications, manufacturing process or relevant Standards and Specifications requirements.

Signed & stamped by,

Date: 13<sup>th</sup> March 2016

MED File 4513



*[Signature]*

Director, Materials Engineering Directorate

## Memorandum

No. **MED/C&RS/M-166/2016**

الرقم:

Date: **13<sup>th</sup> March 2016**

التاريخ:

From: **Director**  
**Materials Engineering Directorate**

من:

To: **Directors**  
**SEPPD, SEOMD, RPDD, RPMD,**  
**BMD, CPD, SPD**

إلى:

### Subject: Technical Compliance Report (TCR)

We wish to advise that **Mssr. Qatar Engineering Laboratories (Bahrain)** had requested us to assess their **Material Test Laboratory – Testing Services** for consideration in MoW projects.

Following MED standard procedure for technically assessing services, please find attached for your information Technical Compliance Report (**TCR 452/16**) for the aforementioned service. This addition/renewal will be uploaded on our LIST OF APPROVED INDEPENDENT MATERIALS TESTING LABORATORIES which is available and updated monthly in our Ministry's Portal.

For any further clarification, please do not hesitate to contact the undersigned or the Chief of Consultancy and Research Section at 17 81 24 60 or facsimile at 17 81 24 19.

Regards,

*Sameer Affouni*

**Sameer Affouni**



Cc: Section Chief CRS / MED File 4513 - EMMCG



الحائزة على جائزة القائمة العالمية  
للمتميزين في تنفيذ الإستراتيجية



2009



**EWA**  
هيئة الكهرباء والماء  
Electricity & Water Authority  
Kingdom of Bahrain

إدارة التخطيط والدراسات  
Planning & Studies Directorate

3100/4.836/172/2014  
3<sup>rd</sup> March 2014

**QEL-Bahrain Branch**  
P O Box 50191  
Hidd  
Kingdom of Bahrain.

**Fax No: 17-243562**

**Attn: Mr. Baburajan KG, Managing Director**

Dear Sir,

**RE: Request for Approval of QEL- Bahrain Branch for Material  
Testing & Geotechnical Services**

We refer to your letter Ref. No. QEL/BH/BKG/LT/491/2014 dated 19<sup>th</sup> February 2014 requesting inclusion of QEL in EWA's approved list of Laboratories for carrying out Geotechnical Investigations.

In this regard, we acknowledge that QEL have carried out Geotechnical Site Investigation works as well as Material Testing works for Water Transmission contracts satisfactorily. They are thus approved for carrying out similar works on EWA Projects.

Thank you.

Yours faithfully,

**Abdul Hussain Ebrahim**  
Acting Director, Planning & Studies



International Accreditation Service

# CERTIFICATE OF ACCREDITATION

*This is to signify that*

## **QATAR ENGINEERING LABORATORIES (QEL)-FOREIGN BRANCH**

SHED-9, BUILDING-2189, ROAD-1529, BLOCK-115

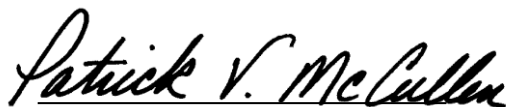
P O BOX 50191

HIDD

KINGDOM OF BAHRAIN

Testing Laboratory TL-454

has met the requirements of the IAS Accreditation Criteria for Testing Laboratories (AC89), has demonstrated compliance with ISO/IEC Standard 17025:2005, *General requirements for the competence of testing and calibration laboratories*, and has been accredited, commencing April 16, 2015, for the test methods listed in the approved scope of accreditation.



Patrick V. McCullen

Vice President, Chief Technical Officer



C. P. Ramani, P.E.

President



*(see attached scope of accreditation for fields of testing and accredited test methods)*

Print Date: 8/5/2015

*This accreditation certificate supersedes any IAS accreditation certificate bearing an earlier date. The certificate becomes invalid upon suspension, cancellation or revocation of accreditation.  
See the IAS Accreditation Listings on the web at [www.iasonline.org](http://www.iasonline.org) for current accreditation information, or contact IAS directly at (562) 364-8201.*

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International Accreditation Service

# SCOPE OF ACCREDITATION

Qatar Engineering Laboratories (QEL)-Foreign Branch TL-454

Qatar Engineering Laboratories (QEL)-Foreign Branch  
Shed-9, Building-2189  
Road-1529, Block-115  
P.O. Box 50191  
Hidd  
Kingdom of Bahrain

Sreekala Prabasankar  
Technical Manager  
+973 17250333

FIELDS OF TESTING	ACCREDITED TEST METHODS
Cement, Concrete, Masonry and Aggregates	<p>Fresh Concrete British Standards BS 1881-102 and BS 1881-108; BS EN Standards 12350-2 and 12350-6 Hardened Concrete ASTM Standards C 39, C 78/C78M, C 138, C140, C143/C143M, C 231, C 232, C293/C393M, C172/C172M, C 642, C 403, C 876; C1064/C1064M, C1202 British Standards BS 1881 Parts 116, 120, 122, 201, 202, 204 and 208, BS 6073-2 and BS 6717-1; BS EN Standards 446, 1097-6, 12390-2, 12390-3, 12390-5, 12390-6, 12390-7 and 12504 IWPT- 109: Temperature Monitoring in Concrete</p> <p>Aggregates/Rock ASTM Standards C 88, C 127, C128, C 131, C136, C142/C142M, C 535, D 5731 and 7012; British Standard BS 812 Parts 2, 103, 105.1, 105.2, 106, 109, 110, 111, 112 and 121; BS EN Standard 933-1 and 933-7 and BS EN 1926</p> <p>Masonry BS EN Standards 772 -1, 772-11, 1338, 1339 and 1340</p>
Soil	<p>ASTM Standards D 1557 and D 6938; British Standards BS 1377-2 (Clauses 3.2, 4.3, 5.3, 6.5, 8.2, 9.2, 9.3 and 9.5 only), BS 1377-4 (Clauses 3.3, 3.4, 3.5, 3.6 and 7 only) and BS 1377-9 (Clauses 2.1, 2.2, 2.5 and 4.1 only) IWPT-184: Determination of settlement characteristics of soil for lightly loaded foundation by the shallow pad maintained load test (Zone load test) based on BS 1377 Part 9:1990 clause 4.2</p>

April 16, 2015  
Commencement Date



*C. P. Ramani*  
C. P. Ramani, P.E.  
President

Print Date: 8/5/2015

Page 2 of 3

This accreditation certificate supersedes any IAS accreditation certificate bearing an earlier date. The certificate becomes invalid upon suspension, cancellation or revocation of accreditation. See the IAS Accreditation Listings on the web at [www.iasonline.org](http://www.iasonline.org) for current accreditation information, or contact IAS directly at (562) 364-8201.

13-08892

# International Accreditation Service

## SCOPE OF ACCREDITATION

Qatar Engineering Laboratories (QEL)-Foreign Branch TL-454

FIELDS OF TESTING	ACCREDITED TEST METHODS
Chemistry – Cement, Concrete, Masonry, Aggregates and Soil	<b>Concrete</b> ASTM Standards C 1152/C1152M and C 1218/C 1218M; British Standards BS 1881 Part 124, Tests 10.2 and 10, 3; BS EN Standard 14630 <b>Aggregate/Rock</b> ASTM Standard C 40; BS EN Standard BS EN 1744-1; British Standards BS 812 Part 117 (Appendix C only) and BS 812 Part 118 (Test 8 only) <b>Cement</b> ASTM Standard C 114; BS EN Standard 196-2 <b>Soil</b> BS Standards 1377 Part 3 (Clauses 3, 5.5, 6, 7.2, 7.3 and 8 only).
Environmental Chemistry – Water and Wastewater	IWPT97 (Based on BS EN 1008) SMEWW Standards 2340-C, 2510 B, 2540B, 2540 C, 2540-D, 3500-Ca B, 3500 Mg B; 3500-Fe B, 4500 H + B, 4500-Cl-B and 4500-SO <sub>4</sub> <sup>2-</sup> E; 2320B, 4500 Cl-G, 4500 NH <sub>3</sub> B&C, 4500 S <sup>2-</sup> D, 5210B, 5220-D; HACH 8039, 8153, 8167, 8185 and 8507; HACH 8131/SMEWW 4500P.E
Physical Testing Manhole Covers, Glass Reinforced Pipes, Paint and Wood	ASTM Standards D 2584, D 4138 and D 7234; BS EN Standard 124; IWPT – 91 (Density and moisture content of wood Based on BS 4978 and 6566-5), 6566-5 (Testing of Plywood Moisture Content)
Non Destructive Test (Pile Integrity Test)	ASTM Standard D 5882 IWPT – 183: NACE Recommended Practice for Testing of Protective Coatings, Based on ASTM Standards G 62-14 and D 5162
Bitumen	ASTM Standards D 2172/D 2172M, D 2726/D 2716M, D 3549/D 3549M, D 6926 and D 6927

Note: IWPT: INHOUSE WORK PROCEDURE FOR TESTING

April 16, 2015  
Commencement Date



*C. P. Ramani*  
C. P. Ramani, P.E.  
President

Print Date: 8/5/2015

Page 3 of 3

This accreditation certificate supersedes any IAS accreditation certificate bearing an earlier date. The certificate becomes invalid upon suspension, cancellation or revocation of accreditation. See the IAS Accreditation Listings on the web at [www.iasonline.org](http://www.iasonline.org) for current accreditation information, or contact IAS directly at (562) 364-8201.

13-08892





## FACSIMILE TRANSMITTAL

To	: Mr. K.G.Baburajan
	Managing Director
Co.	: Qatar Engineering Laboratories
Fax No.	: 17-243562
Your Ref.	:
cc	:

From	: Mr. A.Wahab Abdulla
	Superintendent – ESS
Fax No.	: 17-756991
Our Ref.	: ETS 07-04-01/15 / 343
E-Mail	:

Date	: 26-03-2015
Number of pages including this page	: 01

Signature	: P. 1. 1
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REMARKS	: <input type="checkbox"/> Urgent <input type="checkbox"/> For your review <input type="checkbox"/> Reply ASAP <input type="checkbox"/> Please comment
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**Subject: Contractor Pre-Qualification Registration / Renewal**

We would like to take this opportunity to inform you that you have been registered on our list of approved contractors for the term 2015-2017 under the following categories:

- Trade: Services – Levels 1, 2, 3 & 4.

**LEGEND**

- LEVEL – 1, JOB VALUE UP TO BD 2,000  
 LEVEL – 2, JOB VALUE ABOVE BD 2,000 TO BD 4,000  
 LEVEL – 3, JOB VALUE ABOVE BD 4,000 TO BD 10,000  
 LEVEL – 4, JOB VALUE ABOVE BD 10,000

Regards,







DEPARTMENT OF THE ARMY  
U.S. ARMY CORPS OF ENGINEERS  
MIDDLE EAST DISTRICT  
P.O. BOX 2250  
WINCHESTER, VA 22604-1450

14 December 2016

Qatar Engineering Laboratories  
Flat 9, Building 2189  
Road 115  
Hidd  
Kingdom of Bahrain

SUBJECT: Qatar Engineering Laboratory at Hidd, Bahrain - Laboratory Validation  
**VALIDATION EXPIRES 14 January 2018**

This letter confirms the completion of inspection and validation for the Qatar Engineering Laboratories materials testing laboratory located at Flat 9, Building 2189, Road 115, Hidd, Kingdom of Bahrain.

This laboratory is approved to perform the materials tests listed on the attached Table 1 for Middle East District (MED), U.S. Army Corps of Engineers (USACE) projects. This certification is based on the laboratory inspection performed by MED 29-30 November 2016.

This certification will be included with records that are maintained at the MED Headquarters in Winchester, Virginia. This certification is valid until 14 January 2018 and may be renewed annually a maximum of two times. To maintain certification, the laboratory must request renewal prior to 14 January 2018. To maintain certification past 14 December 2019, the laboratory must be re-inspected by MED.

This certification applies only to the location(s) listed above and is contingent upon the laboratory's continued adherence to applicable testing and quality control standards and equipment calibrations. MED may revoke this certification or require re-inspection at any time.

The inspection and certification process for the laboratory adhered to procedures outlined by the Materials Testing Center (MTC), which is located at the Geotechnical and Structures Laboratory (GSL), U.S. Army Engineer Research and Development Center (ERDC) in Vicksburg, Mississippi, USA. To facilitate construction in Gulf Region countries, MED has authorized the Quality Assurance Chief to conduct laboratory certifications with strict adherence to MTC protocol.

Questions about this certification or requests for renewal should be sent to [DLL-CETAM-CONSTRUCTION-LAB@USACE.ARMY.MIL](mailto:DLL-CETAM-CONSTRUCTION-LAB@USACE.ARMY.MIL).

Edward O. Upson, P.E., PMP  
Chief, Quality Assurance Section  
Middle East District  
U.S. Army Corps of Engineers

Enclosure: Tables 1-6

**TABLE 1 - AGGREGATE**

Test Method	Test Procedure	No.	Approved
	REQUIRED TESTS PER ASTM C 1077-14		
ASTM C 117-13	Material Finer than 75 :m (No. 200) Sieve	A1	X
ASTM C 127-12	Specific Gravity & Absorption in Coarse Aggregate	A2	X
ASTM C 128-12	Specific Gravity & Absorption in Fine Aggregate	A3	
ASTM C 136-06	Sieve Analysis of Aggregates	A4	X
	<b>OPTIONAL TESTS PER ASTM C1077-14</b>		
ASTM C 29-09	Unit Weight and Voids in Aggregate	A5	X
ASTM C 40-11	Organic Impurities	A6	X
ASTM C 70-13	Surface Moisture in Fine Aggregate	A7	
ASTM C 87-10	Effects of Organic Impurities on Mortar Strength	A8	
ASTM C 88-13	Sulfate Soundness	A9	
ASTM C 123-12	Lightweight Particles	A10	
ASTM C 131-06	Los Angeles Abrasion Resistance on Small-Size Coarse Aggregate	A11	X
ASTM C 142-10	Clay Lumps	A12	X
ASTM C 227-10	Alkali Reactivity of Cement-Aggregate Combinations (Mortar-Bar)	A13	
ASTM C 289-07	Alkali-Silica Reactivity of Aggregates (Chemical Method)	A14	
ASTM C 295-12	Petrographic Examination	A15	
ASTM C 441-11	Effectiveness of Mineral Admixtures or GBFS on Preventing	A16	
ASTM C 535-12	Los Angeles Abrasion Resistance on Large Size Coarse Aggregate	A11	X
ASTM C 566-13	Total Moisture Content	A17	X
ASTM C 586-11	Alkali Reactivity of Carbonate Rocks (Rock Cylinder Method)	A18	X
ASTM C 641-09	Staining Materials in Lightweight Aggregates	A19	
ASTM C 702-11	Reducing Samples to Testing Size	A20	
ASTM C 1105-08	Length Change Due to Alkali-Carbonate Reaction	A21	
ASTM C 1138-12	Abrasion Resistance of Concrete (Underwater Method)	A22	
ASTM C 1252-06	Uncompacted Void Content	A23	
ASTM C 1260-07	Potential Alkali Reactivity of Aggregates (Mortar-Bar Method)	A24	
ASTM C 1293-08	Length Change Alkali-Silica Reaction	A25	
ASTM D 75-13	Sampling	A26	
ASTM D 546-10	Sieve Analysis of Mineral Filler	A27	X
ASTM D 2419-09	Sand Equivalent Value	A28	
ASTM D 3744-11	Aggregate Durability Index	A29	
ASTM D 4791-10	Flat or Elongated Particles	A30	
ASTM D 5821-13	Percentage of Fractured Particles in Coarse Aggregate	A31	
CRD-C 104-80	Fineness Modulus	A4	
CRD-C 119-91	Flat and Elongated Particles	A30	
CRD-C 130-89	Scratch Hardness	A32	
CRD-C 171-94	Percentage of Crushed Particles in Aggregate	A33	

**TABLE 2 - BITUMINOUS**

Test Method	Test Procedure (ASTM D 3666-13)	No.	Approved
ASTM D 5-13	Penetration	B1	
ASTM D 36-14	Softening Point	B2	
ASTM D 70-09	Density of Semi-Solid Bituminous Mat'ls (Pycnometer Method)	B3	
ASTM D 113-07	Ductility	B4	
ASTM D 139-12	Float Test	B5	
ASTM D 140-09	Sampling Bituminous Materials	B6	
ASTM D 242-09	Mineral Filler for Bituminous Paving Mixtures	B7	
ASTM D 243-08	Penetration Residue	B8	
ASTM D 244-09	Emulsified Asphalts	B9	
ASTM D 402-08	Distillation of Cut-Back Asphalts	B10	
ASTM D 979-12	Sampling Bituminous Paving Mixtures	B11	
ASTM D 1074-09	Compressive Strength	B12	
ASTM D 1075-11	Effect of Water on Compressive Strength	B13	
ASTM D 1188-07	Bulk Specific Gravity & Density Using Coated Samples	B14	
ASTM D 1461-11	Moisture or Volatile Distillates in Bituminous Paving Mixtures	B15	
ASTM D 1560-09	Resistance to Deformation & Cohesion by Hveem	B16	
ASTM D 1561-13	Preparation by CA Kneading Compactor	B17	
ASTM D 1754-09	Effect of Heat & Air by Thin Film Oven	B18	
ASTM D 1856-09	Recovery of Asphalt by Abson	B19	
ASTM D 2041-11	Theoretical Maximum Specific Gravity & Density (Rice)	B20	
ASTM D 2042-09	Solubility by Trichloroethylene	B21	
ASTM D 2170-10	Kinematic Viscosity	B22	
ASTM D 2171-10	Viscosity by Vacuum Capillary Viscometer	B23	
ASTM D 2172-11	Quantitative Extraction	B24	X
ASTM D 2726-14	Bulk Specific Gravity and Density	B25	X
ASTM D 2872-12	Effect of Heat & Air on Moving Film by Rolling Thin Film Oven	B26	
ASTM D 2950-14	Density of Bituminous Concrete in Place by Nuclear Methods	B27	
ASTM D 3142-11	Density of Liquid Asphalts by Hydrometer	B28	
ASTM D 3203-11	Percent Air Voids	B29	
ASTM D 3289-08	Density by Nickel Crucible	B30	
ASTM D 3665-12	Random Sampling of Construction Materials	B31	
ASTM D 4125-10	Asphalt Content by Nuclear Method	B32	
ASTM D 4867-09	Effect of Moisture	B33	
ASTM D 5404-12	Asphalt Recovery by Rotary Evaporator	B34	
ASTM D 5444-08	Mechanical Size Analysis of Extracted Aggregate	B35	
ASTM D 6307-10	Asphalt Content of Hot-Mix Asphalt by Ignition Method	B36	
ASTM D 6926-10	Preparation of Bituminous Specimens using Marshall	B37	X
ASTM D 6927-06	Marshall Stability and Flow of Bituminous Mixtures	B38	X
CRD-C 650-95	Density and Percent Voids	B39	

**TABLE 3 - CONCRETE**

Test Method	Test Procedure	No.	Approved
	Required Tests Per ASTM C 1077-14		
ASTM C 31-12	Making and Curing Test Specimens in the Field	C1	
ASTM C 39-14	Compressive Strength of Cylindrical Specimens	C2	X
ASTM C 138-14	Unit Weight and Air Content by Gravimetric	C3	X
ASTM C 143-12	Slump	C4	X
ASTM C 172-14	Sampling	C5	X
ASTM C 173-14	Air Content by Volumetric	C6	
ASTM C 231-14	Air Content by Pressure	C7	X
ASTM C 1064-12	Temperature of Concrete	C8	X
ASTM C 42-13	Drilled Cores and Sawed Beams	C9	
ASTM C 78-10	Flexural Strength by Third Point Loading	C10	X
ASTM C 157-08	Length Change of Concrete and Mortars	C11	
ASTM C 174-13	Concrete Thickness by Drilled Cores	C12	
ASTM C 192-14	Making and Curing Test Specimens in Laboratory	C13	
ASTM C 215-08	Fundamental Frequencies of Concrete	C14	
ASTM C 232-14	Bleeding of Concrete	C15	X
ASTM C 293-10	Flexural Strength by Center Point Loading	C16	X
ASTM C 341-13	Length Change of Drilled or Sawed Concrete	C17	
ASTM C 403-08	Time of Setting by Penetration Resistance	C18	X
ASTM C 418-12	Abrasion Resistance by Sand Blasting	C19	
ASTM C 457-12	Air-Void System by Microscopic Determination	C20	
ASTM C 469-14	Static Modulus of Elasticity and Poisson's Ratio	C21	X
ASTM C 470-09	Molds for Forming Concrete Test Cylinders Vertically	C22	
ASTM C 490-11	Apparatus for Length Chge of Cement Paste, Mortar, & Concr	C23	
ASTM C 495-12	Compressive Strength of Lightweight Insulating Concrete	C24	
ASTM C 496-11	Splitting Tensile Strength	C25	X
ASTM C 511-13	Moist Cabinets, Moist Rooms, Water Storage Tanks	C26	
ASTM C 512-10	Creep of Concrete in Compression	C27	
ASTM C 567-14	Unit Mass of Structural Lightweight Concrete	C28	
ASTM C 597-09	Pulse Velocity Through Concrete	C29	X
ASTM C 617-12	Capping Cylindrical Specimens	C30	X
ASTM C 642-13	Density, Absorption, and Voids	C31	X
ASTM C 666-03 (08)	Freezing & Thawing Concrete Specimens	C32	
ASTM C 672-12	Scaling Resistance by Deicing Chemicals	C33	
ASTM C 779-12	Abrasion Resistance of Horizontal Surfaces	C34	
ASTM C 803-03 (10)	Penetration Resistance of Hardened Concrete	C35	
ASTM C 805-13	Rebound Number of Hardened Concrete	C36	X
ASTM C 823-12	Examination and Sampling Hardened Concrete in Cnstrctn	C37	
	<b>Test Procedure (ASTM C 1077-14)</b>		
ASTM C 856-14	Petrographic Examination of Hardened Concrete	C38	
ASTM C 873-10	Compressive Strength of Cast in Place Cylinders	C39	
ASTM C 876-09	Half-Cell Potentials of Uncoated Reinforcing Steel	C40	X

ASTM C 900-13	Concrete Pullout Strength	C41	
ASTM C 918-13	Early Age Compression Test	C42	
ASTM C 944-12	Abrasion Resistance by Rotating-Cutter Method	C43	
ASTM C 1040- 08 (13)	Density of Concrete by Nuclear Method	C44	
ASTM C 1074-11	Estimating Concrete Strength by Maturity Method	C45	
ASTM C 1084-10	Portland Cement Content of Hardened Concrete	C46	
ASTM C 1152-04 (12)	Acid-Soluble Chloride in Concrete	C47	
ASTM C 1202-12	Electrical Indication of Concrete to Resist Chloride Ion	C48	X
ASTM C 1218-99 (08)	Water-Soluble Chloride in Concrete	C49	
ASTM C 1231-14	Unbonded Caps	C50	
CRD-C 114-97	Soundness by Freezing and Thawing of Concrete	C51	

**TABLE 4 - MASONRY**

<b>Test Method</b>	<b>Test Procedure (ASTM C 1093-13)</b>	<b>No.</b>	<b>Approved</b>
ASTM C 109-13	Compressive Strength of Cmnt Mortars Using Cube Specimens	M1	
ASTM C 140-14	Sampling and Testing Concrete Masonry and Related Units	M2	
ASTM C 151-09	Autoclave Expansion of Portland Cement	M3	
ASTM C 185-08	Air Content of Hydraulic Cement Mortar	M4	
ASTM C 187-11	Normal Consistency of Hydraulic Cement	M5	
ASTM C 266-13	Time of Setting of Hydraulic-Cmnt Paste by Gillmore Needles	M6	
ASTM C 305-13	Mech Mixing of Cmnt Pastes & Mortars of Plstc Consistency	M7	
ASTM C 780-14	Evaluation of Mortars for Plain and Reinforced Unit Masonry	M8	
ASTM C 1019-13	Sampling and Testing Grout	M9	



**TABLE 5 - ROCK**

<b>Test Method</b>	<b>Test Procedure (ASTM D 3740-12)</b>	<b>No.</b>	<b>Approved</b>
ASTM D 2845-08	Pulse Velocity and Ultrasonic Elastic Constants	R1	
ASTM D 2936-08	Direct Tensile Strength of Intact Rock Core	R2	
ASTM D 3967-08	Tensile Strength, Splitting (Brazilian) Method	R3	
ASTM D 4435-13	Rock Bolt Anchor Pull Test	R4	
ASTM D 4543-08	Preparing Rock Core Specimens and Determining Tolerances	R5	
ASTM D 4644-08	Slake Durability of Shales and Weak Rocks	R6	
ASTM D 5312-12 (13)	Durability of Rock to Freezing and Thawing	R7	
ASTM D 5313-12 (13)	Durability of Rock to Wetting and Drying	R8	
ASTM D 5607-08	Laboratory Direct Shear Tests on Rock Under Cnst Normal	R9	
ASTM D 5731-08	Point Load Index	R10	X
ASTM D 5878-08	Rock-Mass Classification for Engineering Purposes	R11	
ASTM D 7012-13	Compr Strgth & Elastic Moduli of Rock Core Specimens	R12	X
CRD-C 144-92	Resistance of Rock to Freezing and Thawing	R7	
CRD-C 148-69	Expansive Breakdown on Soaking in Ethylene Glycol	R13	
CRD-C 169-97	Resistance of Rock to Wetting and Drying	R8	

**TABLE 6 - SOIL**

<b>Test Method</b>	<b>Test Procedure (ASTM D 3740-12)</b>	<b>No.</b>	<b>Approved</b>
ASTM D 421-85 (07)	Dry Preparation for Particle Size Distribution & Soil Constants	S1	
ASTM D 422-63 (07)	Particle Size Analysis	S2	X
ASTM D 558-11	Moisture-Density of Soil-Cement	S3	
ASTM D 559-03	Wetting & Drying Soil-Cement	S4	
ASTM D 560-03	Freezing & Thawing Soil-Cement	S5	
ASTM D 698-12	Compaction Characteristics by Standard Effort	S6	
ASTM D 854-10	Specific Gravity of Soils	S7	
ASTM D 1140-00 (06)	Material Finer than 75 :m (No. 200) Sieve	S8	X
ASTM D 1556-07	Density & Unit Weight by Sand Cone	S9	
ASTM D 1557-12	Compaction Characteristics by Modified Effort	S10	X
ASTM D 1883-07	CA Bearing Ratio (CBR)	S11	
ASTM D 2166-13	Unconfined Compressive Strength	S12	
ASTM D 2167-08	Density & Unit Weight by Rubber Balloon	S13	
ASTM D 2168-10	Calib of Laboratory Mechanical-Rammer Soil Compactors	S14	
ASTM D 2216-10	Water Content	S15	X
ASTM D 2434-68 (06)	Permeability by Constant Head	S16	
ASTM D 2435-11	One-Dimensional Consolidation Properties	S17	
ASTM D 2487-11	Classification of Soils	S18	
ASTM D 2488-09	Descr & ID of Soils (Visual-Manual Procedure)	S19	
ASTM D 2850-03 (07)	Unconsolidated, Undrained Strength in Triaxial Compression	S20	
ASTM D 2937-10	Density by Drive Cylinder Method	S21	
ASTM D 2974-13	Moisture, Ash, & Organic Matter of Peat & Othr Org Soils	S22	
ASTM D 3080-11	Direct Shear Test in Consolidated Drained Conditions	S23	
ASTM D 4220-14	Preserving & Transporting Samples	S24	
ASTM D 4253-00 (06)	Maximum Index Density by Vibratory Table	S25	
ASTM D 4254-00 (06)	Minimum Index Density	S26	
ASTM D 4318-10	Liquid & Plastic Limits & Plasticity Index	S27	X
ASTM D 4546-08	One-Dimensional Swell or Settlement Potential	S28	
ASTM D 4643-08	Determination of Water Content of Soil by Microwave Oven	S29	X
ASTM D 4767-13	Consolidated-Undrained Triaxial Compression	S30	
ASTM D 5084-10	Hydraulic Conductivity using a Flexible Wall Permeameter	S31	
ASTM D 6938-10	Density and Wtr Content by Shallow Depth Nucl Method	S32	X



**QATAR ENGINEERING LABORATORIES (QEL)**

*PRE-QUALIFICATION DOC.*

# **Certificates and Approvals**

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## **STATE OF QATAR**

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Registration and Commercial  
Licenses Department

وزارة الاقتصاد والتجارة  
Ministry of Economy and Commerce

إدارة التسجيل  
والتراخيص التجارية

### مستخرج ببعض بيانات السجل التجاري

2017/02/13



38301	رقم التسجيل الضريبي:	38301	رقم السجل التجاري:
	السمة التجارية:	قطر للمختبرات الهندسية	الأسم التجاري:
22/02/2018	تاريخ انتهاء السجل:	24/02/2008	تاريخ انشاء السجل:
200000	راس المال:	شركة ذات مسئولية محدودة	الشكل القانوني:
قطر	جنسية المنشأة:	نشط	حالة السجل:
		0	عدد الفروع:

### معلومات الاتصال

+974	أرقام الاتصال:	صندوق البريد:
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### الشركاء

الحالة	النسبة	الجنسية	رقم السجل	رقم الإثبات	الأسم
نشط	51	قطر	31681		لاغون قطر
نشط	49	البحرين	66978		شركة بي كي جي القابضة

### المدرء (المخولون بالتوقيع)

الصفة (الصلاحية)	الجنسية	رقم السجل	رقم الإثبات	الأسم
مدير (ملاحيات كاملة ومطلقة)	قطر		26363400843	احمد على حسين الانصاري
مدير (ملاحيات كاملة ومطلقة)	الهند		25435607677	بابو راجان غوبلان
مدير (ملاحيات كاملة ومطلقة)	الهند		28735612726	راجاته بابوراج



1 of 2

رقم السجل : 38301



غرفة قطر  
QATAR CHAMBER

تشهد غرفة تجارة وصناعة قطر بان المنشأة المذكورة اعلاه سجلت لدينا

Qatar Chamber certifies that the above mentioned establishment has been registered



Registration and Commercial  
Licenses Department

وزارة الاقتصاد والتجارة  
Ministry of Economy and Commerce

إدارة التسجيل  
والتراخيص التجارية

مستخرج ببعض بيانات السجل التجاري

#### الأنشطة التجارية

الرقم	إسم النشاط
252455	التجارة في اثاث ومعدات المختبرات

الرقم	إسم النشاط
1000173	القيام بأعمال الاختبارات و الضبط و الموازنة والتدقيق و التحكم للأعمال الهندسية والفنية
452120	مقاولات الحفر والدفان



2 of 2

رقم السجل : 38301



غرفة قطر  
QATAR CHAMBER

تشهد غرفة تجارة وصناعة قطر بان المنشأة المذكورة اعلاه سجلت لدينا

Qatar Chamber certifies that the above mentioned establishment has been registered



الإشارة: ٢٠١٠/٤٤٠٥٨/٩٢٠  
التاريخ: ٢٠١٠/١٠/٧

### قائمة المختبرات المعتمدة في شهر أكتوبر ٢٠١٠

السادة/ مدراء الشؤون والإدارات  
السادة/ مدراء المشاريع  
السادة/ مدراء المختبرات الخاصة

(المعلمة) هليلكم ورعمة الله ورمانة

بناءً على التعميم رقم ٢٨ لسنة ٢٠٠٧ وبناءً على التقييم الدوري لفريق مراقبة المختبرات نرفق لسيادتكم قائمة المختبرات المعتمدة في شهر أكتوبر ٢٠١٠ والتي يمكن التعامل معها في مشروعات أشغال.

في هذه القائمة تم رفع مختبر فيجرو، وقطر للمختبرات الهندسية إلى المجموعة الأولى وذلك لحصولهما على شهادة الأيزو ١٧٠٢٥ بالإضافة إلى استيفائهم باقي متطلبات أشغال لهذه القائمة، كما أنه تم نقل مختبر التيسير ومختبر بيونير إلى المجموعة الثالثة وذلك لحين حصولهم على شهادة الأيزو أو استبعادهم من القائمة نهائياً.

#### ١- المجموعة الأولى:

يمكن اعتبارها مختبرات مرجعية كطرف ثالث في حالة وجود أي اختلاف في نتائج فحص أي من المختبرات الأخرى:

#### 1- First Category:

These laboratories are considered as reference laboratories or third party labs, in such cases where some contradiction, conflict or differences occurred in test results conducted by other laboratories.

Qatar Engineering Laboratories	قطر للمختبرات الهندسية
Soil Testing	فحوصات التربة
Concrete Testing	فحوصات الخرسانة
Asphalt Testing	فحوصات الأسفلت
Steel Testing	تحليل جودة حديد التسليح
Geotechnical Testing	الفحوصات الجيوتقنية





الهيئة العامة القطرية للمواصفات والتقييس  
QATAR GENERAL ORGANIZATION FOR STANDARDIZATION

## LAB REGISTRATION CERTIFICATE

شهادة مطابقة

### CERTIFICATE OF CONFORMITY

FOR

THE GENERAL REQUIREMENTS OF GEOTECHNICAL SOIL INVESTIGATION FIRM

Certificate No: SI 90

Issued : 18-10-2016

Validity: 17-10-2017

Company : Qatar Engineering Laboratories W.L.L

P.O.Box : 40278

Doha-Qatar

Tel: 44515401

Fax: 44515317

Manager : Mr. N. Sabu

Geotech Engineer : Mr. Rajath Baburaj

Lab Location : Street No. 50 , Salwa Industrial Area , Doha

CR No. : 38301

Conditions : The above Materials Testing Laboratory was found to be satisfactory for carrying out the above-mentioned testing at the time of inspection and quality audit. This certificate will remain valid for the period shown provided periodic quality and compliance audits carried out by the Ministry of Environment (ME) prove to be satisfactory

**Notes:** (1) The Ministry of Environment has no responsibility for the poor performance by this lab. during the validity period.  
(2) It is important to apply two months before expiry date of validity for renewal of this conformity certificate.  
(3) The required fee for this certificate has been stated according to the decision No. 76/2004 of H.E. the Minister of Economy and Trade.  
(4) This certificate is invalid without the attached scope of accreditation.

Authorized by: \_\_\_\_\_  
Director of Quality & Conformity Dept.

Recommended by: \_\_\_\_\_  
Head of LA Section

Approved by: \_\_\_\_\_  
CEO, QGOS

رؤيتنا

حماية بيئتنا وتنميتها واستدامتها مسؤولية الجميع

CONFORMITY CERTIFICATE



الهيئة العامة القطرية للمواصفات والتقييس  
QATAR GENERAL ORGANIZATION FOR STANDARDIZATION

## LAB REGISTRATION CERTIFICATE

شهادة مطابقة

### CERTIFICATE OF CONFORMITY FOR

THE GENERAL REQUIREMENTS OF MATERIALS TESTING LABORATORY

Certificate No: ML 359

Issued : 24-11-2016

Validity: 23-5-2017

#### Category: A (Restricted)

**Company** : Qatar Engineering Laboratories W.L.L  
P.O. Box 40278  
Doha-Qatar  
Tel: 44515401 Fax: 44515317

**Manager** : Mr. N. Sabu  
**QA/QC Engineer** : Mr. Rajath Baburaj  
**Senior Technician** : Mr. Mandy Vicente  
**Lab Location** : Industrial Area , St. No 50 ,, Doha  
**CR No.** : 38301  
**Scope/ Range** : Physical, Mechanical & Chemical testing of Soil, Aggregate Concrete, Cementitious Materials (Cement, GGBS, Microsilica, PFA), Masonry Blocks, paving units, Tiles, Kerbs, Flags, Building stone, Marble & Rock, Steel Tests, Geotechnical Test, Physical Testing of Asphaltic materials (Rock and Pavement Test), Water Analysis, Environmental Tests.

**QC System** : Operational  
**QA System** : Satisfactory  
**Conditions** : The above Materials Testing Laboratory was found to be satisfactory for carrying out the above-mentioned testing at the time of inspection and quality audit. This certificate will remain valid for the period shown provided periodic quality and compliance audits carried out by the Ministry of Environment (ME) prove to be satisfactory.

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حماية بيئتنا وتنميتها واستدامتها مسؤولية الجميع

CONFORMITY CERTIFICATE





## رخصة تجارية

مكتب تجاري

رقم الطلب: ٢٠١٣/٢١٤٤	رقم الرخصة: ٦٤٧٨٨
البطاقة الشخصية: اسم المرخص له: احمد على حسين الانصارى وشركاه	الجنسية: قطري
البطاقة الشخصية: المدير المسؤول: احمد على حسين الانصارى	الجنسية: قطري
الاسم التجاري: قطر للمختبرات الهندسية (ذ م م)	
نوع العمل: القيام باعمال الاختبارات والضبط والموازنة والتدقيق والتحكم للاعمال الهندسية والفنية	
موقع المحل: ٥٧ - المنطقة الصناعية	شارع: ٥٠ - شارع ٥٠
عقار رقم: ق-٩٩/ب-م	ملك: الدولة
صدرت هذه الرخصة بموجب القانون رقم ٣ لسنة ١٩٧٥ وعلى المرخص له مراعاة الإلتزام بأحكام القانون ولوائح التنفيذ بالإضافة الى الشروط الخاصة بالتراخيص ومنها ضرورة تجديدها في الموعد المحدد وإخطار الإدارة فور حدوث أية تعديلات في البيانات اعلاه.	
٠-٣٨٣٠١	

مدير إدارة التسجيل والتراخيص التجارية



تاريخ الاصدار: ٢٠١٣-٠٢-١٣

تاريخ الإنتهاء: ٢٠١٤-١٢-١٢





## رخصة تجارية

مكتب تجاري

رقم الطلب:	٢٠١٥/٢٩٧	رقم الرخصة:	٦٤٧٨٨
البطاقة الشخصية:	اسم المرخص له:	الجنسية:	قطري
٢٦٣٦٣٤٠٠٨٤٣	احمد على حسين الانصاري و شركاه	الجنسية	قطري
المدير المسؤول:	احمد على حسين الانصاري	الاسم التجاري:	قطر للمختبرات الهندسية (ذ م م)
نوع العمل:	القيام باعمال الاختبارات والضبط والموازنة والتدقيق والتحكم للاعمال الهندسية والفنية	موقع المحل:	٥٧ - المنطقة الصناعية
عقار رقم:	ق-٩٩/ب-م	شارع:	٥٠ - شارع
ملك:	الدولة	عقار رقم:	ق-٩٩/ب-م
صدرت هذه الرخصة بموجب القانون رقم ٣ لسنة ١٩٧٥ وعلى المرخص له مراعاة الالتزام بأحكام القانون ولوائحه التنفيذية بالإضافة الى الشروط الخاصة بالتراخيص ومنها ضرورة تجديدها في الموعد المحدد وإخطار الإدارة فور حدوث أية تعديلات في البيانات اعلاه .			
٠٣٨٣٠١			

مدير إدارة التسجيل والتراخيص التجارية

تاريخ الاصدار: ٢٠١٥-٠١-٠٨

تاريخ الإنتهاء: ٢٠١٦-١٢-١٢



## الشروط العامة للرخصة التجارية

- ١ - لا يجوز إجراء أي تعديل في المحل المرخص له على خلاف الترخيص الممنوح إلا بموافقة كتابية من وزارة الاقتصاد والتجارة.
- ٢ - يجب مراجعة الجهات المختصة قبل مباشرة العمل في الحالات التالية:
  - تغيير اسم المرخص له أو مدير المحل .
  - تعديل أو إضافة نشاط للترخيص .
  - تغيير موقع المحل .
  - تعديل الاسم التجاري.
- ٣ - يجوز التنازل عن الترخيص بموافقة الجهات المختصة على أن يقدم المتنازل إليه طلباً لوزارة الاقتصاد والتجارة طلباً بنقل الترخيص إلى اسمه مرفقاً به عقد التنازل وكافة البيانات الأخرى.
- ٤ - في حالة وفاة المرخص له يجب على من آلت إليه ملكية المحل إخطار وزارة الاقتصاد والتجارة خلال ثلاثة شهور من تاريخ الوفاة لتعديل بيانات الترخيص.
- ٥ - يجب على المرخص له إخطار وزارة الاقتصاد والتجارة في حالة وقف النشاط بالمحل المرخص له وإذا لم يتم ذلك فسوف تحتسب رسوم الرخصة طول مدة وقف النشاط.
- ٦ - يجب مراعاة تجديد الترخيص في الموعد المحدد بالرخصة التجارية وفي حالة التأخير يتم تحصيل غرامة مالية عن كل شهر تأخير.
- ٧ - يجب استيفاء المحل للاشتراطات العامة والخاصة المطلوبة من وزارة الاقتصاد والتجارة والمتعلقة بالمحل والعاملين به.
- ٨ - تلغي الرخصة التجارية في الحالات التالية:
  - إذا أخطر المرخص له وزارة الاقتصاد والتجارة بوقف العمل بالمحل.
  - إذا أزيل المحل ولو أعيد بناؤه أو انشاؤه.
  - إذا أصبح المحل غير قابل للتشغيل أو غير مستوفي للشروط الواردة في الترخيص.
  - إذا صدر قرار أو حكم نهائي بإغلاق المحل نهائياً أو بإزالته.
  - إذا أجرى قبل موافقة الوزارة تعديل في المحل أو فتح أو أدير على خلاف الترخيص.
  - إذا لم يخطر المالك الجديد وزارة الاقتصاد والتجارة بانتقال ملكية المحل إليه.
  - إذا وجد خطر داهم على الصحة العامة أو الأمن العام أو وقعت أفعال مخالفة للأداب أو النظام العام.

## شروط وضوابط لوحات الأسماء التجارية

- يجب أن لا يكون محتوى لوحة الأسم التجارية مخلاً بالآداب العامة أو التقاليد أو المساس بالمعتقدات الدينية.
- لوحة الإسم التجاري على واجهة المحلات التجارية:**
  - يجب أن تكون لوحة الاسم التجاري مثبتة لجدار المحل التجاري ( بدون بروز ) وبمقاس عرض واجهة المحل وأن لا يزيد ارتفاع اللوحة عن ١,٢٠ متر، ويرفق النموذج أو مقترح موضح عليه واجهة المحل ووضع تحديد اللوحة الجديدة بالقياس ان كان الارتفاع أكثر من ١,٢٠ م.
- لوحة الإسم التجاري على واجهة المباني والفلل :**
  - يجب أن تكون حجم لوحة الاسم التجاري متناسقة على واجهة المبنى وأن لا يتجاوز ارتفاعها ١,٢٠ م ( بنظام الاحرف).
- لوحة الإسم التجاري على واجهة المكاتب الداخلية في المبنى:**
  - يجب أن تكون اللوحة على واجهة المكتب أو الشقة وان لا تزيد عن ( ١ متر مربع ) فقط.

International Accreditation Service

# CERTIFICATE OF ACCREDITATION


*This is to signify that*

## **QATAR ENGINEERING LABORATORIES WLL**

P.O. BOX 40278  
ST. 50, GATE 26, INDUSTRIAL AREA  
DOHA  
QATAR

Testing Laboratory TL-424  
(Revised November 17, 2015)

has met the requirements of the IAS Accreditation Criteria for Testing Laboratories (AC89), has demonstrated compliance with ISO/IEC Standard 17025:2005, *General requirements for the competence of testing and calibration laboratories*, and has been accredited, commencing August 23, 2015, for the test methods listed in the approved scope of accreditation.



Patrick V. McCullen  
Vice President, Chief Technical Officer



C. P. Ramani, P.E.  
President



*(see attached scope of accreditation for fields of testing and accredited test methods)*

Print Date: 11/17/2015

*This accreditation certificate supersedes any IAS accreditation certificate bearing an earlier date. The certificate becomes invalid upon suspension, cancellation or revocation of accreditation.  
See the IAS Accreditation Listings on the web at [www.iasonline.org](http://www.iasonline.org) for current accreditation information, or contact IAS directly at (562) 364-8201.*

Page 1 of 33



# International Accreditation Service

## SCOPE OF ACCREDITATION

Qatar Engineering Laboratories WLL TL-424  
(Revised November 17, 2015)

Qatar Engineering Laboratories WLL  
PO Box 40278  
St. 50, Gate 26, Industrial Area  
Doha  
Qatar

N. Sabu  
Technical Manager  
+974 44515403

CATEGORY	STANDARD NO./METHOD /ISSUE DATE	TITLE OF STANDARD / METHOD USED AND ITS RELEVANT SECTION	LOCATION/ FACILITY	TEST EQUIPMENT/ INSTRUMENTATION USED (NAME/ID NO.)	NAMES OF APPROVED OPERATORS/ TECHNICIANS
Concrete	ASTM C 31/C 31M 2012	Standard Practice for Making & Curing Concrete Test Specimens	QEL Main Laboratory	1- Cylinder Moulds 2- Beam Moulds 3- Tamping Rods 4- Slump Apparatus 5- Air Content Apparatus 6- Temperature Measuring Device	1- Prateek Velandi 2- Anurag Reghu 3- Santosh Eenthulla Parambath 4- Haytham Osman 5- Sajith Prasanna Thisera 6- Gopal Prasad Adhikari 7- William Tabe Mbi
Concrete	ASTM C 39/C 39M 2014a	Standard Test Method for Compressive Strength of Cylindrical Concrete Specimens	QEL Main Laboratory	1- Compression Machine 2- Electronic Balance 3- Vernier Callipers	1- Prateek Velandi 2- Anurag Reghu 3- Santosh Eenthulla Parambath 4- Haytham Osman 5- Sajith Prasanna Thisera 6- Gopal Prasad Adhikari 7- William Tabe Mbi
Concrete	ASTM C 78/C 78 M 2010e1	Standard Test Method for Flexural Strength of Concrete (3 Point Method)	QEL Main Laboratory	1- Flexural Machine 2- Electronic Balance 3- Steel Rule	1- Prateek Velandi 2- Anurag Reghu 3- Santosh Eenthulla Parambath 4- Haytham Osman 5- Sajith Prasanna Thisera 6- Gopal Prasad Adhikari 7- William Tabe Mbi
Concrete	ASTM C 138/C 138M 2014	Standard Test Method for Density and Air Content (Gravimetric) of Concrete	QEL Main Laboratory	1- Electronic Balance 2- Tamping Rod 3- Air Content Apparatus 4- Strike Off Plate 5- Mallet	1- Prateek Velandi 2- Anurag Reghu 3- Santosh Eenthulla Parambath 4- Haytham Osman 5- Sajith Prasanna Thisera 6- Gopal Prasad Adhikari 7- William Tabe Mbi

August 23, 2015  
Commencement Date



*C. P. Ramani*  
C. P. Ramani, P.E.  
President

Print Date: 11/17/2015

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# SCOPE OF ACCREDITATION

Qatar Engineering Laboratories WLL TL-424  
(Revised November 17, 2015)

CATEGORY	STANDARD NO./METHOD/ISSUE DATE	TITLE OF STANDARD / METHOD USED AND ITS RELEVANT SECTION	LOCATION/ FACILITY	TEST EQUIPMENT/ INSTRUMENTATION USED (NAME/ID NO.)	NAMES OF APPROVED OPERATORS/ TECHNICIANS
Concrete	ASTM C 172/C 172M 2014a	Standard Practice for Sampling Freshly Mixed Concrete	QEL Main Laboratory	1- Test Sieves 2- Containers (Suitable Size) 3- Hand Tools (Shovels Etc.)	1- Prateek Velandi 2- Anurag Reghu 3- Aneesh Thampi 4- Santosh Eenthulla Parambath 5- Haytham Osman 6- Naindra Bahadur
Concrete	ASTM C 403/C 403 M 2008	Standard Test Method for Time of Setting of Concrete by Penetration Resistance	QEL Main Laboratory	1- Penetration Needle 2- Loading Apparatus 3- Tamping Rod 4- Thermometer 5- Test Sieve 6- Moulds	1- Prateek Velandi 2- Anurag Reghu 3- Santosh Eenthulla Parambath 4- Haytham Osman 5- Naindra Bahadur 6- Aneesh Thampi
Concrete	ASTM C 617/C 617M 2012	Standard Test Method for Capping Cylindrical Concrete Specimens	QEL Main Laboratory	1- Capping Plates 2- Alignment Plates 3- Melting Pots	1- Prateek Velandi 2- Anurag Reghu 3- Santosh Eenthulla Parambath 4- Haytham Osman 5- Sajith Prasanna Thisera 6- Jessil Joy
Concrete	ASTM C 876-2009	Standard Test Method for Corrosion Potentials of Uncoated Resistance Steel in Concrete	QEL Main Laboratory	1- Reference Electrode 2- Voltmeter	1- Mandy Vicente 2- Sreenivasan Kakurayil
Concrete	ASTM C 900 2014	Standard Test Method for Pull Out Strength of Harden Concrete	QEL Main Laboratory	1- Pull Out Tester	1- Mandy Vicente 2- Sreenivasan Kakurayil 3- Naindra Bahadur 4- Aneesh Thampi
Concrete	ASTM C 1064/C 1064 2012	Standard Test Method for Temperature of Freshly Mixed Hydraulic Cement Concrete	QEL Main Laboratory	1- Thermometer (+/-0.5) 2- Voltmeter 3- Containers	1- Prateek Velandi 2- Anurag Reghu 3- Santosh Eenthulla Parambath 4- Haytham Osman 5- Sajith Prasanna Thisera

August 23, 2015  
Commencement Date



*C. P. Ramani*  
C. P. Ramani, P.E.  
President

Print Date: 11/17/2015

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International Accreditation Service

# SCOPE OF ACCREDITATION

Qatar Engineering Laboratories WLL TL-424  
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CATEGORY	STANDARD NO./METHOD/ISSUE DATE	TITLE OF STANDARD / METHOD USED AND ITS RELEVANT SECTION	LOCATION/ FACILITY	TEST EQUIPMENT/ INSTRUMENTATION USED (NAME/ID NO.)	NAMES OF APPROVED OPERATORS/ TECHNICIANS
Concrete	ASTM C 1202 2012	Standard Test Method for Electrical Indication of Concrete Ability to Resist to Chloride Ion Penetration	QEL Main Laboratory	1- Vacuum Saturation Apparatus 2- Vacuum Dessicator 3- RCPT Apparatus	1- Sreenivasan Kakurayil 2- Ganesh Krishnan 3- Santosh Eenthulla Parambath
Concrete	ASTM C 1231/C 1231M 2014	Standard Practice for Use of Unbounded Caps in the Determination of Compressive Strength of Hardened Concrete	QEL Main Laboratory	1- Elastometric Pads	1- Prateek Velandi 2- Anurag Reghu 3- Santosh Eenthulla Parambath 4- Haytham Osman 5- Sajith Prasanna Thisera 6- Gopal Prasad Adhikari 7- William Tabe Mbi
Concrete	ASTM C 143/C 143M 2012	Standard Test Method for Slump of Hydraulic Cement Concrete	QEL Main Laboratory	1- Slump Cone 2- Tamping Rod 3- Measuring Device 4- Scoop.	1- Prateek Velandi 2- Anurag Reghu 3- Santosh Eenthulla Parambath 4- Aneesh Thampi
Concrete	ASTM C 231/C 231M 2014	Standard Test Method for Air Content of Freshly Mixed Concrete by Pressure Method	QEL Main Laboratory	1- Air Meter 2- Cover Assembly 3- Measuring Bowl 4- Tamping Rod 5- Scoops	1- Prateek Velandi 2- Anurag Reghu 3- Santosh Eenthulla Parambath 4- Haytham Osman 5- Sajith Prasanna Thisera 6- Gopal Prasad Adhikari 7- William Tabe Mbi
Concrete	AASHTO TP-64-03/NT BUILD 492	Predicting Chloride Penetration of Hydraulic Cement Concrete by Rapid Migration Process	QEL Main Laboratory	1- Power Supply 2- Thermometer	1- Prateek Velandi 2- Anurag Reghu 3- Santosh Eenthulla Parambath 4- Haytham Osman 5- Sajith Prasanna Thisera
Concrete	BS EN 12350-1 2009	Testing of Fresh Concrete-Sampling	QEL Main Laboratory	1- Scoop 2- Thermometer 3- Container	1- Prateek Velandi 2- Anurag Reghu 3- Santosh Eenthulla Parambath 4- Haytham Osman 5- Sajith Prasanna Thisera 6- Gopal Prasad Adhikari 7- William Tabe Mbi

August 23, 2015  
Commencement Date



*C. P. Ramani*  
C. P. Ramani, P.E.  
President

Print Date: 11/17/2015

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13-08892

# International Accreditation Service

## SCOPE OF ACCREDITATION

Qatar Engineering Laboratories WLL TL-424  
(Revised November 17, 2015)

CATEGORY	STANDARD NO./METHOD/ISSUE DATE	TITLE OF STANDARD / METHOD USED AND ITS RELEVANT SECTION	LOCATION/ FACILITY	TEST EQUIPMENT/ INSTRUMENTATION USED (NAME/ID NO.)	NAMES OF APPROVED OPERATORS/ TECHNICIANS
Concrete	BS EN 12350-2 2009	Testing Fresh Concrete –Slump Test	QEL Main Laboratory	1- Slump Cone 2- Compacting Rod 3- Funnel 4- Base Plate 5- Shovel 6- Scoop 7- Measuring Device	1- Prateek Velandi 2- Anurag Reghu 3- Santosh Eenthulla Parambath 4- Haytham Osman 5- Sajith Prasanna Thisera
Concrete	BS EN 12350-5 2009	Flow Table Test	QEL Main Laboratory	1- Flow Table - 700 mm Square 2- Slump Cone (Truncated Type) 3- Tamping Bar (Wooden) 4- Measuring Tape or Steel Rule	1- Prateek Velandi 2- Anurag Reghu 3- Santosh Eenthulla Parambath 4- Haytham Osman 5- Sajith Prasanna Thisera
Concrete	BS EN 12390-1 2012	Testing Hardened Concrete, Shape, Dimension and Other Requirements	QEL Main Laboratory	1- Digital Calliper 2- Electronic Balance 3- Feeler Gauge 4- Try Square	1- Prateek Velandi 2- Anurag Reghu 3- Santosh Eenthulla Parambath 4- Haytham Osman 5- Sajith Prasanna Thisera 6- Gopal Prasad Adhikari 7- William Tabe Mbi
Concrete	BS EN 12390-2	Making & Curing for Strength Test	QEL Main Laboratory	1- Compression Machine 2- Electronic Balance 3- Cube Moulds 4- Try Square Etc. 5-Straight Edge	1- Prateek Velandi 2- Anurag Reghu 3- Santosh Eenthulla Parambath 4- Haytham Osman 5- Sajith Prasanna Thisera 6- Gopal Prasad Adhikari 7- William Tabe Mbi
Concrete	BS EN 12390-3 2009	Compressive Strength of Test Specimens	QEL Main Laboratory	1- Compression Testing Machine 2- Digital Caliper 3- A balance readable to 0.1 g and 1 g	1- Prateek Velandi 2- Anurag Reghu 3- Santosh Eenthulla Parambath 4- Sajith Prasanna Thisera
Concrete	BS EN 12390-6 2009	Tensile Splitting Strength of Test Specimens	QEL Main Laboratory	1- Digital Calliper 2- Electronic Balance 3- Tensile Testing Machine 4- Tensile Splitting Jig	1- Prateek Velandi 2- Anurag Reghu 3- Santosh Eenthulla Parambath 4- Haytham Osman 5- Sajith Prasanna Thisera

August 23, 2015  
Commencement Date



*C. P. Ramani*  
C. P. Ramani, P.E.  
President

Print Date: 11/17/2015

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13-08892



# SCOPE OF ACCREDITATION

Qatar Engineering Laboratories WLL TL-424  
(Revised November 17, 2015)

CATEGORY	STANDARD NO./METHOD/ISSUE DATE	TITLE OF STANDARD / METHOD USED AND ITS RELEVANT SECTION	LOCATION/FACILITY	TEST EQUIPMENT/ INSTRUMENTATION USED (NAME/ID NO.)	NAMES OF APPROVED OPERATORS/ TECHNICIANS
Concrete	BS EN 12390-7 2009	Density of Hardened Concrete	QEL Main Laboratory	1- Digital Calliper 2- Electronic Balance	1- Prateek Velandi 2- Anurag Reghu 3- Santosh Eenthulla Parambath 4- Haytham Osman 5- Sajith Prasanna Thisera 6- Gopal Prasad Adhikari 7- William Tabe Mbi
Concrete	BS EN 12390-8 2009	Water Penetration of Hardened Concrete	QEL Main Laboratory	1- Equipment which i capable to produce a pressure of 500 Kpa for a period of 72 Hrs	1- Prateek Velandi 2- Anurag Reghu 3- Santosh Eenthulla Parambath 4- Haytham Osman 5- Sajith Prasanna Thisera
Concrete	BS EN 12504-1 2009	Cored Specimens: Taking, Examining & Testing in Compression.	QEL Main Laboratory	1- Core Drill 2- Compression Testing Machine 3- Electronic Balance (0.1 % Accuracy) 4- Digital Calliper (1% Accuracy) 5- Square & Gauges	1- Prateek Velandi 2- Anurag Reghu 3- Santosh Eenthulla Parambath 4- Haytham Osman 5- Sajith Prasanna Thisera
Concrete	BS 1881-102 1983	Method of Determination of Slump	QEL Main Laboratory	1- Slump Cone 2- Thermometer 3-Measuring Scale	1- Prateek Velandi 2- Anurag Reghu 3- Santosh Eenthulla Parambath 4- Haytham Osman 5- Sajith Prasanna Thisera 6- Gopal Prasad Adhikari 7- William Tabe Mbi6 8- Aneesh Thampi
Concrete	BS 1881-108 1983	Method for Making Test Cubes from Fresh Concrete	QEL Main Laboratory	1- Cube Mould 2- Thermometer 3- Tamping Rod	1- Prateek Velandi 2- Anurag Reghu 3- Santosh Eenthulla Parambath 4- Haytham Osman 5- Sajith Prasanna Thisera 6- Gopal Prasad Adhikari 7- William Tabe Mbi

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Concrete	BS 1881-116 1983	Method for the Determination of Compressive Strength of Concrete Cube	QEL Main Laboratory	1- Testing Machine (Compressive) 2- Electronic Balance 3- Digital Calliper	1- Prateek Velandi 2- Anurag Reghu 3- Santosh Eenthulla Parambath 4- Haytham Osman 5- Sajith Prasanna Thisera 6- Gopal Prasad Adhikari 7- William Tabe Mbi
Concrete	BS 1881-120 1983	Method for the Determination of Compressive Strength of Concrete Cores	QEL Main Laboratory	1- Testing Machine (Compressive) 2- Electronic Balance 3- Digital Calliper 4- Capping Apparatus	1- Prateek Velandi 2- Anurag Reghu 3- Santosh Eenthulla Parambath 4- Haytham Osman 5- Sajith Prasanna Thisera
Concrete	BS 1881-208 1996	Initial Surface Absorption of Hardened Concrete	QEL Main Laboratory	1- ISAT Apparatus	1- Sreenivasan Kakurayil 2- Praseeth Retnakumar
Concrete	BS 1881-118 1983	Determination of Flexural Strength of Beams	QEL Main Laboratory	1- Testing Machine (Flexural) 2- Electronic Balance 3- Digital Calliper 4- Steel Rule	1- Prateek Velandi 2- Anurag Reghu 3- Santosh Eenthulla Parambath 4- Haytham Osman 5- Sajith Prasanna Thisera
Concrete	BS 6717-1 2001	Precast, Unreinforced Concrete Paving Blocks	QEL Main Laboratory	1- Compression Machine 2- Electronic Balance 3- Digital Calliper	1- Prateek Velandi 2- Anurag Reghu 3- Santosh Eenthulla Parambath 4- Haytham Osman 5- Sajith Prasanna Thisera
Concrete	DIN-1048	Permeability Test	QEL Main Laboratory	1- Equipment which is capable to produce a pressure of 500 kpa for 72 hrs	1- Prateek Velandi 2- Sreenivasan Kakurayil 3- Santosh Eenthulla Parambath 4- Haytham Osman 5- Sajith Prasanna Thisera
Concrete	IWPT 146 - (Robin Summers Specification Appendix A)	Capillary Index of Concrete	QEL Main Laboratory	1- Electronic Balance 2- Stop Watch 3- Oven	1- Prateek Velandi 2- Anurag Reghu 3- Santosh Eenthulla Parambath 4- Haytham Osman 5- Sajith Prasanna Thisera 6- Ganesh Krishnan

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Concrete	BS 1881-122 2011	Method for the Determination of Water Absorption of Concrete	QEL Main Laboratory	1- A drying oven 2- Electronic Balance 3- Oven 4- Core Driller 5- Water Bath	1- Prateek Velandi 2- Anurag Reghu 3- Santosh Eenthulla Parambath 4- Arulvarnan SathasivamArulanantham
Aggregate	BS 812-2 CI 5.3 1995	Sampling Method for Aggregate Larger Than 10 mm.	QEL Main Laboratory	1- Shovels	1- Mandy Abion Vicente 2- Varun Krishna 3- Sirash Pokrel 4- Bishnu Bahadur
Aggregate	BS 812-2 CI 6.3.4.2 1995	Determination of Bulk Density and Voids of Aggregate	QEL Main Laboratory	1- Cylinder Metal Container 2- Electronic Balance 3- Straight Metal Tamping Rod	1- Mandy Abion Vicente 2- Varun Krishna 3- Sirash Pokrel 4- Bishnu Bahadur
Aggregate	BS 812-2 CI 6.2.4.4 1995	Sampling of Aggregate	QEL Main Laboratory	1- Small Scoop 2- Sample Divider 3- Container	1- Mandy Abion Vicente 2- Varun Krishna 3- Sirash Pokrel 4- Bishnu Bahadur
Aggregate	BS 812-102 1989	Method of Sampling of Aggregate	QEL Main Laboratory	1- Small Scoop 2- Sample Divider 3- Container	1- Mandy Abion Vicente 2- Shirash Pokhrel 3- Bishnu Bahadur
Aggregate	BS 812-110 1990	Method for the Determination of Aggregate Crushing Value	QEL Main Laboratory	1- Steel Cylinder 2- Tamping Rod 3- Electronic Balance 4- Test Sieves 5- Ventilated Oven 6- Compression Machine	1- Mandy Abion Vicente 2- Shirash Pokhrel 3- Bishnu Bahadur
Aggregate	BS 812-111 1990	Method for the Determination of Ten Percentage Fines Value of Aggregate	QEL Main Laboratory	1- Steel Cylinder 2- Tamping Rod 3- Electronic Balance 4- Test Sieves 5- Ventilated Oven 6- Compression Machine	1- Mandy Abion Vicente 2- Shirash Pokhrel 3- Bishnu Bahadur
Aggregate	BS 812-121 1989	Testing Aggregate-Method for Determination of Soundness of Aggregate	QEL Main Laboratory	1- Test Sieves 2- Electronic Balance 3- Stainless Steel Basket (Wire) 4- Ventilated Oven	1- Mandy Abion Vicente 2- Varun Krishna 3- Sirash Pokrel 4- Bishnu Bahadur
Aggregate	BS EN 933-3 2012	Determination of Aggregate Particle Shape-Flakiness Index	QEL Main Laboratory	1- Test Sieves 2- Bar Sieves 3- Electronic Balance 4- Ventilated Oven	1- Mandy Abion Vicente 2- Varun Krishna 3- Sirash Pokrel 4- Bishnu Bahadur

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Aggregate	BS EN 933-7 1998	Determination of Shell Content in Coarse Aggregate	QEL Main Laboratory	1- Test Sieves 2- Electronic Balance 3- Trays 4- Ventilated Oven 5- Brushes	1- Mandy Abion Vicente 2- Varun Krishna 3- Sirash Pokrel 4- Bishnu Bahadur
Aggregate	BS EN 933-8 2012	Assessment of Sand Equivalent Test	QEL Main Laboratory	1- Graduated Cylinder 2- Test Plunger 3- Stop Watch 4- Test Sieves 5- Shaking Machine 6- Thermometer 7- Electronic Balance	1- Mandy Abion Vicente 2- Varun Krishna 3- Sirash Pokrel 4- Bishnu Bahadur
Aggregate	ASTM C 128 2015	Standard Test Method for Density, Relative Density and Absorption of Fine Aggregate	QEL Main Laboratory	1- Electronic Balance 2- Pycnometer 3- Mold & Tamper 4- Oven 5- Dryer	1- Mandy Abion Vicente 2- Varun Krishna 3- Sirash Pokrel 4- Bishnu Bahadur
Aggregate	ASTM C 88 2013	Soundness of Aggregate Using Sodium Sulfate or Magnesium Sulfate	QEL Main Laboratory	1- Test Sieves 2- Container 3- Electronic Balance 4- Ventilated Oven 5- Hydrometer	1- Mandy Abion Vicente 2- Varun Krishna 3- Sirash Pokrel 4- Bishnu Bahadur
Aggregate	ASTM C 117 2013	Standard Test Method for Material Finer Than 75 Micron Sieve in Mineral Aggregate by Washing	QEL Main Laboratory	1- A drying oven 2- Sieves 3- A balance readable to 0.1 g and 1 g	1- Mandy Abion Vicente 2- Varun Krishna 3- Sirash Pokrel 4- Bishnu Bahadur
Aggregate	ASTM C 127 2015	Standard Test Method for Density, Relative Density and Absorption of Coarse Aggregate	QEL Main Laboratory	1- A drying oven 2- Sieves 3- A balance readable to 0.1 g and 1 g 4- Drying Oven	1- Mandy Abion Vicente 2- Varun Krishna 3- Sirash Pokrel 4- Bishnu Bahadur
Aggregate	ASTM C 142 2010	Standard Test Method for Clay Lumps and Friable Particles in Aggregate	QEL Main Laboratory	1- Test Sieves 2- Electronic Balance 3- Containers 4- Ventilated Oven	1- Mandy Abion Vicente 2- Varun Krishna 3- Sirash Pokrel 4- Bishnu Bahadur

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Aggregate	ASTM C 123/C 23M 2014	Standard Test Method for Light Weight Particles in Aggregate	QEL Main Laboratory	1- Electronic Balance 2- Hydrometer 3- Ventilated Oven	1- Mandy Abion Vicente 2- Varun Krishna 3- Sirash Pokrel 4- Bishnu Bahadur
Aggregate	ASTM C 131/C 131 2014	Standard Test Method for Los Angeles Abrasion – Small Size Coarse Aggregate	QEL Main Laboratory	1- Los Angeles Machine 2- Sieves 3- A balance with 0.1% Accuracy	1- Mandy Abion Vicente 2- Varun Krishna 3- Sirash Pokrel 4- Bishnu Bahadur
Asphalt/ Aggregate	ASTM C 136/C 136 M 2014	Standard Test Method for Sieve Analysis	QEL Main Laboratory	1- Balance 2- Sieves 3- Oven (110+5)	1- Mandy Abion Vicente 2- Varun Krishna 3- Sirash Pokrel 4- Bishnu Bahadur
Aggregate	ASTM C 535 2012	Standard Test Method for Los Angeles Abrasion – Large Size Coarse Aggregate	QEL Main Laboratory	1- Los Angeles Machine 2- Sieves 3- A balance with 0.1% Accuracy	1- Mandy Abion Vicente 2- Varun Krishna 3- Sirash Pokrel 4- Bishnu Bahadur
Aggregate	BS 812-103 1985	Method for the Determination of Particle Size Distribution	QEL Main Laboratory	1- Drying Oven 2- Sieves	1- Mandy Abion Vicente 2- Varun Krishna 3- Sirash Pokrel 4- Bishnu Bahadur
Aggregate	BS 812-105.1 1989	Method for the Determination of Particle Shape, Flakiness Index of Coarse Aggregate	QEL Main Laboratory	1- Drying Oven 2- Sieves 3- Riffle Box 4- Metal Gauge	1- Mandy Abion Vicente 2- Shirash Pokhrel 3- Bishnu Bahadur
Aggregate	BS 812-105.2 1989	Method for the Determination of Particle Shape, Elongation Index of Coarse Aggregate	QEL Main Laboratory	1- Drying Oven 2- Sieves 3- Riffle Box 4- Metal Gauge	1- Mandy Abion Vicente 2- Varun Krishna 3- Sirash Pokrel 4- Bishnu Bahadur
Aggregate	BS 812-109 1990	Method for the Determination of Moisture Content	QEL Main Laboratory	1- A Drying Oven 2- Balance 3- Thermometer	1- Mandy Abion Vicente 2- Varun Krishna 3- Sirash Pokrel 4- Bishnu Bahadur
Aggregate	BS 812-112 1990	Method for the Determination of Aggregate Impact Value	QEL Main Laboratory	1- Impact Testing Machine 2- Tamping Rod 3- Electronic Balance 4- Test Sieve	1- Mandy Abion Vicente 2- Varun Krishna 3- Sirash Pokrel 4- Bishnu Bahadur

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Aggregate	BS EN 933-12012	Determination of Particle Size Distribution of Aggregate)	QEL Main Laboratory	1- Drying Oven 2- Sieves 3- Electronic Balance	1- Mandy Abion Vicente 2- Varun Krishna 3- Sirash Pokrel 4- Bishnu Bahadur
Aggregate	ASTM D 4791 2010	Standard Test Method for Flat & Elongated Particles	QEL Main Laboratory	1- Proportional Calliper 2- Electronic Balance 3- Test Sieve	1- Mandy Abion Vicente 2- Shirash Pokhrel 3- Bishnu Bahadur
Aggregate	BS EN 1097-6 2013	Determination of Particle Density and Water Absorption of Aggregate	QEL Main Laboratory	1- A drying oven 2- Electronic Balance 3- Pycnometer 4- Test Sieve	1- Mandy Abion Vicente 2- Varun Krishna 3- Sirash Pokrel 4- Bishnu Bahadur
Cement	BS EN 196-1 2005	Determination of Strength Test for Cement	QEL Main Laboratory	1- Compression Machine 2- Compression Frame 3- Mould 4- Electronic Balance 5- Jolting Table	1- Praseeth Rethnakumar 2- Sreenivasan Kakurayil 3- Aneesh Thampi
Cement	BS EN 196-3 2008	Determination of Soundness and Setting Time.	QEL Main Laboratory	1- Electronic Balance 2- Mortar Mixer 3- Stop Watch 4- Ruler 5- Vicat Apparatus	1- Praseeth Rethnakumar 2- Sreenivasan Kakurayil 3- Aneesh Thampi
Cement	BS EN 196-6 2010	Determination of Fines of Cement	QEL Main Laboratory	1- Blane Apparatus 2- Electronic Balance	1- Praseeth Rethnakumar 2- Sreenivasan Kakurayil 3- Aneesh Thampi
Cement	BS EN 196-7 2007	Method of Taking and Preparing Samples of Cement	QEL Main Laboratory	1- Scoop 2- Container	1- Praseeth Rethnakumar 2- Sreenivasan Kakurayil 3- Aneesh Thampi
Cementitious Materials	ASTM D 5759 2012	Standard Guide for Characterization of Coal and Fly Ash	QEL Main Laboratory	1- Volumetric Flask 2- Burette 3- Electronic Balance	1- Kannan Narayanan 2- Rejeesh Ramachandran 3- Sanila Riju
Cementitious Materials	ASTM C 311/C 311 M 2013	Standard Test Method for Sampling and Testing Fly Ash	QEL Main Laboratory	1- Scoop 2- Container	1- Praseeth Rethnakumar 2- Aneesh Thampi
Cementitious Materials	ASTM C 989/C 989 M 2014	Standard Specification for Slag Cement for Use in Concrete	QEL Main Laboratory	Specification only	

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Cementitious Materials	ASTM C 349 2014	Standard Test Method for Compressive Strength of Hydraulic Cement	QEL Main Laboratory	1- Gang Mould 2- Digital Calliper 3- Compression Testing Machine 4- Electronic Balance	1- Praseeth Rethnakumar 2- Aneesh Thampi
Cementitious Materials	ASTM C 1240 2014	Standard Test Method for Silica Fumes Used In Cementitious Mixture	QEL Main Laboratory	1- Volumetric Flask 2- Burette	1-Kannan Narayanan 2- Rejeesh Ramachandran 3- Sanila Riju
Cementitious Materials	ASTM C 1872011e1	Standard Test Method for the Amount of Water Required for the Standard Consistency of Hydraulic Cement Paste.	QEL Main Laboratory	1- Balance 2- Vicat Apparatus 3- Measuring Device	1- Praseeth Rethnakumar 2- Aneesh Thampi
Masonry	ASTM C 183 2002	Standard Practice for Sampling & Amount of Testing for Hydraulic Cement	QEL Main Laboratory	1- Shovels or Scoops 2- Container	1- Praseeth Rethnakumar 2- Aneesh Thampi
Masonry	ASTM C 191 2013	Standard Test Method for Setting Time of Cement by Vicat Needle.	QEL Main Laboratory	1- Balance 2- Vicat Apparatus 3- Measuring Device	1- Praseeth Rethnakumar 2- Aneesh Thampi
Masonry	ASTM C 140/C 140 M CI 8 2014b	Standard Test Method for Sampling and Testing Concrete Masonry Units & Related Units	QEL Main Laboratory	1- Electronic Balance 2- Digital Calliper 3- Compression Testing Machine 4- Ventilated Oven	1- Prateek Velandi 2- Anurag Reghu 3- Santosh Eenthulla Parambath 4- Haytham Osman 5- Sajith Prasanna Thisera
Masonry	BS EN 771-3 2011	Specification for Masonry Units	QEL Main Laboratory	Specification only	
Masonry	BS EN 772-1 2011	Determination of Compressive Strength of Masonry Units	QEL Main Laboratory	1- Electronic Balance 2- Compression Machine	1- Prateek Velandi 2- Anurag Reghu 3- Santosh Eenthulla Parambath 4- Haytham Osman

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Masonry	BS EN 772-11 2011	Determination of Water Absorption of Aggregate Concrete Autoclaved Aerated Concrete, Manufactured Stone & Natural Stone Masonry Units Due to Capillary Action and the Internal Rate of Water Absorption of Clay Masonry Units.	QEL Main Laboratory	1- Stop Watch 2- Ventilated Oven 3- Electronic Balance	1- Prateek Velandi 2- Anurag Reghu 3- Santosh Eenthulla Parambath
Masonry	BS EN 1338 Annex E & F 2003	Requirements and Test Method for Concrete Paving Blocks	QEL Main Laboratory	1- Testing Machine 2- Drying Oven 3- Electronic Balance	1- Prateek Velandi 2- Anurag Reghu 3- Santosh Eenthulla Parambath
Masonry	BS EN 1339 Annex E & F 2003	Concrete Paving Flags and Test Methods	QEL Main Laboratory	1- Testing Machine 2- Drying Oven 3- Electronic Balance	1- Prateek Velandi 2- Anurag Reghu 3- Santosh Eenthulla Parambath
Masonry	BS EN 1339 Annex F 2013	Bending Load & Bending Strength of Paving Flags	QEL Main Laboratory	1- Tensile Testing Machine with accuracy of $\pm 3\%$ 2- Digital Calliper 3- Electronic Balance	1- Prateek Velandi 2- Anurag Reghu 3- Santosh Eenthulla Parambath 4- Haytham Osman 5- Sajith Prasanna Thisera
Masonry	BS 6073-1 1981	Specification for Precast Concrete Masonry Units	QEL Main Laboratory	1- Compression Machine 2- Digital Calliper 3- Electronic Balance 4- Ventilated Oven	1- Prateek Velandi 2- Anurag Reghu 3- Santosh Eenthulla Parambath 4- Haytham Osman 5- Sajith Prasanna Thisera
Masonry	BS 6073-2 2008	Specification for Precast Concrete Masonry Units	QEL Main Laboratory	1- Compression Machine 2- Digital Calliper 3- Electronic Balance 4- Ventilated Oven	1- Prateek Velandi 2- Anurag Reghu 3- Santosh Eenthulla Parambath 4- Haytham Osman 5- Sajith Prasanna Thisera

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Masonry	BS 6717 2001	Specification for Precast Concrete Masonry Units	QEL Main Laboratory	1- Compression Machine 2- Digital Calliper 3- Electronic Balance 4- Ventilated Oven	1- Prateek Velandi 2- Anurag Reghu 3- Santosh Eenthulla Parambath 4- Haytham Osman 5- Sajith Prasanna Thisera
Asphalt	BS EN 1340 Annex C, E & F 2003	Determination of Water Absorption of Paving Flags.	QEL Main Laboratory	1- Balance 2- Oven	1- Prateek Velandi 2- Anurag Reghu 3- Santosh Eenthulla Parambath
Asphalt	ASTM D 702009e1	Standard Test Method for Density of Semi Solid Bituminous Mixtures	QEL Main Laboratory	1- Pycnometer 2- Water Bath 3- Thermometer 4- Electronic Balance 5- Beaker 600mL	1- Dennis Babiera Roaas 2- Deepak Lakshmanan Achary 3- Surya Kumar Shrestha
Asphalt	ASTM D 2171/ D 2172M 2010	Standard Test Method for Viscosity of Asphalt by Vacuum Capillary Viscometer.	QEL Main Laboratory	1- Viscometer 2- Thermometers 3- Vacuum System 4- Timer	1- Dennis Babiera Roaas 2- Deepak Lakshmanan Achary 3- Surya Kumar Shrestha
Asphalt	ASTM D 2172/ D 2172M 2011	Standard Test Method for the Quantitative Extraction of Bitumen From Bituminous Paving Mixtures	QEL Main Laboratory	1- Oven 2- Electronic Balance 3- Hot Plate	1- Dennis Babiera Roaas 2- Deepak Lakshmanan Achary 3- Surya Kumar Shrestha
Bitumen	ASTM D 7113/D 7113 2010	Standard Test Method for Density of Bituminous Mixtures in Place by Electromagnetic Surface Contact Method	QEL Main Laboratory	1- Electronic Sensing Device	1- Dennis Babiera Roaas 2- Deepak Lakshmanan Achary 3- Surya Kumar Shrestha
Asphalt	BS EN 1426 2007	Determination of Needle Penetration of Bituminous Binders	QEL Main Laboratory	1- Penetrometer & Needle 2- Water Bath 3- Thermometer 4- Electronic Balance	1- Dennis Babiera Roaas 2- Deepak Lakshmanan Achary 3- Surya Kumar Shrestha
Asphalt	BS EN 12697-1 2012	Test Method for Hot Mix Asphalt- Soluble Binder Content.	QEL Main Laboratory	1- Electronic Balance 2- Binder Extraction Apparatus	1- Dennis Babiera Roaas 2- Deepak Lakshmanan Achary 3- Surya Kumar Shrestha

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Asphalt	BS EN 12697-3 2013	Test Method for Hot Mix Asphalt- Bitumen Recovery- Rotary Evaporator	QEL Main Laboratory	1- Electronic Balance (Rotary) 2- Extraction Apparatus	1- Dennis Babiera Roaas 2- Deepak Lakshmanan Achary 3- Surya Kumar Shrestha
Asphalt	BS EN 12697-82003	Test Method for Hot Mix Asphalt- Determination of Void Characteristics of Bituminous Specimens	QEL Main Laboratory	1- Electronic Balance 2- Digital Calliper 3- Thermometer	1- Dennis Babiera Roaas 2- Deepak Lakshmanan Achary 3- Surya Kumar Shrestha
Asphalt	BS EN 12697-9 2002	Test Method for Hot Mix Asphalt - Test Method for Reference Density	QEL Main Laboratory	1- Impact Compactor 2- Digital Calliper 3- Thermometer 4- Electronic Balance	1- Dennis Babiera Roaas 2- Deepak Lakshmanan Achary 3- Surya Kumar Shrestha
Asphalt	BS EN 12697-13 2000	Test Method for Hot Mix Asphalt - Temperature Measurement	QEL Main Laboratory	1- Thermometer 2- Electronic Balance	1- Dennis Babiera Roaas 2- Deepak Lakshmanan Achary 3- Surya Kumar Shrestha
Asphalt	BS EN 12697-27 2001	Test Method for Hot Mix Asphalt - Sampling	QEL Main Laboratory	1- Shovel 2- Bucket	1- Dennis Babiera Roaas 2- Deepak Lakshmanan Achary 3- Surya Kumar Shrestha
Asphalt	BS EN 12697-29 2002	Test Method for Hot Mix Asphalt - Determination of Dimensions of Bituminous Specimen	QEL Main Laboratory	1- Digital Calliper 2- Steel Rule 3- Straight Edge 4- Electronic Balance	1- Dennis Babiera Roaas 2- Deepak Lakshmanan Achary 3- Surya Kumar Shrestha
Asphalt	BS EN 12697-36 2003	Test Method for Hot Mix Asphalt - Determination of Thickness of Bituminous Pavement	QEL Main Laboratory	1- Digital Calliper 2- Steel Rule 3- Straight Edge 4- Electronic Balance	1- Dennis Babiera Roaas 2- Deepak Lakshmanan Achary 3- Surya Kumar Shrestha
Asphalt	BS EN 12697-39 2012	Test Method for Hot Mix Asphalt - Binder Content by Ignition	QEL Main Laboratory	1- Furnace 2- Oven 3- Spatulas 4- Bowls	1- Dennis Babiera Roaas 2- Deepak Lakshmanan Achary 3- Surya Kumar Shrestha
Asphalt	BS EN 12697-14 2000	Test Method for Hot Mix Asphalt - Water Content	QEL Main Laboratory	1- Cylindrical Container 2- Electronic Balance 3- Heater 4- Ventilated Ovens	1- Dennis Babiera Roaas 2- Deepak Lakshmanan Achary 3- Surya Kumar Shrestha

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Asphalt	BS EN 12697-28 2001	Test Method for Hot Mix Asphalt - Preparation of Samples for Determining Binder Content, Water Content & Grading	QEL Main Laboratory	1- Electronic Balance 2- Steel Ruler 3- Oven 4- Stop Watch	1- Dennis Babiera Roaas 2- Deepak Lakshmanan Achary 3- Surya Kumar Shrestha
Asphalt	BS EN 12697-30 2012	Test Method for Hot Mix Asphalt - Specimen by Impact Compactor	QEL Main Laboratory	1- Impact Compactor 2- Compaction Pedestal 3- Compaction Hammer 4- Oven 5- Heating Mandle	1- Dennis Babiera Roaas 2- Deepak Lakshmanan Achary 3- Surya Kumar Shrestha
Asphalt	BS EN 12697-34 2012	Test Method for Hot Mix Asphalt- Marshall Test	QEL Main Laboratory	1- Compaction Testing Machine 2- Flow Meter 3- Testing Head 4- Water Bath 5- Thermometer	1- Dennis Babiera Roaas 2- Deepak Lakshmanan Achary 3- Surya Kumar Shrestha
Asphalt	BS EN 13036-6 2008	Test Method- Measurement of Transverse and Longitudinal Profiles in the Evenness and Mega structure Wavelength Ranges	QEL Main Laboratory	1- Rolling Straight Edge	1- Varun Krishna 2- Aneesh Thampi
Asphalt	BS 598-102 Annex E & F 2003	Determination of Binder Content by Centrifugal Extraction Method	QEL Main Laboratory	1- Extraction Machine 2- Electronic Balance 3- Filter Paper	1- Dennis Babiera Roaas 2- Deepak Lakshmanan Achary 3- Surya Kumar Shrestha
Asphalt	BS 598-107 2004	Method of Test for the Determination of Composition of Design Wearing Course rolled Asphalt	QEL Main Laboratory	1- Compaction Testing Machine 2- Electronic Balance 3- Ventilated Oven 4- Steel Compaction Hammer 5- Thermometer 6- Riffle Box 7- Compaction Pedestral 8- Steel Mould Cylinders	1- Dennis Babiera Roaas 2- Deepak Lakshmanan Achary 3- Surya Kumar Shrestha

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Bitumen	BS 812-103 1985	Method for the Determination of Particle Size Distribution of Aggregate	QEL Main Laboratory	1- Test Sieves 2- Electronic Balance 3- Ventilated Oven	1- Dennis Babiera Roaas 2- Deepak Lakshmanan Achary 3- Surya Kumar Shrestha
Bitumen	ASTM D 5/D 5 M 2013	Standard Test Method for Penetration of Bituminous Mixtures	QEL Main Laboratory	1- Penetration Apparatus 2- Penetration Needle 3- Sample Container 4- Water Bath 5- Timer Device 6- Thermometers	1- Dennis Babiera Roaas 2- Deepak Lakshmanan Achary 3- Surya Kumar Shrestha
Asphalt	ASTM D 36/D 36 M 2014e1	Standard Test Method for Softening Point of Bitumen (Ring & Ball Apparatus)	QEL Main Laboratory	1- Rings 2- Pouring Plate 3- Ring Holder & Assembly	1- Dennis Babiera Roaas 2- Deepak Lakshmanan Achary 3- Surya Kumar Shrestha
Asphalt	ASTM D 2041/D 2041 2011	Standard Test Method for Theoretical Specific Gravity & Density of Bituminous Mixtures	QEL Main Laboratory	1- Balance 2- Vacuum Gauge 3- Thermometer 4- Water Bath 5- Oven 6- Vacuum Flask	1- Dennis Babiera Roaas 2- Deepak Lakshmanan Achary 3- Surya Kumar Shrestha
Asphalt	ASTM D 2726/D 2726 2014	Standard Test Method for Bulk Specific Gravity and Density of Non Absorptive Compacted Bituminous Mixtures	QEL Main Laboratory	1- Digital Caliper 2- Steel Rule	1- Dennis Babiera Roaas 2- Deepak Lakshmanan Achary 3- Surya Kumar Shrestha
Bitumen	ASTM D 3549/D 3549 2011	Standard Test Method for Thickness or Height of Compacted Bituminous Specimens	QEL Main Laboratory	1- Digital Caliper 2- Steel Rule	1- Dennis Babiera Roaas 2- Deepak Lakshmanan Achary 3- Surya Kumar Shrestha
Asphalt	BS EN 1427 2007	Determination of Softening Point- Ring & Ball Method.	QEL Main Laboratory	1- Ring & Ball Apparatus 2- Water Bath 3- Thermometer	1- Dennis Babiera Roaas 2- Deepak Lakshmanan Achary 3- Surya Kumar Shrestha

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Asphalt	BS EN 12697-2 2002	Determination of Hot Mix Asphalt– Determination of Particle Size Distribution.	QEL Main Laboratory	1- Sieves 2- Oven	1- Dennis Babiera Roaas 2- Deepak Lakshmanan Achary 3- Surya Kumar Shrestha
Asphalt	BS EN 12697-5 2009	Test Method for Hot Mix Asphalt- Determination of Maximum Density	QEL Main Laboratory	1- Drying Oven 2- Balance 3- Thermometer 4- Water Bath 5- Pycnometer .	1- Dennis Babiera Roaas 2- Deepak Lakshmanan Achary 3- Surya Kumar Shrestha
Soil	BS EN 12697-6 2012	Test Method for Hot Mix Asphalt- Determination of Bulk Density of Bituminous Specimens	QEL Main Laboratory	1- Water Bath 2- Thermometer 3- Balance	1- Dennis Babiera Roaas 2- Deepak Lakshmanan Achary 3- Surya Kumar Shrestha
Soil	ASTM D 1196/D 1196 M 2012	Standard Test Method for Non Repetitive Static Plate Load Tests of Soil & Flexible Pavement Components	QEL Main Laboratory	1- Loading Device (Hydraulic Jack) 2- Dial Gauges 3- Datum Bar 4- Straight Edge 5- Stop Watch	1-Sreenivasan Kakurayil 2- Mandy Vicente
Soil	ASTM D 1557 2012	Standard Test Method for Laboratory Compaction Characteristics of Soil	QEL Main Laboratory	1- Mould Assembly 2- Balance 3- Drying Oven 4- Straight Edge 5- Rammer	1- Erapparayil Varghese Sajimon 2- Dhan Bahadur 3- Anish Shrestha 4- Dinesh Shrestha
Soil	ASTM D 2922 2005	Standard Test Method for Density of Soil-Aggregate in Place by Nuclear Methods	QEL Main Laboratory	1- Nuclear Density Gauge	1- Rajesh Shrestha 2- Hari Narayanan 3- Bikal Gurung
Soil	ASTM D 2419 2014	Standard Test Method for Sand Equivalent Value of Soil & Fine Aggregate	QEL Main Laboratory	1- Test Sieves 2- Sand Equivalent Apparatus 3- Oven 4- Electronic Balance	1- Sreenivasan Kakurayil 2- Mandy Vicente 3- Sirash Pokrel 4- Dinesh Shrestha

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Soil	BS 1377-2 CI 8 1990	Determination of Particle Density	QEL Main Laboratory	1- Glass Jar 2- Thermometer 3- Oven 4- Electronic Balance	1- Erapparayil Varghese Sajimon 2- Dhan Bahadur 3- Anish Shrestha 4- Dinesh Shrestha
Soil	BS 1924-2 1990	Method of Testing for Cement Stabilized & Lime Stabilized Material	QEL Main Laboratory	1-Test Sieves 2- Thermometer 3- Oven 4- Electronic Balance	1- Erapparayil Varghese Sajimon 2- Dhan Bahadur 3- Anish Shrestha 4- Dinesh Shrestha
Soil	BS 1377-2 CI 4 1990	Determination of Liquid Limit of Soil	QEL Main Laboratory	1- Test Sieve 2- Flat Glass Plate 3- Corrosion Resistant Container 4- Glass Stirring Rod	1- Erapparayil Varghese Sajimon 2- Dhan Bahadur 3- Anish Shrestha 4- Dinesh Shrestha
Soil	BS 1377-2 CI 5 1990	Determination of Plastic Limit & Plasticity Index of Soil	QEL Main Laboratory	1- Flat Glass Plate 2- Apparatus for Moisture Content Determination 3- Length Rod 4- Grooving Tools etc.	1- Erapparayil Varghese Sajimon 2- Dhan Bahadur 3- Anish Shrestha 4- Dinesh Shrestha
Soil	BS 1377-2 CI 9 1990	Determination of Particle Size Distribution	QEL Main Laboratory	1- Drying Oven 2- Working Sieves	1- Erapparayil Varghese Sajimon 2- Dhan Bahadur 3- Anish Shrestha 4- Dinesh Shrestha
Soil	BS 1377-4 CI 3 1990	Determination of Dry Density- Moisture Content Relationship of Soil	QEL Main Laboratory	1- Drying Oven 2- Electronic Balance (Readable to 0.1g)	1- Erapparayil Varghese Sajimon 2- Dhan Bahadur 3- Anish Shrestha 4- Dinesh Shrestha
Soil	BS 1377-4 CI 7 1990	Determination of CBR	QEL Main Laboratory	1- Test Sieves 2- CBR Mould 3- Metal Rammer 4- Metal Plungs 5- Steel Straight Edge 6- Balance 7- CBR Apparatus	1- Erapparayil Varghese Sajimon 2- Dhan Bahadur 3- Anish Shrestha 4- Dinesh Shrestha

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Soil	BS 1377-9 Cl 4.3 1990	Determination of In Situ California Bearing Ratio	QEL Main Laboratory	1- Metal Plunger 2- Jack(45kN) 3- Metal Extension Rods 4- Adjustable Metal Extension Rods 5- Reaction Load 6- Load Ring	1- Erapparayil Varghese Sajimon 2- Dhan Bahadur 3- Anish Shrestha 4- Dinesh Shrestha
Geotechnical	ASTM D 2435/D 2435 M 2011	Standard Test Method for One Dimensional Consolidation Properties of Soil Using Incremental Loading.	QEL Main Laboratory	1- Load Device 2- Consolidometer 3- Electronic Balance 4- Ventilated Oven	1- Erapparayil Varghese Sajimon 2- Sreenivasan 3- Ganesh Krishnan 4- Dinesh Shrestha
Geotechnical	ASTM D 4543 2008	Standard Practice for Preparing Rock Core as Cylindrical Specimens& Verifying conformance to Dimensional and Shape Tolerance.	QEL Main Laboratory	1- Support Device 2- V-Blocks 3- Dial Gauges 4- Feeler Gauge	1- Erapparayil Varghese Sajimon 2- Sreenivasan 3- Ganesh Krishnan 4- Dinesh Shrestha
Geotechnical	ASTM D 4546 2014	Standard Test Method for One Dimensional Swell or Collapse of Soil.	QEL Main Laboratory	1-Consolidometer	1- Erapparayil Varghese Sajimon 2- Sreenivasan 3- Ganesh Krishnan 4- Dinesh Shrestha
Geotechnical	BS 1377-5 1990	Compressibility, Permeability & Durability Test of Soil	QEL Main Laboratory	1- Load Device 2- Consolidometer 3- Electronic Balance 4- Ventilated Oven	1- Erapparayil Varghese Sajimon 2- Sreenivasan 3- Ganesh Krishnan 4- Dinesh Shrestha
Geotechnical	BS 5930 2010	Code of Practice for Site Investigation	QEL Main Laboratory	<b>Code of Practice &amp; Site Testing</b> 1- Pizeometer Test 2- Packer Test	1- Sreenivasan Kakurayil 2- Mandy Vicente

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Geotechnical	ASTM D 5607 2008	Standard Test Method of Performing Laboratory Direct Shear Strength Test of Rock Specimen Under Constant Normal Force	QEL Main Laboratory	1- Direct Shear Apparatus 2- Digital Calliper 3- Balance	1- Sreenivasan Kakurayil 2- Mandy Vicente
Geotechnical	ASTM D 5731 2008	Standard Test Method for the Determination of Point Load Index of Rock	QEL Main Laboratory	1- Point Load Apparatus 2- Digital Calliper	1- Sreenivasan Kakurayil 2- Naindra Bahadur Shrestha 3- Ganesh Krishnan
Steel	ASTM D 7012 2014	Standard Test Method for the Determination of Compressive Strength and Elastic Moduli of Intact Rock Core Specimen Under Varying Stress and Temperature	QEL Main Laboratory	1- Compression Machine 2- Digital Calliper 3- Balance 4- Dial Gauges	1- Sreenivasan Kakurayil 2- Naindra Bahadur Shrestha 3- Ganesh Krishnan
Steel	ASTM E 23 2012c	Standard Test Method for Notched Bar Impact Testing of Metallic Materials.	QEL Main Laboratory	1- Charpy Impact Tester 2- Digital Calliper	1- Sreenivasan Kakurayil
Steel	ASME Section 9 2013	Welding & Brazing Qualifications	QEL Main Laboratory	1- Macro Analysis Test Kit	1- Sreenivasan Kakurayil
Steel	BS EN 10045-1 1990	Charpy Impact Test on Metallic Materials	QEL Main Laboratory	1- Charpy Impact Tester 2- Digital Calliper	1- Sreenivasan Kakurayil
Steel	BS 4449 2009	Steel for Reinforcement of Concrete. Weldable Reinforcing Steel, Bar Coil & Decoil Product Specification	QEL Main Laboratory	1- Tensile Testing Machine 2- Digital Calliper 3- Electronic Balance	1- Sreenivasan Kakurayil
Steel	BS 131-11961	Notched Bar Test. Izod Impact Test of Materials	QEL Main Laboratory	1- Charpy Impact Tester 2- Digital Calliper	1- Sreenivasan Kakurayil

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Steel	ASTM A 370/2014	Standard Test Method & Definition of Mechanical Testing of Steel Products	QEL Main Laboratory	1- Tensile Testing Machine 2- Steel Rule 3- Balance	1- Sreenivasan Kakurayil 2- Aneesh Thampi
NDT	ASTM A 615/615 M2014	Standard Test Method for Deformed and Plain Carbon Steel Bars for Concrete Reinforcement	QEL Main Laboratory	1- Tensile Testing Machine 2- Steel Rule 3- Balance	1- Sreenivasan Kakurayil 2- Aneesh Thampi
NDT	BS EN 10002/2001	Tensile Testing of Metallic Materials	QEL Main Laboratory	1- Tensile Testing Machine 2- Steel Rule 3- Balance	1- Sreenivasan Kakurayil 2- Aneesh Thampi
NDT	ASTM C 805 /C 805 2013a	Standard Test Method for Rebound Number of Hardened Concrete	QEL Main Laboratory	1- Rebound Hammer	1- Sreenivasan Kakurayil 2- Mandy Vicente
NDT	ASTM D 4945 2012	Standard Test Method for High Strain Dynamic Testing of Deep Foundations	QEL Main Laboratory	1- Pile Integrity Tester	1- Sreenivasan Kakurayil 2- Mandy Vicente
NDT	ASTM D 5162 2008	Standard Practice for Discontinuity Testing of Nonconductive Protective Coating on Metallic Substance	QEL Main Laboratory	1- Low Voltage Holiday Detector	1- Sreenivasan Kakurayil 2- Mandy Vicente
NDT	ASTM D 5882 2007(2013)	Standard Test Method for Low Strain Impact Integrity Testing of Deep Foundations	QEL Main Laboratory	1- Pile Integrity Tester	1- Sreenivasan Kakurayil 2- Mandy Vicente
NDT	ASTM D 6760 2014	Standard Test Method for Integrity Testing of Concrete Deep Foundations by Ultrasonic Cross hole Testing	QEL Main Laboratory	1- Apparatus for Internal Inspection 2- Apparatus for Determining Physical Test Parameter 3- Apparatus for Obtaining Measurement	1- Sreenivasan Kakurayil 2- Mandy Vicente

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NDT	ASTM D 4541 2009e1	Standard Test Method for Pull off Strength of Coatings Using Portable Adhesion Tester	QEL Main Laboratory	1- Adhesion Tester 2- Solvent 3- Adhesive	1- Sreenivasan Kakurayil 2- Mandy Vicente
NDT	ASTM D 4694 2009	Standards Test Methods for Deflections with a Falling Weight Type Impulse Load Device	QEL Main Laboratory	1- Force Generating Device 2- Guide System 3- Loading Plate 4- Deflection Sensor 5- Data Processing & Storage System 6- Load Cell	1- Sreenivasan Kakurayil 2- Mandy Vicente
NDT	ASTM D 4787 2013	Standard Practice for Continuity Verification of Liquid or Sheet Linings Applied to Concrete	QEL Main Laboratory	1- High Voltage Spark Tester	1- Sreenivasan Kakurayil 2- Mandy Vicente
NDT	ASTM D 4541	Standard Test Method of Pull Out Strength of Coatings Using Portable Adhesive Testers	QEL Main Laboratory	1- Adhesion Tester	1- Sreenivasan Kakurayil 2- Aneesh Thampi
NDT	BS EN 12504-4 2004	Testing Concrete – Determination of Ultrasonic Pulse Velocity	QEL Main Laboratory	1- UPV Equipment	1- Sreenivasan Kakurayil 2- Aneesh Thampi
NDT	ASTM C 805	Standard Test Method for Rebound Number of Hardened Concrete	QEL Main Laboratory	1- Rebound Hammer	1- Mandy Abion Vicente 2- Sreenivasan Kakurayil
Aggregate Chemical	ASTM C 40/C 40 M 2011	Standard Test Method for Organic Impurities in Fine Aggregate for Concrete	QEL Main Laboratory	1- Glasswares 2- No 815 Color Comparison Tester 3- Electronic Balance	1- Kannan Narayanan 2- Rejeesh Ramachandran 3- Sanila Riju
Aggregate Chemical	BS EN 1744-12009+A1: 2012	Test for Chemical Properties of Aggregate-Chemical Analysis	QEL Main Laboratory	1- Titration Apparatus 2- Glasswares 3- Ventilated Ovens 4- Furnace 5- Filtration Assembly 6- Electronic Balance 7- Hot Plate	1- Kannan Narayanan 2- Rejeesh Ramachandran 3- Sanila Riju

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Aggregate Chemical	BS EN 1744-5 2006	Test for Chemical Properties of Aggregate- Determination of acid Soluble Chloride Salts	QEL Main Laboratory	1- Titration Apparatus 2- Glasswares 3- Ventilated Ovens 4- Hot Plate 5- Electronic Balance	1- Kannan Narayanan 2- Rejeesh Ramachandran 3- Sanila Riju
Aggregate Chemical	BS 812-118 –Cl 6 1988	Determination of Total Sulphate Content by Acid Extraction	QEL Main Laboratory	1- Oven 2- Glasswares 3- Furnace 4- Hot Plate 5- Filtration Assembly 6- Electronic Balance	1- Kannan Narayanan 2- Rejeesh Ramachandran 3- Sanila Riju
Concrete Chemical	BS 812-117Appendix C 1988	Method for the Determination for Water Soluble Chloride Content in Aggregate.	QEL Main Laboratory	1- Oven 2- Glasswares 3- Filtration Assembly 4- Titration Apparatus 5- Electronic Balance	1- Kannan Narayanan 2- Rejeesh Ramachandran 3- Sanila Riju
Concrete Chemical	ASTM C 1152/C 1152 M 2004 (2012)e1	Standard Test Method for Acid Soluble Chloride in Mortar & Concrete	QEL Main Laboratory	1- Oven 2- Glasswares 3- Filtration Assembly 4- Titration Apparatus 5- Electronic Balance	1- Kannan Narayanan 2- Rejeesh Ramachandran 3- Sanila Riju
Cement Chemical	ASTM C 1218/C 1218 M 1999 (2008)	Standard Test Method of Water Soluble Chloride in Mortar Concrete	QEL Main Laboratory	1- Oven 2- Glasswares 3- Filtration Assembly 4- Titration Apparatus 5- Hot Plate 6- Electronic Balance	1-Kannan Narayanan 2- Rejeesh Ramachandran 3- Sanila Riju
Cement Chemical	BS 1881 Part 124 Cl10.2 & 10.3 1988	Determination of Chloride & Sulphate Content of Concrete	QEL Main Laboratory	1- Oven 2- Glasswares 3- Furnace 4- Hot Plate 5- Filtration Assembly 6- Titration Apparatus 7- Electronic Balance	1- Kannan Narayanan 2- Rejeesh Ramachandran 3- Sanila Riju
Cement Chemical	ASTM C 114 2013	Standard Test Method for Chemical Analysis of Hydraulic Cement	QEL Main Laboratory	1- Oven 2- Glasswares 3- Furnace 4- Hot Plate 5- Electronic Balance	1- Kannan Narayanan 2- Rejeesh Ramachandran 3- Sanila Riju

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Cement Chemical	BS EN 196-22013	Chemical Analysis of Cement	QEL Main Laboratory	1- Oven 2- Glasswares 3- Furnace 4- Hot Plate 5- Electronic Balance	1- Kannan Narayanan 2- Rejeesh Ramachandran 3- Sanila Riju
Cement Chemical	BS EN 196-4 2007	Quantitative Determination of Constituents of Cement	QEL Main Laboratory	1- Oven 2- Glasswares 3- Furnace 4- Hot Plate 5- Electronic Balance	1- Kannan Narayanan 2- Rejeesh Ramachandran 3- Sanila Riju
Cement Chemical	BS EN 196-5 2011	Pozzolancy Test of Pozzolanic Cement	QEL Main Laboratory	1- Oven 2- Glasswares 3- Furnace 4- Hot Plate 5- Hot Plate 6- Titration Apparatus	1- Kannan Narayanan 2- Rejeesh Ramachandran 3- Sanila Riju
Environmental Testing	BS EN 196-21 1992	Determination of Chloride, Carbon Dioxide & Alkali Content of Cement	QEL Main Laboratory	1- Oven 2- Glasswares 3- Flame Photometer 4- Filtration Assembly	1- Kannan Narayanan 2- Rejeesh Ramachandran 3- Sanila Riju
Environmental Testing	BS 1377-3 1990	Chemical & Electrochemical Test of Soil	QEL Main Laboratory	1- Oven 2- Glasswares 3- Furnace 4- Filtration Assembly 5- Hot Plate 6- Titration Apparatus	1- Kannan Narayanan 2- Rejeesh Ramachandran 3- Sanila Riju
Environmental Testing	APHA /AWWA 2540 B	Total Solids	QEL Main Laboratory	1- Electronic Balance 2- Oven	1- Kannan Narayanan 2- Rejeesh Ramachandran 3- Sanila Riju
Environmental Testing	APHA /AWWA 2540 D	Total Suspended Solids	QEL Main Laboratory	1- Electronic Balance 2- Filtration Assembly 3- Oven	1- Kannan Narayanan 2- Rejeesh Ramachandran 3- Sanila Riju
Environmental Testing	APHA/AWWA 4500-CIG	Total Chlorine	QEL Main Laboratory	1- Hach Pocket Colorimeter	1- Kannan Narayanan 2- Rejeesh Ramachandran 3- Sanila Riju
Environmental Testing	APHA/AWWA 4500-CII	Residual Chlorine	QEL Main Laboratory	1- Hach Pocket Colorimeter	1- Kannan Narayanan 2- Rejeesh Ramachandran 3- Sanila Riju
Environmental Testing	APHA/AWWA 4500- SO4	Sulphate	QEL Main Laboratory	1- Furnace 2- Hot Plate 3- Electronic Balance	1- Kannan Narayanan 2- Rejeesh Ramachandran 3- Sanila Riju

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Environmental Testing	APHA/AWWA 2320-B	Total Alkalinity	QEL Main Laboratory	1- Burette 2- Measuring Cylinder 3- Conical Flask 4- pH Meter	1- Kannan Narayanan 2- Rejeesh Ramachandran 3- Sanila Riju
Environmental Testing	APHA/AWWA 2320-B	Phenolphthalein Alkalinity	QEL Main Laboratory	1- Burette 2- Measuring Cylinder 3- Conical Flask 4- pH Meter	1- Kannan Narayanan 2- Rejeesh Ramachandran 3- Sanila Riju
Environmental Testing	APHA/AWWA 9222 B & 9222 D	Total Coliforms	QEL Main Laboratory	1- Filtration Apparatus 2- Incubators 3- Filters 4- Nutrient Pads	1- Kannan Narayanan 2- Rejeesh Ramachandran 3- Sanila Riju
Environmental Testing	APHA/AWWA 9223 B & G	E- Coli	QEL Main Laboratory	1- Filtration Apparatus 2- Incubators 3- Filters 4- Nutrient Pads	1- Kannan Narayanan 2- Rejeesh Ramachandran 3- Sanila Riju
Environmental Testing	APHA 5210-B	Biochemical Oxygen Demand	QEL Main Laboratory	1- BOD Incubators 2- BOD Bottles 3- Filtration Apparatus 4- Glasswares	1- Kannan Narayanan 2- Rejeesh Ramachandran 3- Sanila Riju
Environmental Testing	APHA 5220-D	Chemical Oxygen Demand	QEL Main Laboratory	HACH	1- Kannan Narayanan 2- Rejeesh Ramachandran 3- Sanila Riju
Environmental Testing	APHA 4500-H+-B	pH Value- Electrometric Method	QEL Main Laboratory	pH Meter	1- Kannan Narayanan 2- Rejeesh Ramachandran 3- Sanila Riju
Environmental Testing	APHA 2510-B	Electrical Conductivity	QEL Main Laboratory	Conductivity Meter	1- Kannan Narayanan 2- Rejeesh Ramachandran 3- Sanila Riju
Environmental Testing	APHA 4500-SO <sub>4</sub> -E	Sulphate-Turbidity Method	QEL Main Laboratory	HACH	1- Kannan Narayanan 2- Rejeesh Ramachandran 3- Sanila Riju
Environmental Testing	APHA 4500 Cl-B	Chloride- Argentometric Method	QEL Main Laboratory	1- Burette 2- Measuring Cylinder 3- Conical Flask	1- Kannan Narayanan 2- Rejeesh Ramachandran 3- Sanila Riju
Environmental Testing	APHA 2540-C	Total Dissolved Solids	QEL Main Laboratory	1- Oven 2- Filtration Apparatus 3- Electronic Balance	1- Kannan Narayanan 2- Rejeesh Ramachandran 3- Sanila Riju
Environmental Testing	APHA 2540-D	Total Suspended Solids	QEL Main Laboratory	1- Oven 2- Filtration Apparatus 3- Electronic Balance	1- Kannan Narayanan 2- Rejeesh Ramachandran 3- Sanila Riju

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Environmental Testing	APHA 3500 Ca-B	Calcium-EDTA Titration Method	QEL Main Laboratory	1- Burette 2- Measuring Cylinder 3- Conical Flask 4- pH Meter	1- Kannan Narayanan 2- Rejeesh Ramachandran 3- Sanila Riju
Environmental Testing	APHA 3500 Mg-B	Magnesium-Calculation Method	QEL Main Laboratory	1- Burette 2- Measuring Cylinder 3- Conical Flask 4- pH Meter	1-Kannan Narayanan 2- Rejeesh Ramachandran 3- Sanila Riju
Environmental Testing	APHA 2340-C	Total Hardness-EDTA Method	QEL Main Laboratory	1- Burette 2- Measuring Cylinder 3- Conical Flask 4- pH Meter	1- Kannan Narayanan 2- Rejeesh Ramachandran 3- Sanila Riju
Environmental Testing	HACH Method	Iron	QEL Main Laboratory	HACH	1- Kannan Narayanan 2- Rejeesh Ramachandran 3- Sanila Riju
Environmental Testing	HACH Method	Cadmium	QEL Main Laboratory	HACH	1- Kannan Narayanan 2- Rejeesh Ramachandran 3- Sanila Riju
Environmental Testing	APHA /AWWA 2130 B	Turbidity	QEL Main Laboratory	1- Turbidity Meter	1- Kannan Narayanan 2- Rejeesh Ramachandran 3- Sanila Riju
Environmental Testing	APHA /AWWA 2540 B	Total Solids	QEL Main Laboratory	1- Oven 2- Electronic Balance 3- Glasswares	1- Kannan Narayanan 2- Rejeesh Ramachandran 3- Sanila Riju
Environmental Testing	APHA /AWWA 2540F	Settleable Solids	QEL Main Laboratory	1- Oven 2- Electronic Balance 3- Glasswares	1-Kannan Narayanan 2- Rejeesh Ramachandran 3- Sanila Riju
Environmental Testing	APHA,SM,2710 D,2005	Sludge Weight	QEL Main Laboratory	1- Oven 2- Electronic Balance 3- Glasswares	1- Kannan Narayanan 2- Rejeesh Ramachandran 3- Sanila Riju
Environmental Testing	APHA,SM,2710 D,2005	Sludge Volume	QEL Main Laboratory	1- Glasswares 2- Electronic Balance	1- Kannan Narayanan 2- Rejeesh Ramachandran 3- Sanila Riju
Environmental Testing	APHA,SM,2710 D,2005	Sludge Volume Index	QEL Main Laboratory	1- Glasswares 2- Electronic Balance	1- Kannan Narayanan 2- Rejeesh Ramachandran 3- Sanila Riju
Environmental Testing	APHA/AWWA 4500 N	Total Kjeldahl Nitrogen	QEL Main Laboratory	1- TKN Apparatus 2- Heating Mantle 3- Titration Apparatus	1- Kannan Narayanan 2- Rejeesh Ramachandran 3- Sanila Riju
Environmental Testing	APHA/AWWA 21 <sup>st</sup> Edition 2005 Test 4500- NO3D	Nitrate Nitrogen	QEL Main Laboratory	1- Hach	1- Kannan Narayanan 2- Rejeesh Ramachandran 3- Sanila Riju

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Environmental Testing	APHA/AWWA 5520 D	Oil & Grease	QEL Main Laboratory	1- Separating Funnel 2- Glasswares 3- Electronic Balance	1- Kannan Narayanan 2- Rejeesh Ramachandran 3- Sanila Riju
Environmental Testing	APHA/AWWA 5530 C	Phenol Concentrations	QEL Main Laboratory	1- Hach 2- Separating Funnel 3- Glasswares	1- Kannan Narayanan 2- Rejeesh Ramachandran 3- Sanila Riju
Environmental Testing	APHA/AWWA 4500-CN C&E	Cyanide	QEL Main Laboratory	1- Hach	1- Kannan Narayanan 2- Rejeesh Ramachandran 3- Sanila Riju
Environmental Testing	APHA/AWWA 4500-S2E or F	Sulphide	QEL Main Laboratory	1- Titration Apparatus 2- Glasswares	1- Kannan Narayanan 2- Rejeesh Ramachandran 3- Sanila Riju
Environmental Testing	EPA 608	Residual Pesticides	QEL Main Laboratory	1- Gas Chromatography	1- Kannan Narayanan 2- Rejeesh Ramachandran 3- Sanila Riju
Environmental Testing	APHA/AWWA/6200 Volatile Organic Compounds	Organic Hydrocarbon	QEL Main Laboratory	1- Gas Chromatography	1- Kannan Narayanan 2- Rejeesh Ramachandran 3- Sanila Riju
Environmental Testing	APHA/AWWA 5310-B or C	Total Organic Carbon	QEL Main Laboratory	1- Hach	1- Kannan Narayanan 2- Rejeesh Ramachandran 3- Sanila Riju
Environmental Testing	APHA/AWWA 3111 D,	Silicon, Aluminum	QEL Main Laboratory	1- Hach	1- Kannan Narayanan 2- Rejeesh Ramachandran 3- Sanila Riju
Environmental Testing	APHA/SM/3120B. Heavy Metal Analysis by ICP APHA/SM/3110B	Heavy Metal Concentrations	QEL Main Laboratory	1- Hach	1- Kannan Narayanan 2- Rejeesh Ramachandran 3- Sanila Riju
Environmental Testing	APHA/AWWA 9222D	Fecal Coliforms	QEL Main Laboratory	1- Filtration Apparatus 2- Incubators 3- Filters & Nutrient Pads	1- Kannan Narayanan 2- Rejeesh Ramachandran 3- Sanila Riju
Environmental Testing	WHO, Lab Manual of Parasitological and Bacteriological Techniques, 1996	Nematodes Egg	QEL Main Laboratory	1- Filtration Apparatus 2- Incubators 3- Filters & Nutrient Pads	1- Kannan Narayanan 2- Rejeesh Ramachandran 3- Sanila Riju
Environmental Testing		Microscopic Examination	QEL Main Laboratory	1- Microscope	1- Kannan Narayanan 2- Rejeesh Ramachandran 3- Sanila Riju

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Environmental Testing	APHA 9213-E	Pseudomonas Aeruginosa	QEL Main Laboratory	1- Filtration Apparatus 2- Incubators 3- Filters & Nutrient Pads	1- Kannan Narayanan 2- Rejeesh Ramachandran 3- Sanila Riju
Environmental Testing	APHA 9230-C	Fecal Streptococcus	QEL Main Laboratory	1- Filtration Apparatus 2- Incubators 3- Filters & Nutrient Pads	1-Kannan Narayanan 2- Rejeesh Ramachandran 3- Sanila Riju
Environmental Testing	APHA 9260-J	Legionella	QEL Main Laboratory	1- Immunofluorescence	1- Kannan Narayanan 2- Rejeesh Ramachandran 3- Sanila Riju
Environmental Testing	HACH Method LCK 529, 329	Copper	QEL Main Laboratory	HACH	1-Kannan Narayanan 2- Rejeesh Ramachandran 3- Sanila Riju
Environmental Testing	HACH Method LCK 306	Lead	QEL Main Laboratory	HACH	1- Kannan Narayanan 2- Rejeesh Ramachandran 3- Sanila Riju
Environmental Testing	HACH Method LCK 337, 537	Nickel	QEL Main Laboratory	HACH	1- Kannan Narayanan 2- Rejeesh Ramachandran 3- Sanila Riju
Environmental Testing	HACH Method 8049	Potassium	QEL Main Laboratory	HACH	1- Kannan Narayanan 2- Rejeesh Ramachandran 3- Sanila Riju
Environmental Testing	HACH Method LCK 360	Zinc	QEL Main Laboratory	HACH	1- Kannan Narayanan 2- Rejeesh Ramachandran 3- Sanila Riju
Environmental Testing	HACH Method LCK 359	Tin	QEL Main Laboratory	HACH	1-Kannan Narayanan 2-Rejeesh Ramachandran 3-Sanila Riju
Environmental Testing	HACH Method	Silica	QEL Main Laboratory	HACH	1- Kannan Narayanan 2- Rejeesh Ramachandran 3- Sanila Riju
Aggregate/ Chemical	BS EN 933-9	Methylene Blue Test	QEL Main Laboratory	1- Burette 2- Filter Paper -8 Micron 3- Glass Rod 4- Electronic Balance	1- Kannan Narayanan 2- Rejeesh Ramachandran 3- Sanila Riju
Aggregate	BS EN 932-1 1997	Tests for General Properties of Aggregate. Method of Sampling	QEL Main Laboratory	1- Steel Rules 2- Digital Callipers 3- Dial Gauges 4- Oven 5- Test Sieves	1- Mandy Abion Vicente 2- Shirash Pokhrel 3- Bishnu Bahadur

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Aggregate	BS EN 932-2	Tests for General Properties of Aggregate. Test for Reducing the Samples	QEL Main Laboratory	1- Steel Rules 2- Digital Callipers 3- Dial Gauges 4- Oven 5- Test Sieves	1- Mandy Abion Vicente 2- Shirash Pokhrel 3- Bishnu Bahadur
Aggregate	ASTM C 702/C 702 M 2011	Standard Practice for Reducing Samples of Aggregate to Testing Size	QEL Main Laboratory	1- Sample Splitter 2- Test Sieves	1- Mandy Abion Vicente 2- Shirash Pokhrel 3- Bishnu Bahadur
Aggregate	ASTM D 75/D 75 M 2013	Standard Practice for Sampling Aggregates	QEL Main Laboratory	1- Shovels 2- Sampling Bags	1- Mandy Abion Vicente 2- Shirash Pokhrel 3- Bishnu Bahadur
Asphalt	ASTM D 113 - 07	Standard Test Method for Ductility of Bituminous Materials	QEL Main Laboratory	1- Mould 2- Water Bath 3- Testing Machine 4- Thermometer 5- Oven 6- Trimming Tools 7- Test Sieves	1- Dennis Babiera Roaas 2- Deepak Lakshmanan Achary 3- Surya Kumar Shrestha
Asphalt	ASTM D 92 – 12b	Standard Test Method for Flash and Fire Points by Cleveland Open Cup Tester	QEL Main Laboratory	1- Cleveland Open Cup Apparatus 2- Thermometer 3- Test Flame	1- Dennis Babiera Roaas 2- Deepak Lakshmanan Achary 3- Surya Kumar Shrestha
Asphalt	ASTM D 2995 – 99 (2009)	Standard Practice for Estimating Application Rate of Bituminous Distributors	QEL Main Laboratory	1- Electronic Balance 2- Balance Shield	1- Dennis Babiera Roaas 2- Deepak Lakshmanan Achary 3- Surya Kumar Shrestha
Asphalt	ASTM D 979 / D979M – 12	Standard Practice for Sampling Bituminous Paving Mixtures	QEL Main Laboratory	1- Shovels 2- Sampling Bags, etc.	1- Dennis Babiera Roaas 2- Deepak Lakshmanan Achary 3- Surya Kumar Shrestha
Asphalt	ASTM D 1188 – 07e1	Standard Test Method for Bulk Specific Gravity and Density of Compacted Bituminous Mixtures Using Coated Samples	QEL Main Laboratory	1- Electronic Balance 2- Water Bath	1- Dennis Babiera Roaas 2- Deepak Lakshmanan Achary 3- Surya Kumar Shrestha

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Asphalt	ASTM D 5581 - 07a (2013)	Standard Test Method for Resistance to Plastic Flow of Bituminous Mixtures Using Marshall Apparatus (6 inch-Diameter Specimen)	QEL Main Laboratory	1- Specimen Mould 2- Specimen Extractor 3- Mechanical Compactor 4- Compaction Pedestal 5- Breaking Head 6- Water Bath 7- Marshall Apparatus 8- Oven or Hot Plate	1- Dennis Babiera Roaas 2- Deepak Lakshmanan Achary 3- Surya Kumar Shrestha
Asphalt	ASTM D 2950 / D 2950M14	Standard Test Method for Density of Bituminous Concrete in Place by Nuclear Methods	QEL Main Laboratory	1- Nuclear Gauge & Accessories	1- Rajesh Shrestha 2- Hari Narayanan 3- Bikal Gurung
Asphalt	ASTM D 5361 / D 5361M14	Standard Practice for Sampling Compacted Bituminous Mixtures for Laboratory Testing	QEL Main Laboratory	1- Core Drill	1- Dennis Babiera Roaas 2- Hytham Osman 3- Surya Kumar Shrestha
Asphalt	ASTM D 140/D 140 M 2014	Standard Practice for Sampling Bituminous Materials	QEL Main Laboratory	1- Sampling Containers	1- Dennis Babiera Roaas 2- Deepak Lakshmanan Achary 3- Surya Kumar Shrestha
Asphalt	ASTM D 546 2010	Standard Practice for Sieve Analysis of Mineral Filler in Bituminous Mixtures	QEL Main Laboratory	1- Test Sieves 2- Oven 3- Electronic Balance	1- Dennis Babiera Roaas 2- Deepak Lakshmanan Achary 3- Surya Kumar Shrestha
Asphalt	ASTM D 979/D 979 M 2012	Standard Practice for Sampling Bituminous Paving Mixtures	QEL Main Laboratory	1- Scoops 2- Shovels, etc.	1- Dennis Babiera Roaas 2- Deepak Lakshmanan Achary 3- Surya Kumar Shrestha
Asphalt	ASTM D 5821 2013	Standard Practice for Determining the Percentage of Fractured Particles in Coarse Aggregate	QEL Main Laboratory	1- Electronic Balance 2- Test Sieves 3- Sample Splitters	1- Dennis Babiera Roaas 2- Deepak Lakshmanan Achary 3- Surya Kumar Shrestha
Asphalt	ASTM D 6926 2010	Standard Practice for Preparation of Bituminous Specimen Using Marshall Apparatus	QEL Main Laboratory	1- Specimen Moulds 2- Specimen Extractors 3- Electronic Balance 4- Thermometers 5- Oven	1- Dennis Babiera Roaas 2- Deepak Lakshmanan Achary 3- Surya Kumar Shrestha

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Rock	ASTM D 6927 2015	Standard Test Method for Marshall Stability & Flow of Asphalt Mixtures	QEL Main Laboratory	1- Marshall Apparatus 2- Oven 3- Electronic Balance 4- Thermometers 5- Water Bath	1- Dennis Babiera Roas 2- Deepak Lakshmanan Achary 3- Surya Kumar Shrestha
Soil	ASTM D 6913-04 (2009) e1	Standard Test Method for Particle Size Distribution of Soils Using Sieve Analysis	QEL Main Laboratory	1- Test Sieves 2- Oven 3- Electronic Balance	1- Sreenivasan Kakurayil 2- Erapparayil Varghese Sajimon 3- Dhan Bahadur 4- Anish Shrestha 5- Dinesh Shrestha
Soil	ASTM D 1140-2014	Standards Test Method for Determining the Amount of Material Finer Than 75 Micron Sieves in Solid by Washing	QEL Main Laboratory	1- Test Sieves 2- Oven 3- Electronic Balance	1- Sreenivasan Kakurayil 2- Erapparayil Varghese Sajimon 3- Dhan Bahadur 4- Anish Shrestha 5- Dinesh Shrestha
Soil	ASTM D 4318-2010 e1	Standard Test Method of Liquid Limit, Plastic Limit & Plasticity Index of Soils	QEL Main Laboratory	1- Flat Glass Palte 2- Apparatus for Moisture Content Determination 3- Length Rod 4- Grooving Tools, etc.	1- Erapparayil Varghese Sajimon 2- Dhan Bahadur 3- Anish Shrestha 4- Dinesh Shrestha
Soil	ASTM D 1883-2014	Standard Test Method for California Bearing Ratio of Laboratory Compacted Soils	QEL Main Laboratory	1- Test Sieves 2- CBR Mould 3- Metal Rammer 4- Metal Plungs 5- Steel Straight Edge 6- Balance 7- CBR Apparatus	1- Sreenivasan Kakurayil 2- Erapparayil Varghese Sajimon 3- Dhan Bahadur 4- Anish Shrestha 5- Dinesh Shrestha
Soil	ASTM D 6938-10	Standard Test Method for In-Place Density and Water Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth)	QEL Main Laboratory	1- Nuclear Gauge & Accessories	1- Rajesh Shrestha 2- Hari Narayanan 3- Bikal Gurung
Soil	ASTM D 4429-2009a	Standard Test Method for CBR in Place	QEL Main Laboratory	1- In Situ CBR Apparatus 2- Dial Gauges 3- Proving Rings	1- Erapparayil Varghese Sajimon 2- Sreenivasan 3- Ganesh Krishnan 4- Dinesh Shrestha

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Soil	ASTM D 1556/D 1556M15	Standard Test Method for Density and Unit Weight of Soil in Place by Sand-Cone Method	QEL Main Laboratory	1- Sand Cone & Cylinder 2- Measuring Device	1- Sreenivasan Kakurayil 2- Erapparayil Varghese Sajimon 3- Dhan Bahadur 4- Anish Shrestha 5- Dinesh Shrestha
Concrete	BS EN 12504-2	Testing Hardened Concrete in Structures. Non Destructive Testing- Determination of Rebound Number	QEL Main Laboratory	1- Rebound Hammer	1- Mandy Vicente 2- Sreenivasan Kakurayil
Rock	BS EN 13383-1	Drop Test	QEL Main Laboratory	1- Weighing Balance 10 Ton 2- Sieves	1- Mandy Abion Vicente 2- Abilash Viswabaran 3- Jessil Joy

August 23, 2015  
Commencement Date



*C. P. Ramani*  
C. P. Ramani, P.E.  
President

Print Date: 11/17/2015

Page 33 of 33

*This accreditation certificate supersedes any IAS accreditation certificate bearing an earlier date. The certificate becomes invalid upon suspension, cancellation or revocation of accreditation. See the IAS Accreditation Listings on the web at [www.iasonline.org](http://www.iasonline.org) for current accreditation information, or contact IAS directly at (562) 364-8201.*



**BUREAU VERITAS**  
Certification



## **QATAR ENGINEERING LABORATORIES W.L.L.**

Street No. 50, Gate No. 26,  
Industrial Area,  
P. O. Box:- 40278, Doha

### **STATE OF QATAR**

*Bureau Veritas Certification Holding SAS – UK Branch certify 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*

*Standards*

## **ISO 9001:2008**

*Scope of certification*

**Physical, Chemical, Mechanical & Non-destructive Testing  
for Construction Materials & Insulation and Bolt Testing.**


Certification cycle start date: **29<sup>th</sup> December 2015**

Subject to the continued satisfactory operation of the organisation's Management System, this certificate expires on: **14<sup>th</sup> September 2018**

Original certification date: **29th December 2015**

Certificate No. **IND 15.7586 U/Q**

Version 1, Revision Date: **29<sup>th</sup> Dec. 2015**

  
**VISHAL BHAT**  
Certification Manager – BVC Qatar  
(Signed on behalf of BVCH SAS UK Branch)



008

Certification body address: **Bureau Veritas Certification Holding SAS – UK Branch,**  
66 Prescott Street, London E1 8HG, United Kingdom.  
Local office: **G1-G3, Ground Floor, KG Building (Bldg. No. 194, Street No. 230),**  
**C Ring Road, Opposite Gulf Times (Doha) Qatar**

Further clarifications regarding the scope of this certificate and the applicability of the management system requirements may be obtained by consulting the organisation.  
To check this certificate validity please call: **+974 40329729**



[Home](#)[Website Feedback](#)[Contact](#)**MIC**  
EXPLORER**Mesaieed**  
**SERVICES**

## MIC Approved Laboratories

Sr. No	Name & Address	Fax No.	Phone No.
6	Qatar Engineering Laboratories W.L.L PO Box. 40278, Doha - Qatar Street No. 50, Gate # 26 , Doha Industrial Area	+974 - 4515317	+974 - 4515401

<http://www.mic.com.qa/mic/web.nsf/web/authlabs>

24 Sep 10 09:50a

08-SEP-2010 11:02 From:

To:44515317

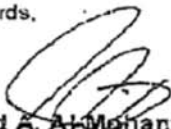
P.1

Kahramaa

06/09/2010 01:07:18 n PAGE 1/001 Fax Server



المؤسسة العامة للقطر والكهرباء والماء  
Qatar General Electricity & Water Corporation

TECHNICAL AFFAIRS		الشؤون الفنية																																																																				
TELEFAX MESSAGE	DATE: 6 SEP 2010	TOTAL PAGES: 1																																																																				
To: SIEMENS AG & SIEMENS WLL Consortium		Fax No. 4456 0378																																																																				
For the Attention of: Mr. Uwe Lingmann Project Manager		Our Ref.: TA/DO/TE/FX/10/ 1391																																																																				
Contract: GTC/240D/2008 QPTS EXPANSION - PHASE IX SUBSTATIONS (PACKAGE S-3)																																																																						
Subject : General Prequalification for M/s. Qatar Engineering Laboratory																																																																						
<p>With reference to your letter ref. No. PH9-SIE-OD-CON-10-0095 dated 27.07.2010 regarding the above subject, please be informed that proposed M/s Qatar Engineering Laboratory are conditionally approved, subject to submission and acceptance of the following documents:</p> <ul style="list-style-type: none"> <li>❖ Organizational Chart with CVs of the key personnel,</li> <li>❖ QA/QC Procedures and</li> <li>❖ HSE Policy.</li> </ul>																																																																						
<p>Regards,</p> <p></p> <p>Saad A. Al-Mohannadi Director - Technical Affairs</p> <p>cc: TE, TEP, TEB, PM EPE (Fax: 44 473 572)</p> <p>TE TEP PM EPE</p>		<p>SIEMENS WLL - SIEMENS AG CONSORTIUM PROJECT FOR PHASE IX SUBSTATIONS CONTRACT NO. GTC/240D/2008</p> <table border="1"> <thead> <tr> <th></th> <th>ECT</th> <th>WED</th> <th>BBM</th> </tr> </thead> <tbody> <tr><td>Head of Project</td><td></td><td></td><td></td></tr> <tr><td>Head of Project Finance</td><td></td><td></td><td></td></tr> <tr><td>Project Manager - EPC</td><td></td><td></td><td></td></tr> <tr><td>Project Manager - E&amp;C</td><td></td><td></td><td></td></tr> <tr><td>Contract Manager</td><td></td><td></td><td></td></tr> <tr><td>Engineering</td><td></td><td></td><td></td></tr> <tr><td>Construction Management</td><td></td><td></td><td></td></tr> <tr><td>Contract Management - Finance</td><td></td><td></td><td></td></tr> <tr><td>Project Engineer</td><td></td><td></td><td></td></tr> <tr><td>Procurement</td><td></td><td></td><td></td></tr> <tr><td>Site Operation</td><td></td><td></td><td></td></tr> <tr><td>Site Engineer</td><td></td><td></td><td></td></tr> <tr><td>QA/QC</td><td></td><td></td><td></td></tr> <tr><td>HSE</td><td></td><td></td><td></td></tr> <tr><td>Others</td><td></td><td></td><td></td></tr> <tr><td>Other Records</td><td></td><td></td><td></td></tr> </tbody> </table>		ECT	WED	BBM	Head of Project				Head of Project Finance				Project Manager - EPC				Project Manager - E&C				Contract Manager				Engineering				Construction Management				Contract Management - Finance				Project Engineer				Procurement				Site Operation				Site Engineer				QA/QC				HSE				Others				Other Records			
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Other Records																																																																						

PH9-EPE-OD-CON-10-0063

Telex: (974) 4484 5333 - Fax: (974) 4484 5391  
P O BOX 41, DOHA - QATAR.

تيلكس : 44845333 (974) - فاكس : 44845391 (974)  
ص. ب. 41 الدوحة - قطر

RECEIVED  
08-SEP-10





## PRE-QUALIFICATION DOCUMENT OF QATAR ENGINEERING LABORATORIES W.L.L.

<b>FLUOR CORP</b>	
<b>JETTY BOIL OFF GAS RECOVERY PROJECT</b>	
<b>TO BE COMPLETED BY SUPPLIER/CONTRACTOR</b>	
PROJECT CONTRACT NO.: J3BG	
P.O./CONTRACT NUMBER: J3BG-QG-0-K101	
FIRST ISSUE: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	
EDR CODE (S): QA	
ITEM/TAG NUMBERS: N/A	
CLIENT DOCUMENT NO. 0305-0K101-CON-00007	
FLUOR CORP CONTROL NUMBER (First Issue by Fluor Corp): 00007	
<b>FLUOR CORP TO COMPLETE:</b>	
DATE RECEIVED: 08-NOV-2010 REV.1	
AUTHORIZED BY:	
<input checked="" type="checkbox"/> A - Proceed <input type="checkbox"/> B - Proceed, change as noted and resubmit. <input type="checkbox"/> C - DO NOT PROCEED, change as noted and resubmit. <input type="checkbox"/> D - Reviewed for Information Only. <input type="checkbox"/> Q - Quality is below standards. Correct and resubmit. <input type="checkbox"/> V - Voided. This drawing/document has been VOIDED.	
Authorization to proceed does not relieve Contractor/Supplier of its responsibility or liability under the Contract/Purchase Order.	

REV.	DATE	DESCRIPTION	PREPARED	CHECKED	APPROVED.
0	08.11.2010	ISSUED FOR COMMENTS			
<b>FLUOR</b>  QATARGAS		JETTY BOIL-OFF GAS RECOVERY PROJECT AT RAS LAFFAN WAJBA CROSSING	DOCUMENT NUMBER J3BG-0003 Sht. 1 of 57		

STFA



EXTERNAL TRANSMITTAL NOTE ONSHORE ENGINEERING DEPARTMENT - MESAIEED PROJECTS						
Project No. 2704			Transmittal No:			
Contract No. :GC08112800			EDM/GC08112800/EXT/TN/0498			
Contract Title :EPIC FOR CONTAINER TERMINAL (BERTH NO.7) AT MESAIEED PORT						
Forwarded to			Codes			
Company : STFA			1 Approved - May Proceed			
F.a.o.: MR. NECDET AKSOY						
Item No.	QP Document No.	Rev.	Your Ref.	Description	Code	Due date
1	2704-9314	1	TN/0533	PRE-QUALIFICATION DOCUMENT - QATAR ENGINEERING LABORATORIES W.L.L.	1	

STFA MARINE CONST. QATAR MGR PROJECT		
DATE: 01-JUL-09		
DISTRIBUTION	A	I
Project M.		
Marine P.M.		
E&M P.M.		
Technical M.		✓
Hyundai		
A.B.B.		
HSE		
QA/QC		✓
Survey C.		
Fin. & Ad. M.		
File		
Workshop M.		
Head Office		

Remarks:			
Notes :			
Document Controller	Nominated Deputy	QP Representative	Date
Tel: 494 6073 SOMAN JACOB, EBN405E	Tel: 494 6252 SHAJAHAN EBRAHIM, EDM/36		01-07-2009
If applicable, please resubmit documents before due date			
Please sign a copy of this transmittal and return by mail as acknowledgement of receipt			
Receivers Signature Over Printed Name	Designation	Date	

قطر للبترول  
Qatar Petroleum



**EXTERNAL TRANSMITTAL NOTE  
ONSHORE ENGINEERING DEPARTMENT - MESAIEED PROJECTS**

Project No. 2341

Transmittal No:

Contract No. :GT07106000

EDM/GT07106000/EXT/TN/0569

Contract Title :EPIC FOR GABBRO BERTH EXPANSION (PACKAGE -1) AT MESAIEED

Forwarded to				Codes		
Company : STFA/JDN				1 Approved - May Proceed		
F.a.o.: AHMET BILGIN						
Item No.	QP Document No.	Rev.	Your Ref.	Description	Code	Due date
1	2341-9080	1	TN/0622	PRE-QUALIFICATION DOCUMENT FOR QATAR ENG. LABAORATORIES	1	

Remarks:

Notes :

Document Controller	Nominated Deputy	QP Representative	Date
Tel: 4946596 Sajan Thomas, EBN/424	Tel: 4946257 Adam Charles Barber, EDM/31		14-05-2009
If applicable, please resubmit documents before due date			
Please sign a copy of this transmittal and return by mail as acknowledgement of receipt			
Receivers Signature Over Printed Name	Designation		







**EXTERNAL TRANSMITTAL NOTE  
ONSHORE ENGINEERING DEPARTMENT - RAS LAFAN PROJECTS**

Project No. : 2532

Contract No. : GC 08116500

Transmittal No:

EDR/GC 08116500/EXT/TN/1166

Contract Title : EPIC FOR REPLACEMENT AND CONSTRUCTION OF NEW SERVICE BERTHS AT RAS LAFFAN

Forwarded to				Codes		
<b>Company : ARCHIRODON</b>				1    Approved - May Proceed		
<b>F.a.o.: MR.KAROL PIENIAZEK, PROJECT MANAGER</b>						
Item No.	QP Document No.	Rev.	Your Ref.	Description	Code	Due date
1	2532-1-26-0004	2	DT/1446	PRE-QUALIFICATION DOCUMENTS FOR M/S QATAR ENGINEERING LABORATORIES	1	17-01-2011

Remarks:

Notes :

Document Controller	Nominated Deputy	QP Representative	Date
Tel: 4055930 Noushad Kelothe, 28576	Tel: Shiv Kumar K, EDR/25	Abdulla Hijji Al Sulaiti, EDR	04-01-2011
If applicable, please resubmit documents before due date			
Please sign a copy of this transmittal and return by mail as acknowledgement of receipt			
Receivers Signature Over Printed Name	Designation	Date	



## FACSIMILE

Fax Ref: ERC0638C1B/26199/10

Date: 08 JUN 2010

To	:	Mr. Ugur Oduncuoglu
Position	:	Project Manager
Department	:	M/s. TEKFEN Construction and Installation Co., INC.
Fax No.	:	+974 4 72 89 93, +974 4 11 06 12
Country	:	State of Qatar
No. of Pages (Including this)	:	05 (Five)

*If this fax message is incomplete or unclear, please call on (+974) 4950066 quoting the above fax Ref. No.*

**Contract:** ERC 0638 C1B – Construction of Qatar Primary Routes  
North Road Project – Contract (2 & 3)

**Subject:** Approval of Qatar Engineering Laboratories W.L.L.

Dear Sir,

With reference to the above mentioned subject, we have reviewed the pre-qualification file of M/s Qatar Engineering Laboratories W.L.L.

The outcome of our review of M/s Qatar Engineering Laboratories W.L.L revealed that it is included in Ashghal list of approved laboratories as of May 2010, with possess conformity certification by Ministry of Environment for the general requirements of material testing laboratory no. ML 147 valid until 31<sup>st</sup> December 2010.


In view of above, and further to the joint site visit with our Consultant paid on 25<sup>th</sup> May 2010, we have no objection in principle for your proposal to assign M/s Qatar Engineering Laboratories W.L.L for the work categories noted the certificate.

The Interface procedure between Infrastructure affairs and the third party laboratory for work activities on site and laboratory works should be proposed by Tekfen to IA/DAR satisfaction.

Regards,



**Moh'd Jama' Alkhazendar**  
A. Manager of Project Management (Roads)  
Infrastructure Affairs

Copy  A. H. M. P. O. (Roads)  
PM / Asst. PM / PC  
Ch. RE - Dar Al Handasah - 4728264  
File



شؤون البنية التحتية  
INFRASTRUCTURE AFFAIRS

ص. ب. ٢٢١٨٨، الدوحة - قطر. تليفون: +٩٧٤ - ٤٩٥٠٠٦٦. فاكس: +٩٧٤ - ٤٩٥٠٠٦٦  
P. B. 22188, Doha - Qatar. Tel.: +974 - 495 0623, Fax: +974 - 495 0661

## SNC-LAVALIN International - Approval



**SNC-LAVALIN  
International**

2009-03-02

**Subject: Qatar Engineering Laboratories W.L.L. - Qatalum Project**

---

To Whom It May Concern,

We hereby confirm that Qatar Engineering Laboratories W.L.L is our subcontractor for the service of Laboratory and Site Inspectors in the Qatalum project located at Mesaieed Industrial City (MIC), Qatar and that they are approved by SNC / QATALUM to perform the services.

Sincerely yours,

  
Felipe Parada  
Lead Contract Administrator







**Heavy Industries  
& Construction**

Doosan Heavy  
Industries &  
Construction Co., Ltd

Qatalum Power Plant Project  
P.O.Box 22796, Doha  
State of Qatar  
Fax No. : + 9744992368

Date 02<sup>nd</sup> April 2009

Attn.: Mr. S.S.P. Kulkarni  
Chief Manager- Projects  
Simplex Infrastructure Ltd  
Qatalum Power Plant Project

Your Ref: Q13/DOS/2323/SIL  
/CL/658/dt 09 March 2009.

Our Ref DHI-SM-QAT-SM- 0334

**Subject: Approval for Qatar Engineering Laboratories.**

This is with reference to your above cited letter. The use of services of Qatar Engineering laboratory is herewith approved for the following services:

- 1 Material testing including soil, cement, concrete steel, bitumen and other construction material materials.
- 2 NDT testing including ultrasound, pile integrity etc.

Best regards

Hak Gyu Kim / General Site Manager  
Doosan Heavy Industries & Construction Co., Ltd.  
Qatalum Power Plant Project  
Email: hakgyue.kim@doosan.com



Ref. : M003-QGD-QEL-LTR-00001  
Date : 24<sup>th</sup> JULY 2014

**Qatar Engineering Laboratories W.L.L.**  
Street 50, Gate 26  
Industrial Area  
PO Box 40278  
Doha  
State of Qatar

Tel No.: +974 4451 5401  
Fax No.: +974 4451 5317

**Attention: Mr. K G Baburajan**  
Managing Director

**Project: Design-Build Red Line South Underground (ID: RTC/039/2012)**  
Qatar Integrated Railway Project (QIRP)

**Subject: Letter of Conditional Award (LOCA) and Notice to Proceed (NTP)**  
Geotechnical Investigation & Geophysical Survey Works

Dear Sirs,

We refer to the Technical and Commercial Proposal for the Geotechnical Investigation & Geophysical Survey Works for the above project issued by Qatar Engineering Laboratories W.L.L. (hereinafter "QEL") to the QDVC-GS Engineering & Construction-Al-Darwish Engineering Joint Venture (hereinafter the "Joint-Venture") and the Parties discussions culminating in the proposal for the Works (hereinafter the "Proposal").

By way of this LOCA/NTP, the Joint-Venture is pleased to confirm to QEL its provisional acceptance of QEL Proposal for the Geotechnical Investigation & Geophysical Survey Works

and the Joint Ventures intent to enter into an agreement based upon the attached Draft Sub-Contract subject to the terms and conditions set forth herein.

The unit rates contained in the Contract Sum shall not be subject to any variation, adjustment or increase and shall cover all QEL obligations under this LOCA/NTP and all things necessary for the proper execution and completion of the Contracted Works and remedying any defect therein including without limitation all taxes and duties.

#### 1. General

1.1. This LOCA/NTP is conditional upon the fulfilment of the following:

- (i) acceptance by QRC of QEL involvement under the Project,
- (ii) acceptance by the Joint Venture Board of QEL involvement in the Project.
- (iii) agreement between the Parties on the terms and conditions of the Sub-Contract.

1.2. This LOCA/NTP authorises and instructs QEL to immediately proceed with allocating the relevant personnel and resources to the Project and with the intention of mobilising its personnel and resources to commence the Geotechnical Investigation & Geophysical Survey Works with due diligence and without delay.

1.3. This LOCA/NTP shall enter into full force and effect on the date of this LOCA/NTP (noted above) (hereinafter the "Effective Date").

1.4. The Parties shall use their best efforts to agree and finalise the terms of the Sub-Contract Agreement based upon the enclosed Draft Sub-Contract, which shall be amended to take account of the particulars of the

Airport Road Corner C-Ring Road – Opposite Toyota Tower  
P.O. Box 31412  
Doha (State of Qatar)

Tel : +974 44 53 86 74  
Fax : +974 44 83 67 01  
Email: info@ris-jv.com





مشروع الميناء الجديد  
NEW PORT PROJECT



Ref: No. NPP/0013/ LT/MDC/2013/0319

Date: 16 December 2013

**Middle East Dredging Company Q.S.C**

P.O. Box: 24745

Doha, State of Qatar

**Attention: Mr. Gert De Smet,**  
Project Director

**Subject: New Port Project (NPP)**

**NPP/0013 – Dredging, Reclamation & Outer Breakwater Construction**

**Approval of Subcontractor for Undertaking Ground Investigation for Buildings and Infrastructure**

Dear Mr. De Smet,

We write with reference to the Middle East Dredging Company Q.S.C. (MEDCO) correspondence (Ref: GEN -4604-9902-LTR-00542-C05816, dated 11 November 2013) and (Ref: GEN -4604-9902-LTR-00585-C06478, dated 5 December 2013) concerning your request for the approval of Qatar Engineering Laboratories (QEL) for undertaking the geotechnical borehole testing for the Naval Base buildings and infrastructure.

We acknowledge and record MEDCO's admission of liability in bringing to site an unapproved Subcontractor for carrying out the ground investigation for the Naval Base buildings and infrastructure and reiterate that it is MEDCO's obligation to comply entirely with all Conditions of Contract.

The Engineer has reconsidered MEDCO's request as mitigation against further MEDCO delays in handover of Section A and Section B and agrees to accept Qatar Engineering Laboratories (QEL).

Pursuant to Clause 4.3 (Subcontracting) of the Conditions of Contract, the Engineer approves QEL for undertaking the ground investigation for the Naval Base buildings and Infrastructure.

Yours sincerely,

  
**Jassim Bin Saif Al-Sulaiti**  
Minister of Transport  
Chairman, NPP Steering Committee

  
**Nabeel Mohammed AL-Buenain**  
Project Executive Director

cc: NPP CPT, PMC

Ph : +974 4406 4444  
Fax : +974 4406 4420

New Port Project  
P.O Box: 28333  
Doha – QATAR





# US Army Corps of Engineers Al Udeid Air Base - Qatar

CERTIFICATE OF APPRECIATION  
IS AWARDED TO:

## QATAR ENGINEERING LABORATORY (Material Testing Laboratory)

For Outstanding service & support to the US Army Corps of Engineers. Your professionalism, dedication and genuine concern in providing quality service while employed with American International Contractors, Inc. at the Tactical Ramp and Vehicle Maintenance Facility - Project Contract W912ER-11-D-0001-0007, has been exemplary and reflects distinct credit upon you and your employer. Everyday your efforts are translated into the history books.



*Adel M. Botros*

Adel M. Botros, PE  
Resident Engineer - COR

USACE - Qatar Area







**QATAR ENGINEERING LABORATORIES (QEL)**

*PRE-QUALIFICATION DOC.*

# Management & Key Personnel

---

**K.G.BABURAJAN**  
BSc.,(Chem), BSc.Engg., (Civil), M.I.C.E  
MANAGING DIRECTOR



---

**MEMBERSHIP**

- ✓ ASSOCIATE MEMBER OF INSTITUTION OF CIVIL ENGINEERS (INDIA)
- ✓ MEMBER OF SOCIETY OF ENGINEERS (INDIA)
- ✓ LIFE MEMBER OF BAHRAIN SOCIETY OF ENGINEERS (MEMBER M-339)
- ✓ MEMBER OF INSTITUTION OF CIVIL ENGINEERS (U.K)

**COEPP (Registered)**

Registered with Committee for Engineering Professional Practice (COEPP), Kingdom of Bahrain, since 1985-Cat.A.

**MAJOR CAREER HISTORY**

**1988- 2008: GENERAL MANAGER OF AL HOTY ANALYTICAL SERVICES**

Managed team of Engineers and Technicians for various QA/QC operations. Carried out all Administration and Management responsibilities for profitability, staffing, QA/QC, finance, reporting to the Director with projected incomes, equipment and staffing, resource requirements, overseas operations, setting up of new venues in other countries, coordinate the various departments etc was responsible in the setting up of the laboratory facilities for Concrete, Soils, Asphalt, Steel, Chemical, and Geotechnical Site Investigation. Vast experience in the field of design and execution of Civil Engineering Structures like -Multi-storey buildings, marine structures, caissons, jetties, roads, pavements, and bridges including in the field of Geotechnical Site Investigation, both Offshore and Onshore, Geophysical Investigation, Analysis and Design of Foundation including recommendations of type and kind of foundation to be used on specific site, Quality Control Testing, preparation of detailed Quality Assurance, manuals, failure investigation of concrete structures, assessment and evaluation of the condition of Civil Structures by carrying out different destructive and non-destructive methods, preparation of detailed repair strategy, testing of structural steel works, quality control testing of cement, concrete, soils, asphalts, reinforcements, rocks, water and other building materials, calibration and other aspects of Civil Engineering



**1999 - 2009: MANAGING DIRECTOR & PARTNER OF BAHRAIN FOUNDATION AND CONSTRUCTION COMPANY W.L.L.**

Managed Technical team of Structural Engineers, Geologists, Project Managers, Project Engineers and other piling operators including all the administration and financial aspects of the company operations. Developed a specialized team of engineers and technicians to carry out various pile and other foundation related testing including design and Construction of Pile Foundations, Ground improvement by Vibro Compaction, Vibro replacement, Dynamic Compaction, Dewatering and other foundation related issues and problems, static and Dynamic load testing, Integrity testing using Sonic, Cross-hole Seismic methods, Caliper logging, perform instrumented pile load tests etc. During the peak time the company employed up to 500 employees mainly technical and skilled category

**1992 - 2008 : MANGING DIRECTOR & PARTNER OF M/S FAST FLOW SERVICES, BAHRAIN**

was responsible for Setting up and Managing the above company for 16 years which is a specialized Contracting and Trading Company activity includes calibration services, Corrosion monitoring and construction of marine structures. Few of the projects constructed during this period include Marina For Ritz Carlton Hotel–Boat Parking. Aqua Park Construction for Durrat Al Bahrain. Pipe line demarkation and Bouys installation for BAPCO, at JIDHD Island. Construction of 4 nos. Ware Houses for M/s BANZ at Juffair.

**SETTING UP OF MATERIAL TESTING AND GEOTECHNICAL LABORATORY**

- **AL HOTY ANALYTICAL SERVICES - Bahrain**
- **QATAR INDUSTRIAL LABORATORIES – Doha**
- **QATAR ENGINEERING LABORATORIES W.L.L, DOHA, Qatar.**
- **GULF Engineering Laboratories at Sohar in Sultanate of Oman.(under process)**
- **QATAR ENGINEERING LABORATORIES –Foreign Branch, Bahrain**

**SELECTED LIST TO SHOW VARIETY OF WORKS CARRIED OUT UNDER MY MANAGEMENT**

**A] SOIL INVESTIGATIONS**

❖ **High Rise Buildings**

-  Bahrain financial harbour
-  Icon tower
-  Dana tower
-  Abraj Al Lulu
-  Seef Tower
-  Bahrain City Centre
-  Bahrain Business Bay
-  Almoayeed Tower

❖ **DREDGING AND RECLAMATION**

- ✚ NORTH MANAMA CAUSEWAY
- ✚ NORTH BAHRAIN NEW TOWN
- ✚ AMWAJ ISLAND
- ✚ DURRAT AL BAHRAIN
- ✚ NEW PORT & INDUSTRIAL AREA
- ✚ HIDD TO MANAMA CROSSING
- ✚ SECOND MANAMA-MUHARRAQ CROSSING
- ✚ SH.KHALIFA BIN SULMAN CAUSEWAY
- ✚ SALMAN ISLAND
- ✚ SEEF BANDER
- ✚ REPLACEMENT OF SITRA BRIDGES
- ✚ BAHRAIN INVESTMENT WHARF
- ✚ KHALIFA BIN SALMAN PORT & INDUSTRIAL AREA AT HIDD
- ✚ DURRAT AL BAHRAIN PROJECT
- ✚ AMWAJ ISLAND
- ✚ DIYAAR AL MUHARRAQ
- ✚ NORTH BAHRAIN NEW TOWN
- ✚ DARARI
- ✚ ALBA MARINE
- ✚ NASS MARINE YARD
- ✚ JAWW VILLAGE
- ✚ NORTH CHANNEL ACCESS BASIN

● **OFFSHORE**

- ✚ NATIONAL ASSEMBLY V3
- ✚ AGCC (HYUNDAI)
- ✚ RAS LAFFAN SHIP REPAIR YARD
- ✚ ASRY – HIDD
- ✚ NORTH BAHRAIN NEW TOWN
- ✚ QUAY WALLS - NBNT
- ✚ BAHRAIN BAY
- ✚ AMWAJ ISLAND
- ✚ BFH RECLAMATION PHASE 2
- ✚ SHK. KHALIFA BIN SALMAN PORT AND INDUSTRIAL AREA
- ✚ SALMAN ISLAND

● **BATHYMETRIC SURVEY AND MARINE STUDIES**

- ✚ MUHARRAQ WEST/ARAD SOUTH
- ✚ FASHT AL ADHAM
- ✚ ALBA PS3
- ✚ FASHT AL JARIM
- ✚ ASRY-HIDD
- ✚ ALBA PLOTLINE 4 PROJECT - CAUSEWAY TO ALBA MARINE TERMINAL
- ✚ HYDRAULIC MODELLING- YEMEN,SOCOTRA
- ✚ NEW PORT AND INDUSTRIAL AREA-HIDD
- ✚ HALUL HARBOUR REFURBISHMEN
- ✚ ASRY SLIPWAY
- ✚ SHK.KHALIFA BIN SALMAN- MINA SULMAN
- ✚ SITRA CAUSEWYA BRIDGE
- ✚ DURRAT AL BAHRAIN - PHASE 2
- ✚ MESAIEED POWER PLANT-QATAR
- ✚ CONTAINER PORT MINA SULMAN- (U S ARMY)

● **CAUSEWAY AND BRIDGES**

- ✚ SAUDI - BAHRAIN CAUSEWAY
- ✚ SH.KHALIFA BIN SULMAN CAUSEWAY
- ✚ NORTH MANAMA CAUSEWAY
- ✚ QATAR-BAHRAIN CAUSEWAY
- ✚ THIRD CROSSING BETWEEN MINA SALMAN AND HIDD
- ✚ SECOND MANAMA-MUHARRQ CROSSING
- ✚ REPLACEMENT BRIDGE UMM AL HASSAM –SITRA

● **POWER PLANT**

- ✚ ADDUR
- ✚ HIDD
- ✚ AL- EZZEL
- ✚ ALBA PS 3 and PS 4
- ✚ RAS ABU FONTAS
- ✚ RAS LAFFAN MASAIEED

● **SMELTER PROJECT (ALUMINUM )**

QUALITY CONTROL TESTING DURING CONSTRUCTION

- ✚ ALBA PLOTLINE 3 AND 4- BECHTEL
- ✚ ALBA PLOTLINE 5- BECHTEL
- ✚ ALBA PLOTLINE 3 AND 4- BECHTEL
- ✚ SOHAR ALUMINUM - - BECHTEL
- ✚ QATALUM -SNC



● **PROJECTS IN QATAR**

ARCHIRODON CONST. OVERSEAS  
*QATOFIN MARINE WORKS*

ARCHIRODON CONST. OVERSEAS  
*HALUL HARBOUR REFURBISHMENTS PH. 1*

CONSOLIDATED ENG'NG CONSTRUCTION CO.  
*HALUL HARBOUR - UPGRADE PHASE II*

DAR AL HANDASAH  
*QATAR BAHRAIN CAUSEWAY*

HYUNDAI HEAVY INDUSTRIES  
*MESAIEED 'A' IPWP*











QATAR ELECTRICITY AND WATER COMPANY  
*MESAIEED POWER PLANT*

QATAR GAS TRANSPORT COMPANY  
*RAS LAFFAN SHIP REPAIR YARD & DRY DOCK*

SIEMENS AG POWER GENERATION  
*POWER PLANT*

STAR CEMENT  
*AGCC (HYUNDAI)*

**B] FAILURE INVESTIGATIONS**

-  Numerous residential buildings throughout Bahrain
-  Chamber of Commerce Building – Module 2
-  Bahrain School – Module 2
-  Earth Satellite Station Ras Abu Jarjur
-  British Embassy
-  Saudi – Bahrain Causeway – Research Study in Corrosion of Reinforcements
-  Mina Sulman Port Area – Crane track failures
-  Bahrain Flour Mills and Administration Blocks, Silos, etc,
-  Crown Prince Palace – Riffa – Gibb Petermuller and Partners
-  Jashanmal Building Fire Damaged

**C] MATERIAL TESTING**

✚ ALBA POTLINE 3 & 4 EXPANSION-  
For BECHTEL

✚ Sohar Aluminum – For BECHTEL

✚ Qatalum for SNC LAVALIN

✚ Bahrain international circuit

✚ Bahrain world trade centre

✚ Bahrain city centre

✚ Riffa views

✚ Housing Project at AL ALI

✚ Housing Project at Lowzi

✚ Amwaj Development

✚ Arabian Gulf University

✚ Sitra Housing Project

✚ New Shk. Khalifa Port

✚ Isa town gate Interchange

✚ Arcapita H.Q and Four seasons Hotel

**D] NDT, METALLURGY AND PIPE LINE SERVICES**

Managed the NDT SECTION conducting all types of tests including Dye penetrant testing, Magnetic particle inspection, Eddy current testing, Ultrasonic Testing and Radiographic Testing, metallurgy and pipe line inspection, Hydro Testing, Heat Treatment & stress relieving for

✚ CCC JGC Brown & Root OPMI Lahoud Engineering ABB ALSTOM Sae  
Sadelmi

✚ Siemens GE Italian P & T GPIC Bapco Banoco Snamprogetti Mitsubishi

**E] TECHNICAL EXPERT TO COURT**

Was in charge of preparing detailed Technical reports to the Court on various civil engineering related problems like Building Collapses (National Bank Building, Lulu Centre, Muharraq Shopping complex), various building projects, disputes between suppliers and clients or between contractors / clients / consultants.

**F ] PILING AND OTHER GROUND IMPROVEMENT WORKS**

As Managing Director of BAHRAIN FOUNDATION AND CONSTRUCTION CO. (BFCC) handled foundation works of approximately 500 projects of varying magnitude in terms of value and size like:

-  AL MOYYED Tower at Seef – 47 storey Tower
-  Bahrain World Trade Centre
-  Bahrain City Centre
-  Bahrain Financial Harbour
-  LULU ABRAJ
-  Bahrain Bay Development
-  GIIC Pelletizing Plant No.2
-  Replacement of Sitra Birdges
-  Proposed Isa Town Gate Interchange
-  Raffle city piling works
-  Four Season Hotel
-  ARCAPITA HQ
-  Seef flyover
-  Hamad Town Flyover
-  Fontana Bldgs.





**BENNY A. VARUGHESE**

(TECHNICAL MANAGER)

QATAR ENGINEERING LABORATORIES-BH (SINCE 2016)

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**EDUCATIONAL QUALIFICATION**

Bachelors Degree in Civil Engineering (First Class) from Government College of Engineering, Trivandrum, Kerala University, India

**PROFESSIONAL MEMBERSHIP/REGISTRATION**

Project Management Institute (PMI) : Member  
American Society of Civil Engineers (ASCE) : Member  
COEPP Registration : Category A.

**SPECIAL TRAINING**

PMP certification training  
Project Planning and Execution  
Labor Management  
Personnel Management and Finance  
Microsoft Office and MS Project  
FIDIC & JCT Contract Conditions

**PROFILE**

Graduate Civil Engineer with more than 25 years working experience in Bahrain. Gained good experience working with Consultants, Contractors and Clients in various capacities in the execution of Civil Engineering projects.

**SUMMARY OF PROFESSIONAL EXPERIENCE:**

**DESIGNATION/EMPLOYER/PERIOD**

**Resident Engineer (Consultant) (July 2014-Sept 2015)**

Ansari Engineering Services, Manama, Kingdom of Bahrain

Worked as Resident Engineer for a Housing Project consisting of 1037 multi-storied villa units and related infrastructure works in reclaimed islands in North Bahrain.

Responsible to ensure that the project team consisting of Civil Engineers, Architects, MEP Engineers, Surveyors, Site Inspectors and Document Controllers take action on all submittals, transmittals and correspondences in a timely manner and also the contractor maintains work quality complying with all site management plans.

Ensure that building and infrastructure coordinates are correctly established by surveyors at site

Review material submissions and obtain approvals from client.

Review Method Statements, Pre-qualification documents and Testing and Commissioning proposals of sub-contractors.  
Assist project team in reviewing Shop Drawings, Request For Information and preparation of Site Instructions.  
Coordinate with Head Office based Architects, Structural and MEP Engineers in resolving architectural and design related issues.  
Conduct Technical Meetings; participate in HSE, Design Coordination, Project Progress and Quality Review Meetings.  
Review contractor's valuations and variations and give comments to QS.  
Prepare monthly reports, write letters to main contractors and follow up work quality. Coordinate building works with Infrastructure Consultants.  
Communicate/correspond with Clients representatives, Contractor's Project Managers and other site based Consultants.

**Project Coordinator (Client)** (July 1993 –June 2014)  
Bahrain Airport Services (BAS), Muharraq, Kingdom of Bahrain

***(a) Major Projects***

Evaluate project requirements and prepare budget estimate & submit for inclusion in yearly budgets.  
Establish basic design requirements, prepare design brief and obtain fee proposals from Consultants and Quantity Surveyors (QS). Analyse proposals in detail and provide recommendations to Senior Management. Coordinate with Legal, Finance and other related departments and finalise their agreements.  
Conduct regular meetings with Heads of Department, Civil Aviation Affairs, QS and Consultants to review and finalise tender documents; issue tenders.  
Obtain Consultants and QS reports, critically analyse and provide recommendations to management for appointing contractors. Coordinate with all stakeholders and conclude Contract Agreements.  
Establish paths of communication among stakeholders; attend project progress and technical coordination meetings. Scrutinise material approvals, shop drawings, colour schemes and witness tests.  
Ensure procedures are followed in instructing and approving variations. Examine correctness of valuations and payment applications and certify payments. Prepare progress reports, cash flow charts, and board papers on a regular basis.  
Proper taking over of completed projects including As-built drawings and O&M manuals. Follow up snags during defects liability period.  
Settle Final Account meeting internal and external audit requirements.  
Maintain record of all projects including updating of drawings.

***(b) Minor Projects***

Prepare tender documents consisting of General Instructions, Particular Instructions, Drawings and Specifications for all other budgeted projects and maintenance works and obtain tenders.  
Coordinate all stages of work with stakeholders, supervise construction, take over completed projects and hand over to the concerned department.

**Some of the projects involved during the tenure are:** Construction of New Engineering Services Complex, Expansion of Bahrain International Airport Terminal, New Transit Restaurant & Kitchen, New Dilmun Lounge, Cargo Terminal Expansion, Catering Centre Modifications & Refurbishment, BAS Head Office Refurbishment, Arad Bay Infrastructure, Development of Departures Level@ Bahrain International Airport etc

**Construction Manager (Contractor) (Nov. 1989 - July 1993)**  
Crystal Pools, Manama, Kingdom of Bahrain

Responsible for managing all works undertaken by the company involved in building construction, maintenance, concrete repair works & swimming pool construction including progress, staff and material management.

**Production Engineer (Contractor) (Feb. 1987 - Nov. 1989)**  
Kerala Electrical and Allied Engineering Com. India

Responsible for preparing detailed design and shop drawings of Radial Gates and Vertical Lift Gates.

Assist shop floor works and site execution. Periodic visit sites and give assistance in solving site-specific issues.

Prepare progress reports, valuations and do correspondence with sub-contractors and Statutory Authorities.

**Civil Engineer / Quantity Surveyor (Contractor) (Oct. 1985 - Feb. 1987)**  
Galfar Engineering, Muscat, Sultanate of Oman

Project management and quality control of a group of multi-storied residential buildings, construction of cellars, bund walls, casting and erection of pipe supports & thrust blocks, oil storage facilities& equipment maintenance facilities including survey works for Petroleum Development of Oman (PDO).

These projects that were located in on-shore oil fields were completed meeting the stringent quality, safety and security requirements and procedures of PDO.

Worked as quantity surveyor for a School Building complex for Ministry of Education, Oman.

**Asst. Resident Engineer/Site Inspector (Consultants) (Jan. 1984 - Oct. 1985)**  
Food Industries Research & Engineering (Holland), Muttrah, Sultanate of Oman

*Project: Head Office, Two Distribution and Sixteen Collection Centres for PAMAP.*

Responsible for Project management of a multi storied Office Building and a Distribution Centre including survey works associated with infrastructure roads, drainage, water supply and external power cabling.

Responsible for checking and approving construction drawings, designs, material submissions, method statements etc and inspecting and approving all stages of civil works.

Responsible for quality control of road works associated with other Fifteen Collection Centres including road survey works.



Responsible for checking contractor's valuations, payment applications and prepare payment certificates.  
Monitor progress of works, and prepare progress report for all the sites.  
Assist Principle Resident Engineer in settling Variation Claims and Final Account of various contractors.

**Civil Engineer (Contractor) (March 1982 – Jan. 1984)**

Galadhari Engineering Works, P.O Box 355, Dubai, United Arab Emirates

*Project: RCC Water Reservoir (14 Million Gallons), Pump Station, Roads, and Water Pipelines*

*Consultants: TEBODIN Middle East*

Responsible for preparing method statements, working drawings, material approval submissions etc and obtain Consultant's approval.

Prepare Schedule of Works, Progress Reports, Valuations etc, in coordination with sub-contractors and obtain consultants approvals.

Prepare design and drawings for valve chambers, loading bays, retaining wall etc and obtain consultant's approval.

Associated with the project from site survey works, soil investigation, building construction to final testing, commissioning and handing over.

**Site Engineer (Contractor) (Nov. 1980 – Feb. 1982)**

Axis Construct Company, Dubai, United Arab Emirates

*Project: New Dubai Bank Building*

Supervision of super structure works and finishes like marble cladding, gypsum partitions, false ceiling, glazing and plumbing and sanitary works for a ten-storied Bank Building.

Assist the Project Manager in preparing and compiling variations claims.

*Project: Electrical Sub-stations*

*Consultants: Price Cardew & Rider*

Independently responsible for all works related to the construction of Three Primary Electrical Sub-Stations from inception to commissioning including coordination with consultants and sub-contractors.

**Junior Engineer (Consultants) (Apr.1980 – Nov. 1980)**

CPWD, India.

Prepare detailed design and drawings for multi-storied buildings, water tank, retaining wall etc for an airport complex in India.

**Graduate Trainee Engineer (Aug. 1979 – Apr. 1980)**

Kerala State Construction Corporation India

Gained very good experience in RCC in-situ pile casting, driving and testing, pre-stressed deck slab casting, stressing of girders, sand piling, construction of approach roads and embankments working for a bridge construction

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**RAJATH BABURAJ**  
*Operations Manager*



Operations Manager and Quality Engineer of Qatar Engineering Laboratories. Responsible for the company's compliance to ISO 9001 and ISO 17025.

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**ANDREAS KYRIACOU**  
*Consultant,*



**REGISTERED MEMBER OF CIVIL ENGINEER CONTRACTING / CONSULTANCY EPP/C2355/CE/02-A (BAHRAIN)**

After graduation and until today involved in all aspects of contracting such as generation of work , tendering ,negotiations and execution of projects , in various countries in the middle East ( Oman, Saudi Arabia , Iraq, Bahrain ,U.AE ) and in building and structural design work in Cyprus and Canada . The experience gained covers prefabricated building, conventional building ( concrete structure , block work etc. ), multi -storey building ,villas and compounds , landscaping , metal structures , ready mixed concrete (Jeddah) , airport (Seeb) , and harbor work ,(Janbu) and Roads ( UAE, Bahrain) and infrastructure (Sewerage, drainage , water , electrical and telephone).

From 1983 to 1990 carrier evolved as area manager of Charilaos Apostoliders (Bahrain) WLL. In 1991 joined as the constriction manger of Hafeera contracting co. WLL, in 1995 as the project manager of UTCC Wade Adams (LLC) work ,in 2002 as the project manager of Wade Adams (Bahrain ) W.L.L,in 2005 as the Project manager & Supervisor of Aref Sadiq Design Consultants ,

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**SREEKALA PRABHASHANKAR**  
*General Manager*



Working as client co-ordinator /Admin manager of Qatar Engineering Laboratories Responsible for commercial, technical and administrative matters.

Co –ordinating with clients / consultants directly for the business and technical matters  
Sorting out of routine and non routine technical problems pertaining in material testing.  
Overall supervision and control day to day functions of site works as well as the lab.  
Assigning testing schedule for lab assistants  
Make sure that all testing activities are carried out as per the Standard Test method.

**1990 – 2008**

Al Hoty Analytical services, Bahrain-joined the company as chemist and promoted as laboratory manager in 1998.

<u>LIST OF FEW MAJOR PROJECT ASSOCIATED</u>	<u>LIST OF FEW CLIENTS /CONSULTANTS DEALT WITH</u>		
<ul style="list-style-type: none"> <li>• ABRAJ AL LULU</li> <li>• ALBA POTLINE EXPANSION</li> <li>• ALMOAYED TOWER</li> <li>• AMWAJ ISLAND</li> <li>• BAHRAIN CITY CENTRE</li> <li>• BAHRAIN FINICAL HARBOR</li> <li>• BAHRAIN INTERNATIONAL CIRCUIT</li> <li>• BAHRAIN INVESTMENT WHARF</li> <li>• DIYYAAR AL MUHRAQ</li> <li>• DURRAT AL BAHRAIN</li> <li>• NEW PORT AND INDUSTRIAL AREA AT HIDD</li> <li>• NORTH BAHRAIN NEW TOWN</li> <li>• RIFFA VIEWS</li> </ul>	ALBA	BRAMCO.	NASS, MURRAY & ROBERTS
	A.A.NASS	CEBARCO -WCT	NATIONAL CONCRETE
	ACE-ALMOAYYED	COWI ALMOYED GULF	PANORAMA CONTRACTING
	AHMED MANSOOR	DELMON READYMIX	SIEMENS
	AL A'ALI	GIIC	SCOTT – WILSON
	AL HAMAD CONTRACTING	GPIC	SUNGWON CORPORATION
	AL STOM POWER	GPZ	TILKE
	ARMCON	GREAT LAKES DREDGE AND DOCK CO.	U.S.NAVY
	ASRY	HAJI HASSAN READYMIX	W.S. AKINS
	BAHRAIN FERRO ALLOYS	HYDER CONSULTING	WADE ADAMS
	BAPCO	ISMAIL KHONJI ASSOCIATE S	
	BECHTEL	MINISTRY OF WORKS & AGRICULTURE	
	BOSKALIS		



## **ASAD ULLAH KHAN**

**GEOTECHNICAL MANAGER (BAHRAIN & QATAR)**

22 years extensive experience in all geotechnical investigation (offshore and onshore) covering the inspection, quality control, evaluation and failure investigation in Pakistan, Bahrain, United Arab Emirates and Qatar. Well conversant with local, British as well as ASTM standards dealing with customers directly for business and technical clarification.

Have extensive experience in managing major projects for all types of Piling and Soil investigation and water well. Supervision and inspection of Ultrasonic Cross hole testing, Borehole geophysical logging, Pile Instrumentation, dry core drilling, inclination core drilling, wash boring, percussion drilling, wire line core drilling etc.

Well familiar with water pressure test, pressure meter test, meanard test, veansher test, un disturb soil sampling like UDS piston sampling, denison sampling, pitcher sampling, installing piezometer, standpipe, water well installation production well, injection well, monitoring well, aquifer monitoring test, cone penetration test, standard penetration test, permeability test etc.

### **MAJOR PROJECTS INVOLVED**

- ◆ FOR THE QUARRY & RESERVE
- ◆ OFFSHORE DRILLING WORKS FOR BRIDGES AND JETTIES
- ◆ TUBE WELLS
- ◆ PROJECTS FOR OIL & GAS FIELDS IN SINDH
- ◆ PILING WORKS
- ◆ FOR DAMS
- ◆ FOR CEMENT FACTORIES
- ◆ MOTORWAY & HIGHWAYS
- ◆ METRO
- ◆ POWER PLANTS
- ◆ STRUCTURES

• ABRAJ AL LULU	• RAFFLES CITY AT BAHRAIN BAY
• ALMOAYYED TOWER	• REPLACEMENT OF SITRA BRIDGE
• ALBA POTLINE EXPANSION	• REEF ISLAND
• AR2 – FOUR STAR HOTEL AT SEEF	• YBA KANOO DEVELOPMENT TOWER AT DIPLOMATIC AREA
• BAHRAIN CITY CENTRE	• SAMSUNG ENGINEER
• BAHRAIN FINANCIAL HARBOR	• ITHMAAR DEVELOPMENT CO.
• BAHRAIN TRADE CENTRE	• DILMUNIA HEALTH ISLAND PHASE 2
• CITY GARDEN BAHRAIN	• CHINESE EMBASSY
• MARINA WEST DEVELOPMENT	• SEA VILLAS @ DILMUNIA HEALTH ISLAND
• NORTH MANAMA CAUSEWAY PROJECT	• MEDCO
• PELLETIZING PLANT NO.2 AT GIIC HIDD	• QATAR INTEGRATED RAILWAY PROJECT (QIRP)
• PROPOSED ISA TOWN GATE INTERCHANGE	• QENFB Quay Wall & Basin Revetments



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**NARAYANAN SABU**  
**Laboratory Manager (Qatar)**



Extensive experience in geotechnical materials testing services covering the selection, testing, quality control, evaluation, failure investigation and inspection of construction materials

Project Manager for several contracts for Fugro Middle East , United Arab Emirates oil field comprising of geotechnical investigations and Materials testing.

***Career History : - 1977 to 2008***

Fugro Peninsular, Doha, Qatar - Laboratory Manager

Fugro Middle East, Abu Dhabi, U.A.E.- Field supervisor

Gulf Testing Laboratory, Dubai - Field supervisor responsible for field and laboratory testing of geotechnical and construction materials.

Gibca Limited, Sharjah - Technical supervisor responsible for control of construction materials in particular Asphalt and soils on site.

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**V. SIVANANTHAM.**  
**Laboratory Manager (Bahrain)**



Thirteen years extensive experience in all fields of material testing and geotechnical investigation covering the inspection, quality control, evaluation and failure investigation. Well conversant with local, British as well as ASTM standards dealing with customers directly for business and technical clarification.

Have extensive experience in managing major projects for all types of Piling and Soil improvement.

Supervision and inspection of Ultrasonic Crosshole testing , Borehole geophysical logging: mechanical caliper , pile Integrity test , High- Strain Dynamic test, Static, Axial, Compressive , Tensile and Lateral load test , Pile Instrumentation etc.

Well familiar with Nuclear Density gauge operation and safety aspects Has conducted in-House Nuclear density training sessions related to operation and job risk analysis to several batch of technicians

***1994 to 2010***

Project engineer for several contracts of Al Hoty Analytical service /Bahrain Foundation Construction Company (Managed Geotechnical investigations, material testing, and pilling)

**MAJOR PROJECTS INVOLVED**

❖ ABRAJ AL LULU	❖ MARINA WEST DEVELOPMENT
❖ AL MOYYED TOWER	❖ NORTH MANAMA CAUSEWAY PROJECT
❖ ALBA POTLINE EXPANSION	❖ PELLETIZING PLANT NO.2 AT GIIC HIDD
❖ AR2 – FOUR STAR HOTEL AT SEEF	❖ PROPOSED ISA TOWN GATE INTERCHANGE
❖ BAHRAIN CITY CENTRE	❖ RAFFLES CITY AT BAHRAIN BAY
❖ BAHRAIN FINANCIAL HARBOR	❖ REPLACEMENT OF SITRA BRIDGE
❖ BAHRAIN TRADE CENTRE	❖ REEF ISLAND
❖ CITY GARDEN	❖ YBA KANOO DEVELOPMENT TOWER AT DIPLOMATIC AREA



**QATAR ENGINEERING LABORATORIES (QEL)**

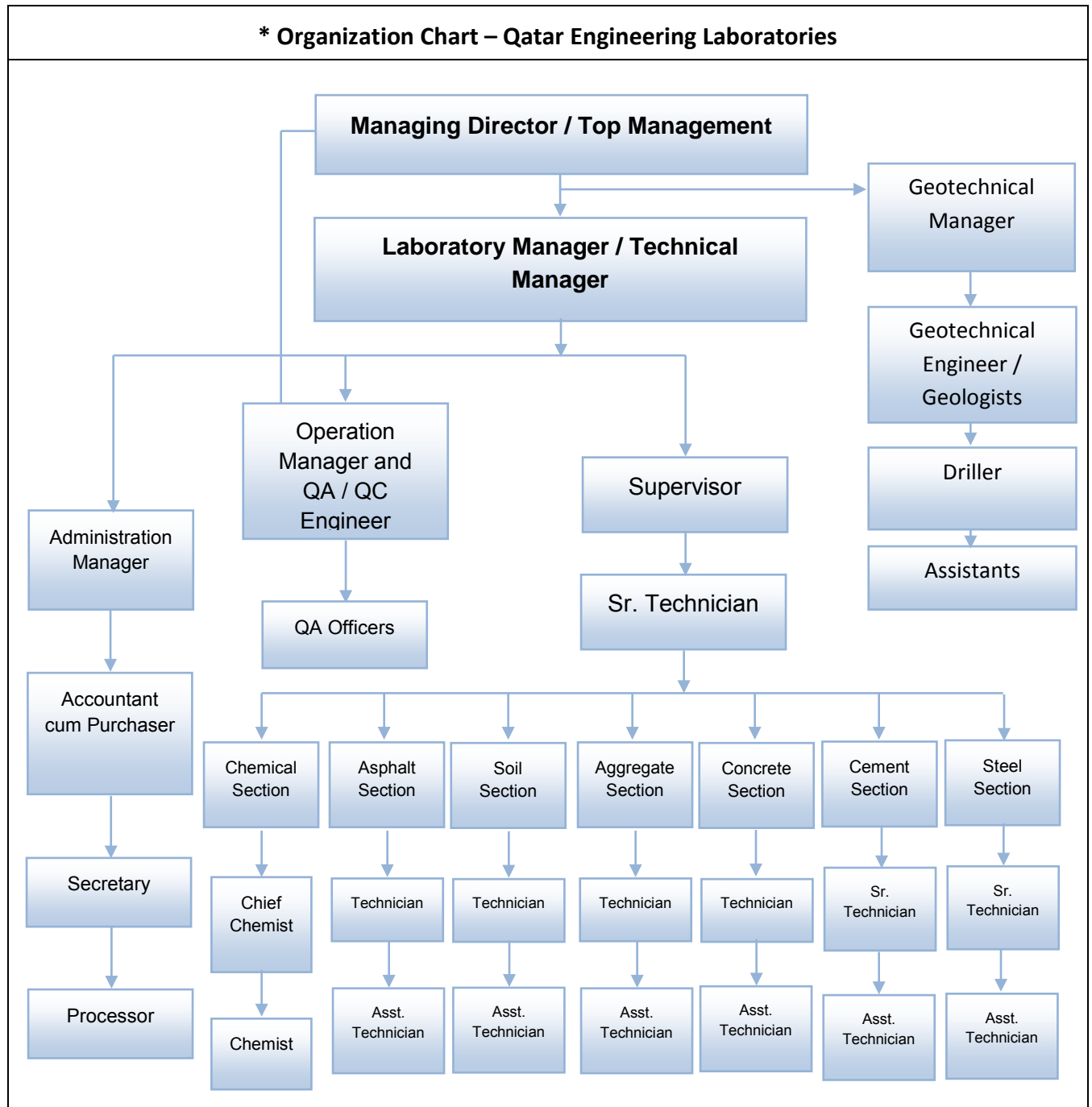
*PRE-QUALIFICATION DOC.*

# Organization Chart

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**\* Organization Chart – Qatar Engineering Laboratories**



**Note :-**

- Technical Manager is appointed as Deputy Quality Engineer and Quality Engineer is nominated as Deputy Technical Manager. QA / QC Engineer works as a Quality Engineer.
- Quality Engineer is having direct access to the Top Management for the effective implementation of ISO/IEC 17025 in the **Qatar Engineering Laboratories - QEL**.



QATAR ENGINEERING LABORATORIES (QEL)

PRE-QUALIFICATION DOC.

# Services (Main field of Activities)

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## **GEOTECHNICAL & MATERIAL**

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## 1. **GEO TECHNICAL SERVICES**

- Site Investigations (Both On – Shore & Offshore)
- Plate Load Testing
- Zone Testing
- Topographic & Bathymetric Survey

## 2. **MATERIALS CONSULTANCY**

### ***QUARRY INVESTIGATIONS***

- Experienced Geologist and Engineers are available who are capable of evaluating the potential new sources and assessment of the existing quarries.

### ***AGGREGATE EVALUATION***

- Expert opinion can be provided on the type of the aggregate, suitability of the aggregate for its intended usage etc.

### ***MATERIALS FAILURE INVESTIGATION***

- Detailed investigations can be undertaken to establish the cause / causes of material failure or deterioration or other distress. Moreover if found to be necessary detailed test programme can be prepared and implemented, results analyzed to arrive at the fruit cause of the problems and to suggest remedial measures.

### ***BUILDING CONDITION SURVEY***

- Condition survey of the existing structures can be undertaken by performing various tests for insurance purpose, structural evaluation, fire damage assessment, deterioration assessment etc.



### 3. SPECIALISED TESTINGS

Sonic pile testing (PIT)	:	Integrity testing of precast and cast in-situ concrete Piles using Seismic echo technique.
Dynamic Pile Testing (PDA)	:	Analysis of pile and hammer parameters by measurements taken during driving, with predictions of Pile bearing capacity.
Geophysical testing	:	Seismic refraction, cross-hole sonic logging. Electrical resistivity, thermal conductivity, Microgravity survey, electromagnetic inductive Conductivity measurements, vertical magnetic Gradient surveys, ground probing radar and high speed pavement radar.

### 4. CHEMICAL LAB SERVICES

Available Experienced and highly qualified team for chemical analysis of any type of material including Soil, Aggregate, Concrete, Cement, Microsilica, PFA, Water & Waste Water to suit the client's requirements.

### 5. SOIL

#### ***Classification Tests***

Classification for Engineering purposes

Moisture content

Bulk and dry densities

Specific gravity (particle density)

Liquid limit, plastic limit and plasticity index

Linear shrinkage Characteristics

Particle size distribution (sieve analysis and hydrometer)

Chemical analysis (including pH, sulphates, chloride and carbonate content)



### ***Compaction Testing***

Maximum and minimum dry densities of granular soil  
Determination of dry density / moisture content relationship (Proctor compaction using 2.5 Kg and 4.5 Kg or vibrating rammers)  
California Bearing Ratio (CBR), soaked or unsoaked  
In -situ density (nuclear and sand replacement)

### ***Strength Testing***

Unconfined compressive strength  
Triaxial Compression Test (consolidated / unconsolidated, drained / undrained, with or without pore pressure measurement)  
Shear strength by direct shear box apparatus (60x60mm and 300x300mm samples)

### ***Settlement / Permeability Testing***

One-dimensional consolidation properties  
Swelling characteristic  
Permeability (constant and falling head)

## **6. ROCK TESTING**

Uniaxial compressive strength  
Deformability of rock core (Young's modulus and Poisson's ratio)  
Indirect tensile strength of intact rock core specimens  
Point load strength  
Triaxial testing  
Slake durability index  
Compression and shear wave velocities  
Moh's Scratch Hardness  
Petrographic Examination  
Rock Grading  
Drop Breakage index tests for rock armour  
Length to thickness ratio test for rock armour



**7. AGGREGATES**

Moisture content  
Unit weight and voids  
Sieve analysis of fine and coarse aggregates  
Clay lumps and friable particles  
Specific gravity (particle density)  
Water absorption  
Flakiness index  
Elongation index  
Sand equivalent value  
Lightweight particles  
Aggregate crushing value (ACV)  
Ten per cent fines value (TFV)  
Aggregate impact value (AIV)  
Resistance to degradation by Los Angeles Abrasion  
Potential alkali-silica reactivity (Chemical method, mortar bar method, Petrographic Examination)  
Soundness (sodium sulfate or magnesium sulfate)  
Shell content  
Organic matter content  
Chemical analysis (including sulfate and chloride contents)  
Petrographic examination  
Drying shrinkage characteristics

**8. CEMENT**

Initial and final setting time  
Fineness  
Soundness  
Heat of hydration  
Compressive strength  
Chemical analysis  
Alkali content

**9.** PFA and Micro silica full testing to BSEN/ASTM standard.

**10 GRG COMPOSITE**

Flexural Strength  
Impact Resistance  
Hardness  
Coeff. of linear thermal expansion  
Humidified deflection  
Surface burning characteristic  
Behavior at 750°C  
Nail Pull resistance





## **11. FRESH CONCRETE**

Mix design  
Temperature monitoring  
Slump test  
Compacting factor  
Air content  
Bleeding  
Density  
Cement content  
Aggregate content  
Water content  
Chemical analysis

## **12 HARDENED CONCRETE**

- Strength Testing (compressive, Tensile, flexural) Cubes, cylinders and cores, Precast units (Blocks, bricks, flags, kerbs, edgings, terrazotiles and quadrants)
- Durability studies
- Water absorption
- Initial surface absorption (ISAT)
- Water permeability (DIN)
- Porosity (RILEM)
- Rapid determination of chloride ion permeability
- Building Investigations
- Concrete coring, with or without compressive strength
- Concrete dust sampling
- Chemical analysis (including sulfate and chloride contents)
- Bond Strength (concrete, mortar)
- Surface hardness using rebound hammer
- Hammer sounding surveys
- Carbonation depth surveys
- Cover meter depth to reinforcement surveys
- Half cell potential surveys (reinforcement corrosion potential)
- Ultrasonic pulse velocity measurements (PUNDIT), concrete quality, crack and void detection
- Crack monitoring and investigation
- Radar surveys



### **13 CERAMIC & STONE TILES**

Bond strength (pull-off test)  
Dimension  
Flatness, straightness of sides, rectangularity  
Water absorption / Porosity  
Modulus of rupture / Flexural strength  
Compressive strength  
Moh's scratch hardness  
Resistance to thermal shock  
Chemical resistance  
Abrasion resistance

### **14 STEEL**

Tensile, yield and Elongation  
Bend and Rebend  
Chemical analysis  
Epoxy coating thickness  
Welder and Welding Procedure qualification tests to ASME IX and AWS

### **15 ASPHALT**

Marshall Stability  
Binder content / mix analysis  
Bulk density  
Theoretical maximum specific gravity  
Air voids  
Coring

16. Thermoplastic Road marking material  
Composition and physical properties to BS and EN

17. NDT

Radiography  
DP  
MPI  
UT



**QATAR ENGINEERING LABORATORIES (QEL)**

*PRE-QUALIFICATION DOC.*

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## **BATHYMETRIC SURVEY**

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## **Bathymetric survey-General Method Statement**

### **Positioning System:**

DGPS System will be calibrated at site using “Control Point” provided by the Ministry of Housing, Survey Directorate (both Vertical and Horizontal).

### **Soundings:**

Soundings will be recorded using echo-sounder which is barcheck calibrated within the survey area.

### **Tidal Measurement**

Automatic Tide gauge will be installed to sea bottom for continuous monitoring of Tide during the Survey Period.

### **Data Logging:**

The Echo Sounder will be interfaced with the Computer navigation and position fixing system so that logging of depth and position occurs simultaneously.

### **Mapping and Reporting**

- (a) Plan drawing of the bathymetric survey will be prepared using Auto CAD version on 1:1000 Scale. Levels will be reduced to Bahrain National Survey Datum (**NSD**) and Admiralty Chart Datum (**CD**)
- (b) Actual Data will be presented in a tabular ASCII form with Horizontal and Vertical Readings. Horizontal grid will be based on Bahrain National Survey Datum (AIN AL ABD 1970 DATUM UTM ZONE 39) and the Vertical w.r.t NSD and CD.

### **Photographs**

Typical Photographs taken during the Survey carried out in one of the previous projects is attached.





**LIST OF MAIN EQUIPMENT S**

- ECHO SOUNDER
- DGPS
- AUTOMATE TIDE GAUGE

**ECOSOUNDER**



WORK IN PROGRESS

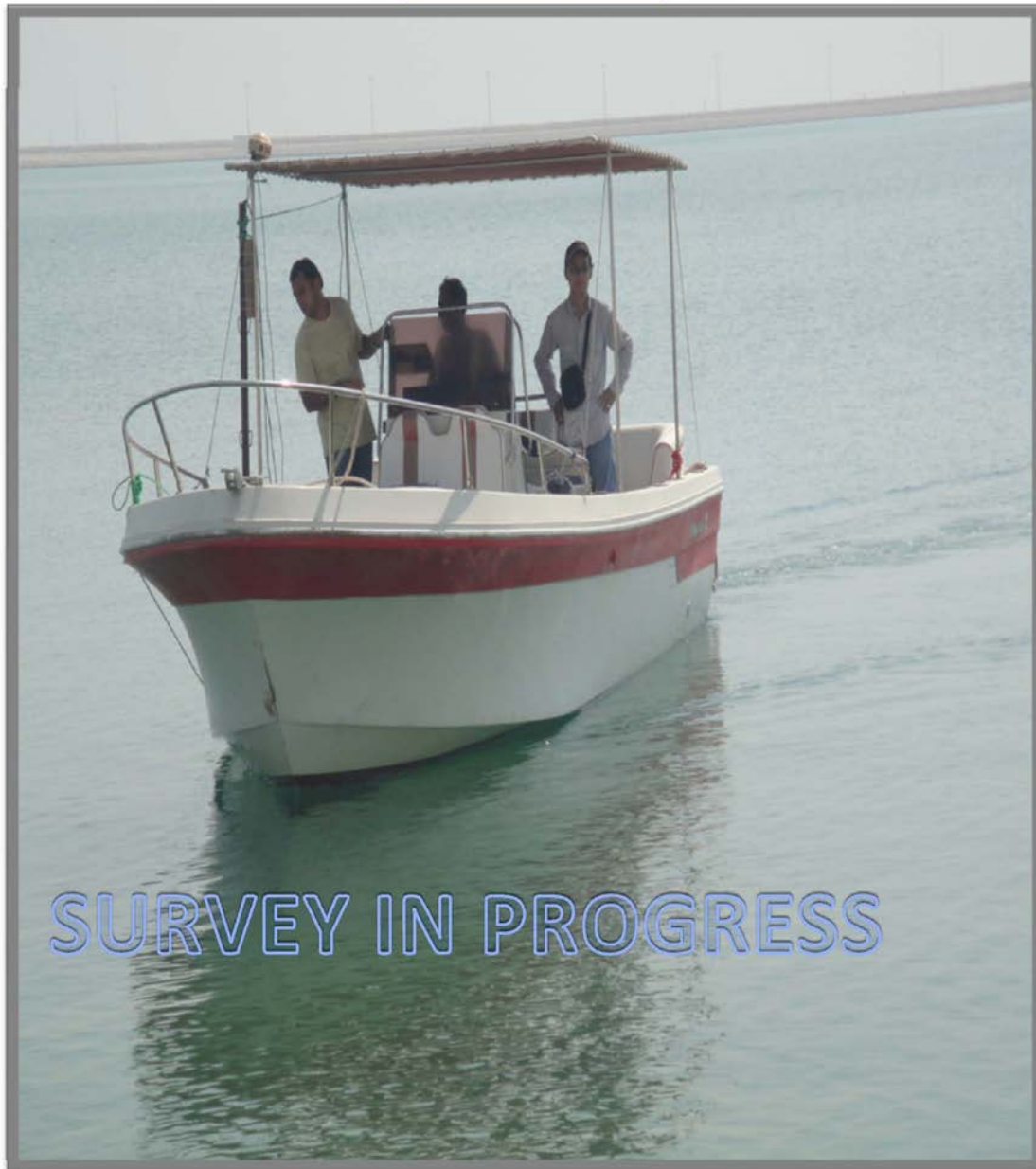


FIXING OF ECOSOUNDER TO SURVEY VESSEL



WORK IN PROGRAS

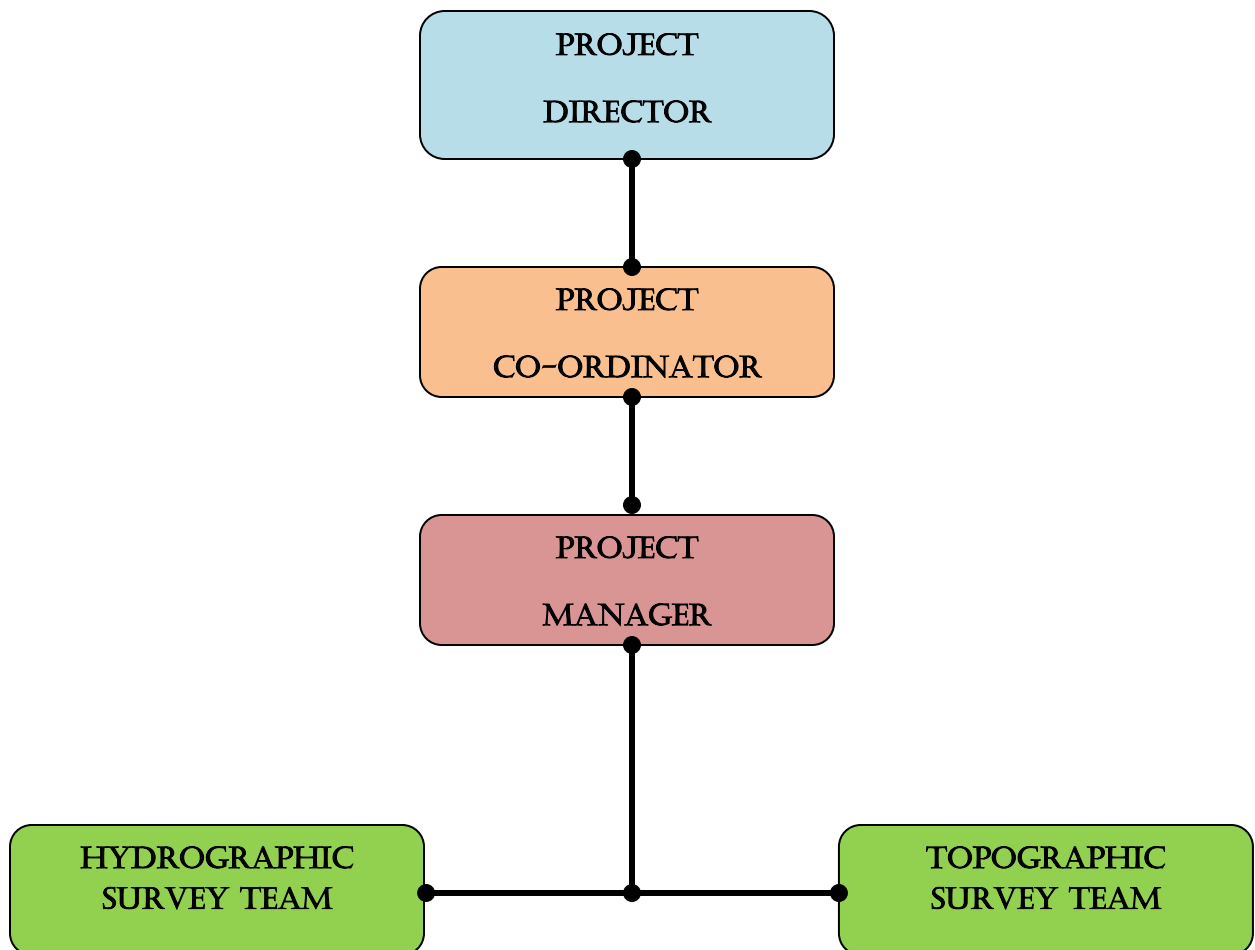
**SURVEY IN PROGRESS**





## QEL- ORGANIZATION CHART

### SURVEY







**QATAR ENGINEERING LABORATORIES (QEL)**

*PRE-QUALIFICATION DOC.*

# Equipment list

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## LIST OF EQUIPMENT FOR GEO TECHNICAL INVESTIGATION

<b>Make /Model ➡</b>	<b>DANDO Mk2</b>	<b>Unit /Qty ➡</b>	<b>2 Units</b>
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***Dando 2000 investigator MK2 Drilling Rig With rotary attachment with all accessories like shell and auger tools casing equipments, standard penetration testing equipment, U4 sampling tubes Shelby etc.***

### **GENERAL SPECIFICATIONS**

Engine Power	18 hp (13kW) @ 1800 rpm
Winch (Single Line Pull)	<b>2000 kgf</b>
Drilling Depths and Diameters	<b>6 inch to 250ft (150mm) (75m) 15 inch to 150ft (380mm) (45m)</b>
Derrick Working Height under sheaves	<b>5.2m</b>
Overall Height derrick erected	<b>6.65m</b>
Derrick loading	<b>6000kg</b>
Travelling Dimensions - length	<b>7.5m</b>



**OFFSHORE INVESTIGATION IN BAHRAIN – QATAR BAHRAIN CAUSEWAY PROJECT**



Make /Model ➡

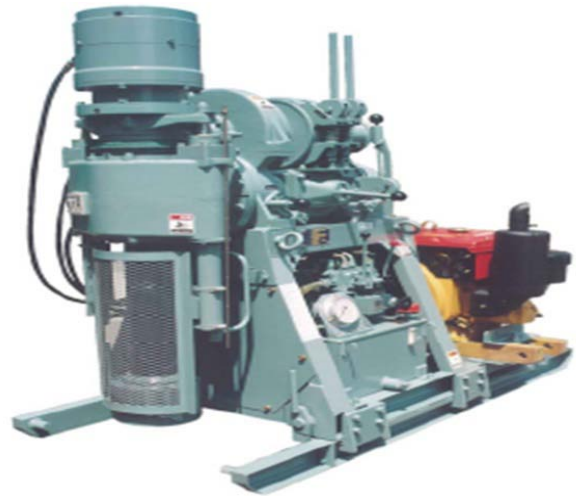
TOHO

Unit /Qty ➡






2 Units

**TOHO Boring Machine Model D2k92-p2 With all accessories**

SPECIFICATIONS	D2-K92P2
DRILLING CAPACITY	*Depth 250 m/BW, 200 m/NW, 110 m/HW
SWIVEL HEAD	
Type	Twin cylinder, Oil-hydraulic feed system, Spindle type
Angle Range	360°
Operation Side	**(A) Right (B) Left
I.D pf Spindle	92mm
Stroke of Spindle	500mm
Revolving Speed of Spindle	60 : 180 : 355 Reverse- 65 rpm
Max. Spindle Torque	1.18kN-m (120 kgf-m)
Max. Thrust Capacity	21.5kN (2200kgf) at Oil-hydraulic pressure 7.4MPa (75kg/cm <sup>2</sup> )
Max. Balance Capacity	28.8kN (2900kgf) at Oil-hydraulic pressure 7.4MPa(75kg/cm <sup>2</sup> )
Pod Chuck	Manual, Three(3) jaw type ***Oil-hydraulic four(4) jaw type
Main Clutch	Single plate, dry disc type
Transmission	Sliding gear, Three(3) speed and the reverse one(1) speed



ONLAND INVESTIGATION - HIDD BAHRAIN

Dynamic Cone Penetro meter with all accessories	
In-Situ CBR Equipment With all accessories	
Plate bearing test equipment with all accessories including dial gauges, datum bars, square and circular plates of various diameters etc	
Load frame and calibrated hydraulic jacks up to 1000 ton (10000kN) Capacity for zone testing, pile load testing etc.	 
Electrical Resistivity unit	
Thermal Resistivity Testing unit	





# **Major completed & On-going projects**

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**BATHYMETRIC SURVEY  
GEOTECHNICAL SERVICE &  
MATERIAL TESTING**

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## QEL - BAHRAIN BATHYMETRIC SURVEY PROJECT LIST

CLIENT	PROJECTS	LOCATION
ARABIAN SUGAR CO.	BATHYMETRIC SURVEY FOR THE JETTY AT BIIP, HIDD,	HIDD
AL NAMAL CONSTRUCTION CO.	BATHYMETRIC SURVEY FOR THE JETTY AT HIDD,	HIDD
FINE FOODS	BATHYMETRIC SURVEY @ MINASALMAN	MINASALMAN
AL JAZEERA SHIPPING CO.	BATHYMETRIC SURVEY @ MINASALMAN	MINASALMAN
AL JAZEERA SHIPPING CO.	- JETTY @ MINASALMAN	MINASALMAN
AL JAZEERA SHIPPING CO.	BATHYMETRIC SURVEY OF JETTY AT MINASALMAN PLOT 16 -03 -0002	MINASALMAN
FINE FOODS	BATHYMETRIC SURVEY OF JETTY AT MINASALMAN PLOT 16-03-0025	MINASALMAN
NASS CONTRACTING CO.	BATHYMETRIC SURVEY @ JIDDAH ISLAND	JIDDAH ISLAND
MESAIEED POWER PLANT	UM SAEED QATAR	QATAR
G.P.ZACHARIADES OVERSEAS LTD.	BATHYMETRIC SURVEY @ JIDDAH ISLAND	JIDDAH ISLAND
CHINA HARBOUR	PIPELINE -OFFSHORE SURVEY (NEW PORT)	QATAR
AL JAZEERA SHIPPING CO.	BATHYMETRIC SURVEY AT NR.SITRA IND.AREA	SITRA
KOOHEJI CONTRACTORS	BATHYMETRIC SURVEY OF JETTY @ RAS WZAYAID	RAS WZAYAID
AL WARDI MARINE SERVICE	BATHYMETRIC SURVEY AT HIDD JETTY (HD SD 5) LICENSE NO. POL014	HIDD

QEL - BAHRAIN PROJECT LIST		
CLIENT	SITE INVESTIGATION PROJECTS	LOCATION
ITHMAAR DEVELOPMENT CO.	DILMUNIA HEALTH ISLAND PHASE 2	MUHARRAQ
ITHMAAR DEVELOPMENT CO.	DILMUNIA HEALTH ISLAND PHASE 1	MUHARRAQ
HASSAN JUMA BACKER TRADING	COMMENT ON TANK FOUNDATION	QATAR
ITHMAAR DEVELOPMENT CO.	BAHRAIN AFFORDABLE HOUSING PPP AT SOUTH BUHAIR	SOUTH BUHAIR
ATKINS	COMMENT ON FOUNDATION DESIGN	SEGAYYA
ARABIAN SUGAR CO.	BATHYMETRIC SURVEY FOR THE JETTY AT BIIP, HIDD,	HIDD
ITHMAAR DEVELOPMENT CO.	NORTH BAHRAIN NEW TOWN SOCIAL HOUSING (PPP) NBNT	NBNT
H Q CONSTRUCTION CO.	PROPOSED 4 STAR HOTELON PLOT # 03043125 AT JUFFAIR	JUFFAIR
MIT @ DOC	SURVEY OF VOLUME OF MATERIAL IN THE STOCK PILE @ REEF ISLAND	REEF ISLAND
MIT @ DOC	FASHT AL ADHM - INVESTIGATION ALONG THE PROPOSED CHANNEL ROUTE	FASHT AL ADHAM
AL NAMAL CONSTRUCTION CO.	BATHYMETRIC SURVEY FOR THE JETTY AT HIDD,	HIDD
AL KOOHEJI ELECTRICALS	66 KV S/S @ SAKHIR AIR BASE - MEASURMENT OF EARTH ELECTRICAL RESISITIVITY - EARTHING STUDY	SAKHIR AIR BASE
PANORAMA CONTRACTING AND ENG.SERV.	ELECTRICITY AND WATER AUTHORITY PROJECT DIRECTORATE WATER SUPPLY FAC. @ SAMAHIJ BL.& PUMPING STN.	SAMAHIJ
AL HANDASAH CENTRE	FOR THE PROPOSED 3 STOREY BNH CAR SHOP @ SALMABAD	SALMABAD
ZAHD MODERN PROPERTY	PROPOSED MULTI STOREY BLDG. AT JUFFAIR - MODERN TOWER	JUFFAIR
FINE FOODS	BATHYMETRIC SURVEY @ MINASALMAN	MINASALMAN
AL JAZEERA SHIPPING CO.	BATHYMETRIC SURVEY @ MINASALMAN	MINASALMAN
AL HEDAYA -	PROPOSED SHOPS & APARTMENTS @ SUGAYYA	SUGAYYA
AL JAZEERA SHIPPING CO.	- JETTY @ MINASALMAN	MINASALMAN
AL JAZEERA SHIPPING CO.	BATHYMETRIC SURVEY OF JETTY AT MINASALMAN PLOT 16 -03 -0002	MINASALMAN
FINE FOODS	BATHYMETRIC SURVEY OF JETTY AT MINASALMAN PLOT 16-03-0025	MINASALMAN
DOWN TOWN CONSTRUCTION	DIVERSION OF WATER TRANSMISSION PIPE LINE ON AL' FATEH HWY & KING FAISAL HWY @ NR.MANAMA CAUSEWAY	KING FAISAL HWY
NASS CONTRACTING CO.	BATHYMETRIC SURVEY @ JIDDAH ISLAND	JIDDAH ISLAND
NASS CONTRACTING CO.	SOIL INV. @ PROPOSED CONSTRUCTION OF JETTY @ JIDDAH ISLAND	JIDDAH ISLAND
G.P.ZACHARIADES OVERSEAS LTD.	BATHYMETRIC SURVEY @ JIDDAH ISLAND	JIDDAH ISLAND
G.P.ZACHARIADES OVERSEAS LTD.	SOIL INV. @ PROPOSED CONSTRUCTION OF JETTY @ JIDDAH ISLAND	JIDDAH ISLAND
AL JAZEERA SHIPPING CO.	BATHYMETRIC SURVEY AT NR.SITRA IND.AREA	SITRA
KOOHEJI CONTRACTORS	BATHYMETRIC SURVEY OF JETTY @ RAS WZAY Aid	RAS WZAY Aid
ERA PROJECTS (TAHERA MAHMOOD ABBAS)	PROPOSED 12 STOREY BLD. AT EXHIBITION RD.HOORA - SOIL INVESTIGATION.	HOORA
SAMSUNG ENGINEERING	MUHARRAQ STP & FLOW CONVEYANCE - SOIL INV.	MUHARRAQ
SAMSUNG ENGINEERING	MUHARRAQ STP & FLOW CONVEYANCE - SOIL INV.- DEEP BH	MUHARRAQ
NASS CONTRACTING CO.	ASRY QUAY WALL INFRASTRUCTURE CONTRACT	ASRY
PANORAMA CONTRACTING AND ENG.SERV.	WATER SUPPLY FACILITIES AT AL AREEN - COMMENT ON DESIGN	AL AREEN
DOWN TOWN CONSTRUCTION	WATER SUPPLY FACILITIES AT AL AREEN AND AL SALMAN DEV.AT HAMAD TOWNCOMMENT ON THE CONSTRUCTION OF CHAMBERS AT THE SITE	HAMED TOWN
NASS CONTRACTING CO.	ASRY QUAY WALL INFRASTRUCTURE CONTRACT - SOIL INV.	ASRY
AREF SADEQ DESIGN CONSULTANTS	PROPOSED HEAD OFFICE AND DISTRIBUTION FACILITY - SOIL INV.	
DESIGN HOUSE	NEW BUILDING PROJECTS AT AL DAIH IN SEEF DIST	SEEF

QEL - BAHRAIN PROJECT LIST		
CLIENT	SITE INVESTIGATION PROJECTS	LOCATION
AL HANDASAH CENTRE	PROPOSED 7 STOREY BUILDING AT HIDD	HIDD
NASS CONTRACTING CO.	ASRY INFRASTRUCTURE DEVELOPMENT – GANTRY -01 - SOIL INV.	ASRY
PANORAMA CONTRACTING AND ENG.SERV.	WATER TRANSMISSION DEVELOPMENT PROJECT 2009-2012 - COMMENT ON THE DESIGN OF TANK FOUNDATION	-
KINGDOM PROJECTS ( MANARA)	PROP.HOUSING DEV. AT HAMALA - JANAYIN AL HAMALA SURVEY AND STUDIES	HAMALA
UNIVERSITY OF BAHRAIN	NEW ENGINEERING CAMPUS - SOIL INV.	NEC
PANORAMA CONTRACTING AND ENG.SERV.	NEW AL DUR FORWARDING STN. SOIL INV.	AL AREEN
WAHAT AL MUHARRAQ (MANARA REAL )	WAHAT AL MUHARRQ PHASE 2- NR. GALALI 180 NOS.3 STOREY VILLAS	GALALI
PANORAMA CONTRACTING AND ENG.SERV.	WATER TRANSMISSION DEVELOPMENT PROJECT (2009- 2012	AI DOOR
PANORAMA CONTRACTING AND ENG.SERV.	PROJECT AT RIFFA	RIFFA
URBAN VISION	BO - QUAH	QUAH
PANORAMA CONTRACTING AND ENG.SERV.	DRILLING OF EARTH HOLE	ALBA
CHINESE EMBASSY	PROPOSED EMBASSY BLDG. FOR THE PEOPLE'S REP.OF CHINA - BAHRAIN @ SEEF	SEEF
AL KOOHEJI ELECTRICAL CONTRACTORS	DRILLING OF DEEP BH AT S/S SAKHIR	SAKHIR
DOWN TOWN CONSTRUCTION	WATER SUPPLY FACILITIES AT AL AREEN AND AL SALMAN DEV.AT HAMAD TOWN BL. & DISTRIBUTION STNS.	HAMED TOWN
H.E.SH.MOHAMMED BIN ISA BIN SALMAN AL KHALIFA/ RIYADH AL	PROPOSED SHOWROOM @ TUBLI	TUBLI
NASS CONTRACTING CO.	BASREC FACILITIES EXPANSION PROJECT - BATHYMETRIC SURVEY	BDF
AL WARDI MARINE SERVICE	BATHYMETRIC SURVEY AT HIDD JETTY (HD SD 5) LICENSE NO. POL014	HIDD
DR.MUSTAFA ALI MOHAMED AL SAYED	COMMERCIAL BUILDING AT WEST RIFFA - SOIL INVESTIGATION	WEST RIFFA
KINGDOM PROJECTS W.L.L	PROPOSED HAMALA MALL - SOIL INVESTIGATION	HAMALA
MAZEN ALUMRUN (MACE)	PROPOSED SERVICE STATION AT ASKER - SOIL INVESTIGATION	ASKER
MAZEN ALUMRUN (MACE)	PROPOSED INFINITY SHOWROOM FOR M/S Y.K ALMOAYYED & SONS AT SITRA - SOIL INVESTIGATION	SITRA
IMPLENIA CONSTRUCTION LTD	MUHARRAQ SEWAGE TREATMENT PLANT AND FLOW CONVEYANCE	MUHARRAQ
MINISTRY OF WORKS / DAR AL HANDASAH	C53700, PRE-CONTRACT CONSULTANCY SERVICES FOR HAMAD TOWN – TUBLI WPCC TRUNK SEWER GROUND INVESTIGATION	HAMED TOWN
ISMAIL KHONJI ASSOCIATES CONSULTING ENGINEERS,	REFURBISHMENT OF MR. FOUAD EBRAHIM KANOO VILLA AT BURHAMA	BURHAMA
MINISTRY OF HOUSING	NBNT: AL MEDINA AL SHAMALIYA – ISLAND 14 FOUNDATION DESIGN	SHAMALIYA
MINISTRY OF HOUSING / AL HASSANAIN CO	NBNT: AL MEDINA AL SHAMALIYA – ISLAND 14	SHAMALIYA
ABDUL HADI AL AFOO	MACKINTOSH TEST	CANCELLED
NASS CONTRACTING W.L.L	ASRY BASIN PROJECT INFRA STRUCTURE CONTRACT LIGHT MAST NO. 18	ASRY
GREAT LAKES DREDGE & DOCK CO	BDF NAVAL BASE - HIDD	HIDD
MINISTRY OF HOUSING /AL DOOR EXCAVATION AND BUILDING	PROPOSED APARTMENTS AND VILLAS AT SALMABAD	SALMABAD
PANORAMA CONTRACTING AND ENG.SERV.	COMMENT ONLY WATER STATIONS ELEVATED SERVICE RESERVOIRS	VARIOUS
SAMSUNG ENGINEERING CO. LTD	FILL MATERIAL QUALITY INVESTIGATION OF THE PLOT AT HIDD	HIDD
MOH-DAR AL-BAHRAIN	BORE HOLES	BUHAIR
PANORAMA CONTRACTING AND ENG.SERV.	CAVITY SURVEY	RIFFA
MOTT MACDONALD LIMITED	G-1072-TUBLI - BOLCK 711 & ROAD 1135 ENVIRON	TUBLI
MOTT MACDONALD LIMITED	ABU SHAHEEN AND DEEBLE AVENU	RIFFA



QEL - BAHRAIN PROJECT LIST		
CLIENT	SITE INVESTIGATION PROJECTS	LOCATION
MOTT MACDONALD LIMITED	NOON AVENUE RIFFA	RIFFA
DOWN TOWN CONSTRUCTION CO. W.L.L	CONSTRUCT WATER TRANSMISSION PIPELINE FROM MINA SALMAN TO SALMABAD FS WITH BRANCH TO BUQUWAH DS (PACKAGE P3)	MINASALMAN
ITHMAAR DEVELOPMENT CO.	SEA VILLAS @ DILMUNIA HEALTH ISLAND	MUHARRAQ,
DOWN TOWN CONSTRUCTION	SOIL INVESTIGATION	AI DOOR
AL MOAYYED CONTRACTING	7 NOS OF RESIDENTIAL APARTMENTS TYPE –AL AT POLICE FORT,	MANAMA
KOOHEJI CONTRACTORS	11 STORY APPARTMENT BUILDING @AMWAJ	AMWAJ
Ms. SAWSAN MAHMOOD TAQI RIDHA	VILLA AT AMWAJ-PLOT NO. 2020, AMWAJ ISLAND	AMWAJ
ANSARI ENGINEERING SERVICES	PROPOSED DEVELOPMENT OF RESORT AND RESIDENTIAL AREA (AL NAKHEEL)	JANABIYAH
OMRANIA ASSOCIATES	AL GOSAIBI OFFICE BUILDING	HOORA
PANORAMA CONTRACTING AND ENG.SERV.	CAPPING OF WATER WELL	HOORA
PANORAMA CONTRACTING AND ENG.SERV.	COMMENT ON DESIGN RECOMMENDATON OF WATER TANK	WEST RIFFA
FUTURE ENGINEERING	SOIL INVESTIGATION -MULTY STOREY BUILDING	GUDAIBIYA
PANORAMA CONTRACTING AND ENG.SERV.	SOIL INVESTIGATION	WEST RIFFA
AL KOOHEJI ELECTRICAL CONTRACTORS	NORTH MANAMA CAUSEWAY	NORTH MANAMA
MOHAMED SALAHUDEEN (MSCB)	ZAYANI SHOW ROOM	SITRA
SAMSUNG ENGINEERING CO. LTD	MUHARAQ STP-AREA SETTLEMENT,SHAFT 8,9,12	MUHARAQ
MWH KHONJI	AMAS SEWAGE TREATMENT PLANT	NBNT
ITHMAAR DEVELOPMENT CO.	DILMUNIA SEA VILLAS -CONSULTANY SERVICE FOR GROUND IMPROVEMENT-	MUHARAQ
AL HEDAYA -	5-STOREY BUILDING AT SUGAYYA	SUGAYYA
GREAT LAKES DREDGE & DOCK CO	ZONE LOAD TEST	MUHARAQ
M.T.Mathew	MULTI-PURPOSE HALL &5-STOREY BUILDING	E.Riffa
SAMSUNG ENGG	SHAFT 34,35&36	MUHARAQ
PANORAMA CONTRACTING AND ENG.SERV.	PROOF DRILLING AND CAVITY SURVEY	RIFFA
DHEYATAWFEEQI	SOIL INVESTIGATION	AIRPORT
MSCEB	SOIL INVESTIGATION	UMAL HASSAM
PANORAMA CONTRACTING AND ENG.SERV.	ADDUR EATH HOLE DRILLING	Addur
PANORAMA CONTRACTING AND ENG.SERV.		HAMALA
PANORAMA CONTRACTING AND ENG.SERV.	PIPELINE ADDUR TO ALAREEN	Addur
POULLAIDES CONSTRUCTION COMPANY	EARTH HOLE DRILLING	TATWEER
DADABHAI CONSTRUCTION	ALUMINUM FACTORY	HIDD
JASCO	SEWERAGE SCHEME	NABISALEH
ALLIANCE PROJECTS	HOUSING PROJECTS AT SEHLA	SEHLA
MSCEB	30HOLES FOR MOH @UM AL HASSAM	UM AL HASSAM
AL HEDAYA -	SHURA CONCIL	GUDAIBIYA
PANORAMA CONTRACTING AND ENG.SERV.	REPORT OF CAVITY SURVEY BY ROTARY	HAMALA
AL HASSANIAN CO.BSC	DURRAT AL BAHRAIN	DURRAT AL BAHRAIN
ANSARI ENGG	PRIVATE VIILA	ARAD

QEL - BAHRAIN PROJECT LIST		
CLIENT	SITE INVESTIGATION PROJECTS	LOCATION
DADABHAI CONSTRUCTION	SHOPPING COMPLEX AL AHLI CLUB	ZINJ
ANSARI ENGG	AL NAKHEEL	JANABIYAH
ITHMAAR DEVELOPMENT CO.	PPP-LUWSI	LUWZI
ITHMAAR DEVELOPMENT CO.	SEA VILLA-PMC -	DILMUNIA
PANORAMA CONTRACTING AND ENG.SERV.	WATER TRANSMISSION :SANAD JN TO ISA TOWN	SANAD
ITHMAAR DEVELOPMENT CO.	SEA VILLA-PMC - -NO REPORT-EXTN OF SITE SUPERVISION	DILMUNIA
PANORAMA CONTRACTING AND ENG.SERV.	EARTH HOLE DRILLING-NO REPORT	RIFFA
ALBA	SUB SURFACE INVESTIGATION	ALBA
ITHMAAR DEVELOPMENT CO.	PPP-AMAS	AMAS
AL KOOHEJI	NORTH MANAMA CAUSEWAY	NORTH MANAMA
AL DOOR EXCAVATION	APARTMENT BLOCK-ISA TOWN	ISA TOWN
ESKAN BANK	ESTIQLAL RESIDENTIAL PROJECT	ISA TOWN
DG JONES	5 STAR HOTEL AT SEEF,ONE AND ONLY BAHRAIN	SEEF
PANORAMA CONTRACTING AND ENG.SERV.	COMMENT ON FOUNDATION DESIGN	HIDD
HQ CONSTRUCTION	BAISAN CARPARK	HOORA
CEBARCO	15 STOREY BUILDING	BUSAIEEN
ITHMAAR DEVELOPMENT CO.	SEAVILLA LAND FILLING	DILMUNIA
ITHMAAR DEVELOPMENT CO.	SOUTH RESIDENTIAL DEVELOPMENT	DILMUNIA
MSCEB	RESIDENTIAL BUILDING	AMWAJ
SAMSUNG	POST SURVEY SOIL INVESTIGATION	HIDD
GPZ	KING FAHAD CAUSEWAY	KFC
HQ CONSTRUCTION	BAISAN HOTEL	JUFFAIR
AL HASSANIAN CO.BSC	NABI SALEH SEWERAGE & DRAINAGE COMMENT	NABI SALEH
PANORAMA CONTRACTING AND ENG.SERV.	WATER TRANSMISSION DEVELOPMENT-GROUND STORAGE TANK	HIDD
MAZEN ALUMRUN (MACE)	DESIGN OF SSFD CAMP PROJECTS FOR MOI AT SAFRA	SAFRA
E.K.KANOO/ DESIGN HOUSE	3NO WARE HOUSE AT SALMABAD	SALMABAD
ANSARI ENGG	KING FAISAL HIGHWAY CORNICLE DEVELOPMENT	MANAMA
ANSARI ENGG	MARINE CHANNEL INVESTIGATION,AL NAKHEEL	JANABIYAH
UNITED ENGINEERING	PROPOSED MULTI STOREY BUILDING AT SAGAYYAH	SAGAYYAH
UNITED ENGINEERING	PROPOSED 35 STOREY SERVICE APARTMENT BUILDING AT JUFFAIR	JUFFAIR
UNITED ENGINEERING	PROPOSED 35 STOREY APARTMENT BUILDING AT JUFFAIR	JUFFAIR
UNITED ENGINEERING	20 STOREY BUILDING AT AMWAJ ISLAND	AMWAJ
ARABIAN INTERNATIONAL MECHANICAL	ENDURANCE VILLAGE COMPLEX	ZALLAQ
PANORAMA CONTRACTING AND ENG.SERV.	6 NO. CPT TEST AT HIDD FORWARDING STATION	HIDD
MIDDLE EAST FOUNDATION	G+6 RESIDENCIAL BUILDING AT HIDD	HIDD
UNITED ARB CONSTRUCTION	PROPOSED TRESSURE TOWER AT DILMUNIA	DILMUNIA
KINGDOM OIL CO. W.L.L	PROPOSED WARE HOUSE & 4 STOREY OFFICE BUILDING	SOUTH ALBA
ADPI	BAHRAIN INTERNATIONAL AIRPORT MODERNIZATION PROGRAM (AMP)	AIRPORT
DOWN TOWN CONSTRUCTION	ONE & ONLY BAHRAIN AL SEEF - CPT	SEEF
UNITED ENGINEERING	PROPOSED RESIDENTIAL BUILDING AT UMM AL HASSAM	UM AL HASSAM
AL HEDAYA -	PROPOSED A&B BUILDING AT TUBLI-ACCOMODATIN	TUBLI
GARMCO	PROPOSED REMELT EXPANSION PROJECT	GARMCO
AL KOOHEJI ELECTRICAL CONTRACTORS	WATER TRANSMISSION DEVELOPMENT	SALMABAD
NASS CONTRACTING	PROPOSED MOSQUE AT EKKER	EKKER
AL MARISIM CONT.	DRILLING OF 4 # EARTH HOLES 8M DEEP AT RIFFA	RIFFA
BAHRAIN AIRPORT	PROPOSED SITE FOR RELOCATION OF BAFCO	AIRPORT
CHAPO	EARTH HOLE DRILLING @ BUHAIR	BUHAIR
DADABHAI CONSTRUCTION	MULTI-PURPOSE HALL AT AL AHLI CLUB	ZINJ
DOWN TOWN CONSTRUCTION	WATER PIPELINE WEST INSTALLATION WORKS	
MSCEB	KING FAISAL HIGHWAY CORNICLE DEVELOPMENT	MANAMA
PANORAMA CONTRACTING AND ENG.SERV.	EARTH HOLE DRILLING AT WEST RIFFA BS	RIFFA
KANOO GROUP (ABDUL REHMAN JASSIM KANOO)	ARC GRADEN 35 VILLAS COMPOUND @ JANABIA (VILLA -08)	JANABIYAH
PANORAMA CONTRACTING AND ENG.SERV.	CPT TEST AT HIDD FORWARDING STATION (POST TRATMENT)	HIDD
SAMSUNG ENGINEERING	MINISTRY OF WORKS DEVELOPMENT OF SEWAGE TREATMENT PLANT AND CONVEYANCE AT MUHARRAQ	MUHARRAQ
DADABHAI CONSTRUCTION	EXTENSION TO EXISTING VILLA AT BUSAITEEN (AD3)	BUSAIEEN

QEL - BAHRAIN PROJECT LIST		
CLIENT	SITE INVESTIGATION PROJECTS	LOCATION
CHAPO	EARTH HOLE DRILLING @ SALMANIYA	SALMABAD
DOWN TOWN CONSTRUCTION	ONE & ONLY BAHRAIN AT SALMANIYA - CPT	SEEF
MINISTRY OF INTERIOR	RAIN WATER COLLECTION PIT AT GDT	ISA TOWN
AHMEED QAED CONT. EST	MR.AHMEED QAED @ DILMUNIA	DILMUNIA
CHAPO	EARTH HOLE DRILLING @ RIFFA	RIFFA
DADABHAI CONSTRUCTION	SHAIKH ISA AVENUE MUHARRAQ 216	MUHARRAQ
AJUWARA REAL ESTATE INVESTMENT	BOREHOLES FOR ANDALUSIA COMPLEX SITE IN ZAYED TOWN	ZAYED TOWN
AXIS COMPUTER W.L.L	SOIL TEST AT BAHRAIN INTERNATIONAL AIRPORT	AIRPORT
DOWN TOWN CONSTRUCTION	ONE & ONLY BAHRAIN AL SEEF	SEEF
ESKAN BANK	COMMUNITY SHOPE AT VARIOUS SITES (7 SITES)	VARIOUS
PANORAMA CONTRACTING AND ENG.SERV.	4612C/2011/3100- NO. GROUND STORAGE TANKS @ HIDD	HIDD
UNITED ARB CONSTRUCTION	MULTI STOREY RESIDENTIAL BLDING @ BUSAITEEN	BUSAIEEN
YOUSIF ENGINEERING	BOREHOLES INVESTIGATION FOR PLOT 04025746	SANABIS
PANORAMA CONTRACTING AND ENG.SERV.	SALMANIYA BLENDING STATION ,OVERFLOW DRAINAGE SOAKAWAY	SALMABAD
AL ESLAH SOCIETY (BUSITEEN)	5 STOREY BUILDING @ AMWAJ	AMWAJ
BANA GAS (BAHRAIN NATIONAL GAS)	BAHRAIN GAS PLANT (CGP-111) AT SAKHIR	BANAGAS
BAPCO	GEOTECHNICAL INVESTIGATION NEAR FIRE WATER PUMP HOUSE @ SITRA	BAPCO
BAPCO	GEOTECHNICAL INVESTIGATION NEAR HLPH @REFINERY	BAPCO
MSCEB	KING FAISAL CORNICHE DEVELOPMENT	MANAMA
BANA GAS (BAHRAIN NATIONAL GAS)	GAS PLANT CGP 3	BANAGAS
HAJ GULF HOUSE ENGINEERING	REPORT ON THE GROUND INVESTIGATION SAKHIR CONFERENCE CENTRE: SCC 233	SAKHIR
ESB INTERNATIONAL	220 kV NEW AL MATAR &66 kV GHARB AL MATAR SUBSTATION PLOTS NEAR BAHRAIN INTERNATIONAL AIRPORT	AIRPORT
G.P.ZACHARIADES OVERSEAS LTD.	EARTHOLE DRILLING AT SEEF	SEEF
MSCEB	GAC LOGISTIC CENTRE AT BIW, HIDD	HIDD
PROJECT MANAGEMENT	TOPOGRAPHIC SURVEY ONE & ONLY BAHRAIN AT SEEF	SEEF
ABDULLA AMEEN	MULTI-STOREY BUILDING AT HIDD	HIDD
PLAN ARCHITECT AND DESIGN(PAD)	135 REEF VILLA FOR LULU TOURISM COMPANY AT PLOT NO 03220163	REEF ISLAND
G.P.ZACHARIADES OVERSEAS LTD.	CAR GARAGE AT JIDDAH ISLAND ( UMM AN NASSAM)	UMM AN NASSAM
G.P.ZACHARIADES OVERSEAS LTD.	ONE & ONLY 5 STAR RESORT AT SEEF MEP	SEEF
FAWZIA YOUSIF AKBAR	FAWZIA KOOHEJI ADILYA APARTMENTS	ADLIYA
OLYMIC CONTRACTING	66 KV CITY TYPE SUB STATION AT ESKAN TUBLI	TUBLI
ARAB ARCHITECTS	PROPOSED RESIDENTIAL BUILDING AT HOORA	HOORA
MOHAMED SAMER ZUHAIR	FIVE STOREY BUILDING @ HIDD	HIDD
MEGA MARINE CO.	SOIL INVESTIGATION SERVICES PLOT @ BIW	BIW
ABDULLA ISA MUBARAK	RESIDENTIAL APARTMENTS @ AKER	AKER
BAPCO	REPLACE NO.3 API SEPARATOR	REFINERY
MSCEB	PROPOSED RESIDENTIAL BUILDING @ SEEF	SEEF
UNITED ARB CONSTRUCTION	PROPOSED 3 TOWERS @ BAHRAIN BAY	BAHRAIN BAY
POULLAIDES CONSTRUCTION COMPANY	EARTH HOLE DRILLING AT WASMIYA	WASMIYA
AL HAIKAL CONSTRUCTION	S.I WORKS @ MAMEER	MAMEER
BAHRAIN PETROLEUM CO.	REPLACE TRAVELLING BAND SCREEN @ HLPH SUCTION	REFINERY
POULLAIDES CONSTRUCTION COMPANY	EARTH HOLE DRILLING @ WASMIYA	WASMIYA
AHMED QAED CONT.	S.I- DILMUNIA - MIXED USES SITE NO. 9, 10 & 11	DILMUNIA
BAHRAIN AIRPORT	S.I- WORKS FOR ENVIRONMENTAL INFORMATION	AIRPORT
TAMEER ENGINEERING	PROPOSED MULTI STOREY BUILDING AT HOORA	HOORA
DIYAR AL MUHARRAQ	SOIL INVESTIGATION WORKS @ DIYAR AL MUHARRQ	DIYAR AL MUHARRAQ
EAGLE HILLS DIYAR COMPANY W.L.L	THE BAHRAIN MALL, HOTEL AND RESIDENCES @ DIYARRAL MUHARRAQ	DIYAR AL MUHARRAQ
DADABHAI CONSTRUCTION	S I SEVICES @ SEEF TERRACE PLOT 04029018	SEEF
VATECH WABAG LIMITED	AL MADINA AL SHAMALIAYAH (AMAS)	AMAS
ARAB ARCHITECTS	PROPOSED 3 STOREY VILLA FOR MR. JASSIM HAMAD	
GULF ALUMINIUM (GARMCO) / FIVE SOLIOS S.A	PROPOSED REMELT EXPANSION PROJECT AT GARMCO	GARMCO
AHMED ESSA CONSTRUCTION	PROPOSED 4 STOREY RESIDENTIAL / COMMERCIAL BUILDING @ TUBLI	TUBLI
MCSC WLL	ICWRS - PHASE 1 PROJECT - BAPCO	BAPCO
BIHR - HQ CONSTRUCTION	PROPOSED BIHE KITCHEN @ BARBAR	BARBAR
TARGET TRENCHLESS/ TERNA GROUP	AMAS PRIMARY SEWER & TSE NET WORKS	AMAS
GULF SKY CONTRACTING	GROUND PENATRATION RADER ( GPR) SURVEY	AL AREEN
PANORAMA CONTRACTING AND ENG.SERV.	EARTH HOLE DRILLING @ AL DUR	AL DUR
CHAPO	CONSTRUCTION OF TWO SUBSTATION FOR ADDITIONAL POWER SUPPLY	AIRPORT

QEL - BAHRAIN PROJECT LIST		
CLIENT	SITE INVESTIGATION PROJECTS	LOCATION
GULF HOUSE ENGINEERING	AL REYA CENTER AT RIFFA	RIFFA
PANORAMA CONTRACTING AND ENG.SERV.	WATER TRANSMISSION DEVELOPMENT SITRA DFS TO SITRA BS PIPELINE	EWA
PANORAMA CONTRACTING AND ENG.SERV.	WATER TRANSMISSION DEVELOPMENT BUQU WARAH ROAD TO WEST RIFFA BS PIPELINE	EWA
PANORAMA CONTRACTING AND ENG.SERV.	WATER TRANSMISSION DEVELOPMENT SITRA DFS TO SANAD	EWA
AL QAWAREER CONTRACTING	NOOR AL DIYAR PRIVATE SCHOOL @ DIYAR AL MUHARRAQ	DIYAR AL MUHARRAQ
POULLAIDES CONSTRUCTION COMPANY	EARTH HOLE DRILLING AT SEEF	SEEF
AL HANDASAH CENTRE	FIVE STOREY BUILDING @ MAHOOZ	MAHOOZ
SIEMENS	3 NO 400KV SUBSTATION AT RIFFA,HIDD AND UMM AL HASSAM	BAH
AL MARZOOQ GROUP	SITE AT MAHOOZ	MAHOOZ
AL MARZOOQ GROUP	SITE @ TUBLI	BAH
G.P.ZACHARIADES OVERSEAS LTD.	PROPOSED 2 STOREY VILLA @ QURAYA	QURAYA
DHEYATAWFEEQI	PROPOSED PHYSIOTHERAPY CENTER	BAH
ALBA	ALBA POWER STATION -5	ALBA
BAHRAIN MOTORS CO.	MUBARQA BUILDING	MUBARQA
EUREKA FOR SMART PROPERTIES	VIOLET RESIDENCE	BAH
CHAPO BAHRAIN	AL FORAT VILLA @ A'ALI	A'ALI
EGIS INTERNATIONAL	SH. KHALIFA BIN SALMAN HIGHWAY- FAE00Q IC	FAE00Q IC
EGIS INTERNATIONAL	SH. KHALIFA BIN SALMAN HIGHWAY- SAAR IC	SAAR IC
MR.ABDULLA AMIN	SOIL INVESTIGATION 2 HIDD	HIDD
JAWHARAT AL KHALEEJ	SOIL INVESTIGATION @ ENTENNCE 59, BLOCK 332	BAH
MR. ALI MOHAMED & MR. FAHAD	SOIL INVESTIGATION @ HIDD	HIDD
MR.MAHA ALI BIN ISA	SOIL INVESTIGATION @ HIDD	HIDD
AL- A'ALI ENGINEERING	BUSAITEEN SHOPPING CENTER	BUSAITEEN
DNS CO.	BUSAITEEN SHOPPING CENTER AT DIYAR AL MUHARRQ	DIYAR AL MUHARRQ
GULF HOUSE ENGINEERING		BAH
JASCO	PROPOSED 9 STOREY BUILDING	BAH
AHMED MANSOOR AL ALI	PILE CORING - ESR @ SEEF	SEEF
AS FAR CONSTRUCTION	SOIL INVESTGATION @ SANABIS	SANABIS
ROYAL COURT	SAKHIR MOSQUE	SAKHIR
NASS CONTRACTING	400 KV TRANSMISSION DEVELOPMENT	BAH
ALMA'AWDAH CONSTRUCTION	GEOTECHNICAL INVESTIGATION @ DILMUNIA	DILMUNIA
AAA HOME W.L.L	GEOTECHNICAL INVESTIGATION @ AAA HOME @ JUFFAIR	JUFFAIR
AL NOOR ARCHITECTS	3 STOREY MULTI PURPOSE BUILDING /D02-2016	BAH
JAWHARAT AL KHALEEJ	COMMERCIAL 2 STOREY BUILDING AT SUGAYYA PLAZA	SUGAYYA
AL JAMEEL CONSTRUCTION	MULTI STOREY L BLDING (KAYAAN PLAZA)	BAH
NASS CONTRACTING	PROBE DRILLING - ISA TOWN DS	ISA TOWN
SHEREEN TOWER (QUALITY WIRE PRODUCTS)	SOIL INVESTIGATION - BIP @ HIDD	HIDD
CHAPO	GROUND INVESTIGATION 2208 66 KV BSP SUBSTATION @ HAMALA	HAMALA
GAMA POWE SYSTEM INC.	GEO TECHNICAL INVESTIGATION - ALBA POWE STATIONS PROJECT	ALBA
TARGET TRENCHLESS	COMMENT ONLY FOR SHAFT - DILMUNIA HEALTH ISLAN	DILMUNIA
DESIGN STUDIO ARCHITECTS	MPV PRIVATE VILLA @ HAMALA	HAMALA
GHUMAIS CONSTRUCTION CO W.L.L	SARAYA REEM PROJECT	
	CONSTRUCTION OF VILLAS AT MAQABA 507	MAQABA
BECHTEL-TOPO & FIELD SURVEY	TOPO SURVEY SERVICES - ALBA POTLINE 6	ALBA
DYNAMIC NETWORK SOLUTION	IGSM TOWER @ DIYAR AL MUHARRAQ	DIYAR AL MUHARRAQ
GAMA	ALABA POWERSTATION 5 PROJECT	ALBA
PANORAMA CONTRACTING AND ENG.SERV.	WATER STATION HIDD HOT A @ SKBS DS	HIDD
CHAPO	MNR PALACE - EARTH HOLES DRILLING	BAH
CHAPO	AL SALAMAN HOSPITAL @ BUHAIR	BUHAIR
PANORAMA CONTRACTING AND ENG.SERV.	COMMENT ON SIESMIC DESIGN OF WATER STORAGE TANK @ DIYAR AL MUHARRQ	DIYAR AL MUHARRAQ
FIVE SOLIOS	SPT BOREHOLES	GARMCO
ZAYANI TRAING & COTRACTING CO. W.L.L	M 254 - JAW PRIMARY GIRLS SCHOOL @ JAW	JAW
POULLAIDES CONSTRUCTION COMPANY	RESTAURANT @ ADLIYA	ADLIYA





QEL MATERIAL TESTING-MAJOR COMPLETED / ON-GOING PROJECT			
SL NO.	CLIENT	PROJECT	LOCATION
1	AL HEDAYA CONTRACTING	DAM AFFORDABLE HOUSING	DIYA AL MUHARAQ
		MANARA 59 VILLAS	GALALI
		PROPOSED 60 TOWN HOUSES TYPE -T3M SITE 147, BLOCK 625 & 745 AT SANAD	SANAD
		CONSTRUCTION OF COMMUNITY PROJECT	BUDAIYA,SAMAHEEJ AND GUDAIBIYA
		NEW ADMINISTRATIVE BUILDING FOR SHURA COUNCIL'	GUDABIYA
		PROPOSED FOOT BRIDGE	HAMAD TOWN
2	ALLIANCE PROJECTS	ARABIAN SUGAR FACTORY	HIDD
3	PANORAMA CONTRACTING	WATER TRANSMISSION DEVELOPMENT PROJ	HAMALA,ARAD,SANAD,HOORA,WEST RIFFA
4	NASS CONTRACTING	SULB-STEEL MILL INTEGRATION FACILITIES-HIDD	HIDD
		ASRY	HIDD
		BDF APPROACH CHANNEL AND PLATFORM AT SHEIKH KHALIFA BIN SALMAN PORT	MINA SALMAN
		BASREC FACILITIES EXPANSION	BIN SALMAN PORT
		AL NAKHEEL HOUSING PROJ	JANABIYA
		DRAGON CITY	DIYAR AL MUHARAQ
		BANYAN TREE AL NAKHEEL HOUSING PROJ	JANABIYA
		EAST HIDD HOUSING PROJECT	EAST HIDD
		DIYAR AL MUHARAQ INFRASTRUCTURE PHASE 1	DIYA AL MUHARAQ
		51 HOUSES T8 @ LAWZI LAKE	HAMAD TOWN
		BAPCO SIPS PROJECT	SITRA
		SH.KHALIF BIN SALMAN HIGHWAY	HAMAD TOWN
5	RED X	GENERAL - QC	*
6	AL NAMAL	PROPOSED 129 NOS HOUSING PROJECT	SADAD
		PROPOSED COMMERCIAL & RESIDENTIAL FOUR STOREY	GUDABIYA
		JUFFAIR HOTEL & SHOPPING MALL (258)	JUFFAIR
		PROPOSED HOTEL ON PLOT NO : 03043105 (G+19 FLOOR)	JUFFAIR
		PROPOSED 129 NOS HOUSES @ SADAD	SADAD
		HOTEL & APARTMENT	HOORA
7	DOWN TOWN	PAINTING WORKS FOR SEVERAL BRIDGES ON ROAD	SHEIKH ISA BIN SALMAN CAUSEWAY BRIDGE
		DAM AFFORDABLE HOUSING	DIYAR AL MUHARAQ
		WAHAT AL MUHARRAQ, PHASE II	GALALI
		STORM DRAINAGE AND DIVERSION	SEEF
		5 STAR HOTEL & RESORT	SEEF
		ONE AND ONLY BAHRAIN	SEEF
8	AL KOOHEJI ELECTRICAL CONTRACTORS	220KV HIDD - MANAMA	JUFFAIR
		PROPOSED OFFICE AND LABOUR QUARTERS	ASKER
		220 KV ALEZZEL BUSAITEEN - DIYAR AL	DIYA AL MUHARAQ
9	POULLADIES	BAPCO SERVICE STATION	ISA TOWN
		BAPCO SERVICE STATION	ASKER
		NEW OFFICE COMPLEX FOR TATWEER PETROLEUM	TATWEER
		BAHRAIN KUWAIT EMBASSY RESIDENCE	ADLIYA
		AB03 - 11 STOREY BUILDING	RIFFA
		BISD (BAHRAIN INDOOR SYSTEM DRIVING)	WASMIYA
10	CEBARCO	TATWEER PETROLEUM CAR PARK	TATWEER
		SUGEYA RESIDENTIAL BUILDING	SUGEYA
		VILLA FOR DR. MAHMOOD	AMWAJ ISLAND
		DILMUNIA HEALTH ISLAND INFRASTRUCTURE WORKS	DILMUNIA ISLAND
		SHEIKH SALMAN MOSQUE @ AWALI	AWALI - BAPCO AREA
		DILMUNIA SEA VILLA	DILMUNIA ISLAND
		66KV - SUBSTATION	DILMUNIA ISLAND
		PROPOSED TWO STOREY VILLA	HAMALA
12	BAHRAIN CONCRETE	GENERAL - QC	*
13	HAJI HASSAN READY MIX	GENERAL - QC	*
14	BAHRAIN MOTOR COMPANY	IMPROVEMENTS TO MAZERAH AVENUE	JASRA
		INFRASTRUCTURE WORKS FOR 320 NOS. TOWNHOUSES @ JIDHAFFS	JIDHAFFS
		TCO-106 LMRA SITE	SEEF
		IMPROVEMENT OF BAYNAT AVE	RIFFA
		BUSITEEN, BLOCK 228, PHASE-1	BUSAITEEN
		FOUR SEASONS HOTEL, BAHRAIN BAY DEVELOPMENT	ASKER
		INFRASTRUCTURE WORK FOR 29 NOS T8 HOUSES	HUNANIYA
		EXTENSIONS OF 200MMØ WATER MAIN	GHURAYFA
		INFRASTRUCTURE WORKS FOR 158 NOS,	BILAD AL KHADAM
		DURAT AL MARINA DEVELOPMENT PROJECT PHASE -2	DURAT AL MARINA
15	ISMAIL KHONJI ASSOCIATES	ALBA CALCINER - SOFFIT OF JETTY	ALBA
16	AMA	VAIOUS PROJECTS	*
		EWA- WATER STATION - NBNT	BUDAIYA
17	KINGDOM PROJECT	KINGDOM INDUSTRIAL SHOWROOM	TUBLI
		PRIVATE VILLA AT EXTENSION	HIDD



QEL MATERIAL TESTING-MAJOR COMPLETED / ON-GOING PROJECT			
SL NO.	CLIENT	PROJECT	LOCATION
18	EASTERN READYMIX	VAIOUS PROJECTS	*
19	AL QAWAREER	ISA SPORTS CITY - NATIONAL STADIUM UPGRADING WORKS	ISA TOWN
		WAREHOUSE BIW	HIDD
		BODY MODIFICATION AND REPAIR - ZAYANI MOTORS	RIFFA
		ONE NUMBER 10 STOREY CONT C	UMMAL HASSAM
20	EASTERN ASPHALT	WARE HOUSE DEVELOPMENT	HIDD
		STP - ILS	HIDD
		WAREHOUSE DEVELOPMENT CIVIL AND ASPHALT	HIDD
		CENTRAL CUSTOMER SERVICE CENTER	ISA TOWN
		PARKING AREA PROPOSED SHOPING MALL COMMUNITY	MUHARRAQ
		HIDD WEST RING ROAD	HIDD
		DELMON CHOCALATE FACTORY	HIDD
		WARE HOUSE DEVELOPMENT PROJECT @ BIW	HIDD
		AVE 49 @ ARAD (ROAD WORKS)	ARAD
		INTERLOCK PAVING VALUES	AL BANDAR AL DAR
		IMPROVEMENT OF SAHALA JUNCTION	SHALA
21	JASCO	PROPOSED SEWERAGE SCHEME	NABI SALEH
		A'ALI SEWERAGE SCHEME	A'ALI
		PROPOSED SEWERAGE SCHEME @ ROADS	KARANAHA
		CAR PARK, BLOCK 7221 ROAD 2107	BUSAITEEN
		IMPROVEMENT OF MAHZORAH AVENUE	RIFFA
		IMPROVEMENT OF NUWAIDRAT VILLAGE ROADS PHASE 2	NUWAIDRAT
		PROPOSED BOUNDARY WALL, PARKING AREA & GUARD HOUSE FOR SLRB HEADQUARTERS	SANABIS
		PROPOSED MODIFICATION & EXTENSION TO EXISTING TOYOTA SERVICE CENTER(TSC)	ARAD
		CONSTRUCTION OF NEW PARKING BUILDING / MODIFICATION TO EXISTING LEXUS CENTRE @ ARAD	ARAD
		36 HOUSES @ ARAD	ARAD
		IMPROVEMENT OF RIFFA ROADS - BLOCK - 912	RIFFA
22	BAHRAIN DUTCH FOUNDATION	PROPOSED MULTISTORIED BUILDING AT SEEF	SEEF
		JW MARRIOT HOTEL & APARTMENTS	BAHRAIN BAY, DEVELOPMENT
		EIGHT STOREY BUILDING AT REEF ISLAND	REEF ISLAND
		GRAND TOWER RESIDENTIAL BUILDING AT SEEF (BDF-8049)	SEEF
		NABIH SALEH SEWERAGE AND DRAINAGE SCHEME	NABIH SALEH
		PROPOSED NEST TOWER	SEEF
		FORBES TOWER	SEEF
		360 TOWERS	DURRAT MARINE
		FORBES TOWER	SEEF
		BDF-SH.KHALIFA BIN SALMAN HIGHWAY ROUNDABOUT 18.1 TO 13	HAMAD TOWN
		PROPOSED 2 UNITS-3 STOREY BUILDING @ MUHARRAQ	MUHARRAQ
23	AL THADAMUN	PROPOSED TYRE WARE HOUSE @ SALMABAD	SALMABAD
		DRIVING TEST SCHOOL	A ALI
		PROPOSED ROAD WORK AT GUARD TRAINING SCHOOL	SAFRAH
		HAMAD TOWN BLK. 1214 & ACCESS TO DAR KULAYB FROM SH. HAMAD AVE BLK. 1215&1216	HAMAD TOWN
		CAR PARKING FOR COAST GUARD HEAD QUARTERS	AL BANDAR
		PROPOSED PRIVATE VILLA	RIFFA
		INFRA FOR 59-T8 HOUSES	WEST RIFFA
		INFRASTRUCTURE WORKS FOR 61NOS T3M HOUSES, BLOCK 960, SITE-167 @ JAW	JAW
		IBN THAIMIYA MOSQUE CAR PARK	RIFFA
		CAR PRK @ CID OFFICE	ADLIYA
		PROPOSED PARKING SHADE	SAFRA
24	AFCONS	HAMAD TOWN BLOCK 1214 PHASE -1 ROAD 1434A (OPENING OF ROADS)	HAMAD TOWN
		MINASALMAN INTERCHANGE	MINASALMAN
		AMAS	BUDAIYA
		CREATION OF INFRASTRUCTURE ZALLAQ PORT	ZALLAQ
		ISLAND 13/14 GRADING WORKS AT AL MADINA	BUDAIYA
		NEW ALBA YARD JETTY	ALBA
		DURRAT AL BAHRAIN PROJECT PACKAGE 3050 A	DURRAT AL BAHRAIN
		COMPLETION WORKS FOR REPLACEMENT OF SITRA BRIDGE	SITRA
		SEWERAGE & DRANIGE SCHEME	NABI SALEH
		EAST SITRA PROJECT	SITRA
		ZALLAQ FISHING HARBOUR	ZALLAQ
26	KINGDOM READYMIX	JUFFIR ORBITAL RING ROAD - PHASE 1A	JUFFAIR
		VAIOUS PROJECTS GENERAL QC	*
27	AL AFOO	PROPOSED SEWERAGE SCHEME FOR VARIOUS ROAD 1034	MALKIYA
		PROPOSED CONNECTION FOR BDF CAMP, ROAD 104, BLOCK 601, SITRA	SITRA
		EAST RIFFA SEWERAGE SCHEME AREA E6	EAST RIFFA
		REHABILITATION OF FOUL SEWERAGE WITHIN A & B NETWORKS AREA PHASE - 1	ARAD
		SEWERAGE & DRAINAGE SCHEME PHASE-2	SEEF



QEL MATERIAL TESTING-MAJOR COMPLETED / ON-GOING PROJECT			
SL NO.	CLIENT	PROJECT	LOCATION
		WEST RIFFA SEWERAGE SCHEME	WEST RIFFA
		REHABILITATION OF FOWL SEWERAGE	SANABIS
		SAAR SEWERAGE SCHEME PHASE 3 (ASPHALT WORK)	SAAR
		EXTENSIONS OF SHARAKAN SEWERAGE SCHEME	SHARAKKAN
28	AFAAQ AL KHALEEJ	150 TOWNHOUSES AT NABIH SALEH	NABI SALEH
		10 HOUSES AT ASKAR	ASKER
		225 TOWNHOUSES AT NABIH SALEH	NABI SALEH
		OPENING OF ROADS & CARPARK CONSTRUCTION BLOCK #1214	HAMAD TOWN
		CONSTRUCTION OF RETAINING WALL & ROAD BLOCK 910 @ WEST RIFFA	WEST RIFFA
29	CHAPO	RENAISSANCE HOTEL	AMWAJ ISLAND
		AMWAJ WAVES PHASE-1	AMWAJ
		ROYAL TULIP AMWAJ C-262	AMWAJ
		REMELT PLANT SCRAPYARD	SITRA
		PROPOSED MULTI STOREY BUILDING	GUDABIYA
		66 KV BSP SUBSTATION @ SHAMAL AL BUHAIR	SHAMAL AL BUHAIR
		66 KV BSP SUBSTATION @ SHAMAL AL BUHAIR	RIFFA
		66 KV SUBSTATION	SALMANIYA
		PROPOSED VILLA FOR MR PARKER	HIDD
		SMC - SUBSTATION C290C	SALMANIYA
		AL MUSHARAF PALACE	RIFFA
		TILAL RESIDENCE @ AMWAJ ISLAND (C - 296)	AMWAJ ISLAND
		66KV LOOP TYPE SUB STATION	HUNENIYA
		SHARQ AL MUHARAQ SUB STATION	MUHARAQ
		GRAMCO @ SITRA - C281	SITRA
	DELMON READY MIX	SUBSTATION C260	SALMABAD
		AICI-UKMCC MINA SALMAN	HIDD
		CEBARCO - DILMUNIA INFRASTRUCTURE	SALMABAD
		CENG-490 SENIOR PROJECT	SALMABAD
		SHAIK KHALIFA BIN SALMAN HIGHWAY PHASE - 05	HAMAD TOWN
30	DELTA	CENTRAL STORE	SAFRAH
		SUBSTATION 711	AMWAJ ISLAND
		PRIVATE RESIDENTIAL VILLA COMPOUND	JASRA
		PROPOSED ZEENATH RESIDENCE @ AMWAJ ISLAND	AMWAJ
31	AL DOOR	ROAD 4411, BLOCK 244	ARAD
		AL NASAR 4-STOREY RESIDENTIAL BUILDING AT ADLIYA ROAD #2708	ADLIYA
		REPLACEMENT OF PIPELINE AT BLOCK 342 ROAD 4211,4215,4219 & 4220	JUFFAUR
		540 D11 HOUSING PROJECT, 11 NOS AX APARTMENT & 2NOS AU APARTMENT UNIT	SITRA
		CONSTRUCTION OF 92 TOWN HOUSES	JENNUSAN
		4NOS AX APARTMENT (136 FLATS)	BURHAMA
		ROAD 2830	BUSAITEEN
		14 NOS HOUSES AT JASRAH	JASRA
		92 PLOTS AT SAMAHEEJ	SAMAHEEJ
		CAR PARK FOR MUHARAQ HEALTH CENTRE	MUHARAQ
		200 HOUSES AT ZALLAQ	ZALLAQ
		WATER GARDEN CITY	SEEF
		AXIS VOCATIONAL TRAINING	JAW
		MINISTRY OF HOUSING - 275 HOUSES	SANAD
		MINISTRY OF HOUSING - 252 HOUSES	TUBLI
		413 NOS T8 TYPE HOUSES @ MALKIYA BLOCK #1033	MALKIYA
		PROPOSED ROAD DEVELOPMENT AT RIFFA LAND, BLOCK 910	RIFFA
		66 KV OVER HEAD LINE UNDERGROUNDING @ SANAD BUHAIR SECTION	SANAD
		1200 TOWN HOUSES & 2360 FLATS @ SALMABAD	SALMABAD
		INFRASTRUCTURE WORKS FOR 342(319 + 23) NO'S T8 TOWN HOUSES PHASE 192 SITE 161 BLOCK 241 & 242	ARAD
		PROPOSED CAR PARK NEAR HASAN BIN THABI BOYS SCHOOL BLOCK 207	MUHARAQ
		265 NOS HOUSE BLOCK 625 & 745	SANAD
		FOOTBALL PLAY GROUND	BURHAMA
33	AL MAKEENA	265 NOS TOWN HOUSE	SANAD
		225 NOS HOUSE BLOCK 625 & 745	ARAD
		225 D11 TYPE @ NABIH SALEH	NABI SALEH
		RESTAURANT AT ADILYA	ADLIYA
35	UNITED CEMENT CO	MINA SALMAN INDUSTRIAL AREA	MINASALMAN
		GENERAL - QC	-
36	AL BARAQ AL KHALEEJI CONSTRUCTION	PROPOSED 3 STOREY 2 ATTACHED VILLAS	GALALI
		PROPOSED PRIVATE VILLA AT SARAYA 2	SARAYA
		PRIVATE VILLA	BUDAIYA
		PROPOSED 5 STOREY BUILDING AT SANAD	SANAD
37	AL MOAYYED	POLICE FORT	MANAMA



QEL MATERIAL TESTING-MAJOR COMPLETED / ON-GOING PROJECT			
SL NO.	CLIENT	PROJECT	LOCATION
	CONSTRUCTION	PROPOSED OFFICE AND RESIDENTIAL BUILDING	SANAD
38	ANSARI ENGINEERING SERVICES	AL NAKHEEL RESORT AND SPA DEVELOPMENT DETERMINING SEA WATER @ KING FAISAL CRONCH	JANABIYA -
39	SEOUL CONSTRUCTION	3 STOREY BUILDING AT HIDD	HIDD
40	NATIONAL CONCRETE	832 AFFORDABLE HOUSING AT LAWZI LAKE	LAWZI LAKE
41	BAHRAIN PIPES	QC MONITORING	SALMABAD
43	ARAD	PROPOSED SEWERAGE SCHEME , AL QURRAYAH-551 SHAHRACKAN SEWERAGE SCHEME PROPOSED SEWERAGE SCHEME	AL QURRAYAH SHAHRACKAN ARAD
44	AAA HOMES	IBIS HOTEL THE ASIAN SCHOOL & 31 SHOPS STAFF ACCOMMODATION FOR SHEIKH KHALIFA BIN SALMAN AL KHALIFA HOUSE #2105, ROAD #4443 BLOCK	SEEF TUBLI JASRA 2 ARAD
45	KELLER	22 STOREY BUILDING AT JUFFAIR (MENWAH III) SOIL IMPROVEMENT WORKS MIRAGE CENTRE @ AL AHLI CLUB WATER TRASMISSION DEVELOPMENT PROJECT 5 STAR HOTEL & RESORT CAR PARK @ DIPLOMATIC AREA RESIDENCE TOWER	   JUFFAUR SEEF ZINJ HIDD FS SEEF
46	DADABHAI	JUFFAIR HEIGHTS JH01 @ JUFFAIR SAMARAH COMMERCIAL DEVELOPMENT PROPOSED ALUMINIUM FABRICATION FACTORY MIRAGE CENTRE	JUFFAIR SEEF HIDD ZINJ
47	MASTER CONSTRUCTION	RESIDENTIAL APARTMENT BUILDING AT PLOT AR-04 & AR-05 MAASTER INDUSTRIAL PARK @ HAMALA SPORTS RECREATIONAL FACILITIES & LABOUR ACCOMODATIO MARINA BRIDGE 01 & 02	DURRAT MARINA HAMALA DEMISTAN DURRAT MARINA
48	AL JAMEEL	3 STOREY APARTMENT PROPOSED 92 UNIT 3 7 STOREY BUILDING 7 STOREY BUILDING PROPOSED MULTI STOREY BUILDING (TWEET TOWER) DRAGON CITY	HAMAD TOWN SANAD AL BUHAIR SEEF SEEF DIYAR AL MUHARAQ
49	ACTION	RAFFLES CITY AT BAHRAIN BAY (MCS 021)	BAHRAIN BAY
50	DUNDEE	VILLA FOR MR.NAWAF ZAYANI @ WEST RIFFA	WEST RIFFA
51	HASSAN AL ANSARI	MOSQUE AT ASKAR 18-STOREY BUILDING 6 - STOREY BUILDING	  ASKAR
52	EKLEEL	PROPOSED TWO STOREY RESIDENTIAL BUILDING HOUSING REHABILITATION AND RENOVATION PROGRAM HOUSING REHABILITATION AND RENOVATION PROGRAMME	AL DAIR HIDD BUSAITTEEN
53	UNITED ENTERPRISES	HOUSING REHABILITATION AND RENOVATION PROGRAMME	-
54	CYPRUS BUILDING	TERM. CONTRACT FOR 47 HOUSES, TYPE - D11	NABIH SALEH
55	ARABIAN SUGAR	ARABIAN SUGAR FACTORY	HIDD
56	AL BARAHA CONST	AL NA'YEEM RECLAMATION & SHORE PROTECTION WORK	ASKAR
56	IDEAL PROJECT	46 HOUSES AT HAMALA.	HAMALA
57	MANAMA FOOD INDUSTRY	PROPOSED FACTORY AND OFFICE BUILDING	HIDD
58	KINGDOM BLOCKS	GENERAL - QC	HIDD
59	ADEL NOAIMI CONTRACTING	PROPOSED 3 STOREY BUILDING	GALALI
60	AL WESHA	ROYAL COURT PSK2 IRRIGATION WATER TANK S.N.K MAJLISH	RIFFA RIFFA
70	INSULATED BUILDING	GENERAL - QC	-
71	ADLIYA CONSTRUCTION	SUB-STATION 1894 B, BLOCK 338, ROAD 3811, ADLIYA.	ADLIYA
72	AL DIRIYAH CONSTRUCTION	VILLA AT HAMAD TOWN - FOR DR. QARATA	RIFFA
73	AL RAFAEEQ	PROPOSED SOCIAL CENTRE TWO STOREY BUILDING FOR MR.NAWAB RASHED EBRAHIM SALMAN AL GHATAM	BUSAITTEEN ZALLAQ
74	TRASS INTERNATIONAL	PROPOSED 2'NOS OF TWO STOREY CONNECTED VILLAS	A'ALI
75	INTER LOCK	IMPROVEMENT OF AVENUE 28, OPPOSITE OF BAHRAIN MALL	SANAD
76	FONDANA	13 STOREY BUILDING (PLOT 1179) PROPOSED CAR WASH BUILDING PROPOSED PRIVATE VILLA	AMWAJ MUHARRAQ AMWAJ ISLAND
77	AL JENAN DOOR SYSTEM	MINISTRY OF HOUSING	-
79	BAHRAIN VENTILATION	PROPOSED 3 STOREY FACTORY BUILDING AT SITRA INDUSTRIAL AREA	SITRA
80	GARNETT CONSTRUCTION	BDF STORE	ZALLAQ
81	MIDDLE EAST FOUNDATION	JUFFAIR HEIGHTS, BAHRAIN	JUFFAIR
82	AKJC	HAMALA SEWERAGE SCHEME - 1010	HAMALA





QEL MATERIAL TESTING-MAJOR COMPLETED / ON-GOING PROJECT			
SL NO.	CLIENT	PROJECT	LOCATION
83	WINTTECH	BALEXCO - PRESS #4	HIDD INDUSTRIAL AREA
84	BANZ TRADING	BANZ WAREHOUSE - 01	JUFFAIR
85	AL TAITOON	GRAND TOWER	JUFFAIR
87	AL RAKHI	PROPOSED PRIVATE VILLA	ARAD
88	AHMED ISA CONSTRUCTION	PROPOSED AL ASKARY MOSQUE	HAMAD TOWN
		AL BARIDGE MOSQUE	A'ALI
89	CONFIDENT CONSTRUCTION	PROPOSED 3 STOREY RESIDENCIAL BUILDING	SAAR
90	AL MUSAIRIE	SAC CENTRE RLBS AT DODD SCHOOL - JUFFAIR	JUFFAIR
91	AL HOOK CONSTRUCTION	TWO STOREY VILLA FOR ABDUL AZIZ AHMED KHALIFA AL MULLA	RIFFA
92	AL HAYKI CONSTRUCTION	32 VILLAS @ DILMUNIA	DILMUNIA ISLAND
93	G.P.ZACHARIDES	ZALLAQ PALACE GUEST HOUSE - RENOVATION	ZALLAQ
94	MTM TRADING	2 NOS APPARTMENT BUILDING TYPE - AX @ BURHAMA.	BUHAMA
95	SANTY EXCAVATION	PROVISION OF CIVIL CONSTRUCTION WORKS FOR SAHRAIN DEEP GAS WELL	OXY SITE
96	FALCON CEMENT	GENERAL - QC	-
97	AL A'ALI & AL SAYED	137908/C FILLING FOR PROPOSED 4 STOREY BUILDING - SSFD	SAFRAH
98	MJC	32 SEA VILLA DILMUNIA	DILMUNIA
100	AAA BIN HINDI	GENERAL - QC	SITRA
101	SMART LAND	3 STOREY BUILDING	WEST RIFFA
102	AL - FARAJ TRADING	GENERAL - QC	-
103	110 CONSTRUCTION	7 STOREY BUILDING AT UM AL HASSAN FOR SHEIKH SALMAN ATIYATALLA AL KHALIFA	UM AL HASSAM
		7 STOREY BUILDING AT UM AL HASSAM	UM AL HASSAM
104	UNITED ARAB CONSTRUCTION	13 STOREY BUILDING (PLOT 1179)	AMWAJ
		PROPOSED MULTI STOREY	SEEF
		PROPOSED TREASURE TOWER	DILMUNIA
105	BAHRAIN AIRPORT	ND TESTING FOR OLD MAINTENANCE CENTRE AT SAHRAIN INTERNATIONAL AIRPORT	AIRPORT
106	RP CONSTRUCTION	BOUNDARY WALL @ BUDAIYA	BUDAIYA
		RMK PROJECTS - 26 STOREY RESIDENTIAL BUILDING TOWER	JUFFAIR
		WASMIYA GARAGE FOR 'H.H SHAIK KHALIFA	ZALLAQ
		QUARRAYAH GARDEN DEVELOPMENT	QUARAYAH, RIFFA
		7 STOREY BUILDING	HIDD
107	AL RAZDAN CONT	TWO STOREY BUILDING	SANAD
108	KEMEN GROUP	ENDURANCE VILLAGE	ZALLAQ
110	BPC	AWALI MOSQUE 12008	SALMABAD
111	SUGAN REAL ESTATE	4 STOREY BUILDING	UM AL HASSAM
112	MAJESTIC ARJAAN CONST	GENERAL - QC	-
113	YASER ABDULLAH	SUBDIVISION AT PLOT NO-1002908 AND PLOT NO- 10022852	HAMAD TOWN
114	PROJECT CONSTRUCTION	MALKIYA GIRLS PRIMARY & INTERMEDIATE SCHOOL (CPD-14/03)	MALKIYA
		MADINAT HAMAD BOYS INTERMEDIATE SCHOOL	HAMAD TOWN
115	DESERT EAGLE SERVICES	GENERAL - QC	-
116	AICI	MILKON	JUFFAIR
		UKMCC	MINASALMAN
117	SAUDI TOWER	GENERAL - QC	SALMABAD
118	SAAJ	GENERAL - QC	HIDD



# Quality Policy

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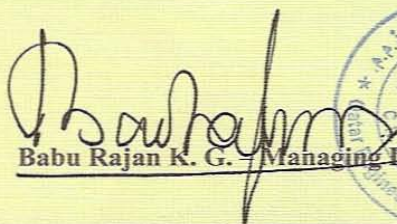
## QATAR ENGINEERING LABORATORIES

### Quality Policy

We, at QATAR ENGINEERING LABORATORIES (QEL) is committed to ensure accurate and timely testing, inspection and reporting services and to continuously meet or exceed the stated or implied expectations of our customers to achieve their maximum satisfaction. QEL interacts with customers on day to day basis for feedback information, provide development support and establish Quality checks.

This policy is achieved through,

- ✓ The commitment of the Management and Staff for providing excellent professional and quality services to our customers with the highest possible accuracy and precision.
- ✓ Maintaining accuracy, precision and reliability of testing services by complying with National / International standards and relevant project specifications.
- ✓ Communicating the company's quality statement, objective and documents to all concerned personnel by involving every employee as active participant in the process of continuous review and modification of quality improvement as it relates to all aspects of the company's business.
- ✓ Complying with the requirements of the International Standards ISO 9001:2008 and ISO/IEC 17025:2005 and continuously improving the effectiveness of the management system.
- ✓ Addressing customer feed back to continuously improve our performance and analyzing the root cause of complaints, if any, to prevent recurrence.

  
Babu Rajan K. G. Managing Director



20<sup>th</sup> February 2010



# **SAFETY POLICY**

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## **SAFETY POLICY**

**QATAR ENGINEERING LABORATORIES W.L.L.** is committed to ensuring the health, safety and welfare of its employees, so far as is reasonably practicable. The Company also accepts fully its responsibility for other persons who may be affected by its activities. The Company will take all necessary steps to ensure that its statutory duties are met at all times. This is to be achieved by committing the necessary resources and by involving all the employees. The successful Implementation of this policy requires total commitment from all levels of employee, from the boardroom to the site operations. Each individual has a legal obligation to take reasonable care for his or her own health and safety of other people who may be affected by his or her acts or missions. Full details of the organization and arrangements for health and safety are set out in the **QATAR ENGINEERING LABORATORIES W.L.L.** Safety Management System manual, which include separate safety modules,

The Company is committed to:

- The provision and maintenance of a working environment for employees that is as safe as possible, minimizes risk to health and adequate as regards facilities and arrangements for their welfare at work.
- The provision and maintenance of plant and systems of work that are safe and without risks to health.
- Safety and absence of risks to health in connection with the handling, storage and transport of articles and substances.
- The maintenance of a system for communicating safety policy to all employees for instructing and training and for the supervision of safe operations.
- The maintenance of adequate facilities and arrangements to enable employees and their representatives to raise issues of health and safety.

As Managing Director of **QATAR ENGINEERING LABORATORIES W.L.L.**, I have overall responsibility for safety. I have delegated day to day implementation of our Safety Policy.

It is a condition of employment, as well as a statutory duty, for all employees (Managers, Supervisors and Operatives) to comply with the obligations lay upon them by all statutory regulations. They are also required to co-operate fully with all measures introduced by **QATAR ENGINEERING LABORATORIES W.L.L.** to prevent accidents and ensure a healthy and safe working environment.

In circumstances where the Company Safety Policy is willfully disregarded by an employee, whether a Manager, Supervisor or Operative, action will be taken against that person for industrial misconduct, irrespective of any proceedings which may be brought by others.

This policy will be reviewed and, if necessary, revised in the light of legislative or organizational changes and its implementation will be regularly monitored to ensure that the objectives are achieved.

Date: January 2009

  
Name: K.G. Baburajan  
Position: Managing Director  


# QEL- Bahrain Branch

QATAR ENGINEERING LABORATORIES

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COEPP Licence No. EPP/GC/21 - D (A)



A BKG HOLDING COMPANY

كيو إي إل - فرع البحرين

قطر للمختبرات الهندسية



## SAFETY POLICY

QATAR ENGINEERING LABORATORIES (QEL)-Foreign Branch is committed to ensuring the health, safety and welfare of its employees, so far as is reasonably practicable. The Company also accepts fully its responsibility for other persons who may be affected by its activities. The Company will take all necessary steps to ensure that its statutory duties are met at all times. This is to be achieved by committing the necessary resources and by involving all the employees. The successful Implementation of this policy requires total commitment from all levels of employee, from the boardroom to the site operations. Each individual has a legal obligation to take reasonable care for his or her own health and safety of other people who may be affected by his or her acts or missions. Full details of the organization and arrangements for health and safety are set out in the QATAR ENGINEERING LABORATORIES (QEL)-Foreign Branch Safety Management System manual, which include separate safety modules,

The Company is committed to:

- The provision and maintenance of a working environment for employees that is as safe as possible, minimizes risk to health and adequate as regards facilities and arrangements for their welfare at work.
- The provision and maintenance of plant and systems of work that are safe and without risks to health.
- Safety and absence of risks to health in connection with the handling, storage and transport of articles and substances.
- The maintenance of a system for communicating safety policy to all employees for instructing and training and for the supervision of safe operations.
- The maintenance of adequate facilities and arrangements to enable employees and their representatives to raise issues of health and safety.

As Managing Director of QATAR ENGINEERING LABORATORIES (QEL)-Foreign Branch, I have overall responsibility for safety. I have delegated day to day implementation of our Safety Policy.

It is a condition of employment, as well as a statutory duty, for all employees (Managers, Supervisors and Operatives) to comply with the obligations lay upon them by all statutory regulations. They are also required to co-operate fully with all measures introduced by QATAR ENGINEERING LABORATORIES (QEL)-Foreign Branch to prevent accidents and ensure a healthy and safe working environment.

In circumstances where the Company Safety Policy is willfully disregarded by an employee, whether a Manager, Supervisor or Operative, action will be taken against that person for industrial misconduct, irrespective of any proceedings which may be brought by others.

This policy will be reviewed and, if necessary, revised in the light of legislative or organizational changes and its implementation will be regularly monitored to ensure that the objectives are achieved.

Date: 15 September 2010

Name: K.G.Baburajan

Position: Managing Director



**AN INDEPENDENT MATERIALS TESTING LABORATORY, NDT AND GEOTECHNICAL CONSULTANTS**

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